CERATIZIT GROUP

The Catalogue



Clamping Technology

TEAM CUTTING TOOLS

CUTTING SOLUTIONS BY CERATIZIT · KOMET · WNT · KLENK

CERATIZIT is a high-technology engineering group specialised in cutting tools and hard material solutions.

Tooling the Future

www.ceratizit.com

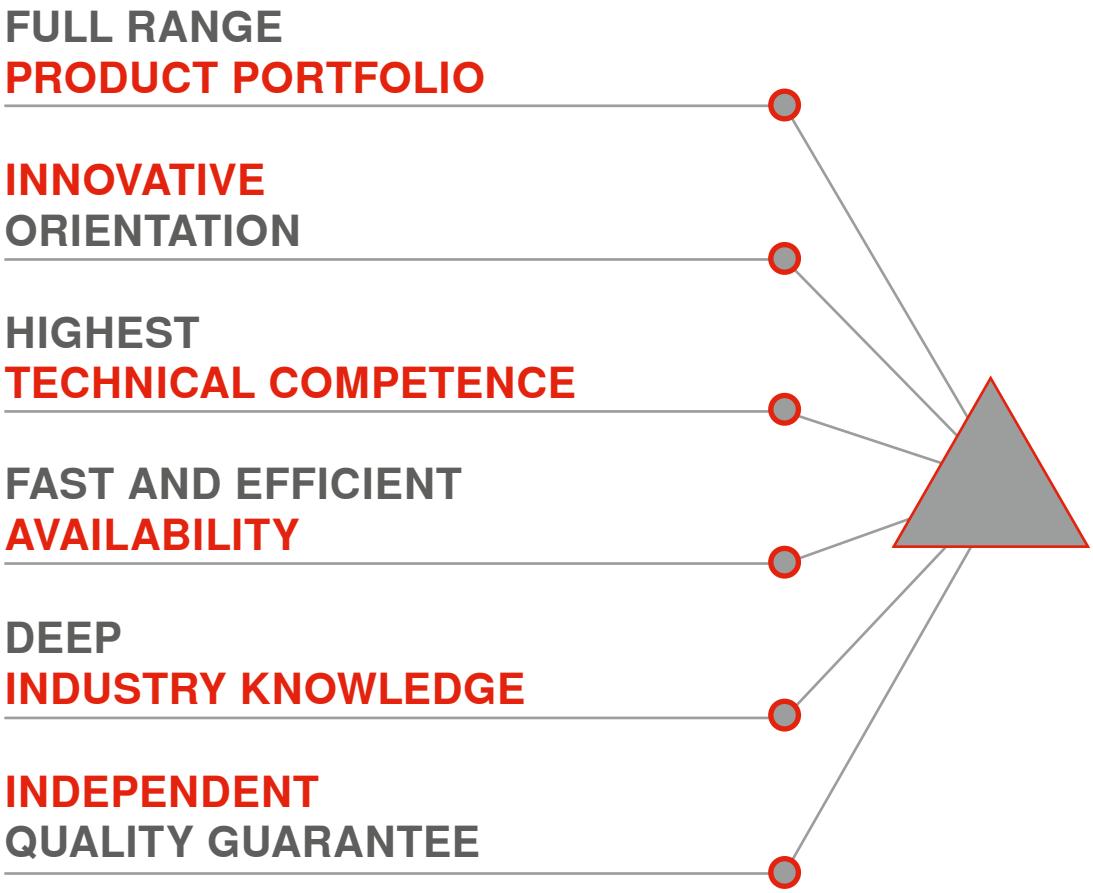
WE PROVIDE YOU WITH THE PERFECT MACHINING SOLUTION

Team Cutting Tools of the CERATIZIT Group

The machining industry today is extremely diverse and is becoming increasingly complex. Trends and innovations are moving quickly, and the possibilities and offerings seem virtually unlimited. For this reason it is all the more important to have a reliable and competent partner on board!

The Team Cutting Tools is not just a tool supplier; the experts on the team are also available to advise you with extensive industry knowledge and decades of experience in machining, in order to find you the perfect machining solution.

The Cutting Tool Solution is



Contact us



It couldn't be easier

Ordering via the Online Shop

http://cuttingtools.ceratizit.com



Manufacturing consulting and process optimization on site

Your personal application engineer

Your customer number

Solid drilling and bore machining

1 HSS drilling
2 Solid carbide drilling
3 Indexable insert drilling
4 Reaming and Countersinking
5 Spindle Tooling

Threading

6 Taps and thread formers
7 Circular and Thread Milling
8 Thread turning

Turning

9 Turning Tools
10 Multifunctional Tools – EcoCut and FreeTurn
11 Grooving Tools
12 Miniature turning tools

Milling

13 HSS Milling Cutters
14 Solid Carbide milling cutters
15 Milling tools with indexable inserts

Catalogue – Clamping technology

16 Adaptors and Accessories
17 Workpiece clamping

18 Material examples and article no. Index



E-COMMERCE SOLUTIONS

Benefit from more product data and machining knowledge online, accelerate and optimize your tool procurement processes or create a direct connection to your ERP system.

Instantly and accurately find the right tool from over 65,000 products from the brands CERATIZIT, WNT, KOMET and KLENK and order it conveniently. At cuttingtools.ceratizit.com, you now have access to one of the largest ranges of machining tools and can order products even quicker and easier thanks to countless new functions and options!

REGISTER NOW UNDER:

cuttingtools.ceratizit.com



SIMPLE TOOL AND ARTICLE SEARCH FUNCTION

- Simple article search function using the article number or product name
- Ideal filter options for quick tool search
- Recommendation of suitable accessories on the article page
- Access the latest article data at any time

FAST ORDERING

- Online processes save time and money during the ordering process
- Add items to your basket quickly and easily
- High availability including a check in the basket
- Order 24 hours a day
- Quick delivery with tracking

EXCLUSIVE ONLINE DISCOUNTS

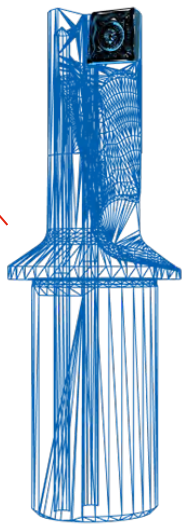
- Save money as well as time when ordering online

CONNECT TO ERP SYSTEMS

- All key data in your ERP system
- Optimise your internal procurement processes
- Avoid copy/paste errors with direct data transfer

FIRST-RATE SERVICE & ADVICE

- Free download of CAD and cutting data
- Download of forms, brochures and catalogues



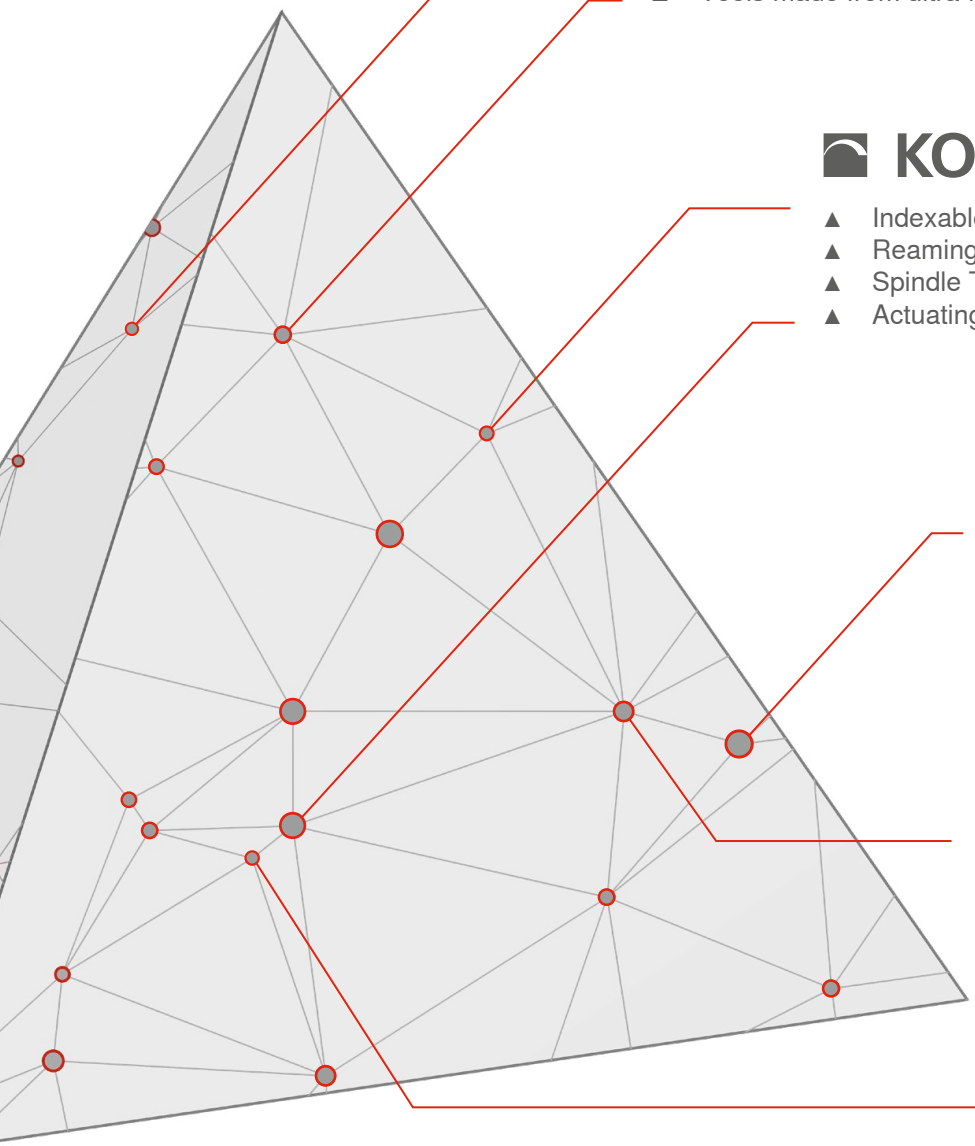
PERSONALISED CUSTOMER ACCOUNT

- Retrieve prices with your personal customer discounts
- Set up several accounts with personalised order authorisations
- Save items for later
- View and print orders and invoices

Questions about how to use the online shop and frequently asked questions can be found at: cuttingtools.ceratizit.com/int/en/faq

FULL RANGE
PRODUCT PORTFOLIO

Everything for machining from the spindle to machine table



CUTTING SOLUTIONS BY CERATIZIT

- Turning Tools
- Multifunction Tools
- Grooving Tools
- Milling Tools with indexable Inserts
- Tools made from ultra-hard cutting materials

KOMET

- Indexable Insert Drilling
- Reaming and Countersinking
- Spindle Tooling
- Actuating Tools

WNT

- HSS Drilling
- Solid Carbide Drilling
- Taps and Thread Formers
- Circular and Thread Milling
- Thread Turning
- Miniature Turning Tools
- HSS Milling Cutters
- Solid Carbide Milling Cutters
- Tool Clamping
- Workpiece Clamping

KLENK

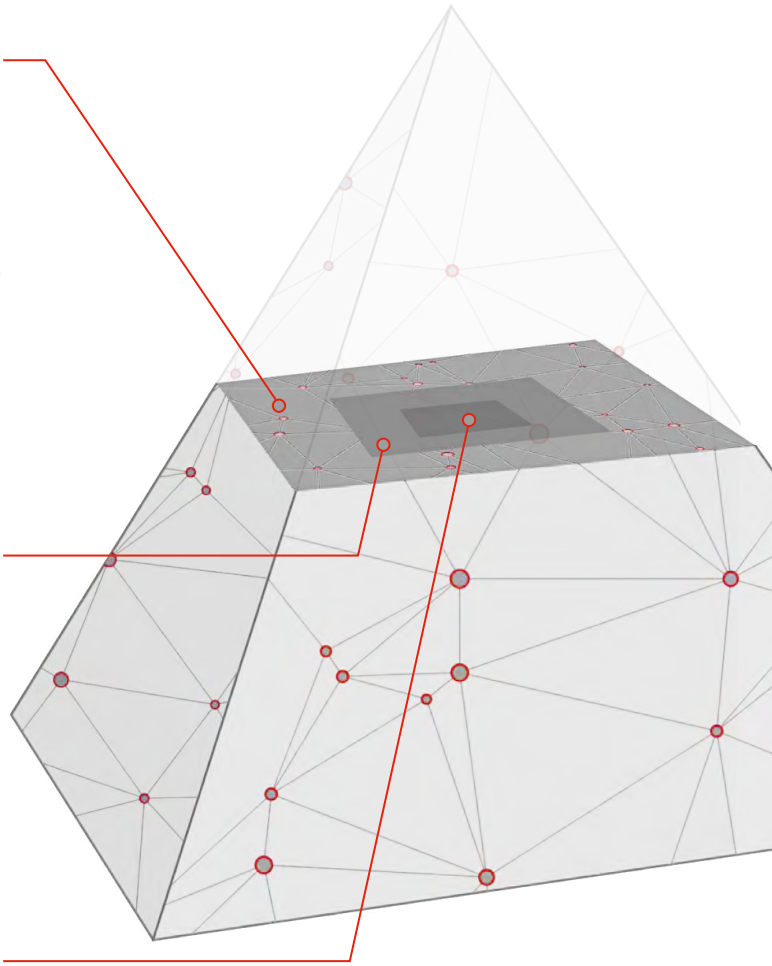
- Solid Carbide Drilling and Milling for Aerospace Frame Assembly Industry

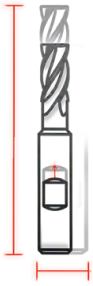




COMPREHENSIVE RANGE OF STANDARD-TOOLS

With a selection of cutting tools exclusively for machining applications, CERATIZIT has the most comprehensive product range on the market. Be it turning, drilling, milling, grooving, boring or clamping, we offer a broad selection of innovative, state-of-the-art products for every application – with 99% ex-stock availability.





CUSTOM ADAPTATIONS TO THE STANDARD TOOL RANGE

The semi standard tool programm enables you to adapt your own standard tools in a wide variety of dimensions across many product areas – quickly and individually.



SPECIAL CUSTOM TOOLS & INDUSTRY-SPECIFIC TOOLS

As one of the leading tool manufacturers and innovative pulse generator in machining, we develop optimal tool concepts for you and develop special tools that are based on the most important success factors such as efficiency, time and quality.

INNOVATIVE ORIENTATION

Machining at the highest technological level:

The Team Cutting Tools relies on future technologies such as the high-performance coating Dragonskin for best wear protection and up to 80 percent increased performance. Intelligent and customer-oriented digitization as well as sensor, monitoring and assistance systems make valuable contributions to constant, reliable process optimization.



TOOLSCOPE

Tool solutions with digital and sensory intelligence

FREETURN

The revolution in the turning process –
High Dynamic Turning with FreeTurn tools

ACTUATING TOOLS

The U-Axis system KOMtronic – efficient machining of turning contours on non-rotationally symmetrical parts

ADDITIVE MANUFACTURING

3D printing compliments machining

DRAGONSKIN

The almost indestructible surface coating

TOOL-O-MAT

Tool „at the push of a button“ with the innovative vending system





HIGHEST
TECHNICAL COMPETENCE

Always up to date with market requirements thanks to individual technological support

Application technicians and industry experts from the Team Cutting Tools are not just at your side when it comes to tool instruction. In further training courses at our Technical Centres, we are happy to pass on our practical knowledge to you so that you are always up to date with the latest technology. Thanks to our regrinding, recycling and digital services as well as the CAD models, you can also produce more efficiently, easily, flexibly and in an environmentally friendly manner.

PERSONAL APPLICATION ENGINEER

Manufacturing consulting and process optimization on site

TOOL DATA

Cutting data and CAD models to assist you with your tool management or for simulating an operation



TECHNICAL TRAINING

Our engineers are provided with constant training to keep them up to speed on all technical matters. We will gladly share this knowledge with you. Use our Service for the further education of your metal cutting technicians in our Technical Centres.

SUSTAINABILITY

Solutions for forward thinking and economical metal cutting – e.g. Regrinding and Recycling



FAST AND EFFICIENT AVAILABILITY

The new portfolio: simple ways to new tools and service

With the most modern logistics center in Europe we ensure the shortest delivery times, with our Tool Supply 24/7 service for digitally simplified orders. The Tool-O-Mat, which can hold up to 840 different products, ensures that tools are ready when they are needed as a removal system on site. Payment is only made when withdrawn.

LOGISTICS AT THE HIGHEST LEVEL

A logistic center that can meet all requirements, 99 % delivery capacity with next day delivery, no minimum order quantity, custom logistic solutions for major customers.



E-COMMERCE SOLUTIONS

Benefit from more product data and machining knowledge online, accelerate and optimize your tool procurement processes or create a direct connection to your ERP system.

3 WEEKS ON SPECIAL TOOLS

No time to lose? We deliver special tools within 3 weeks.

TOOL SUPPLY 24/7

We take over the complete procurement and storage process!

THE CATALOGUE FOR MACHINING

Extensive material from the main catalogue to industry catalogues and special promotions.

DEEP
INDUSTRY KNOWLEDGE

Equipped for every industry sector: our experts deliver comprehensive solutions!

Proven experts from numerous industrial sectors work in the Team Cutting Tools. Whether automotive and engines, aerospace, energy technology or heavy machining. We know from many years of experience all the challenges that every branch of industry brings – and we deliver the tailor-made solutions.

PROJECT ENGINEERING

Smart solution concepts for efficient machining processes

EXPERT KNOWLEDGE

More than 100 years engineering and manufacturing high performance cutting tools and developing the most optimal machining operations and processes for our customers.



INDUSTRY SPECIFIC TOOLS

Specific tools designed under the most demanding challenges of every industrial sector to increase the competitiveness of our customers.

INDIVIDUAL SPECIAL TOOLS

In partnership with the customer



INDEPENDENT
QUALITY GUARANTEE

The CERATIZIT Group: everything from a single source, from the raw material to the finished tool

As part of the CERATIZIT group, we have exclusive raw material sourcing, enormous resources and master the entire process chain: From the mine to powder production and shaping to sintering, finalization and surface finishing to recycling, we ensure our customers the highest quality.

Also with the innovative strength (e.g. in the development of new powder types), the sales network and the consulting expertise, you benefit from our large network and our character as a „one-stop shop“ for cutting tools.





The catalogue for cutting tools

It has already proven itself time and time again in your production workshops – our division of catalogues into clamping technology (tool and workpiece clamping) and cutting tools. For this reason, we are offering you the option to select the clamping device and tool at the same time without searching through the entire catalogue.



The catalogue for clamping technology

This catalogue provides you with an overview of our comprehensive clamping technology range. We have put together innovations as well as optimised and expanded workpiece and tool clamping options for you, with the aim of well and truly overcoming all your challenges with the appropriate clamping technology.

Would you like to see which clamping device that may be at a glance? That's why our current catalogue also features the Toolfinder, our "offline search engine": expanded, optimised and practical in design, right at the start of every tool chapter you can see exciting paths to increased efficiency in machining.



Solid drilling and bore machining

1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

5 Spindle Tooling

Threading

6 Taps and thread formers

7 Circular and Thread Milling

8 Thread turning

Turning

9 Turning Tools

10 Multifunctional Tools – EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

Milling

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

Catalogue – Clamping technology

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples and article no. Index

New products for machining technicians

NEW ABS adapters



Work with flexibility and process-security with the modular ABS coupling system for rotating and stationary tools.

NEW Adapter with ABS connection



The expansion of the tried and tested ABS system complements the existing range and continues to meet the high demands for precision.

NEW ER precision collet chuck – PCC



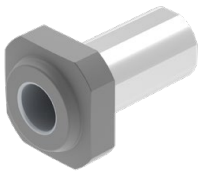
With our new PCC (Precision Collet Chuck), we offer an ER precision collet chuck that is almost equal to our Centro-P in terms of precision and quality. Compatibility with our existing range of collets and use of the same roll key complements the new PCC standard line.

NEW ER precision collet chucks – HDC



- **Secure** – the form fit using a wedge collet gives an excellent holding torque on the shaft. So the HDC doesn't just offer maximum security against twisting but also 100 % security against micro-creeping and pull-out.
- **Rigid** – stable outer contour for high stability and vibration dampening
- **Powerful** – ball-bearing clamping nut for high holding torque protects against twisting of the collet (up to 700 Nm holding torque). Thanks to the ball-bearing nut, smooth clamping is assured, with little effort.
- **Dampening** – multi-part clamping nut for additional dampening of the system
- **HDC** = Heavy Duty Chuck, specially designed for heavy duty machining

NEW Hydraulic expansion chucks and hydraulic expansion chucks with Straight shank – VDI



CERATIZIT is extending its portfolio of clamping devices with a hydraulic chuck which brings the benefits of hydro expansion technology to turning/milling centres.
It ensures highly accurate clamping of boring bars with a h7 shank tolerance and a repeatability of 3 µm. Tools are changed in a matter of seconds and this can be performed directly in the machine without auxiliary equipment.



Solid drilling and bore machining

1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

5 Spindle Tooling

Threading

6 Taps and thread formers

7 Circular and Thread Milling

8 Thread turning

Turning

9 Turning Tools

10 Multifunctional Tools – EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

Milling

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

Catalogue – Clamping technology

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples and article no. Index

Table of contents

Symbol explanation 2

Toolfinder

Machine interface 3
Rotating toolholders 4+5
Adapters, stationary
– HSK-T and PSC tool holders 6+7
– VDI adapters for star turrets 8
– VDI adapters for disc turrets 9
Accessories 10

Product programme

Adapters 12–281

Product programme

Accessories 229–290

Technical Information

Driven Tools 292+293
Quick-Change 294+295
Technical data – DIN ISO 7388-1 / DIN ISO 7388-2 / PSC 296
Technical data – HSK-A / HSK-E 297
Technical Information for Polygon Shank Adapters 298
High Pressure Milling Chuck 299
Transmittable torques and static clamping torques 300
Technical information – ABS 301

WNT \ Performance

Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

WNT \ Standard

Quality tools for standard applications.

The quality tools of the **WNT Standard** product line are high quality, powerful and reliable and enjoy the highest trust of our customers worldwide. Tools from this product line are the first choice for many standard applications and guarantee optimal results.

Symbol explanation

Coolant supply version


without coolant supply (Form A)


Coolant supply central
Steep taper Form AD


Coolant supply either via the flange, or central (Form AD/B)


with eroded cooling ducts


Coolant supply centrally or via the collar
with eroded cooling channels


Adapter with two additional coolant holes


Coolant supply centrally or via the collar
also additional coolant holes


Central coolant supply or via a coolant nozzle

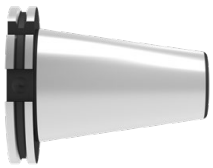
TG
specially matched adapter for ThermoGrip® shrinking process

ER-B
2 µm

Collet description
▲ Type version
▲ Radial run-out accuracy

Toolfinder – Machine interface

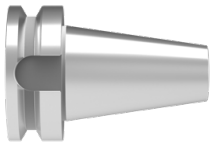
ISO 7388-1 – SK steep taper holders



- SK 30
- SK 40
- SK 50

Toolfinder – Adapters, rotating 4+5
Product programme 12–58

ISO 7388-2 – MAS-BT taper shank

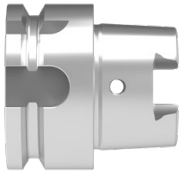


MAS-BT / MAS-BT-FC with face contact

- BT 30
- BT 40
- BT 50
- BT-FC 30
- BT-FC 40
- BT-FC 50

Toolfinder – Adapters, rotating 4+5
MAS-BT product range 59–102
MAS-BT-FC product range 103–112

HSK hollow taper adapters with face contact



ISO 12164 – HSK-A / HSK-E

- HSK-A 32
- HSK-A 40
- HSK-A 50
- HSK-A 63
- HSK-A 100
- HSK-E 25
- HSK-E 32
- HSK-E 40
- HSK-E 50

Toolfinder – Adapters, rotating 4+5
HSK-A product range 113–158
HSK-E product range 159–163

ISO 12164-3 – HSK-T

- HSK-T 63
- HSK-T 100

Toolfinder – Adapters, stationary 6+7
Product programme 199–201

ISO 26623-1 – PSC polygon hollow adapters with face contact



PSC, rotating

- PSC 32
- PSC 40
- PSC 50
- PSC 63
- PSC 80

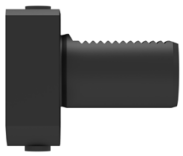
Toolfinder – Adapters, rotating 4+5
Product programme 164–182

PSC, stationary

- PSC 32
- PSC 40
- PSC 50
- PSC 63
- PSC 80
- PSC 80X

Toolfinder – Adapters, stationary 6+7
Product programme 202–208

ISO 10889 – VDI tool holders with cylindrical shank



- VDI 16
- VDI 20
- VDI 25
- VDI 30
- VDI 40
- VDI 50

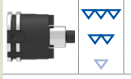
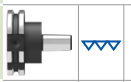
Toolfinder – Adapters, stationary 8+9
Product programme 209–228
Driven Tools 292+293

Toolfinder – Adapters, rotating

Holder Type		ISO 7388-1 SK	ISO 7388-1 SK-FC	ISO 7388-2 MAS-BT	ISO 7388-2 MAS-BT-FC	ISO 12164 HSK-A	ISO 12164 HSK-E	ISO 26623-1 PSC	ABS	Morse taper	Cylindrical shank
Accuracy											
Maximum											
Centro-P											
▲ ER Precision Collet chuck		12–14		59–61	103	113–115	159+160	164			240
▲ OZ precision Collet chuck		15		62		116					
HDC											
▲ ER Precision Collet chuck		16		63	104	117					
High Pressure Milling Chuck		17–19		64–65	106	118+119		165			
Hydraulic chuck		21		66–69	107	120–122			183		236+237
Heat Shrink Adapter		22–27		70–74	105	123+129	161	166+167	184		235
Micro-Precision Collet Chuck						142	162				238
High											
Cylindrical shank adapter											
▲ Weldon		28–30		75+76	108	130–134		168	185		239
▲ Whistle Notch		31+32		77+78		135		169	186+187		
Indexable insert drill adapter		33		79		136		170			
Collet Chuck											
▲ Precision Collet chuck – PCC		34		80		137					
▲ ER Collet chuck		35		81	109	138–140		171+172	188		241+242
▲ OZ Collet Chuck		36		82							
Short drill chuck		37		83		141		173	189	231	231

Main Application
Extended application
Finishing
Roughing - Finishing
Roughing

Toolfinder – Adapters, rotating

Holder Type		ISO 7388-1 SK	ISO 7388-1 SK-FC	ISO 7388-2 MAS-BT	ISO 7388-2 MAS-BT-FC	ISO 12164 HSK-A	ISO 12164 HSK-E	ISO 26623-1 PSC	ABS	Morse taper	Cylindrical shank
Accuracy											
High											
Quick change tapping chuck											
▲ With minimum length compensation		38–39		84+85		143+144		174	190		232
▲ with length compensation		40		86		145		175	189	233	233
▲ Without length compensation		40		86		145					
ABS adapters		41+42	43	87–89	90	146+147		176	193–197		
Medium											
Adapter for milling cutters with threaded end		44+45		91		148+149		177		247	243–246
Face mill adapter											
▲ Combination shell mill adapter		46		92		150		178+179	192		
▲ Shell mill adapter		47+48		93+94	110	151+153			191		
▲ Large diameter facemill adapter		49		95							
Drill chuck adapter		50		96						230	
Milling adapter sleeve for MK shanks with thread		51		97							
Taper adapter for Morse taper		52		98		154		180		230	
Adapter											
▲ SK		53				54		55			
▲ MAS-BT		99		99		100		101			
▲ HSK-A						155		156			
▲ PSC								206+207			
Blank		56		102		157		181	198		
Test bar		56		102		158		182			
Accessories											
Pull stud		57+58		111+112							
Coolant pipe/key						163		182			

Main Application
Extended application

Finishing

Roughing - Finishing

Roughing

16

Toolfinder – Stationary adapters – HSK-T and PSC tool holders

Toolholders for negative turning inserts

	Type Machining	Illustration
CN..	DCLN 95° Internal + External	
	DCMN 95° External	
	DCMN+ DDMN External	

All tool holders for negative rotary indexable inserts CN..
can be found in → **Section 9, Turning Tools**

DN..	DCMN+ DDMN External	
	DDUN 93° Internal + External	
	DDJN 93° Internal + External	
	DDHN 107,5° Internal + External	
	DDMN 48° External	

All tool holders for negative rotary indexable inserts DN..
can be found in → **Section 9, Turning Tools**

SN..	DSDN 45° External	
VN..	DVMN 50° External	
WN..	DWLN 95° Internal + External	

All tool holders for negative rotary indexable inserts SN.., VN.. and
WN.. can be found in → **Section 9, Turning Tools**

Toolholders for positive turning inserts

	Type Machining	Illustration
CC..	SCLC 95° Internal + External	
	SCMC 50° External	

All tool holders for positive rotary indexable inserts CC..
can be found in → **Section 9, Turning Tools**

DC..	SDJC 93° Internal + External	
	SDNC 62,5° Internal + External	
	SDMC 48° External	

All tool holders for positive rotary indexable inserts DC..
can be found in → **Section 9, Turning Tools**

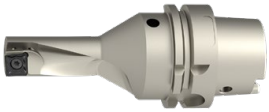
RC..	PRDC 0° External	
	PRSC Internal + External	

All tool holders for positive rotary indexable inserts RC..
can be found in → **Section 9, Turning Tools**

VC..	SVUC 93° Internal + External	
	SVJC 93° Internal + External	
	SVHC 107,5° Internal + External	
	SVMC 50° External	

All tool holders for positive rotary indexable inserts VC..
can be found in → **Section 9, Turning Tools**

You can find more information on the multifunction tool EcoCut in
→ **Section 10, Multifunctional Tools – EcoCut and FreeTurn**


2,25xD

Toolfinder – Stationary adapters – HSK-T and PSC tool holders

Holders for grooving and threading inserts

Type	Illustration
0°	
90°	

All tool holders for grooving and threading inserts can be found in
→ **Section 11, Grooving tools**

Toolholders for threading inserts

Type	Illustration
Internal thread	
External thread	

All tool holders for threading inserts can be found in
→ **Section 8, Thread turning tools**

Boring bars for negative inserts

	Type	Illustration
 CN..	DCLN 95°	
 DN..	DDUN 93°	
 WN..	DWLN 95°	

All boring bars for negative indexable inserts can be found in
→ **Section 9, Indexable insert turning tools**

Boring bars for positive inserts

	Type	Illustration
 CC..	SCLC 95°	
 DC..	SDUC 93°	
 VC..	SVUC 93°	
	SVQC 107,5°	

All boring bars for positive indexable inserts can be found in
→ **Section 9, Indexable insert turning tools**

Basic holder




Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Square shank holder 0°		200	202
Square shank holder 45°		200	203
Square shank holder 90°		201	202
Square shank holder 2 face 0°			203
Square shank holder 3 face 0°		200	203
Boring bar holder		201	204

Parting blade holders

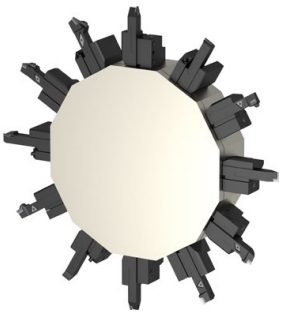
Type	Illustration	HSK-T ISO 12164	PSC ISO 26623
Parting Blade Holder GX / LX / FX / SX		199	
Radial Grooving Holders, right / left			202

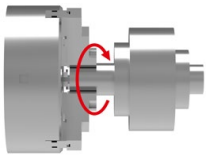
Accessories

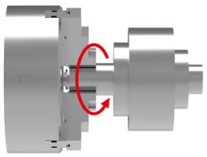
Protection plug		208
Hollow nose keys		208

16

Toolfinder – Stationary adapters – VDI adapters for star turrets







Toolholders above

Upper turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	**Square Shank Adapters**	B2/B3/B6/B7/C1/C2/D1/D2	209–212	B2/B3/B6/B7/C3/C4/D1/D2	209–212
	**Part Off Holder**	double	217+218	double – overhead	217+218
	**Adapter VDI to VDI**	Left-hand	224	Left-hand	224
	**Boring bar holder**	Left-hand	223+224	Left-hand	223+224

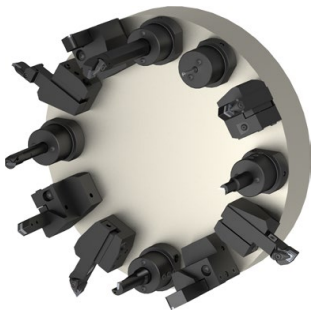
Lower turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	**Square Shank Adapters**	B2/B3/B6/B7/C3/C4/D1/D2	209–212	B2/B3/B6/B7/C1/C2/D1/D2	209–212
	**Part Off Holder**	double – overhead	217+218	double	217+218
	**Adapter VDI to VDI**	Right-hand	224	Right-hand	224
	**Boring bar holder**	Right-hand	223+224	Right-hand	223+224

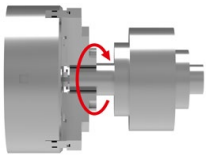
Toolholders below

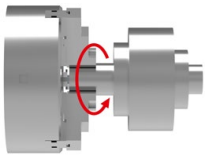
Upper turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	**Square Shank Adapters**	B2/B3/B6/B7/C3/C4/D1/D2	209–212	B2/B3/B6/B7/C1/C2/D1/D2	209–212
	**Part Off Holder**	double	217+218	double – overhead	217+218
	**Adapter VDI to VDI**	Right-hand	224	Right-hand	224
	**Boring bar holder**	Right-hand	223+224	Right-hand	223+224

Lower turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	**Square Shank Adapters**	B2/B3/B6/B7/C1/C2/D1/D2	209–212	B2/B3/B6/B7/C3/C4/D1/D2	209–212
	**Part Off Holder**	double – overhead	217+218	double	217+218
	**Adapter VDI to VDI**	Left-hand	224	Left-hand	224
	**Boring bar holder**	Left-hand	223+224	Left-hand	223+224

Toolfinder – Stationary adapters – VDI adapters for disc turrets







Upper turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	**Square Shank Adapters**	B1/B5/C1/C2/D1	209–212	B3/B7/C3/C4/D2	209–212
	**Cylindrical Shank Adapters**	E/E1/E2/E3/E4	212–215	E/E1/E2/E3/E4	212–215
	**Taper Adapters**	F1	216	F1	216
	**Part Off Holder**	Right-hand	217+218	Overhead right	217+218
	**Short drill chuck**	NC 2010	219	NC 2010	219
	**Tapping Chucks**	GSF/GML	220	GSF/GML	220
	**Hydraulic chuck**		221		221

Lower turret		Spindle rotation clockwise		Spindle rotation counter clockwise	
	**Square Shank Adapters**	B4/B8/C3/C4/D2	209–212	B2/B6/C1/C2/D1	209–212
	**Cylindrical Shank Adapters**	E/E1/E2/E3/E4	212–215	E/E1/E2/E3/E4	212–215
	**Taper Adapters**	F1	216	F1	216
	**Part Off Holder**	Overhead left	217+218	Left-hand	217+218
	**Short drill chuck**	NC 2010	219	NC 2010	219
	**Tapping Chucks**	GSF/GML	220	GSF/GML	220
	**Hydraulic chuck**		221		221

Accessories

 **Bar stop** 219

 **Test arbors** 221

 **Tool holders** 222

 **Bar pullers** 227

 **Gripper accessories** 228

 **Protection plug** 228

16

Toolfinder – accessories

Type		Page No.
Drill chuck with internal taper		229
Tap clamping sleeve for Weldon adapters		234
Extension for Shell mill arbors		252
Milling adapter ring		253
Accessories for VDI		254
Accessories for driven tools		255
Lock nuts		276
Accessories for Centro-P		274
Collets		256–268
Sealing discs		269+270
Roll key		275
Quick change applications		277–281
Reduction sleeve and reducing bushings		271+272
Cleaning propeller		291
TORX® screwdrivers, TORX® interchangeable blades, TORX® bit holders and adapters		283–287
Assembly device for SK, HSK and PSC adapters		273
MultiChange - Holder		249–251
3D tester and zero setting device		288+289
MultiChange key		282
Cool-jet		290
Taper wiper		273

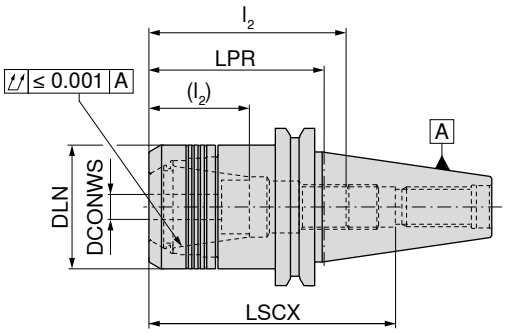

CERATIZIT GROUP
83 402 32099
Ø 20 x 19, 5 mm
4751352-023

ER Precision Collet chuck – Centro-P

- for standard or sealed nuts
- maximum size collet to ISO tolerance field H10
- for clamping a roll key is required
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop







AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	84 424 ... EUR Y8		84 414 ... EUR Y8	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	124,20	**016**		
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	93,22	**102**		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	103,60	**103**		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			141,90	**510**
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			160,50	**910**
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			112,90	**816**
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	93,22	**162**		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	103,60	**163**		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			152,20	**516**
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			170,90	**916**
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	98,40	**201**		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	93,22	**202**		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	103,60	**203**		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			152,20	**620**
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			170,90	**920**
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	124,30	**261** [1)]		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	206,10	**167**		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			170,90	**320**
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			206,10	**520**
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			259,20	**52100**
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			295,20	**720**
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			181,30	**26600**
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			219,40	**26700**
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			269,70	**26800**
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			309,60	**26900**

1) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 3 mm longer

Spare parts
ER precision collet chuck – Centro-P

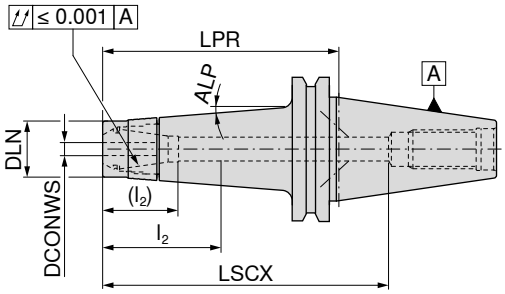
	Lock nut IK		Lock nut			Stop screw 2			Stop screw 1	
	84 950 ...		84 950 ...			83 950 ...			83 950 ...	
Spare parts for collet	EUR Y8		EUR Y8			EUR Y8			EUR Y8	
426E (ER16)	36,25	011	28,99	001	M11x1 - SW6	14,50	341	M11x1 - SW6	10,23	337
430E (ER25)	39,37	013	32,09	003	M18x1,5 - SW6	16,38	432	M18x1,5 - SW6	11,76	431
470E (ER32)	41,44	015	34,14	005	M22x1,5 - SW6	16,38	402	M22x1,5 - SW6	11,76	401
472E (ER40)	55,93	017	46,61	007				M28x1,5 - SW6	10,66	400

ER Precision tapered collet chuck – Centro-P

- for special tapered nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop







AD/B
G 2,5 n_{max} 25000

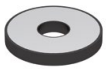
Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	84 417 ... EUR Y8	
SK 40	1 - 10	100	24	140	28 - 48 (20 - 35)	426E (ER16)	4,5°	118,00	**410**
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)		151,10	**61000**
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2,5°	157,40	**910**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

	Tapered lock nut IK		Tapered lock nut			Stop screw 2			Stop screw 1	
	84 950 ...		84 950 ...			83 950 ...			83 950 ...	
Spare parts for collet	EUR Y8		EUR Y8			EUR Y8			EUR Y8	
426E (ER16)	42,47	033	34,14	031	M11x1 - SW6	14,50	341	M11x1 - SW6	10,23	337

Accessories



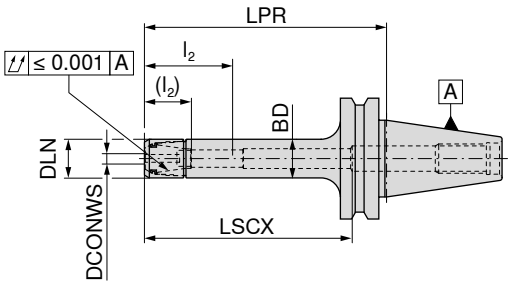


ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256–263, 266	→ 269	→ 275	→ 275	→ 57–58	→ 273

ER Precision collet chuck, slim version – Centro-P

- for Mini Clamping Nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	**84 412 ...** EUR Y8	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	121,20	**207**
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	121,20	**407**
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	160,60	**607**
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	179,20	**907**
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	121,20	**210**
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	121,20	**310**
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	160,60	**410**
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	179,20	**510**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer


Mini lock nut IK


Mini lock nut

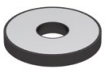

Stop screw 2


Stop screw 1

Spare parts for collet	**84 950 ...** EUR Y8		**84 950 ...** EUR Y8		**83 950 ...**	EUR Y8		**83 950 ...**	EUR Y8	
4008E (ER11)			34,14	**041**	M8x1 - SW4	13,94	**340**	M8x1 - SW4	10,23	**336**
426E (ER16)	42,46	**035**	34,14	**034**	M11x1 - SW6	14,50	**341**	M11x1 - SW6	10,23	**337**

Accessories


ER collet
→ 256–263, 266


Sealing ring
→ 269


Device
→ 274


Roll key
→ 275


Roll key device
→ 275

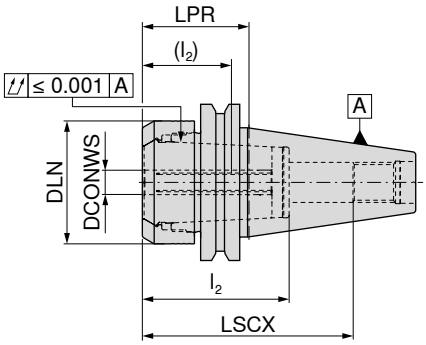

Pull studs
→ 57–58


Others
→ 273

OZ Precision Collet Chuck – Centro-P

- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	84 406 ... EUR Y8	
SK 40	2 - 25	43	50	80	53 - 65 (37 - 48)	462E	114,00	**025**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

	 Lock nut IK		 Lock nut		 Stop screw 2		 Stop screw 1	
	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
Spare parts for collet	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
462E	43,49	**020**	36,25	**009**	M22x1,5 - SW6	16,38 **402**	M22x1,5 - SW6	11,76 **401**

Accessories







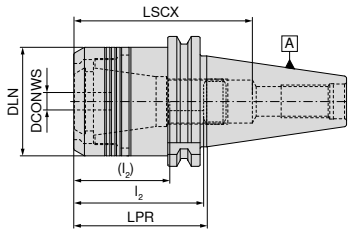

OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 57–58	→ 273

ER precision collet chuck – HDC

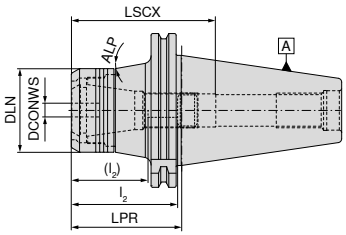
- HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- For heavy duty lock nut
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Base body **including** lock nut, **without** backstop screw



cylindrical



Conical



NEW



AD
G 6,3 n_{max} 18000
cylindrical

NEW



AD
G 6,3 n_{max} 18000
conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8		84 400 ... EUR Y8	
SK 40	2 - 20	65	53	85	41 - 65 (27 - 47)		470E (ER32)	167,90	**12079**		
SK 50	2 - 20	70	53	91	41 - 71 (27 - 53)	10	470E (ER32)			269,90	**12078**
SK 50	2 - 20	100	53	121	41 - 74 (27 - 56)	10	470E (ER32)			315,20	**22078**

LSCX = Clamping depth without backstop screw
l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2



Lock nut



Stop screw 2



Stop screw 1

Spare parts DCONWS	84 950 ... EUR Y8			83 950 ... EUR Y8			83 950 ... EUR Y8	
2 - 20	54,59	**30100**	M22x1,5 - SW6	16,38	**402**	M22x1,5 - SW6	11,76	**401**

Accessories



ER collet
→ 256–266



Roll key
→ 275



Roll key device
→ 275



Pull studs
→ 57–58



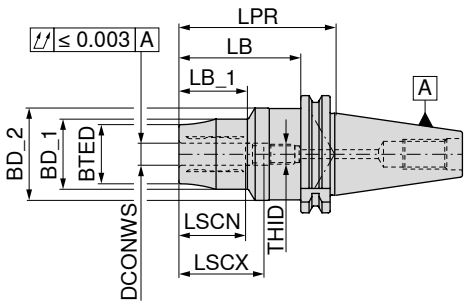
Others
→ 273

High pressure chuck, short version

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID	83 422 ... EUR Y8	
short	SK 40	16	90	36	42	50	42	49	39	71	M12x1	427,70	116
	SK 40	20	95	42	48	50	45	51	41	76	M16x1	381,20	120
	SK 40	25	110	51	57	50	60	57	47	91	M16x1	427,70	125
	SK 40	32	120	57	63	50	65	61	51	101	M16x1	427,70	132

→ Min. clamping depth, Page 300


Clamping key – T


Pressure screw


Stop screw IK

Spare parts DCONWS		80 397 ... EUR Y7		83 950 ... EUR Y7		83 950 ... EUR Y7	
16	SW5	4,37	050	TR10x1,5x14	14,15	430	M12x1x18	7,37	446
20	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x18,5	8,12	448
25	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x22	12,85	449
32	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x25	15,99	450

Accessories


Reduction sleeve
→ 271


Pull studs
→ 57–58

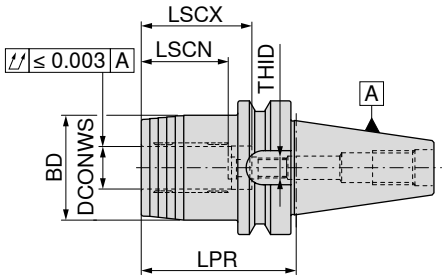

Others
→ 273

High pressure chuck, short and stable version

- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID	83 427 ... EUR Y8	
SK 40	20	64,5	49	51	40	M16x1x13,5	248,40	**120**

→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.		83 950 ... EUR Y7			80 397 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
83 427 120	M5x5 - SW2,5	1,91	**157**	SW5	4,37	**050**	M10x1x14	4,41	**429**	M16x1x13,5 - SW8	9,62	**424**

Accessories



Reduction sleeve
→ 271



Pull studs
→ 57–58



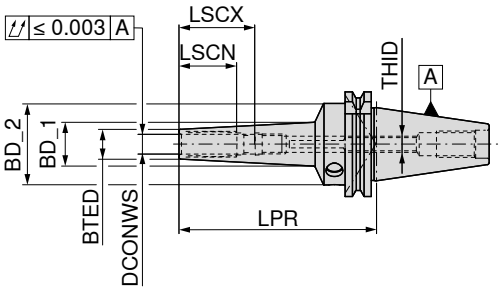
Others
→ 273

High pressure chuck, slim 3°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw, pressure screw and screw plug







AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	83 421 ... EUR Y8	
long	SK 40	3	120	9	17,40	49,5	28	12	M3	429,90	103
	SK 40	4	120	10	18,40	49,5	28	16	M3	429,90	104
	SK 40	5	120	11	19,40	49,5	28	20	M3	429,90	105
	SK 40	6	120	12	20,40	49,5	37	27	M5	366,10	106
	SK 40	8	120	14	22,40	49,5	37	27	M6	366,10	108
	SK 40	10	120	16	24,50	49,5	41	31	M8x1	366,10	110
	SK 40	12	120	18	26,60	49,5	46	36	M10x1	366,10	112
	SK 40	16	120	24	32,30	49,5	49	39	M12x1	592,90	116
	SK 40	20	120	28	36,40	49,5	51	41	M16x1	592,90	120
	SK 40	6	160	16	34,37	49,5	37	27	M5	528,20	206
	SK 40	8	160	18	35,45	49,5	37	27	M6	528,20	208
	SK 40	10	160	20	37,10	49,5	41	31	M8x1	528,20	210
	SK 40	12	160	22	38,72	49,5	46	36	M10x1	528,20	212
	SK 40	6	200	16	38,72	49,5	37	27	M5	625,30	306
	SK 40	8	200	18	39,74	49,5	37	27	M6	625,30	308
	SK 40	10	200	20	41,40	49,5	41	31	M8x1	625,30	310
	SK 40	12	200	22	43,02	49,5	46	36	M10x1	625,30	312

→ Min. clamping depth, Page 300


Cylindrical screw


Clamping key – T


Pressure screw


Stop screw IK

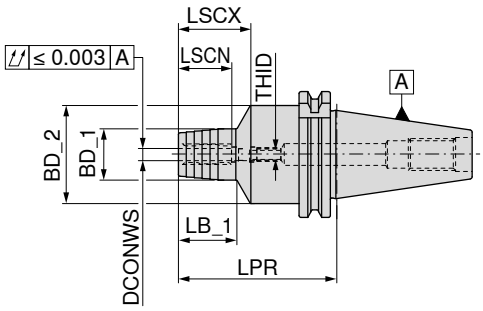
Spare parts for Article no.	83 950 ...	EUR Y7		80 397 ...	EUR Y7		83 950 ...	EUR Y7		83 950 ...	EUR Y7	
83 421 103	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 421 104	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 421 105	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 421 106	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 421 108	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 421 110	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 421 112	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421
83 421 116	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M12x1x13,5 - SW5	8,35	422
83 421 120	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x13,5 - SW8	9,62	424
83 421 206	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 421 208	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 421 210	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 421 212	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 421 306	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 421 308	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 421 310	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 421 312	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420

Hydraulic chuck, short and slim version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw





AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	83 402 ... EUR Y8	
short and slim	SK 40	6	80,5	26	49,5	37	27	29,5	M5	379,10	106
	SK 40	8	80,5	28	49,5	37	27	30,0	M6	379,10	108
	SK 40	10	80,5	30	49,5	41	31	35,0	M8x1	379,10	110
	SK 40	12	80,5	32	49,5	46	36	40,0	M10x1	329,40	112
	SK 40	16	80,5	38	49,5	49	39	45,0	M12x1	379,10	116
	SK 40	20	80,5	42	49,5	51	41	47,0	M16x1	329,40	120
	SK 40	25	80,5	55	63,0	57	47	28,0	M16x1	379,10	125
	SK 40	32	80,5	63	70,0	61	51	25,5	M16x1	379,10	132
	SK 50	6	80,5	26	49,5	37	27	29,5	M5	530,20	306
	SK 50	8	80,5	28	49,5	37	27	30,0	M6	530,20	308
	SK 50	10	80,5	30	49,5	41	31	35,0	M8x1	530,20	310
	SK 50	12	80,5	32	49,5	46	36	40,0	M10x1	480,70	312
	SK 50	16	80,5	38	49,5	49	39	45,0	M12x1	530,20	316
	SK 50	20	80,5	42	49,5	51	41	42,0	M16x1	480,70	320
	SK 50	25	100,0	55	63,0	57	47	48,0	M16x1	530,20	325
	SK 50	32	100,0	63	70,0	61	51	51,0	M16x1	530,20	332

→ Min. clamping depth, Page 300


Pressure screw


Stop screw IK


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7		83 950 ... EUR Y7	
6	M8x1x10	5,64	439				M5x12,5 - SW2,5	8,35	418
8	M8x1x10	5,64	439	M6x14 - SW2	8,35	417	M6x12,5 - SW3	8,35	419
10	M10x1x12	5,64	440				M8x1x13,5 - SW3	8,35	420
12	M10x1x12	5,64	440				M10x1x13,5 - SW5	8,35	421
16	M10x1x12	5,64	440				M12x1x13,5 - SW5	8,35	422
20 - 32	M10x1x12	5,64	440				M16x1x13,5 - SW8	9,62	424

Accessories


Reduction sleeve
→ 271

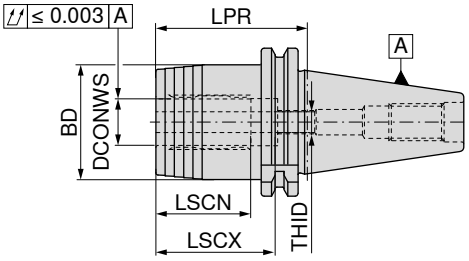

Pull studs
→ 57–58


Others
→ 273

Hydraulic chuck, short and stable version

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:
Base body with backstop screw and pressure screw







AD/B
G 2,5 n_{max} 25000

83 425 ...

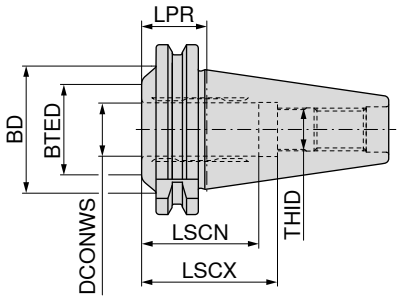
Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
SK 40	20	64,5	49,5	51	41	M16x1	211,70	**120**
SK 50	32	81,0	72,0	61	51	M16x1	265,70	**332**

→ Min. clamping depth, Page 300

Hydraulic chuck, extra short

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:
Base body with backstop screw and pressure screw







AD
G 2,5 n_{max} 25000

83 403 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
SK 40	20	24,5	34	48	51	41	M16x1	304,60	**120**

→ Min. clamping depth, Page 300


Pressure screw

83 950 ...

Spare parts DCONWS		EUR Y7	
20 - 32	M10x1x12	5,64	**440**


Stop screw IK

83 950 ...

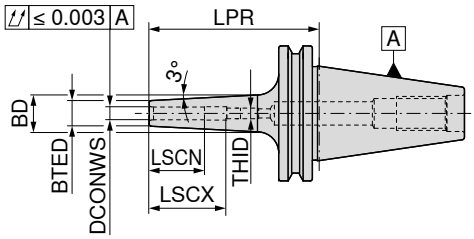
	EUR Y7	
M16x1x13,5 - SW8	9,62	**424**

16

Heat shrink adapter, slim 3°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD/B
G 2,5 n_{max} 25000

84 320 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	SK 40	3	80	9	14	28	12	M6	156,70	103
	SK 40	4	80	10	15	28	16	M6	152,30	104
	SK 40	5	80	11	16	30	20	M6	152,30	105
	SK 40	6	80	12	17	36	26	M5	132,80	106
	SK 40	8	80	14	19	36	26	M6	132,80	108
	SK 40	10	80	16	21	41	31	M8x1	132,80	110
	SK 40	12	80	18	23	47	37	M10x1	132,80	112
	SK 40	14	80	20	26	47	37	M10x1	132,80	114
	SK 40	16	80	22	28	50	40	M12x1	132,80	116
	SK 40	18	80	24	30	50	40	M12x1	132,80	118
	SK 40	20	80	26	32	52	42	M16x1	132,80	120
long	SK 40	3	120	9	16	12	12		176,00	203
	SK 40	4	120	10	17	16	16		170,70	204
	SK 40	5	120	11	18	20	20		170,70	205
	SK 40	6	120	12	22	36	26	M5	153,40	206
	SK 40	8	120	14	24	36	26	M6	153,40	208
	SK 40	10	120	16	26	41	31	M8x1	153,40	210
	SK 40	12	120	18	28	47	37	M10x1	153,40	212
	SK 40	14	120	20	30	47	37	M10x1	153,40	214
	SK 40	16	120	22	32	50	40	M12x1	153,40	216
	SK 40	18	120	24	34	50	40	M12x1	153,40	218
	SK 40	20	120	26	36	52	42	M16x1	153,40	220
extra-long	SK 40	3	160	9	19	12	12		198,70	303
	SK 40	4	160	10	20	16	16		194,40	304
	SK 40	5	160	11	21	20	20		194,40	305
	SK 40	6	160	12	24	36	26	M5	177,20	306
	SK 40	8	160	14	26	36	26	M6	177,20	308
	SK 40	10	160	16	28	41	31	M8x1	177,20	310
	SK 40	12	160	18	30	47	37	M10x1	177,20	312
	SK 40	14	160	20	32	47	37	M10x1	177,20	314
	SK 40	16	160	22	34	50	40	M12x1	177,20	316
	SK 40	18	160	24	36	50	40	M12x1	177,20	318
	SK 40	20	160	26	38	52	42	M16x1	177,20	320

→ Min. clamping depth, Page 300


Stop screw IK


Stop screw IK

83 950 ...

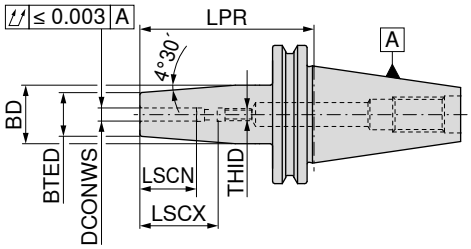
83 950 ...

Spare parts DCONWS		EUR Y7			EUR Y7	
3 - 5	M6x14 - SW2	8,35	417			
6				M5x12,5 - SW2,5	8,35	418
8				M6x12,5 - SW3	8,35	419
10				M8x1x13,5 - SW3	8,35	420
12 - 14				M10x1x13,5 - SW5	8,35	421
16 - 18				M12x1x13,5 - SW5	8,35	422
20				M16x1x13,5 - SW8	9,62	424

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

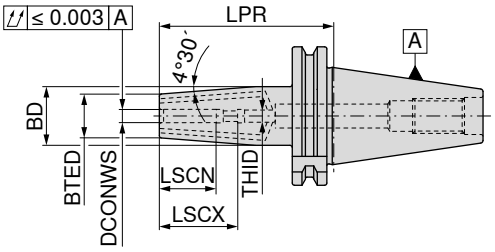
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 300 ... EUR Y8		84 300 ... EUR Y8	
short	SK 30	3	80	10	17	22	12	M6	154,40	003		
	SK 30	4	80	15	22	26	16	M6	150,10	004		
	SK 30	5	80	15	22	30	20	M6	150,10	005		
	SK 30	6	80	21	27	36	26	M5	130,70	006		
	SK 30	8	80	21	27	36	26	M6	130,70	008		
	SK 30	10	80	24	32	41	31	M8x1	130,70	010		
	SK 30	12	80	24	32	47	37	M10x1	130,70	012		
	SK 30	14	80	27	34	47	37	M10x1	130,70	014		
	SK 30	16	80	27	34	50	40	M12x1	130,70	016		
	SK 30	18	80	33	42	50	40	M12x1	130,70	018		
	SK 30	20	80	33	42	52	42	M16x1	130,70	020		
	SK 40	3	80	10	17	22	12	M6			114,40	103
	SK 40	4	80	15	22	26	16	M6			114,40	104
	SK 40	5	80	15	22	30	20	M6			114,40	105
	SK 40	6	80	21	27	36	26	M5			109,10	106
	SK 40	8	80	21	27	26	26	M6			109,10	108
	SK 40	10	80	24	32	41	31	M8x1			109,10	110
	SK 40	12	80	24	32	47	37	M10x1			109,10	112
	SK 40	14	80	27	34	47	37	M10x1			109,10	114
	SK 40	16	80	27	34	50	40	M12x1			109,10	116
	SK 40	18	80	33	42	50	40	M12x1			109,10	118
	SK 40	20	80	33	42	52	42	M16x1			109,10	120
	SK 40	25	100	44	53	58	48	M16x1			109,10	125
long	SK 40	3	120	10	20	12	12				137,20	203
	SK 40	4	120	15	22	16	16				137,20	204
	SK 40	5	120	15	22	20	20				137,20	205
	SK 40	6	120	21	27	36	26	M5			137,20	206
	SK 40	8	120	21	27	36	26	M6			137,20	208
	SK 40	10	120	24	32	41	31	M8x1			137,20	210
	SK 40	12	120	24	32	47	37	M10x1			137,20	212
	SK 40	14	120	27	34	47	37	M10x1			137,20	214
	SK 40	16	120	27	34	50	40	M12x1			137,20	216
	SK 40	18	120	33	42	50	40	M12x1			137,20	218
	SK 40	20	120	33	42	52	42	M16x1			137,20	220
	SK 40	25	120	44	53	58	48	M16x1			138,20	225
extra-long	SK 40	3	160	10	20	12	12				187,90	303
	SK 40	4	160	15	22	16	16				183,60	304
	SK 40	5	160	15	22	20	20				183,60	305
	SK 40	6	160	21	27	36	26	M5			164,20	306
	SK 40	8	160	21	27	36	26	M6			164,20	308
	SK 40	10	160	24	32	41	31	M8x1			164,20	310
	SK 40	12	160	24	32	47	37	M10x1			164,20	312
	SK 40	14	160	27	34	47	37	M10x1			164,20	314
	SK 40	16	160	27	34	50	40	M12x1			164,20	316
	SK 40	18	160	33	42	50	40	M12x1			164,20	318
	SK 40	20	160	33	42	52	42	M16x1			164,20	320
	SK 40	25	160	44	53	58	48	M16x1			164,20	325

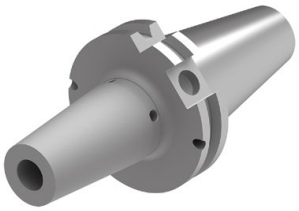
→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD/B - 2KMB
G 2,5 n_{max} 25000

84 317 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	SK 40	3	80	10	17	28	12	M6	167,50	**103**
	SK 40	4	80	15	22	28	16	M6	162,00	**104**
	SK 40	5	80	15	22	30	20	M6	162,00	**105**
	SK 40	6	80	21	27	36	26	M5	142,60	**106**
	SK 40	8	80	21	27	36	26	M6	142,60	**108**
	SK 40	10	80	24	32	41	31	M8x1	142,60	**110**
	SK 40	12	80	24	32	47	37	M10x1	142,60	**112**
	SK 40	14	80	27	34	47	37	M10x1	142,60	**114**
	SK 40	16	80	27	34	50	40	M12x1	142,60	**116**
	SK 40	18	80	33	42	50	40	M12x1	142,60	**118**
	SK 40	20	80	33	42	52	42	M16x1	142,60	**120**
	SK 40	25	100	44	53	58	48	M16x1	142,60	**125**
	SK 40	32	100	44	53	62	52	M16x1	142,60	**132**

→ Min. clamping depth, Page 300


Stop screw IK


Stop screw IK


Sealing screw

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
3 - 5	M6x14 - SW2	8,35	**417**				M2x6	0,49	**512**
6				M5x12,5 - SW2,5	8,35	**418**	M2x6	0,49	**512**
8				M6x12,5 - SW3	8,35	**419**	M2x6	0,49	**512**
10				M8x1x13,5 - SW3	8,35	**420**	M2x6	0,49	**512**
12 - 14				M10x1x13,5 - SW5	8,35	**421**	M2x6	0,49	**512**
16 - 18				M12x1x13,5 - SW5	8,35	**422**	M2x6	0,49	**512**
20 - 25				M16x1x13,5 - SW8	9,62	**424**	M2x6	0,49	**512**
32	M16x1 - SW5	4,95	**511**				M2x6	0,49	**512**

Accessories


Shrink fit extension
→ 235

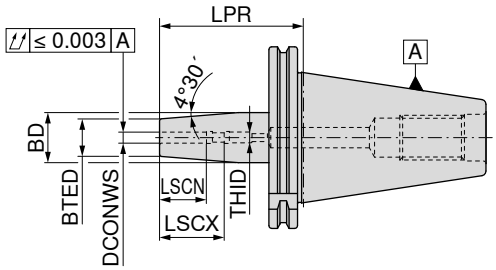

Pull studs
→ 57–58


Others
→ 273

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD/B
G 2,5 n_{max} 25000

84 301 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	SK 50	6	80	21	27	36	26	M5	184,80	106
	SK 50	8	80	21	27	36	26	M6	184,80	108
	SK 50	10	80	24	32	41	31	M8x1	184,80	110
	SK 50	12	80	24	32	47	37	M10x1	184,80	112
	SK 50	14	80	27	34	47	37	M10x1	184,80	114
	SK 50	16	80	27	34	50	40	M12x1	184,80	116
	SK 50	18	80	33	42	50	40	M12x1	184,80	118
	SK 50	20	80	33	42	52	42	M16x1	184,80	120
	SK 50	25	100	44	53	58	48	M16x1	184,80	125
	SK 50	32	100	44	53	62	52	M16x1	184,80	132
long	SK 50	6	120	21	27	36	26	M5	202,00	206
	SK 50	8	120	21	27	36	26	M6	202,00	208
	SK 50	10	120	24	32	41	31	M8x1	202,00	210
	SK 50	12	120	24	32	47	37	M10x1	202,00	212
	SK 50	14	120	27	34	47	37	M10x1	202,00	214
	SK 50	16	120	27	34	50	40	M12x1	202,00	216
	SK 50	18	120	33	42	50	40	M12x1	202,00	218
	SK 50	20	120	33	42	52	42	M16x1	202,00	220
	SK 50	25	120	44	53	58	48	M16x1	202,00	225
	SK 50	32	120	44	53	62	52	M16x1	202,00	232
extra-long	SK 50	6	160	21	27	36	26	M5	225,80	306
	SK 50	8	160	21	27	36	26	M6	225,80	308
	SK 50	10	160	24	32	41	31	M8x1	225,80	310
	SK 50	12	160	24	32	47	37	M10x1	225,80	312
	SK 50	14	160	27	34	47	37	M10x1	225,80	314
	SK 50	16	160	27	34	50	40	M12x1	225,80	316
	SK 50	18	160	33	42	50	40	M12x1	225,80	318
	SK 50	20	160	33	42	52	42	M16x1	225,80	320
	SK 50	25	160	44	53	58	48	M16x1	225,80	325
	SK 50	32	160	44	53	62	52	M16x1	225,80	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

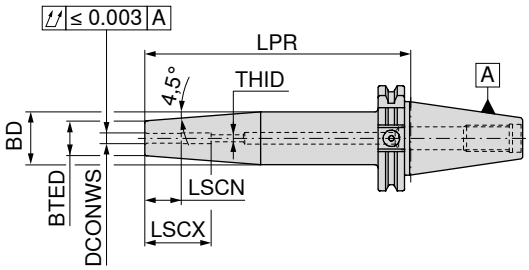
Spare parts DCONWS		EUR Y7	
6	M5x12,5 - SW2,5	8,35	418
8	M6x12,5 - SW3	8,35	419
10	M8x1x13,5 - SW3	8,35	420
12 - 14	M10x1x13,5 - SW5	8,35	421
16 - 18	M12x1x13,5 - SW5	8,35	422
20 - 32	M16x1x13,5 - SW8	9,62	424

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:
Holder **without** backstop screw

TG







AD/B
G 2,5 n_{max} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	SK 40	3	70	12	17,0				102,20	10379
	SK 40	4	70	12	17,0				102,20	10479
	SK 40	5	70	12	17,0				102,20	10579
	SK 40	6	80	21	30,5	36	26	M5	97,63	10679
	SK 40	8	80	21	30,5	36	26	M6	97,63	10879
	SK 40	10	80	24	33,5	41	31	M8x1	97,63	11079
	SK 40	12	80	24	33,5	47	37	M10x1	97,63	11279
	SK 40	14	80	27	36,5	47	37	M10x1	97,63	11479
	SK 40	16	80	27	36,5	50	40	M12x1	97,63	11679
	SK 40	18	80	33	42,5	50	40	M12x1	97,63	11879
	SK 40	20	80	33	42,5	52	42	M16x1	97,63	12079
	SK 40	25	100	44	50,0	58	48	M16x1	97,63	12579
	SK 50	6	80	21	27,0	36	26	M5	144,80	10678
	SK 50	8	80	21	27,0	36	26	M6	144,80	10878
	SK 50	10	80	24	32,0	41	31	M8x1	144,80	11078
	SK 50	12	80	24	32,0	47	37	M10x1	144,80	11278
	SK 50	14	80	27	34,0	47	37	M10x1	144,80	11478
	SK 50	16	80	27	34,0	50	40	M12x1	144,80	11678
	SK 50	18	80	33	42,0	50	40	M12x1	144,80	11878
	SK 50	20	80	33	42,0	52	42	M12x1	144,80	12078
	SK 50	25	100	44	53,0	58	48	M16x1	144,80	12578
	SK 50	32	100	44	53,0	62	52	M16x1	144,80	13278
long	SK 40	3	120	12	17,0				123,20	20379
	SK 40	4	120	12	17,0				123,20	20479
	SK 40	5	120	12	17,0				123,20	20579
	SK 40	6	120	21	31,0	36	26	M5	123,20	20679
	SK 40	8	120	21	32,0	36	26	M6	123,20	20879
	SK 40	10	120	24	34,0	41	31	M8x1	123,20	21079
	SK 40	12	120	24	34,0	47	37	M10x1	123,20	21279
	SK 40	16	120	27	36,0	50	40	M12x1	123,20	21679
	SK 40	20	120	33	44,0	52	42	M16x1	123,20	22079
	SK 50	6	120	21	27,0	36	26	M5	159,00	20678
	SK 50	8	120	21	27,0	36	26	M6	159,00	20878
	SK 50	10	120	24	32,0	41	31	M8x1	159,00	21078
	SK 50	12	120	24	32,0	47	37	M10x1	159,00	21278
	SK 50	14	120	27	34,0	47	37	M10x1	159,00	21478
	SK 50	16	120	27	34,0	50	40	M12x1	159,00	21678
	SK 50	18	120	33	42,0	50	40	M12x1	159,00	21878
	SK 50	20	120	33	42,0	52	42	M16x1	159,00	22078
	SK 50	25	120	44	53,0	58	48	M16x1	159,00	22578
	SK 50	32	120	44	53,0	62	52	M16x1	159,00	23278

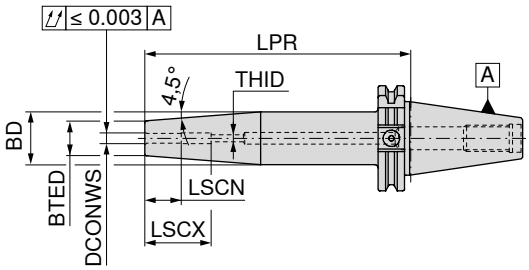
→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:
Holder **without** backstop screw

TG







AD/B
G 2,5 n_{max} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
extra-long	SK 40	6	160	21	31,0	36	26	M5	146,90	30679
	SK 40	8	160	21	32,0	36	26	M6	146,90	30879
	SK 40	10	160	24	34,0	41	31	M8x1	146,90	31079
	SK 40	12	160	24	34,0	47	37	M10x1	146,90	31279
	SK 40	14	160	27	36,0	47	37	M10x1	146,90	31479
	SK 40	16	160	27	36,0	50	40	M12x1	146,90	31679
	SK 40	18	160	33	44,0	50	40	M12x1	146,90	31879
	SK 40	20	160	33	44,0	52	42	M16x1	146,90	32079
	SK 40	25	160	44	50,0	58	48	M16x1	146,90	32579
	SK 50	6	160	21	27,0	36	26	M5	176,70	30678
	SK 50	8	160	21	27,0	36	26	M6	176,70	30878
	SK 50	10	160	24	32,0	41	31	M8x1	176,70	31078
	SK 50	12	160	24	32,0	47	37	M10x1	176,70	31278
	SK 50	14	160	27	34,0	47	37	M10x1	176,70	31478
	SK 50	16	160	27	34,0	50	40	M12x1	176,70	31678
	SK 50	18	160	33	42,0	50	40	M12x1	176,70	31878
	SK 50	20	160	33	42,0	52	42	M16x1	176,70	32078
	SK 50	25	160	44	53,0	58	48	M16x1	176,70	32578
	SK 50	32	160	44	53,0	62	52	M16x1	176,70	33278

→ Min. clamping depth, Page 300



Stop screw IK

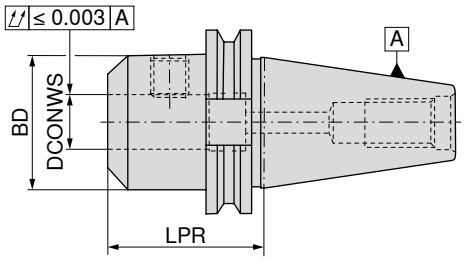
82 950 ...

Spare parts DCONWS		EUR Y8	
6	M5x16 - SW2,5	2,17	30000
8	M6x16 - SW3	2,32	30100
10	M8x1x16 - SW4	2,46	30200
12	M10x1x14 - SW5	2,61	30300
14	M10x1x14 - SW5	2,61	30300
16	M12x1x16 - SW6	2,75	30400
18	M12x1x16 - SW6	2,75	30400
20	M16x1x16 - SW8	2,89	30500
25	M16x1x16 - SW8	2,89	30500
32	M16x1x16 - SW8	2,89	30500

16

Cylindrical shank adapter (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**






AD
G 2,5 n_{max} 18000


ADe
G 2,5 n_{max} 18000

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	82 401 ... EUR Y8		82 403 ... EUR Y8	
short	SK 30	6	50	25	84,68	00600		
	SK 30	8	50	28	77,12	00800		
	SK 30	10	50	35	77,12	01000		
	SK 30	12	50	42	77,12	01200		
	SK 30	14	63	44	77,12	01400		
	SK 30	16	63	48	77,12	01600		
	SK 30	18	63	50	77,12	01800		
	SK 30	20	70	52	92,34	02000		
extra short	SK 40	16	35	48	45,54	416	67,35	416
	SK 40	20	35	50	45,54	420	67,35	420
	SK 40	25	40	50	49,78	425	72,54	425
	SK 40	32	75	72	62,91	43200	89,74	432

SK 50 adapters and other lengths can be found on the next 2 pages


Grubscrew

Spare parts for Article no.		83 950 ... EUR Y8	
82 403 425 / 82 401 425	M16x10	0,89	275
82 403 432	M14x10	0,80	259

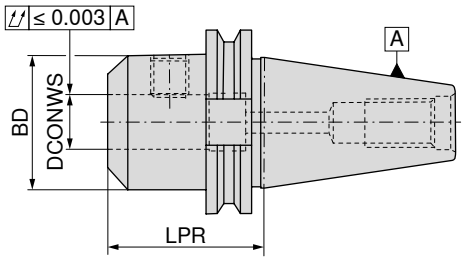
Accessories


Pull studs
→ 57–58


Others
→ 273

Cylindrical shank adapter (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**






AD/B
G 2,5 n_{max} 18000


AD/Be
G 2,5 n_{max} 18000

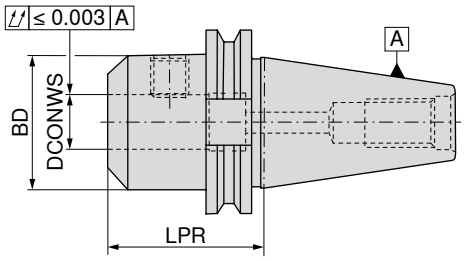
	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	82 401 ... EUR Y8		82 404 ... EUR Y8	
short	SK 40	6	50	25	42,14	106	59,51	106
	SK 40	8	50	28	42,14	108	59,51	108
	SK 40	10	50	35	39,77	110	57,06	110
	SK 40	12	50	42	39,77	112	57,06	112
	SK 40	14	50	44	39,77	114	57,06	114
	SK 40	16	63	48	43,07	116	64,99	116
	SK 40	18	63	50	43,07	118	64,99	118
	SK 40	20	63	52	43,07	120	64,99	120
	SK 40	25	100	65	47,24	125	69,14	125
	SK 40	32	100	72	51,39	132	76,04	13200
	SK 40	40	120	90	56,21	14000		
	SK 50	6	63	25	63,38	306	92,47	30600
	SK 50	8	63	28	63,38	308	91,63	30800
	SK 50	10	63	35	60,65	310	84,73	31000
	SK 50	12	63	42	60,65	312	84,73	31200
	SK 50	14	63	44	60,65	314	84,73	31400
	SK 50	16	63	48	60,83	316	92,47	31600
	SK 50	18	63	50	60,83	318	92,47	31800
	SK 50	20	63	52	60,83	320	92,47	32000
	SK 50	25	80	65	66,51	325	99,19	32500
	SK 50	32	100	72	67,44	332	103,90	33200
	SK 50	40	120	90	70,38	34000		
long	SK 40	6	100	25	43,92	506	71,28	50600
	SK 40	8	100	28	43,92	508	71,28	50800
	SK 40	10	100	35	41,47	510	68,26	51000
	SK 40	12	100	42	41,47	512	68,26	51200
	SK 40	14	100	44	41,19	514	68,26	51400
	SK 40	16	100	48	45,54	516	77,77	51600
	SK 40	18	100	50	45,34	518	77,77	51800
	SK 40	20	100	52	45,54	520	77,77	52000
	SK 40	40	120	80			98,93	54000
	SK 50	6	100	25	70,18	70600		
	SK 50	8	100	28	70,18	70800		
	SK 50	10	100	35	67,35	71000		
	SK 50	12	100	42	67,35	71200		
	SK 50	14	100	44	67,35	71400		
	SK 50	16	100	48	67,54	71600		
	SK 50	18	100	50	67,54	71800		
	SK 50	20	100	52	67,54	72000		
	SK 50	25	100	65	71,51	72500		

16

Continued on next page

Cylindrical shank adapter (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**






AD/B
G 2,5 n_{max} 18000

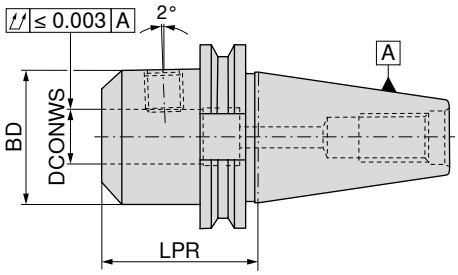

AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	82 401 ... EUR Y8		82 404 ... EUR Y8	
medium length	SK 40	6	130	25	48,55	206	75,76	206
	SK 40	8	130	28	48,55	208	75,76	208
	SK 40	10	130	35	45,72	210	73,11	210
	SK 40	12	130	42	45,72	212	73,11	212
	SK 40	14	130	44	45,72	214	73,11	214
	SK 40	16	130	48	46,58	216	78,50	216
	SK 40	18	130	50	46,58	218	78,50	218
	SK 40	20	130	52	46,58	220	78,50	220
	SK 50	6	130	25	75,66	90600	94,46	90600
	SK 50	8	130	28	75,66	90800	94,46	90800
	SK 50	10	130	35	74,24	91000	92,79	91000
	SK 50	12	130	42	74,24	91200	92,79	91200
	SK 50	14	130	44	74,24	91400	92,79	91400
	SK 50	16	130	48	74,35	91600	98,26	91600
	SK 50	18	130	50	74,35	91800	98,26	91800
	SK 50	20	130	52	74,35	92000	98,26	92000
	SK 50	25	130	65	76,33	92500	100,10	92500
extra-long	SK 40	6	160	25	50,54	606		
	SK 40	8	160	28	50,54	608		
	SK 40	10	160	35	47,88	610		
	SK 40	12	160	42	47,88	612		
	SK 40	14	160	44	47,88	614		
	SK 40	16	160	48	48,08	616		
	SK 40	18	160	50	48,08	618		
	SK 40	20	160	52	48,08	620		
	SK 40	25	160	65	51,39	625		
	SK 50	6	160	25	78,68	80600		
	SK 50	8	160	28	78,68	80800		
	SK 50	10	160	35	78,50	81000		
	SK 50	12	160	42	78,50	81200		
	SK 50	14	160	44	78,50	81400		
	SK 50	16	160	48	78,97	81600		
	SK 50	18	160	50	78,97	81800		
	SK 50	20	160	52	78,97	82000		
	SK 50	25	160	65	78,77	82500		
	SK 50	32	160	72	79,16	83200		

Spare parts and accessories on → **Page 32**

Cylindrical Shank Adapter (Whistle Notch)

- For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- The groove in the flat face is a characteristic feature of the Whistle Notch version
- also available with Balluff chip **on request**







AD/B
G 2,5 n_{max} 18000

82 407 ...

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	EUR Y8	
short	SK 40	6	50	25	51,96	106
	SK 40	8	50	28	51,96	108
	SK 40	10	50	35	48,17	110
	SK 40	12	50	42	48,17	112
	SK 40	14	50	44	48,17	114
	SK 40	16	63	48	52,89	116
	SK 40	18	63	50	52,89	118
	SK 40	20	63	52	52,89	120
	SK 40	25	100	65	67,26	12500
	SK 40	32	100	72	63,19	13200
	SK 50	8	63	28	88,69	30800
	SK 50	10	63	35	84,73	31000
	SK 50	12	63	42	84,73	31200
	SK 50	14	63	44	84,73	31400
	SK 50	16	63	48	85,20	31600
	SK 50	18	63	50	85,20	31800
	SK 50	20	63	52	85,20	32000
	SK 50	25	80	65	92,98	32500
	SK 50	32	100	72	94,46	33200
medium length	SK 40	6	63	25	88,69	30600
	SK 40	6	130	25	65,47	206
	SK 40	8	130	28	65,47	208
	SK 40	10	130	35	61,69	210
	SK 40	12	130	42	61,69	212
	SK 40	16	130	48	65,84	216
	SK 40	20	130	52	65,84	220
	SK 40	25	130	65	78,77	225
	SK 50	6	130	25	103,00	90600
	SK 50	8	130	28	103,00	90800
	SK 50	10	130	35	99,19	91000
	SK 50	12	130	42	99,19	91200
	SK 50	16	130	48	100,10	91600
	SK 50	20	130	52	100,10	92000
	SK 50	25	130	65	104,90	92500
	SK 50	32	130	72	104,90	93200

Spare parts cylindrical shank adapters (Weldon) and (Whistle Notch)

		 Grubscrew			 Stop screw IK	
		62 950 ...			**83 950 ...**	
Spare parts DCONWS		**EUR W7**			**EUR Y8**	
6	M6x10	0,68	**006**	M5x35	1,88	**033**
8	M8x10	0,79	**008**	M6x35	1,55	**034**
10	M10x12	1,05	**010**	M8x35	1,68	**035**
12 - 14	M12x16	1,06	**012**	M10x35	1,68	**036**
16 - 18	M14x16	1,32	**016**	M12x40	2,06	**037**
20	M16x16	1,60	**020**	M16x45	2,32	**272**
25	M18x2x20	2,93	**025**	M20x35	2,58	**290**

Accessories



Pull studs

→ 57–58

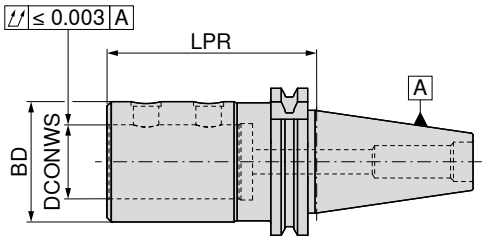


Others

→ 273

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip **on request**







AD/B
G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	BD mm	10 840 ... EUR 2E/45	
SK 40	20	80	40	133,20	**120**
SK 40	25	85	45	133,20	**125**
SK 40	32	90	52	133,20	**132**
SK 50	20	80	40	169,20	**220**
SK 50	25	85	45	169,20	**225**
SK 50	32	90	52	169,20	**232**
SK 50	40	90	65	169,20	**240**
SK 50	50	100	75	169,20	**250**

Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling.**



Grubscrew

Spare parts DCONWS		10 950 ... EUR 2A/28	
20	M10x1x10	3,96	**001**
25 - 32	M12x1x10	4,03	**002**
40 - 50	M16x1x12	4,03	**003**

Accessories



Pull studs
→ 57–58



Others
→ 273

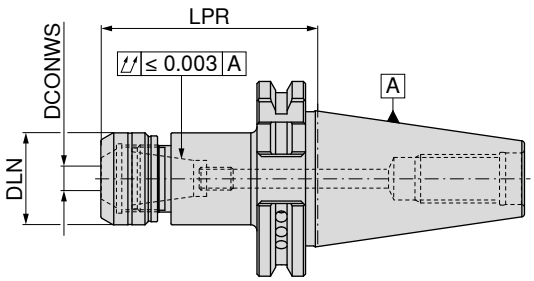
16

ER Precision Collet chuck – PCC

- For standard or sealing disc lock nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 100 bar
- also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw





NEW

AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	82 700 ... EUR Y8	
SK 40	1 - 10	70	30	426E (ER16)	40 / 2-70	92,45	**11079**
SK 40	1 - 10	100	30	426E (ER16)	40 / 2-70	133,20	**21079**
SK 40	2 - 16	70	40	430E (ER25)	80 / 10-160	92,45	**11679**
SK 40	2 - 16	100	40	430E (ER25)	80 / 10-160	133,20	**21679**
SK 40	2 - 20	70	50	470E (ER32)	125 / 15-250	92,45	**12079**
SK 40	2 - 20	100	50	470E (ER32)	125 / 15-250	133,20	**22079**
SK 50	2 - 16	70	40	430E (ER25)	80 / 10-160	174,20	**11678**
SK 50	2 - 16	100	40	430E (ER25)	80 / 10-160	216,30	**21678**
SK 50	2 - 20	70	50	470E (ER32)	125 / 15-250	174,20	**12078**
SK 50	2 - 20	100	50	470E (ER32)	125 / 15-250	216,30	**22078**

Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut


Lock nut IK


Lock nut


Backstop screw PCC 2


Backstop screw PCC 1

Spare parts for collet	82 950 ... EUR Y8		82 950 ... EUR Y8		82 950 ... EUR Y8		82 950 ... EUR Y8	
426E (ER16)	35,14	**11000**	33,11	**01000**			3,31	**00100**
430E (ER25)	35,14	**11600**	33,11	**01600**	4,50	**00200**	3,31	**00300**
470E (ER32)	35,14	**12000**	33,11	**02000**	4,50	**00200**	3,31	**00300**

Accessories


ER collet
→ 256–266

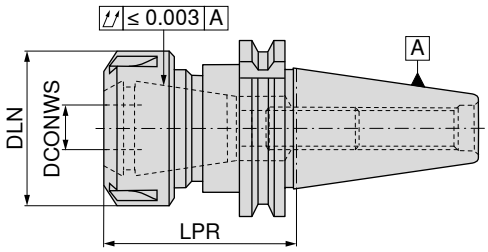

Sealing ring
→ 270


Roll key
→ 275

ER Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:
Holder with lock nut and adjustable back stop






AD
G 2,5 n_{max} 18000


AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 415 ... EUR Y8		82 415 ... EUR Y8	
short	SK 30	1 - 10	70	32	8 - 56	426E (ER16)	87,37	01000		
	SK 30	1 - 16	70	42	24 - 104	430E (ER25)	87,37	01600		
	SK 30	2 - 20	70	50	24 - 136	470E (ER32)	87,37	02000		
	SK 40	1 - 10	60	32	8 - 56	426E (ER16)			58,84	110
	SK 40	1 - 16	70	42	24 - 104	430E (ER25)			61,50	116
	SK 40	2 - 20	70	50	24 - 136	470E (ER32)			61,69	120
	SK 40	3 - 26	70	63	176	472E (ER40)			64,14	126
	SK 50	1 - 10	60	32	8 - 56	426E (ER16)			79,44	31000
	SK 50	1 - 16	70	42	24 - 104	430E (ER25)			82,74	31600
	SK 50	2 - 20	70	50	24 - 136	470E (ER32)			84,16	32000
	SK 50	3 - 26	70	63	176	472E (ER40)			86,15	32600
long	SK 30	1 - 10	100	32	8 - 56	426E (ER16)	122,10	21000		
	SK 30	1 - 16	100	42	24 - 104	430E (ER25)	122,10	21600		
	SK 30	2 - 20	100	50	24 - 136	470E (ER32)	122,10	22000		
	SK 40	1 - 10	120	32	8 - 56	426E (ER16)			64,52	410
	SK 40	1 - 16	120	42	24 - 104	430E (ER25)			67,17	416
	SK 40	2 - 20	120	50	24 - 136	470E (ER32)			67,35	420
	SK 40	3 - 26	100	63	176	472E (ER40)			80,89	42600
	SK 50	1 - 10	100	32	8 - 56	426E (ER16)			76,33	71000
	SK 50	1 - 16	100	42	24 - 104	430E (ER25)			79,44	71600
	SK 50	2 - 20	100	50	24 - 136	470E (ER32)			84,54	72000
	SK 50	3 - 26	100	63	176	472E (ER40)			88,69	72600
extra-long	SK 40	1 - 10	160	32	8 - 56	426E (ER16)			100,90	61000
	SK 40	2 - 16	160	42	24 - 104	430E (ER25)			100,90	61600
	SK 40	2 - 20	160	50	24 - 136	470E (ER32)			100,90	62000
	SK 40	3 - 26	160	63	176	472E (ER40)			116,70	62600
	SK 50	1 - 16	160	42	24 - 104	430E (ER25)			86,53	81600
	SK 50	2 - 20	160	50	24 - 136	470E (ER32)			95,39	82000


Lock nut IK


Lock nut


Y clamping key

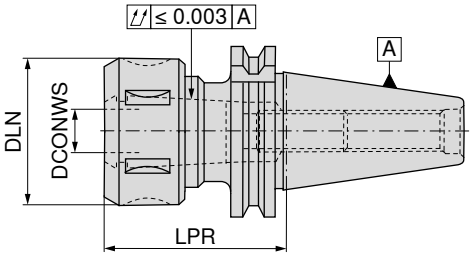

Stop screw IK

Spare parts for collet	83 950 ... EUR Y8		62 950 ... EUR W7		83 357 ... EUR Y8		83 950 ... EUR Y8	
426E (ER16) / SK30-SK50	31,54	054	18,35	054	16,52	116		
430E (ER25) / SK30	35,76	055	20,52	055	18,25	125	2,06	010
430E (ER25) / SK40, SK50	35,76	055	20,52	055	18,25	125	2,06	010
470E (ER32) / SK30	38,06	056	19,12	056	24,84	132	2,06	010
470E (ER32) / SK40, SK50	38,06	056	19,12	056	24,84	132	2,06	010
472E (ER40) / SK40, SK50	44,88	057	18,58	057	27,33	140	2,32	011

OZ Collet Chuck

- Clamping nut with ball bearings
- also available with Balluff chip **on request**

Scope of supply:
Holder with lock nut and adjustable back stop






AD
G 2,5 n_{max} 18000


AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 411 ... EUR Y8		82 411 ... EUR Y8	
short	SK 30	2 - 16	60	43	24 - 104	415E / 421E	87,37	01600		
	SK 30	2 - 25	80	60	24 - 176	459E / 462E	90,72	02500		
	SK 40	2 - 16	70	43	80 - 90	415E / 421E			73,68	116
	SK 40	2 - 25	70	60	90 - 100	459E / 462E			76,99	125
	SK 50	2 - 16	70	43	80 - 90	415E / 421E			97,34	32500
	SK 50	2 - 25	70	60	90 - 100	459E / 462E			108,70	33200
	SK 50	4 - 32	70	72	110 - 120	460E / 467E			118,10	34000
long	SK 40	2 - 16	120	43	80 - 90	415E / 421E			78,31	416
	SK 40	2 - 25	120	60	90 - 100	459E / 462E			81,43	425
	SK 40	4 - 32	100	72	227	460E / 467E			95,37	43200
	SK 50	2 - 16	100	43	80 - 90	415E / 421E			102,10	72500
	SK 50	2 - 25	100	60	90 - 100	459E / 462E			108,70	73200


Lock nut


Hook clamping key


Stop screw IK

Spare parts for collet		62 950 ... EUR W7		83 354 ... EUR Y8		83 950 ... EUR Y8	
415E / 421E	M33x1,5	32,51	050	8,08	116	M10x50	2,06	010
459E / 462E	M48x2	35,75	051	11,01	125	M10x50	2,06	010
460E / 467E	M60x2,5	44,71	052	12,32	132	M12x50	2,32	011

Accessories


OZ Collet
→ 268

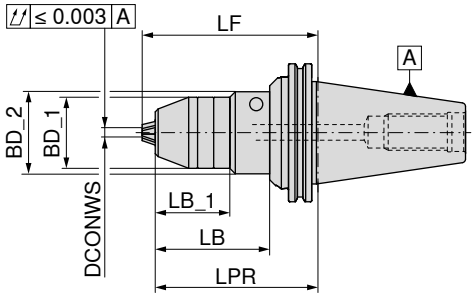

Pull studs
→ 57–58


Others
→ 273

Short drill chuck – NC 2010

- Independent of direction of rotation
- Torque Moment = 12 Nm
- also available with Balluff chip **on request**

Scope of supply:
Toolholder including clamping key SW4






A
G 6,3 n_{max} 10000


AD
G 6,3 n_{max} 10000


AD/B
G 6,3 n_{max} 10000

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LF mm	84 418 ... EUR Y8		84 419 ... EUR Y8		84 420 ... EUR Y8	
SK 30	0,5 - 10	80	43,0			59,9	89,0	278,60	**313**				
SK 40	0,5 - 13	80	48,5			60,8	89,0	213,90	**413**	227,80	**413**		
SK 40	0,5 - 13	80	48,5		50,9		89,0					256,00	**413**
SK 40	2,5 - 16	80	51,0			60,0	90,5			248,40	**416**		
SK 40	2,5 - 16	80	51,0			60,8	90,5	227,80	**416**				
SK 40	2,5 - 16	80	51,0		50,9		90,5					270,10	**416**
SK 50	0,5 - 13	110	48,5	56	50,9	78,0	119,0			288,40	**513**		
SK 50	0,5 - 13	110	48,5	56	50,9	78,1	119,0	278,60	**513**				
SK 50	2,5 - 16	110	51,0	56	50,9	78,0	120,5			288,40	**516**		
SK 50	2,5 - 16	110	56,0		50,9	78,0	120,5	282,90	**516**				

Can be used at G 2.5 to 30,000 1/min after additional balancing !

Accessories


Pull studs
→ 57–58

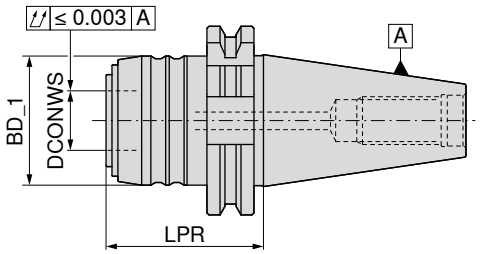

Others
→ 273

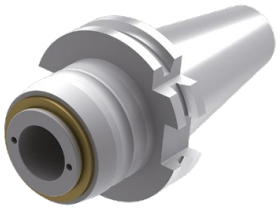
16

Synchro tapping chuck with minimum length compensation

- For collet
- With length compensation under tension and compression (LZD)
- for synchro use
- $p_{max.}$ = 50 bar
- also available with Balluff chip **on request**

Scope of supply:
Without insert







AD

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 416 ... EUR Y8	
SK 40	M3 - M12	1	53	43	20	1,0 / 0,2	166,40	**012**
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	216,00	**020**
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	180,40	**112**
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	277,60	**120**

Accessories



Pull studs
→ 57–58

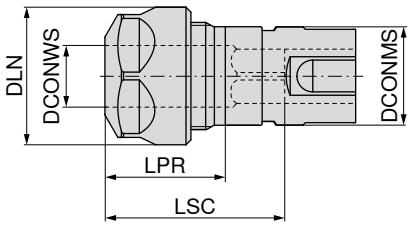


Others
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:
Includes lock nut







SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ... EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	020

Spare parts for synchronous tapping chucks


Lock nut


Lock nut IK


Lock nut

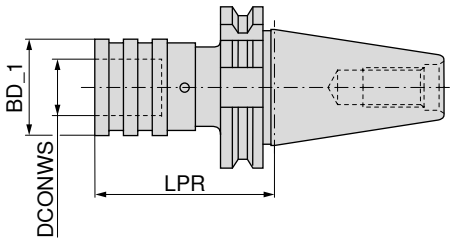

Y clamping key

Spare parts for Article no.	62 950 ...	EUR W7		83 950 ...	EUR Y8		62 950 ...	EUR W7		83 357 ...	EUR Y8	
83 608 012	M22x1,5 - SW25	18,35	044	M22x1,5	31,54	054					16,52	116
83 608 020				M32x1,5	35,76	055	M32x1,5	20,52	055		18,25	125

16

Quick change tap chuck with length compensation

- With length compensation under tension and compression (LZD)
- also available with Balluff chip **on request**







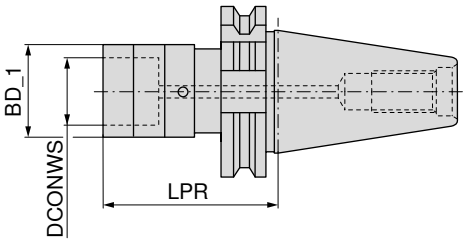
A

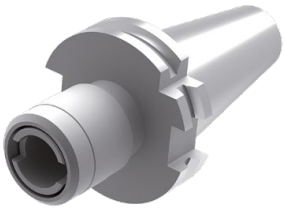
83 428 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	EUR Y8	
SK 30	M3 - M12	01	60	38	19	9	272,20	**312**
SK 30	M6 - M20	02	101	55	31	15	310,00	**320**
SK 40	M3 - M12	01	60	38	19	9	211,70	**412**
SK 40	M6 - M20	02	100	55	31	15	227,80	**420**
SK 50	M3 - M12	01	62	38	19	9	314,30	**512**
SK 50	M6 - M20	02	83	55	31	15	342,40	**520**

Quick change tap chuck without length compensation

- also available with Balluff chip **on request**







AD

83 423 ...

Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	EUR Y8	
SK 30	02	80	50	31	221,50	**320**
SK 30	01	59	33	19	221,50	**312**
SK 40	02	86	50	31	166,40	**420**
SK 40	01	59	33	19	157,70	**412**
SK 50	01	75	33	19	208,50	**512**
SK 50	02	98	50	31	226,80	**520**

Accessories



Collet
→ 277–281



Pull studs
→ 57–58

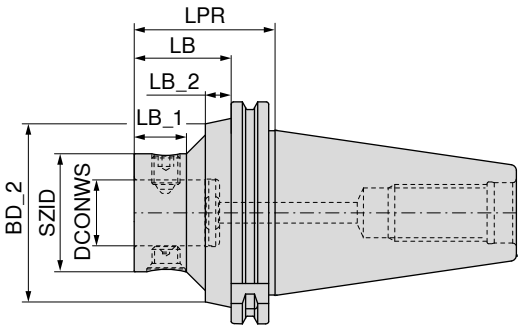


Others
→ 273

Adapter with ABS Connection

▲ also available with Balluff chip **on request**

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc





NEW



AD
G 6,3 n_{max} 8000

NEW



AD/B
G 6,3 n_{max} 8000

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	84 211 ... EUR 3E		84 201 ... EUR 3E	
SK 40	A50 00120	ABS 25	13	50	30,9	23,0			210,00	**04090**		
SK 40	A50 55120	ABS 25	13	50	30,9	20,0	7,9	50			210,00	**04090**
SK 40	A50 00130	ABS 32	16	50	30,9	23,0			210,00	**04089**		
SK 40	A50 55130	ABS 32	16	50	30,9	20,0	7,9	50			210,00	**04089**
SK 40	A50 00140	ABS 40	20	50	30,9				210,00	**04088**		
SK 40	A50 55140	ABS 40	20	50	30,9	20,0		50			210,00	**04088**
SK 40	A50 00150	ABS 50	28	50	30,9				210,00	**04097**		
SK 40	A50 55150	ABS 50	28	50	30,9						210,00	**04097**
SK 40	A50 00160	ABS 63	34	90	70,9		15,9	50	210,00	**04096**		
SK 40	A50 55160	ABS 63	34	90	70,9		15,9	50			210,00	**04096**
SK 50	A50 00320	ABS 25	13	60	40,9	31,0			236,80	**05090**		
SK 50	A50 55320	ABS 25	13	60	40,9	20,0	12,9	80			236,80	**05090**
SK 50	A50 00330	ABS 32	16	60	40,9	31,0			236,80	**05089**		
SK 50	A50 55330	ABS 32	16	60	40,9	20,0	12,9	80			236,80	**05089**
SK 50	A50 00340	ABS 40	20	60	40,9	31,0			236,80	**05088**		
SK 50	A50 55340	ABS 40	20	60	40,9	20,0	12,9	80			236,80	**05088**
SK 50	A50 00350	ABS 50	28	60	40,9				236,80	**05097**		
SK 50	A50 55350	ABS 50	28	60	40,9	22,0	10,9	80			236,80	**05097**
SK 50	A50 00360	ABS 63	34	60	40,9				236,80	**05096**		
SK 50	A50 55360	ABS 63	34	60	40,9	30,4	7,3	80			236,80	**05096**
SK 50	A50 00370	ABS 80	46	70	50,9				236,80	**05092**		
SK 50	A50 55370	ABS 80	46	70	50,9						236,80	**05092**
SK 50	A50 00380	ABS 100	56	115	95,9		15,9	80	236,80	**05091**		
SK 50	A50 55380	ABS 100	56	115	95,9		15,9	80			236,80	**05091**
SK 50	A50 00390	ABS 125	70	145	125,9		15,9	80	236,80	**05085**		

Conversion kit – Cooling agent supply



for		84 950 ... EUR W7	
4 mm	SK 40	5,13	**23200**
6 mm	SK 50	5,13	**23400**

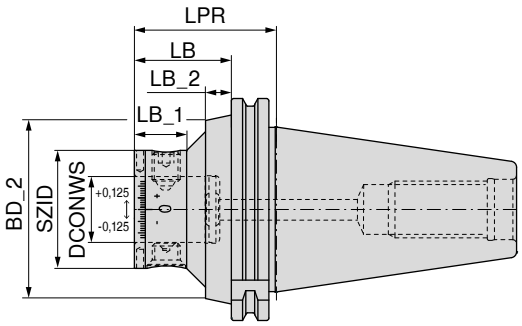
16

Eccentric adjuster with ABS Connection

- ▲ Adjustment ± 0.25 mm on diameter
- ▲ also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc





NEW

AD/B

84 204 ...

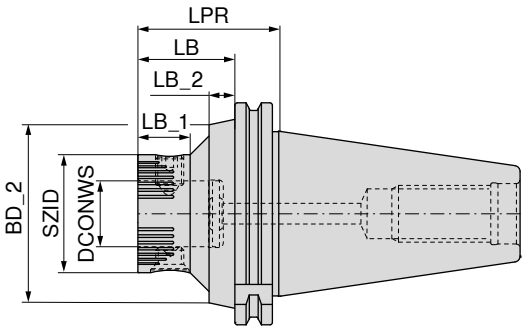
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	EUR W4	
SK 40	A50 56150	ABS 50	28	50	30,9				422,50	**04097**
SK 40	A50 56160	ABS 63	34	90	70,9		15,9	50	422,50	**04096**
SK 50	A50 56350	ABS 50	28	60	40,9	22,0	10,9	80	450,10	**05097**
SK 50	A50 56360	ABS 63	34	60	40,9	30,4	7,3	80	450,10	**05096**

Torsional vibration dampers with ABS Connection

- ▲ also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc





NEW

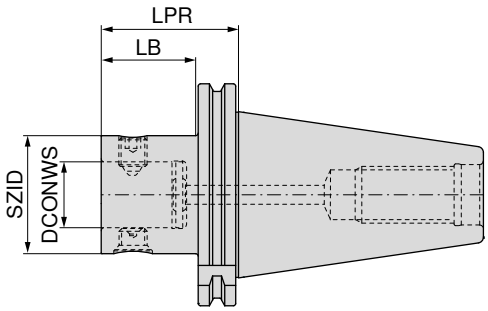
AD/B

84 207 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	LB_2 mm	BD_2 mm	EUR 3E	
SK 40	A50 01351	ABS 50	28	50	30,9				576,20	**04097**
SK 40	A50 01361	ABS 63	34	90	70,9		15,9	50	686,10	**04096**
SK 50	A50 01451	ABS 50	28	60	40,9	22,0	10,9	80	688,50	**05097**
SK 50	A50 01461	ABS 63	34	60	40,9	30,4	7,3	80	715,40	**05096**
SK 50	A50 01470	ABS 80	46	70	50,9				796,00	**05092**

Adapter with ABS Connection – SK-FC

- ▲ with face contact
- ▲ also available with Balluff chip **on request**





NEW



AD
G 6,3 n_{max} 8000

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	84 213 ... EUR 3E	
SK-FC 40	A50 57151	ABS 50	28	50	30,9	515,20	**04097**
SK-FC 40	A50 57161	ABS 63	34	90	70,9	534,70	**04096**
SK-FC 50	A50 57351	ABS 50	28	60	40,9	691,00	**05097**
SK-FC 50	A50 57361	ABS 63	34	60	40,9	720,30	**05096**
SK-FC 50	A50 57371	ABS 80	46	70	50,9	761,80	**05092**
SK-FC 50	A50 57381	ABS 100	56	115	95,9	808,20	**05091**



Clamping screw



Set



Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 50	12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63	14,11	**25500**	31,57	**99400**	17,61	**27300**
ABS 80	15,97	**25600**	35,48	**99300**	19,67	**25100**
ABS 100	18,90	**25700**	39,55	**99200**	20,70	**25200**

Accessories



Pull studs
→ 57–58



Extension
→ 193

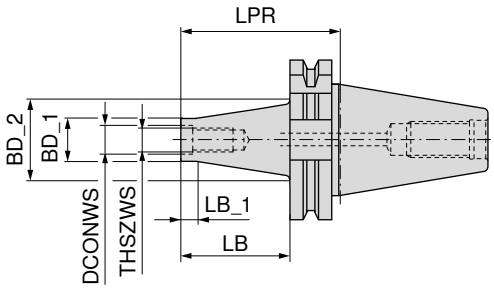


Others
→ 273

16

Adapter for milling cutters with threaded end

▲ also available with Balluff chip **on request**





Adapter	THSZWS	DCONWS mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm	AD G 16 n_{max} 8000 56 707 ... EUR WA		AD G 6,3 n_{max} 18000 56 705 ... EUR WA		AD G 2,5 n_{max} 30000 56 703 ... EUR WA	
SK 30	M8	8,5	25	13,8	18,0	12	44					138,20	**081**
SK 30	M8	8,5	50	13,8	23,0	12	69					160,90	**082**
SK 30	M10	10,5	25	18,0	23,0	12	44					138,20	**101**
SK 30	M10	10,5	50	18,0	25,0	12	69					160,90	**102**
SK 30	M12	12,5	25	21,0	24,0	12	44					138,20	**121**
SK 30	M12	12,5	50	21,0	30,0	12	69					160,90	**122**
SK 30	M16	17,0	25	29,0	30,5	12	44					138,20	**161**
SK 30	M16	17,0	50	29,0	34,0	12	69					160,90	**162**
SK 40	M8	8,5	25	13,8	15,0	12	44			98,18	**081**		
SK 40	M8	8,5	50	13,8	23,0	12	69			105,20	**082**		
SK 40	M8	8,5	75	13,8	25,0	12	94			113,40	**083**		
SK 40	M10	10,5	25	18,0	23,0	12	44			98,18	**101**		
SK 40	M10	10,5	50	18,0	25,0	12	69			105,20	**102**		
SK 40	M10	10,5	75	18,0	30,0	12	94			113,40	**103**		
SK 40	M10	10,5	100	18,0	35,0	12	119			122,10	**104**		
SK 40	M12	12,5	25	21,0	24,0	12	44			98,18	**121**		
SK 40	M12	12,5	50	21,0	30,0	12	69			105,20	**122**		
SK 40	M12	12,5	75	21,0	35,0	12	94			113,40	**123**		
SK 40	M12	12,5	100	21,0	38,0	12	119			122,10	**124**		
SK 40	M16	17,0	25	29,0	29,0	12	44			98,18	**161**		
SK 40	M16	17,0	50	29,0	34,0	12	69			105,20	**162**		
SK 40	M16	17,0	75	29,0	35,0	12	94			113,40	**163**		
SK 40	M16	17,0	100	29,0	40,0	12	119			122,10	**164**		
SK 40	M16	17,0	125	29,0	44,0	12	144			129,70	**165**		
SK 40	M16	17,0	150	29,0	48,0	12	169			138,20	**166**		
SK 40	M16	17,0	200	29,0	50,0	12	219			159,90	**167**		
SK 50	M12	12,5	50	21,0	30,0	12	69	146,90	**122**				
SK 50	M12	12,5	100	21,0	38,0	12	119	167,50	**124**				
SK 50	M12	12,5	150	21,0	52,0	12	169	192,30	**126**				
SK 50	M16	17,0	50	29,0	34,0	12	69	146,90	**162**				
SK 50	M16	17,0	100	29,0	40,0	12	119	167,50	**164**				
SK 50	M16	17,0	150	29,0	48,0	12	169	192,30	**166**				
SK 50	M16	17,0	200	29,0	58,0	12	219	221,50	**167**				
SK 50	M16	17,0	250	29,0	62,0	12	269	254,90	**168**				

Accessories

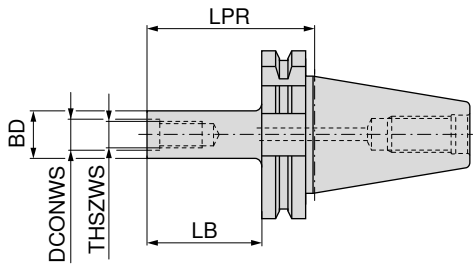


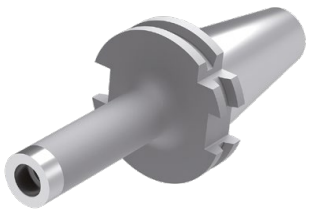


Extension-Reduction set	Pull studs	Others
→ 245	→ 57–58	→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip **on request**







AD
G 6,3 n_{max} 18000

Adapter	THSZWS	DCONWS mm	LB mm	BD mm	LPR mm	56 709 ... EUR WA	
SK 40	M8	8,5	50	13,8	69	112,40	**082**
SK 40	M10	10,5	50	18,0	69	112,40	**102**
SK 40	M10	10,5	75	18,0	94	120,90	**103**
SK 40	M10	10,5	100	18,0	119	128,50	**104**
SK 40	M12	12,5	50	21,0	69	112,40	**122**
SK 40	M12	12,5	75	21,0	94	120,90	**123**
SK 40	M12	12,5	100	21,0	119	128,50	**124**
SK 40	M16	17,0	50	29,0	69	112,40	**162**
SK 40	M16	17,0	75	29,0	94	120,90	**163**
SK 40	M16	17,0	100	29,0	119	128,50	**164**

Accessories


Extension-Reduction set
→ 245

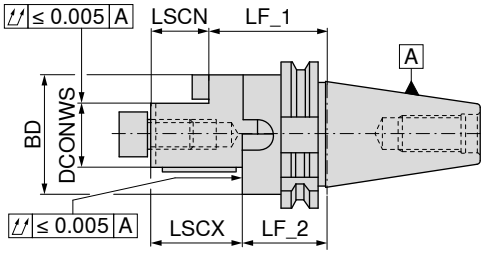

Pull studs
→ 57–58


Others
→ 273

Combination shell mill adapter

- For milling cutters with transverse or longitudinal groove according to DIN 6358
- also available with Balluff chip **on request**

Scope of supply:
Toolholder with retaining screw, driving ring and dowel spring






A
G 6,3 n_{max} 8000

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm	82 429 ... EUR Y8	
short	SK 30	16	50	32	27	17	40	84,68	01600
	SK 30	22	50	40	31	19	38	84,68	02200
	SK 30	27	55	48	33	21	43	89,96	02700
	SK 30	32	60	58	38	24	46	95,14	03200
	SK 40	16	55	32	27	17	45	58,18	116
	SK 40	22	55	40	31	19	43	60,46	122
	SK 40	27	55	48	33	21	43	61,69	127
	SK 40	32	60	58	38	24	46	65,18	132
	SK 40	40	60	70	41	27	46	68,58	140 1)
	SK 50	16	55	32	27	17	45	87,28	316
	SK 50	22	55	40	31	19	43	90,31	322
	SK 50	27	55	48	33	21	43	97,34	327
	SK 50	32	55	58	38	24	41	100,10	332
	SK 50	40	55	70	41	27	41	103,00	340 1)
	SK 50	50	70	90	46	30	54	112,50	350 1)
long	SK 40	16	100	32	27	17	90	77,54	21600
	SK 40	22	100	40	31	19	88	80,78	22200
	SK 40	27	100	48	33	21	88	82,30	22700
	SK 40	32	100	58	38	24	86	86,73	23200
	SK 40	40	100	70	41	27	86	91,47	24000

1) With cross screw


Parallel key


Drive ring


Cross nut key


Retaining screw


clamping screw

Spare parts DCONWS		83 950 ... EUR Y8		83 370 ... EUR Y8		83 368 ... EUR Y8			83 367 ... EUR Y8			83 950 ... EUR Y8	
16	4 x 4 x 20	1,68	284	10,21	116	11,01	116	M8	3,33	016	M8x25	2,97	113
22	6 x 6 x 25	1,68	285	11,34	122	13,72	122	M10	3,65	022	M10x25	3,43	124
27	7 x 7 x 25	3,24	286	12,20	127	17,60	127	M12	4,67	027	M12x30	3,78	125
32	8 x 7 x 28	1,93	287	14,58	132	22,68	132	M16	7,50	032	M16x35	4,70	126
40	10 x 8 x 32	2,06	288	21,70	140	31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112
50	12 x 8 x 36	2,32	289	38,23	150	43,10	150	M24	26,35	050			

Accessories


Pull studs
→ 57–58

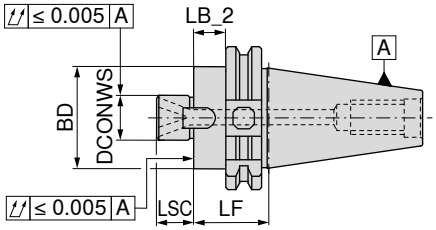

Milling Adapter Rings
→ 253


Others
→ 273

Shell mill adapter

- Screwed drive dogs
- also available with Balluff chip **on request**

Scope of supply:
Toolholder with retaining screw





	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	A G 2,5 n_{max} 18000 82 428 ... EUR Y8		AD/B G 6,3 n_{max} 8000 82 428 ... EUR Y8	
short	SK 30	16	21,0	40	38	17	79,60	01600		
	SK 30	22	14,6	50	48	19	79,60	02200		
	SK 30	27	19,3	55	58	21	84,68	02700		
	SK 30	32	31,0	50	78	24	90,29	03200		
	SK 40	16	25,0	44	38	17			58,18	116
	SK 40	22	25,0	44	48	19			61,69	122
	SK 40	27	36,0	55	58	21			62,81	127
	SK 40	32	31,0	50	78	24			66,13	132
	SK 40	40	31,0	50	88	27			71,89	140 1)
	SK 50	16	25,0	44	38	17			89,84	316
	SK 50	22	25,0	44	48	19			92,20	322
	SK 50	27	25,0	44	58	21			94,46	327
	SK 50	32	21,0	40	78	24			102,10	332
	SK 50	40	31,0	50	88	27			103,90	340 1)
long	SK 40	16	81,0	100	38	17			60,17	416
	SK 40	22	81,0	100	48	19			62,16	422
	SK 40	27	81,0	100	58	21			63,19	427
	SK 40	32	81,0	100	78	24			66,51	432
	SK 40	40	81,0	100	88	27			69,43	440 1)
	SK 50	16	81,0	100	38	17			95,39	616
	SK 50	22	81,0	100	48	19			97,34	622
	SK 50	27	81,0	100	58	21			100,10	627
	SK 50	32	81,0	100	78	24			103,00	632
	SK 50	40	81,0	100	88	27			104,90	640 1)
medium length	SK 40	16	111,0	130	38	17			63,95	816
	SK 40	22	111,0	130	48	19			66,13	822
	SK 40	27	111,0	130	58	21			67,17	827
	SK 40	32	111,0	130	78	24			70,38	832
	SK 40	40	111,0	130	88	27			73,49	840 1)
	SK 50	16	111,0	130	38	17			101,00	916
	SK 50	22	111,0	130	48	19			103,00	922
	SK 50	27	111,0	130	58	21			105,80	927
	SK 50	32	111,0	130	78	24			108,70	932
	SK 50	40	111,0	130	88	27			110,50	940
extra-long	SK 40	16	141,0	160	38	17			66,13	516
	SK 40	22	141,0	160	48	19			68,29	522
	SK 40	27	141,0	160	58	21			69,24	527
	SK 40	32	141,0	160	78	24			72,45	532
	SK 40	40	141,0	160	88	27			75,48	540 1)
	SK 50	16	141,0	160	38	17			103,90	716
	SK 50	22	141,0	160	48	19			106,80	722
	SK 50	27	141,0	160	58	21			108,70	727
	SK 50	32	141,0	160	78	24			111,50	732
	SK 50	40	141,0	160	88	27			114,30	740 1)

1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters

Cross nut key



Retaining screw



clamping screw

Spare parts DCONWS	83 368 ... EUR Y8		83 367 ...	EUR Y8		83 950 ...	EUR Y8	
16	11,01	116	M8	3,33	016	M8x25	2,97	113
22	13,72	122	M10	3,65	022	M10x25	3,43	124
27	17,60	127	M12	4,67	027	M12x30	3,78	125
32	22,68	132	M16	7,50	032	M16x35	4,70	126
40	31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112



Screw for drivers



Driver

Spare parts DCONWS	83 950 ... EUR Y8		83 950 ... EUR Y8	
16	M3x8	0,39	296	8x9x17,5	7,45	120
22	M4x12	0,49	297	10x11x20,5	7,71	121
27	M5x12	0,59	136	12x13x24,3	8,73	122
32	M5x20	0,66	137	14x21x21,2	9,00	123
40	M6x16	0,77	138	15,9x16,3x19,5	11,56	295

Accessories



Pull studs
→ 57–58



Extensions
→ 252

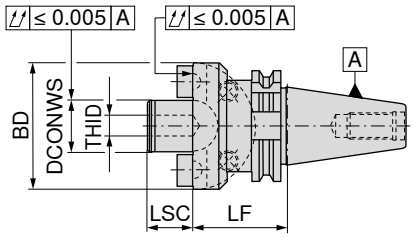


Others
→ 273

Large diameter facemill adapter

- For milling cutters with keyway or drive slot DIN 6357
- also available with Balluff chip **on request**

Scope of supply:
Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws







A
G 6,3 n_{max} 8000

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	82 432 ... EUR Y8	
SK 40	40	60	89	30	M20	119,10	**040**
SK 50	40	70	89	30	M20	137,90	**240**
SK 50	60	70	129	40	M30	167,30	**260**


Screw for drivers


Driver


clamping screw

Spare parts DCONWS	Screw for drivers	83 950 ... EUR Y8		Driver	83 950 ... EUR Y8		clamping screw	83 950 ... EUR Y8	
40	M6x16	0,77	**138**	15,9x16,3x19,5	11,56	**295**	M12x50	3,76	**140**
60				25,4x16,3x26,5	15,01	**298**	M16x45	9,58	**160**

Accessories

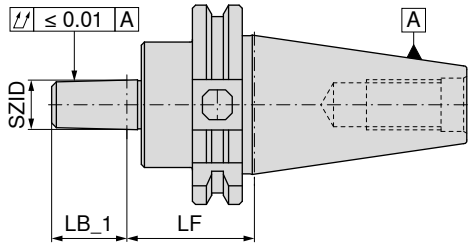

Pull studs
→ 57–58


Others
→ 273

16

Drill chuck adapter

▲ also available with Balluff chip **on request**







A
G 6,3 n_{max} 8000

Adapter	SZID	LF mm	LB_1 mm	82 423 ... EUR Y8	
SK 40	B12	40	18,5	45,63	**112**
SK 40	B16	40	24,0	45,63	**116**
SK 50	B16	40	24,0	69,05	**316**
SK 50	B18	40	32,0	69,05	**318**



Drill chuck



Drill chuck

Spare parts SZID		83 636 ... EUR Y8			83 636 ... EUR Y8	
B12	0 - 8 mm	90,84	**012**	0 - 10 mm	107,10	**112**
B16	1 - 13 mm	128,50	**016**	3 - 16 mm	108,10	**116**
B18				3 - 16 mm	137,20	**018**

Accessories



Pull studs
→ 57–58

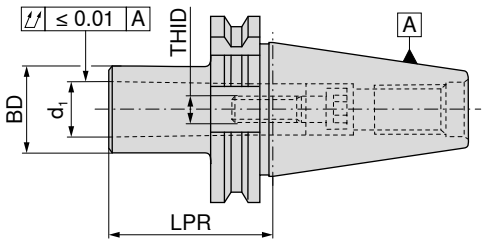


Others
→ 273

Milling sleeve adapters DIN 6364 for DIN 228-2C Morse taper shanks with thread

▲ also available with Balluff chip **on request**

Scope of supply:
Holder with retaining screw







A
G 6,3 n_{max} 8000

	Adapter	d_1	LPR mm	BD mm	THID	82 446 ... EUR Y8	
short	SK 40	MK1	50	25	M6	55,73	110
	SK 40	MK2	50	32	M10	55,73	120
	SK 40	MK3	70	40	M12	58,18	130
	SK 40	MK4	95	48	M16	60,46	140
	SK 50	MK1	45	25	M6	82,09	310
	SK 50	MK2	60	32	M10	81,24	320
	SK 50	MK3	65	40	M12	81,24	330
	SK 50	MK4	95	48	M16	84,16	340
	SK 50	MK5	120	63	M20	95,39	350



Morse taper clamping screw



Counterscrew



Hollow key with nose



Fixing ring

Spare parts for Article no.		83 950 ... EUR Y8			83 950 ... EUR Y8		83 359 ... EUR Y8		83 950 ... EUR Y8	
82 446 110	M6x30	0,71	260	M5x6	0,49	030	16 x 32	19,00	013	M16x8x6,5	6,57	265
82 446 120	M10x30	1,21	261	M5x8	0,49	031	16 x 32	19,00	013	M16x8x10,5	6,57	267
82 446 130	M12x35	0,89	018	M5x6	0,49	030	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 446 140	M16x40	2,82	019	M5x8	0,49	031	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 446 310	M6x30	0,71	260	M5x8	0,49	031	20 x 135	22,58	020	M24x10x6,5	7,56	266
82 446 320	M10x30	0,89	017	M5x8	0,49	031	20 x 135	22,58	020	M24x10x10,5	7,56	268
82 446 330	M10x30	0,89	017	M5x8	0,49	031	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 446 340	M16x40	2,82	019	M5x8	0,49	031	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 446 350	M20x50	7,09	262	M5x8	0,49	031	33 x 175	32,29	033	M36x1,5x21	11,12	271

Accessories



Pull studs
→ 57–58

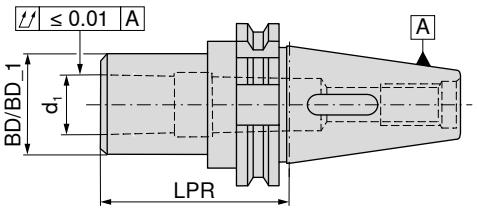


Others
→ 273

16

Taper sleeve DIN6383 for DIN 228-2D Morse taper shanks

▲ also available with Balluff chip **on request**







AD
G 6,3 n_{max} 8000

82 439 ...

	Adapter	d_1	LPR mm	BD mm	BD_1 mm	EUR Y8	
short	SK 30	MK1	50	25		75,60	01000
	SK 30	MK2	63	32		75,60	02000
	SK 30	MK3	80	40		82,19	03000
	SK 40	MK1	50		25	51,20	110
	SK 40	MK2	50		32	51,20	120
	SK 40	MK3	70		40	54,69	130
	SK 40	MK4	95	48		57,06	140
	SK 50	MK1	50		25	70,00	310
	SK 50	MK2	60		32	72,45	320
	SK 50	MK3	65		40	72,45	330
	SK 50	MK4	95		48	74,81	340
	SK 50	MK5	105		63	81,34	350
long	SK 40	MK2	117	32		72,89	22000
	SK 40	MK3	133	40		81,01	23000
	SK 40	MK4	156	48		88,34	24000

Accessories



Morse taper adapter sleeve
→ 230



Pull studs
→ 57–58

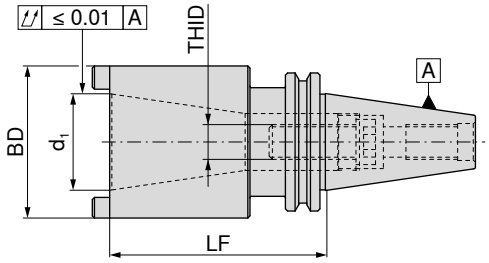


Others
→ 273

Milling adapter sleeve

- For mounting steep taper adapters according to DIN 2080
- With an extended retaining screw, adapters compliant with ISO 7388-1 – SK, ISO 7388-2 – MAS-BT and ANSI-CAT can also be clamped
- also available with Balluff chip **on request**

Scope of supply:
Holder with clamping screw for DIN 2080 adapters






A
G 6,3 n_{max} 8000

Adapter	d_1	LF mm	BD mm	THID	82 453 ... EUR Y8	
SK 40	SK 30	50	50	M12	123,20	**03000**
SK 40	SK 40	100	70	M16	96,32	**040**
SK 50	SK 40	80	70	M16	131,20	**240**
SK 50	SK 50	120	100	M24	137,90	**250**


Clamping screw SK


Morse taper clamping screw


Counterscrew


Hollow key with nose


Fixing ring

Spare parts for Article no.	83 950 ... EUR Y8		83 950 ... EUR Y8		83 950 ... EUR Y8		83 359 ... EUR Y8		83 950 ... EUR Y8	
82 453 03000			5,36	**18400**	0,49	**030**	21,50	**017**	6,58	**18500**
82 453 040	6,02	**009**			0,49	**030**	26,03	**023**	8,55	**270**
82 453 240	6,67	**264**								
82 453 250	20,95	**256**			0,49	**031**	32,40	**133**	11,12	**257**

Auxiliary table for finding the required spare parts and accessories for intermediate sleeves for SK-adapters

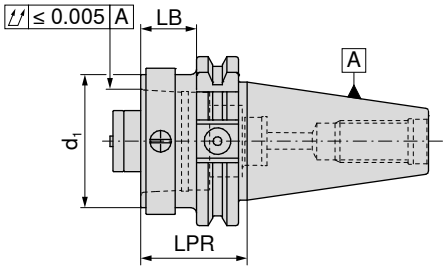
ISO 7388-1	Norm of the SK-shank		Clamping screw length				
Suitable for article no.	Ø d_1 ISO 7388-1	Ø d_1 DIN 2080	THID	Clamping screw SK Article no.	retaining ring Article no.	lock screw Article no.	hollow key Article no.
82 453 03000		SK 30	M12 x 40	83 950 18400	83 950 18500	83 950 030	83 359 017
82 453 040	SK40		M16 x 70	83 950 264	83 950 270	83 950 030	83 359 023
82 453 040		SK40	M16 x 40	83 950 009	83 950 270	83 950 030	83 359 023
82 453 240	SK40		M16 x 70	83 950 264			
82 453 240		SK40	M16 x 40	83 950 009			
82 453 250	SK50		M24 x 80	83 950 256	83 950 257	83 950 031	83 359 133
82 453 250		SK50	M24 x 50	83 950 263	83 950 257	83 950 031	83 359 133

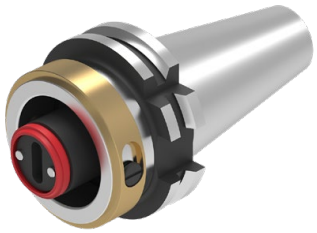
16

SK/HSK-A adapter

- for mounting HSK-A adapters according to ISO 12164
- also available with Balluff chip **on request**

Scope of supply:
with clamping cartridge and cover ring





NEW



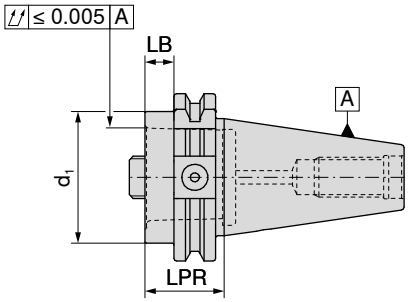
AD

Adapter	d_1	LB mm	LPR mm	84 014 ... EUR Y8	
SK 40	HSK-A 32	20,9	40	472,80	**04060**
SK 40	HSK-A 40	20,9	40	482,30	**04059**
SK 40	HSK-A 50	20,9	40	491,80	**04058**
SK 40	HSK-A 63	60,9	80	482,30	**04057**
SK 50	HSK-A 100	80,9	100	757,70	**05055**
SK 50	HSK-A 32	20,9	40	596,20	**05060**
SK 50	HSK-A 40	20,9	40	596,20	**05059**
SK 50	HSK-A 50	20,9	40	605,70	**05058**
SK 50	HSK-A 63	20,9	40	643,80	**05057**

SK/PSC adapter

- ▲ for mounting PSC adapters according to ISO 26623-1
- ▲ also available with Balluff chip **on request**

Scope of supply:
with tightening screw





NEW



AD

Adapter	d_1	LB mm	LPR mm	84 015 ... EUR Y8	
SK 40	PSC 32	10,9	30	301,80	**04087**
SK 40	PSC 40	10,9	30	311,40	**04095**
SK 40	PSC 50	10,9	30	311,40	**04094**
SK 40	PSC 63	65,9	85	301,80	**04093**
SK 50	PSC 32	10,9	30	415,90	**05087**
SK 50	PSC 40	10,9	30	491,80	**05095**
SK 50	PSC 50	10,9	30	425,30	**05094**
SK 50	PSC 63	10,9	30	434,80	**05093**
SK 50	PSC 80	50,9	70	463,30	**05086**



Threaded ring

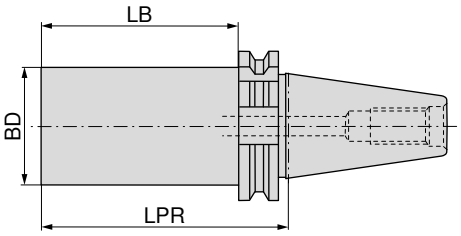


tightening screw

Spare parts DCONWS	84 950 ... EUR Y8			84 950 ... EUR Y8	
22	26,46	**127**	SW8	19,12	**122**
28	26,46	**128**	SW8	21,60	**123**
35	26,46	**129**	SW10	21,60	**124**
44	52,82	**130**	SW14	24,19	**126**
55	52,82	**130**	SW14	24,19	**126**

Blank

- Material: Steel 17CrNiMo5
- for production of special tools
- Diameter BD turned with 0.5 mm oversize
- Taper hardened and ground
- Special tool area in soft state
- also available with Balluff chip **on request**







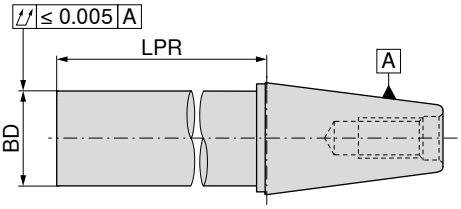
AD/B

Adapter	BD mm	LPR mm	LB mm	82 458 ... EUR Y8	
SK 40	63,0	250	231	67,82	**040**
SK 50	63,5	300	281	124,70	**050**

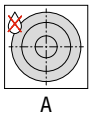
Test bar

- Without clamping slots
- MAS BT 40 special pull stud with LF = 32 mm

Scope of supply:
in wooden box







A

Adapter	BD mm	LPR mm	82 456 ... EUR Y8	
SK / BT 40	40	330	295,70	**040**
SK / BT 50	50	330	364,60	**050**

Accessories



Pull studs
→ 57–58, 111–112

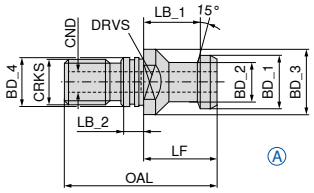


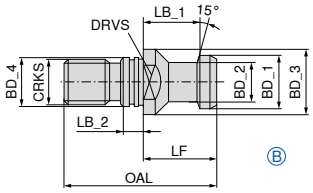
Others
→ 273

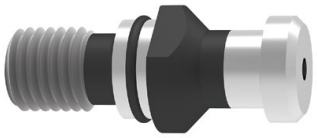
Pull studs for tool holders according to ISO 7388-1

- DIN 69872 form A and B
- For tools with or without axial coolant supply

Scope of supply:
including O-Ring





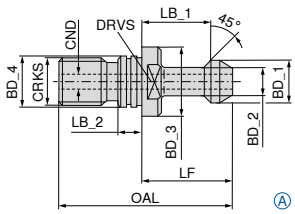


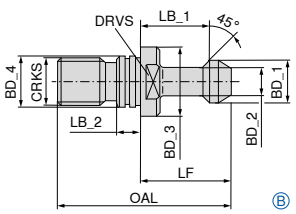
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 475 ... EUR Y8		82 468 ... EUR Y8	
SK 30	13	9	17	13	M12	44	24	19	5	3,5	14	60	A			9,72	**030**
SK 40	19	14	23	17	M16	54	26	20	7	7,0	19	90	A			5,31	**040**
SK 50	28	21	36	25	M24	74	34	25	10	11,5	30	145	A			8,08	**050**
SK 30	13	9	17	13	M12	44	24	19	5		14	60	B	9,72	**030**		
SK 40	19	14	23	17	M16	54	26	20	7		19	90	B	5,31	**040**		
SK 50	28	21	36	25	M24	74	34	25	10		30	145	B	8,08	**050**		

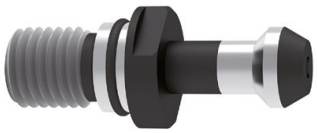
Pull studs for tool holders according to ISO 7388-1

- Similar to BT 45°, but 3 mm shorter
- for Haas, Micron and Hurco machines

Scope of supply:
including O-Ring







Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	83 538 ... EUR Y8		83 535 ... EUR Y8	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	90	A			9,57	**040**
SK 40	15	10	23	17	M16	57	32	25	5		19	90	B	9,86	**040**		

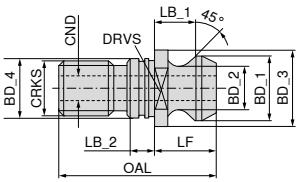


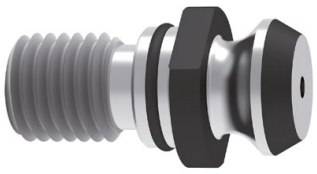
Spare parts BD_4		83 476 ... EUR Y8	
17	BT / SK 40	0,47	**040**
25	BT / SK 50	0,47	**050**

Pull studs for tool holders according to ISO 7388-1

▲ Similar to ISO / DIS 7388 (ANSI-CAT only for SK 40) Form A

Scope of supply:
SK 50 including O-ring
SK 40 without O-ring groove

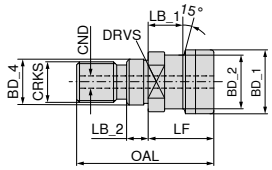


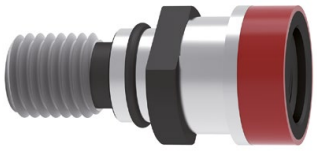


Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	82 487 ... EUR Y8	
SK 40	18,79	12,44	22,5	17	M16	41,26	16,25	11,17	4,0	6,0	19	90	5,62	**040**
SK 50	29,10	19,60	37,0	25	M24	65,50	25,55	17,95	5,5	11,5	30	145	8,08	**050**

Pull studs for tool holders according to ISO 7388-1

▲ SK 40 with circlip groove and edge protection, with and without internal thread
▲ SK 50 with circlip groove, with and without internal thread
▲ For tools according to ISO 7388-1 for conversion to DIN 2080



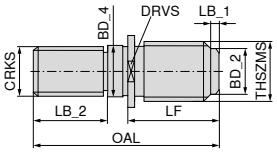


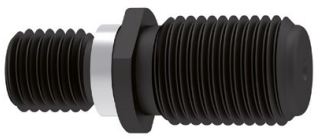
Adapter	BD_1 mm	BD_2 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	without internal thread 82 493 ... EUR Y8		with internal thread 82 494 ... EUR Y8	
SK 40	25,0	21,1	17	M16	53	25	13,6	8	7	19	90	6,34	**040**	6,63	**040**
SK 50	39,3	32,0	25	M24	65	25	13,3	10		30	145	8,88	**050** [1]	9,88	**050**

1) with O ring

Pull studs for tool holders according to ISO 7388-1

▲ DECKEL thread S 20 x 2





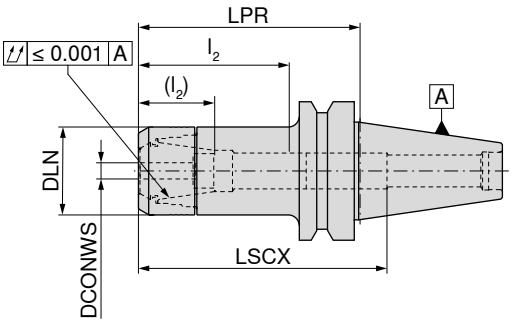
Adapter	THSZMS	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	BD_2 mm	BD_4 mm	DRVS mm	83 471 ... EUR Y8	
SK 40	S 20 x 2	M16	55	33	4	17	16,7	17	22	20,95	**040**

ER Precision Collet chuck – Centro-P

- for standard or sealed nuts
- maximum size collet to ISO tolerance field H10
- for clamping a roll key is required
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop







AD

G 2,5 n_{max} 25000

84 524 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	EUR Y8	
BT 30	1 - 10	50	30	73	28 - 44 (16 - 31)	426E (ER16)	93,20	**001**
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	104,60	**002**
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	121,20	**003**
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	131,40	**004**
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	102,50	**160**
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	104,70	**161**
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	115,00	**162**
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	131,50	**164**
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	102,50	**207**
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	104,70	**208**
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	115,00	**209**
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	93,22	**210**
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	103,60	**310**
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	139,80	**410**
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	154,30	**510**
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	206,00	**610**
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	98,40	**116**
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	93,22	**216**
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	103,60	**316**
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	131,40	**168**
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	150,20	**416**
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	164,70	**516**
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	206,10	**616**
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	98,40	**120**
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	93,22	**220**
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	103,60	**320**
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	150,20	**420**
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	164,70	**520**
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	124,30	**226**
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	145,00	**326**
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	170,90	**720**
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	206,10	**820**
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	295,20	**920**
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	181,20	**726**
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	216,50	**826**

→ Transmittable torque moments, Page 300

LSCX = clamping depth without back stop screw for shanks
l_2 = with back stop screw 1, dimension in brackets (l_2) = with back stop screw 2
dimension LPR when using tightening nuts with seals 3 mm longer

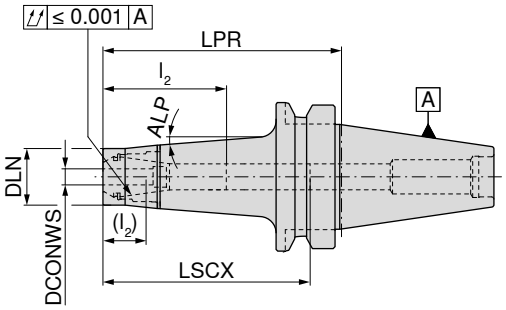
Spare parts, ER precision collet chuck – Centro-P

Spare parts for collet	Lock nut IK 84 950 ... EUR Y8		Lock nut 84 950 ... EUR Y8		Stop screw 2 83 950 ... EUR Y8		Stop screw 1 83 950 ... EUR Y8	
426E (ER16)	36,25	011	28,99	001	M11x1 - SW6	14,50 341	M11x1 - SW6	10,23 337
430E (ER25)	39,37	013	32,09	003	M18x1,5 - SW6	16,38 432	M18x1,5 - SW6	11,76 431
470E (ER32)	41,44	015	34,14	005	M22x1,5 - SW6	16,38 402	M22x1,5 - SW6	11,76 401
472E (ER40)	55,93	017	46,61	007			M28x1,5 - SW6	10,66 400

ER Precision tapered collet chuck – Centro-P

- for special tapered nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	84 517 ... EUR Y8	
BT 40	1 - 10	100	24	72	28 - 48 (20 - 35)	426E (ER16)	4,5°	118,00	**410**
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)		151,10	**31000**
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4,5°	157,40	**510**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts for collet	Tapered lock nut IK 84 950 ... EUR Y8		Tapered lock nut 84 950 ... EUR Y8		Stop screw 2 83 950 ... EUR Y8		Stop screw 1 83 950 ... EUR Y8	
426E (ER16)	42,47	033	34,14	031	M11x1 - SW6	14,50 341	M11x1 - SW6	10,23 337

Accessories


ER collet
→ 256–263, 266


Sealing ring
→ 269


Roll key
→ 275


Roll key device
→ 275

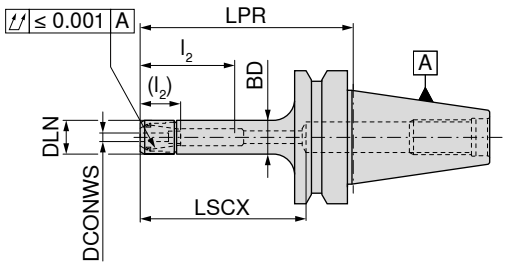

Pull studs
→ 111–112


Others
→ 273

ER Precision collet chuck, slim version – Centro-P

- for Mini Clamping Nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop






AD
G 2,5 n_{max} 25000


AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	84 507 ... EUR Y8		84 508 ... EUR Y8	
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)	108,80	**007**		
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	121,20	**008**		
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)			121,20	**307**
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)			121,20	**40600**
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)			160,60	**507**
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)			179,20	**90600**
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)			121,20	**216**
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)			121,20	**316**
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)			160,60	**416**
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)			179,20	**516**

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer


Mini lock nut IK


Mini lock nut

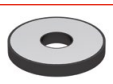

Stop screw 2


Stop screw 1

Spare parts for collet	84 950 ... EUR Y8		84 950 ... EUR Y8		83 950 ...	EUR Y8		83 950 ...	EUR Y8	
4008E (ER11)			34,14	**041**	M8x1 - SW4	13,94	**340**	M8x1 - SW4	10,23	**336**
426E (ER16)	42,46	**035**	34,14	**034**	M11x1 - SW6	14,50	**341**	M11x1 - SW6	10,23	**337**

Accessories


ER collet
→ 256–263, 266


Sealing ring
→ 269


Device
→ 274


Roll key
→ 275


Roll key device
→ 275


Pull studs
→ 111–112

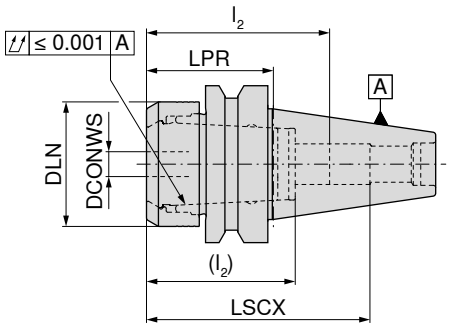

Others
→ 273

16

OZ Precision Collet Chuck – Centro-P

- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	84 513 ... EUR Y8	
BT 40	2 - 25	51	50	89	70 (56)	462E	114,00	**225**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer


Lock nut IK


Lock nut


Stop screw 2


Stop screw 1

Spare parts for collet	84 950 ... EUR Y8		84 950 ... EUR Y8		83 950 ... EUR Y8		83 950 ... EUR Y8	
462E	43,49	**020**	36,25	**009**	M22x1,5 - SW6	16,38 **402**	M22x1,5 - SW6	11,76 **401**

Accessories


OZ Collet
→ 267


Sealing ring
→ 267


Roll key
→ 275


Roll key device
→ 275

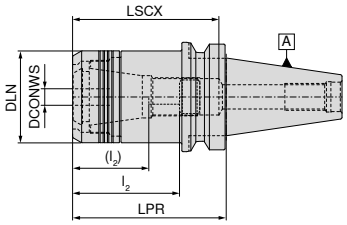

Pull studs
→ 111–112


Others
→ 273

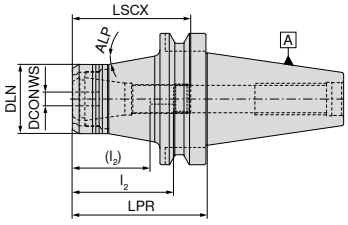
ER precision collet chuck – HDC

- HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- For heavy duty lock nut
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Base body **including** lock nut, **without** backstop screw



cylindrical



Conical



NEW



AD
G 6,3 n_{max} 18000
cylindrical

NEW



AD
G 6,3 n_{max} 18000
conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8		84 400 ... EUR Y8	
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	174,10	**12069**		
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	181,30	**22069**		
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)			269,90	**12068**
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)			315,20	**22068**

LSCX = Clamping depth without backstop screw
l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2



Lock nut



Stop screw 2



Stop screw 1

Spare parts DCONWS	84 950 ... EUR Y8			83 950 ... EUR Y8			83 950 ... EUR Y8	
2 - 20	54,59	**30100**	M22x1,5 - SW6	16,38	**402**	M22x1,5 - SW6	11,76	**401**

Accessories



ER collet
→ 256–266



Roll key
→ 275



Roll key device
→ 275



Pull studs
→ 111–112



Others
→ 273

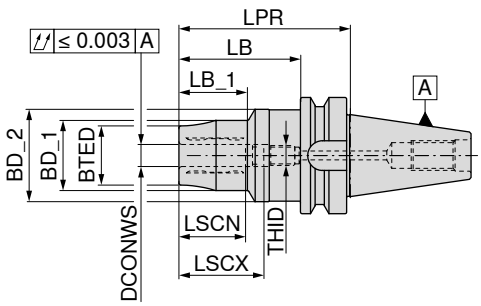
16

High pressure chuck, short version

▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







AD/B

G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID	83 526 ... EUR Y8	
short	BT 40	16	95	36	42	50	42	49	39	71	M12x1	427,70	116
	BT 40	20	100	42	48	50	45	51	41	76	M16x1	381,20	120
	BT 40	25	110	51	57	50	60	57	47	91	M16x1	427,70	125
	BT 40	32	120	57	63	50	65	61	51	101	M16x1	427,70	132

→ Min. clamping depth, Page 300


Cylindrical screw


Clamping key – T


Pressure screw


Stop screw IK

Spare parts for Article no.	83 950 ...	EUR Y7		80 397 ...	EUR Y7		83 950 ...	EUR Y7		83 950 ...	EUR Y7	
83 526 116	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x14	4,41	429	M12x1x18	7,37	446
83 526 120	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x18,5	8,12	448
83 526 125	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x22	12,85	449
83 526 132	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x14	4,41	429	M16x1x25	15,99	450

Accessories


Reduction sleeve
→ 271


Pull studs
→ 57–58

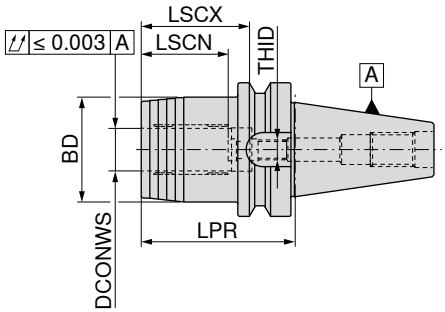

Others
→ 273

High pressure chuck, short and stable version

- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID	83 513 ... EUR Y8	
BT 40	20	72,5	49	51	40	M16x1x13,5	248,40	**120**

→ Min. clamping depth, Page 300


Cylindrical screw


Clamping key – T


Pressure screw


Stop screw IK

Spare parts for Article no.		83 950 ... EUR Y7			80 397 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
83 513 120	M5x5 - SW2,5	1,91	**157**	SW5	4,37	**050**	M10x1x14	4,41	**429**	M16x1x13,5 - SW8	9,62	**424**

Accessories


Reduction sleeve
→ 271


Pull studs
→ 111–112

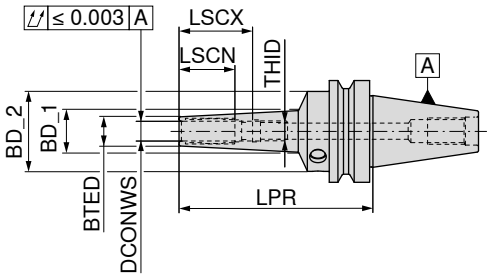

Others
→ 273

High pressure chuck, slim 3°

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw, pressure screw and screw plug







AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	83 522 ... EUR Y8	
long	BT40	3	120	9	16,55	49,5	28	12	M3	440,70	103
	BT40	4	120	10	17,55	49,5	28	16	M3	440,70	104
	BT40	5	120	11	18,55	49,5	28	20	M3	440,70	105
	BT40	6	120	12	19,55	49,5	37	27	M5	375,90	106
	BT40	8	120	14	21,55	49,5	37	27	M6	375,90	108
	BT40	10	120	16	23,65	49,5	41	31	M8x1	375,90	110
	BT40	12	120	18	25,76	49,5	46	36	M10x1	375,90	112
	BT40	16	120	24	31,45	49,5	49	39	M12x1	603,70	116
	BT40	20	120	28	35,55	49,5	51	41	M16x1	603,70	120
	BT40	6	160	16	33,53	49,5	37	27	M5	566,00	206
	BT40	8	160	18	34,60	49,5	37	27	M6	566,00	208
	BT40	10	160	20	36,27	49,5	41	31	M8x1	566,00	210
	BT40	12	160	22	37,88	49,5	46	36	M10x1	566,00	212
	BT40	6	200	16	37,88	49,5	37	27	M5	636,10	306
	BT40	8	200	18	38,90	49,5	37	27	M6	636,10	308
	BT40	10	200	20	40,57	49,5	41	31	M8x1	636,10	310
	BT40	12	200	22	42,18	49,5	46	36	M10x1	636,10	312

→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key – T



Pressure screw



Stop screw IK

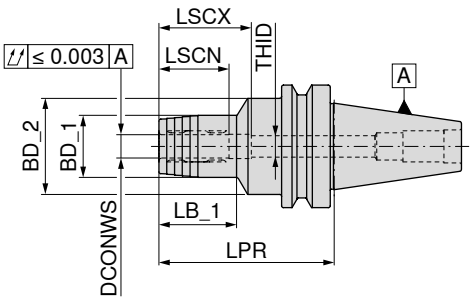
Spare parts for Article no.	83 950 ...	EUR Y7		80 397 ...	EUR Y7		83 950 ...	EUR Y7		83 950 ...	EUR Y7	
83 522 103	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 522 104	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 522 105	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
83 522 106	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 522 108	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 522 110	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 522 112	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421
83 522 116	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M12x1x13,5 - SW5	8,35	422
83 522 120	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M16x1x13,5 - SW8	9,62	424
83 522 206	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 522 208	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 522 210	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 522 212	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421
83 522 306	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
83 522 308	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
83 522 310	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
83 522 312	M5x5 - SW2,5	1,91	157	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421

Hydraulic chuck MAS BT, short and slim version

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	83 521 ... EUR Y8	
BT 40	6	90	26	49,5	37	27	29	M5	379,10	**106**
BT 40	8	90	28	49,5	37	27	30	M6	379,10	**108**
BT 40	10	90	30	49,5	41	31	35	M8x1	379,10	**110**
BT 40	12	90	32	49,5	46	36	40	M10x1	329,40	**112**
BT 40	16	90	38	49,5	49	39	45	M12x1	379,10	**116**
BT 40	20	90	42	49,5	51	41	47	M16x1	329,40	**120**
BT 40	25	90	55	52,0	57	47	50	M16x1	379,10	**125**
BT 40	32	90	63	62,0	61	51	48	M16x1	379,10	**132**
BT 50	6	90	26	49,5	37	27	29	M5	530,20	**306**
BT 50	8	90	28	49,5	37	27	30	M6	530,20	**308**
BT 50	10	90	30	49,5	41	31	34	M8x1	530,20	**310**
BT 50	12	90	32	49,5	46	36	34	M10x1	480,70	**312**
BT 50	16	90	38	49,5	49	39	35	M12x1	530,20	**316**
BT 50	20	90	42	49,5	51	41	35	M16x1	480,70	**320**
BT 50	25	110	55	63,0	57	47	48	M16x1	530,20	**325**
BT 50	32	110	63	70,0	61	51	50	M16x1	530,20	**332**

→ Min. clamping depth, Page 300


Pressure screw


Stop screw IK


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
6	M8x1x10	5,64	**439**				M5x12,5 - SW2,5	8,35	**418**
8	M8x1x10	5,64	**439**	M6x14 - SW2	8,35	**417**	M6x12,5 - SW3	8,35	**419**
10	M10x1x12	5,64	**440**				M8x1x13,5 - SW3	8,35	**420**
12	M10x1x12	5,64	**440**				M10x1x13,5 - SW5	8,35	**421**
16	M10x1x12	5,64	**440**				M12x1x13,5 - SW5	8,35	**422**
20 - 32	M10x1x12	5,64	**440**				M16x1x13,5 - SW8	9,62	**424**

Accessories


Reduction sleeve
→ 271


Pull studs
→ 111–112

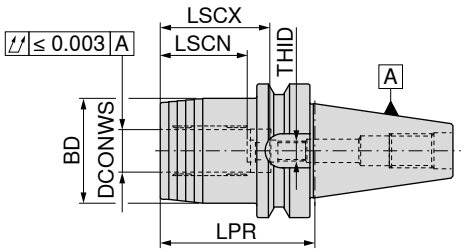

Others
→ 273

Hydraulic chuck MAS BT, short and stable version

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







AD/B
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID		83 518 ... EUR Y8	
BT 40	20	72,5	49,5	51	41	M16x1		211,70	**120**
BT 50	32	90,0	72,0	61	51	M16x1		265,70	**332**

→ Min. clamping depth, Page 300



Pressure screw



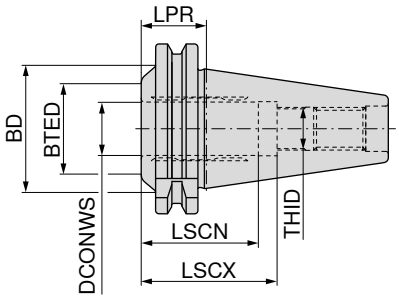
Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7	
20 - 32	M10x1x12	5,64	**440**	M16x1x13,5 - SW8	9,62	**424**

Hydraulic chuck, extra short

- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:
Base body with backstop screw and pressure screw







AD
G 2,5 n_{max} 25000

83 523 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
BT 40	20	32,5	34	48	51	41	M16x1	304,60	**120**

→ Min. clamping depth, Page 300



Stop screw IK

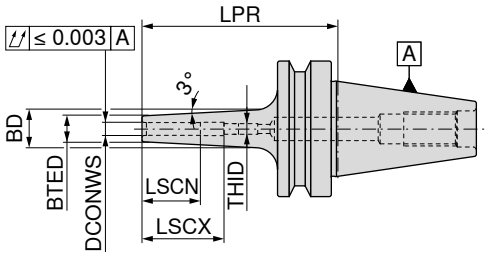
83 950 ...

Spare parts for Article no.	EUR Y7	
83 523 120	9,62	**424**

Shrink adapter, Slim 3°

- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 323 ... EUR Y8	
short	BT 40	3	90	9	15	28	12	M6	165,20	103
	BT 40	4	90	10	16	28	16	M6	160,90	104
	BT 40	5	90	11	17	30	20	M6	160,90	105
	BT 40	6	90	12	18	36	26	M5	142,60	106
	BT 40	8	90	14	20	36	26	M6	142,60	108
	BT 40	10	90	16	22	41	31	M8x1	142,60	110
	BT 40	12	90	18	24	47	37	M10x1	142,60	112
	BT 40	14	90	20	26	47	37	M10x1	142,60	114
	BT 40	16	90	22	28	50	40	M12x1	142,60	116
	BT 40	18	90	24	30	50	40	M12x1	142,60	118
	BT 40	20	90	26	32	52	42	M16x1	142,60	120
long	BT 40	3	120	9	16	12	12		184,80	203
	BT 40	4	120	10	17	16	16		181,50	204
	BT 40	5	120	11	18	20	20		181,50	205
	BT 40	6	120	12	21	36	26	M5	162,00	206
	BT 40	8	120	14	23	36	26	M6	162,00	208
	BT 40	10	120	16	25	41	31	M8x1	162,00	210
	BT 40	12	120	18	27	47	37	M10x1	162,00	212
	BT 40	14	120	20	29	47	37	M10x1	162,00	214
	BT 40	16	120	22	31	50	40	M12x1	162,00	216
	BT 40	18	120	24	33	50	40	M12x1	162,00	218
	BT 40	20	120	26	35	52	42	M16x1	162,00	220
extra-long	BT 40	3	160	9	19	12	12		208,50	303
	BT 40	4	160	10	20	16	16		204,20	304
	BT 40	5	160	11	21	20	20		204,20	305
	BT 40	6	160	12	24	36	26	M5	185,80	306
	BT 40	8	160	14	26	36	26	M6	185,80	308
	BT 40	10	160	16	28	41	31	M8x1	185,80	310
	BT 40	12	160	18	30	47	37	M10x1	185,80	312
	BT 40	14	160	20	32	47	37	M10x1	185,80	314
	BT 40	16	160	22	34	50	40	M12x1	185,80	316
	BT 40	18	160	24	36	50	40	M12x1	185,80	318
	BT 40	20	160	26	38	52	42	M16x1	185,80	320

→ Min. clamping depth, Page 300



Stop screw IK



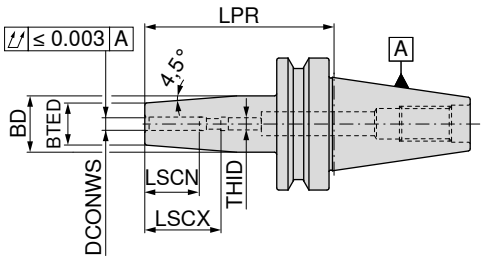
Stop screw IK

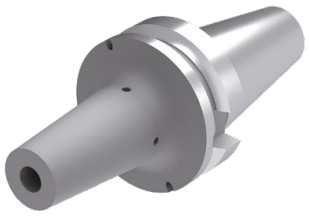
Spare parts DCONWS		83 950 ... EUR Y7		83 950 ... EUR Y7	
3 - 5	M6x14 - SW2	8,35	417		
6				M5x12,5 - SW2,5	8,35 418
8				M6x12,5 - SW3	8,35 419
10				M8x1x13,5 - SW3	8,35 420
12 - 14				M10x1x13,5 - SW5	8,35 421
16 - 18				M12x1x13,5 - SW5	8,35 422
20				M16x1x13,5 - SW8	9,62 424

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD
G 2,5 n_{max} 25000



AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 303 ... EUR Y8		84 303 ... EUR Y8	
short	BT 30	3	85	10	17	28	12	M6	166,40	003		
	BT 30	4	85	15	22	28	16	M6	160,90	004		
	BT 30	5	85	15	22	30	20	M6	160,90	005		
	BT 30	6	85	21	27	36	26	M5	142,60	006		
	BT 30	8	85	21	27	36	26	M6	142,60	008		
	BT 30	10	85	24	32	41	31	M8x1	142,60	010		
	BT 30	12	85	24	32	47	37	M10x1	142,60	012		
	BT 30	14	85	27	34	47	37	M10x1	142,60	014		
	BT 30	16	85	27	34	50	40	M12x1	142,60	016		
	BT 30	18	85	33	42	50	40	M12x1	142,60	018		
	BT 30	20	85	33	42	52	42	M16x1	142,60	020		
	BT 40	3	90	10	17	28	12	M6			146,90	103
	BT 40	4	90	15	22	28	16	M6			141,50	104
	BT 40	5	90	15	22	30	20	M6			141,50	105
	BT 40	6	90	21	27	36	26	M5			126,40	106
	BT 40	8	90	21	27	36	26	M6			126,40	108
	BT 40	10	90	24	32	41	31	M8x1			126,40	110
	BT 40	12	90	24	32	47	37	M10x1			126,40	112
	BT 40	14	90	27	34	47	37	M10x1			126,40	114
	BT 40	16	90	27	34	50	40	M12x1			126,40	116
	BT 40	18	90	33	42	50	40	M12x1			126,40	118
	BT 40	20	90	33	42	52	42	M16x1			126,40	120
	BT 40	25	100	44	53	58	48	M16x1			126,40	125
long	BT 40	3	120	10	20	12	12				163,20	203
	BT 40	4	120	15	22	16	16				159,90	204
	BT 40	5	120	15	22	20	20				159,90	205
	BT 40	6	120	21	27	36	26	M5			141,50	206
	BT 40	8	120	21	27	36	26	M6			141,50	208
	BT 40	10	120	24	32	41	31	M8x1			141,50	210
	BT 40	12	120	24	32	47	37	M10x1			141,50	212
	BT 40	14	120	27	34	47	37	M10x1			141,50	214
	BT 40	16	120	27	34	50	40	M12x1			141,50	216
	BT 40	18	120	33	42	50	40	M12x1			141,50	218
	BT 40	20	120	33	42	52	42	M16x1			141,50	220
	BT 40	25	120	44	53	58	48	M16x1			141,50	225
extra-long	BT 40	3	160	10	20	12	12				185,80	303
	BT 40	4	160	15	22	16	16				181,50	304
	BT 40	5	160	15	22	20	20				181,50	305
	BT 40	6	160	21	27	36	26	M5			164,20	306
	BT 40	8	160	21	27	36	26	M6			164,20	308
	BT 40	10	160	24	32	41	31	M8x1			164,20	310
	BT 40	12	160	24	32	47	37	M10x1			164,20	312
	BT 40	14	160	27	34	47	37	M10x1			164,20	314
	BT 40	16	160	27	34	50	40	M12x1			164,20	316
	BT 40	18	160	33	42	50	40	M12x1			164,20	318
	BT 40	20	160	33	42	52	42	M16x1			164,20	320
	BT 40	25	160	44	53	58	48	M16x1			164,20	325

→ Min. clamping depth, Page 300

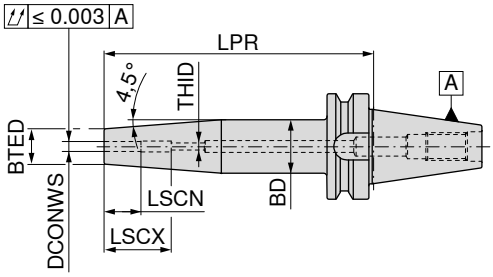
Spare parts heat shrink adapter 4.5°

		 Stop screw IK				 Stop screw IK	
		83 950 ...				**83 950 ...**	
Spare parts DCONWS		**EUR** Y7				**EUR** Y7	
3 - 5	M6x14 - SW2	8,35	**417**				
6				M5x12,5 - SW2,5	8,35	**418**	
8				M6x12,5 - SW3	8,35	**419**	
10				M8x1x13,5 - SW3	8,35	**420**	
12 - 14				M10x1x13,5 - SW5	8,35	**421**	
16 - 18				M12x1x13,5 - SW5	8,35	**422**	
20 - 25				M16x1x13,5 - SW8	9,62	**424**	

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG







AD/B
G 2,5 n_{max} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	BT 40	3	90	11	15				131,70	10369
	BT 40	4	90	11	15				126,40	10469
	BT 40	5	90	11	15				126,40	10569
	BT 40	6	90	21	27	36	26	M5	113,40	10669
	BT 40	8	90	21	27	36	26	M6	113,40	10869
	BT 40	10	90	24	34	41	31	M8x1	113,40	11069
	BT 40	12	90	24	34	46	36	M10x1	113,40	11269
	BT 40	14	90	27	34	46	36	M10x1	113,40	11469
	BT 40	16	90	27	34	49	39	M12x1	113,40	11669
	BT 40	18	90	33	42	49	39	M12x1	113,40	11869
	BT 40	20	90	33	42	51	41	M16x1	113,40	12069
	BT 40	25	100	44	53	57	47	M16x1	113,40	12569
	BT 50	6	100	21	27	36	26	M5	144,80	10668
	BT 50	8	100	21	27	36	26	M6	144,80	10868
	BT 50	10	100	24	32	41	31	M8x1	144,80	11068
	BT 50	12	100	24	32	47	37	M10x1	144,80	11268
	BT 50	14	100	27	34	47	37	M10x1	144,80	11468
	BT 50	16	100	27	34	50	40	M12x1	144,80	11668
	BT 50	18	100	33	42	50	40	M12x1	144,80	11868
	BT 50	20	100	33	42	52	42	M16x1	144,80	12068
	BT 50	25	100	44	53	58	48	M16x1	144,80	12568
	BT 50	32	100	44	53	62	52	M16x1	144,80	13268
long	BT 50	6	120	21	27	36	26	M5	159,00	20668
	BT 50	8	120	21	27	36	26	M6	159,00	20868
	BT 50	10	120	24	32	41	31	M8x1	159,00	21068
	BT 50	12	120	24	32	47	37	M10x1	159,00	21268
	BT 50	14	120	27	34	47	37	M10x1	159,00	21468
	BT 50	16	120	27	34	50	40	M12x1	159,00	21668
	BT 50	18	120	33	42	50	40	M12x1	159,00	21868
	BT 50	20	120	33	42	52	42	M16x1	159,00	22068
	BT 50	25	120	44	53	58	48	M16x1	159,00	22568
	BT 50	32	120	44	53	62	52	M16x1	159,00	23268

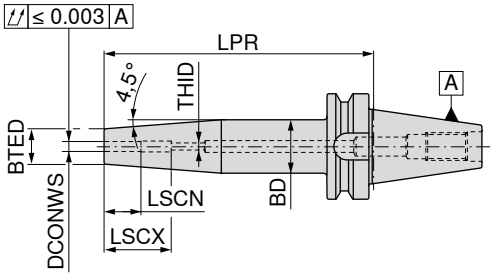
→ Min. clamping depth, Page 300

16

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







AD/B
G 2,5 n_{max} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
extra-long	BT 40	6	160	21	27	36	26	M5	146,90	30669
	BT 40	8	160	21	27	36	26	M6	146,90	30869
	BT 40	10	160	24	34	41	31	M8x1	146,90	31069
	BT 40	12	160	24	34	46	36	M10x1	146,90	31269
	BT 40	14	160	27	34	46	36	M10x1	146,90	31469
	BT 40	16	160	27	34	49	39	M12x1	146,90	31669
	BT 40	18	160	33	42	49	39	M12x1	146,90	31869
	BT 40	20	160	33	42	51	41	M16x1	146,90	32069
	BT 40	25	160	44	53	57	47	M16x1	146,90	32569
	BT 50	6	160	21	27	36	26	M5	176,70	30668
	BT 50	8	160	21	27	36	26	M6	176,70	30868
	BT 50	10	160	24	32	41	31	M8x1	176,70	31068
	BT 50	12	160	24	32	47	37	M10x1	176,70	31268
	BT 50	14	160	27	34	47	37	M10x1	176,70	31468
	BT 50	16	160	27	34	50	40	M12x1	176,70	31668
	BT 50	18	160	33	42	50	40	M12x1	176,70	31868
	BT 50	20	160	33	42	52	42	M16x1	176,70	32068
	BT 50	25	160	44	53	58	48	M16x1	176,70	32568
	BT 50	32	160	44	53	62	52	M16x1	176,70	33268

→ Min. clamping depth, Page 300



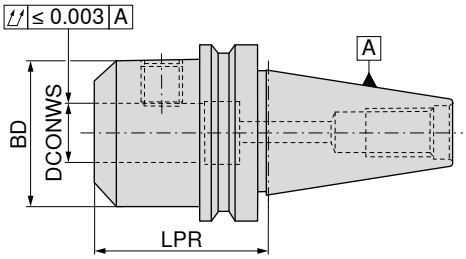
Stop screw IK

82 950 ...

Spare parts DCONWS		EUR Y8	
6	M5x16 - SW2,5	2,17	30000
8	M6x16 - SW3	2,32	30100
10	M8x1x16 - SW4	2,46	30200
12 - 14	M10x1x14 - SW5	2,61	30300
16 - 18	M12x1x16 - SW6	2,75	30400
20 - 32	M16x1x16 - SW8	2,89	30500

Cylindrical shank adapter (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**






AD
G 2,5 n_{max} 18000


ADe
G 6,3 n_{max} 8000

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	82 501 ... EUR Y8		82 503 ... EUR Y8	
short	BT 30	6	50	25	84,68	00600		
	BT 30	8	50	28	77,12	00800		
	BT 30	10	50	35	77,12	01000		
	BT 30	12	55	42	77,12	01200		
	BT 30	14	55	44	77,12	01400		
	BT 30	16	63	48	77,12	01600		
	BT 30	18	63	50	77,12	01800		
	BT 30	20	63	52	92,34	02000		
extra short	BT 40	16	35	48	45,54	416	67,35	416
	BT 40	20	35	50	45,54	420	67,35	420
	BT 40	25	40	50	49,78	425	72,54	425
	BT 40	32	75	72	62,91	43200	89,74	432


Grubscrew

Spare parts DCONWS $_{H4}$		62 950 ... EUR W7	
6	M6x10	0,68	006
8	M8x10	0,79	008
10	M10x12	1,05	010
12 - 14	M12x16	1,06	012
16 - 18	M14x16	1,32	016
20	M16x16	1,60	020
25	M18x2x20	2,93	025
32	M20x2x20	3,24	032

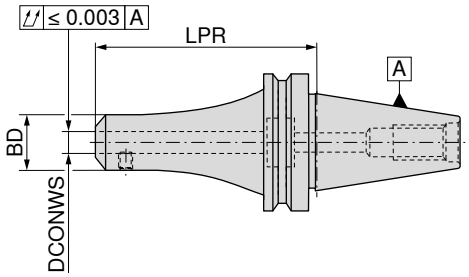
Accessories


Pull studs
→ 111–112


Others
→ 273

Cylindrical shank adapter (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**







AD/B
G 2,5 n_{max} 18000

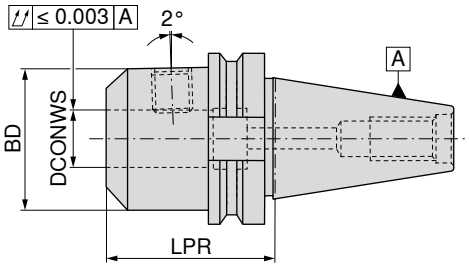


AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	82 501 ... EUR Y8		82 504 ... EUR Y8	
short	BT 40	6	50	25	42,14	106	59,51	106
	BT 40	8	50	28	42,14	108	59,51	108
	BT 40	10	63	35	39,77	110	57,06	110
	BT 40	12	63	42	39,77	112	57,06	112
	BT 40	14	63	44	39,77	114	57,06	114
	BT 40	16	63	48	43,07	116	64,99	116
	BT 40	18	63	50	43,07	118	64,99	118
	BT 40	20	63	52	43,07	120	64,99	120
	BT 40	25	100	65	47,24	125	69,14	125
	BT 40	32	100	72	51,39	132	76,04	13200
	BT 40	40	120	90	56,21	14000		
	BT 50	6	63	25	57,25	30600	91,63	30600
	BT 50	8	63	28	57,25	30800	91,63	30800
	BT 50	10	80	35	55,64	31000	84,73	31000
	BT 50	12	80	42	59,04	31200	84,73	31200
	BT 50	14	80	44	59,04	31400	84,73	31400
	BT 50	16	80	48	59,04	31600	92,47	31600
	BT 50	18	80	50	59,04	31800	92,47	31800
	BT 50	20	80	52	59,04	32000	92,47	32000
	BT 50	25	100	65	65,65	32500	99,19	32500
	BT 50	32	105	72	66,98	33200	103,90	33200
	BT 50	40	120	90	69,43	34000		
long	BT 40	6	100	25	43,92	506		
	BT 40	8	100	28	43,92	508		
	BT 40	10	100	35	41,47	510		
	BT 40	12	100	42	41,47	512		
	BT 40	14	100	44	41,19	514		
	BT 40	16	100	48	45,54	516		
	BT 40	18	100	50	45,34	518		
	BT 40	20	100	52	45,54	520		
	BT 50	6	100	25	64,14	70600		
	BT 50	8	100	28	64,14	70800		
	BT 50	10	100	35	61,31	71000		
	BT 50	12	100	42	61,31	71200		
	BT 50	14	100	44	61,31	71400		
	BT 50	16	100	48	61,69	71600		
	BT 50	18	100	50	61,69	71800		
	BT 50	20	100	52	61,69	72000		
	BT 50	25	120	65	67,17	72500		
extra-long	BT 40	6	160	25	50,54	606		
	BT 40	8	160	28	50,54	608		
	BT 40	10	160	35	47,88	610		
	BT 40	12	160	42	47,88	612		
	BT 40	14	160	44	47,88	614		
	BT 40	16	160	48	48,08	616		
	BT 40	18	160	50	48,08	618		
	BT 40	20	160	52	48,08	620		
	BT 40	25	160	65	51,39	625		
	BT 50	6	160	25	78,40	80600		
	BT 50	8	160	28	78,40	80800		
	BT 50	10	160	35	78,50	81000		
	BT 50	12	160	35	78,50	81200		
	BT 50	14	160	44	78,50	81400		
	BT 50	16	160	48	78,12	81600		
	BT 50	18	160	50	78,12	81800		
	BT 50	20	160	52	78,12	82000		
	BT 50	25	160	65	78,68	82500		
	BT 50	32	160	72	78,50	83200		

Cylindrical Shank Adapter (Whistle Notch)

- For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- The groove in the flat face is a characteristic feature of the Whistle Notch version
- also available with Balluff chip **on request**







AD/B
G 2,5 n_{max} 18000

82 507 ...

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	EUR Y8	
short	BT 40	6	50	25	51,96	106
	BT 40	8	50	28	51,96	108
	BT 40	10	63	35	48,17	110
	BT 40	12	63	42	48,17	112
	BT 40	14	63	44	48,17	114
	BT 40	16	63	48	52,89	116
	BT 40	18	63	50	52,89	118
	BT 40	20	63	52	52,89	120
	BT 40	25	100	65	67,26	12500
	BT 40	32	100	72	73,29	13200
	BT 40	40	120	80	85,11	14000
	BT 50	6	63	25	88,69	30600
	BT 50	8	63	28	88,69	30800
	BT 50	10	80	35	84,73	31000
	BT 50	12	80	42	84,73	31200
	BT 50	14	80	44	84,73	31400
	BT 50	16	80	48	85,20	31600
	BT 50	18	80	50	85,20	31800
	BT 50	20	80	52	85,20	32000
	BT 50	25	100	65	92,98	32500
	BT 50	32	105	72	94,46	33200
medium length	BT 40	6	130	25	65,47	206
	BT 40	8	130	28	65,47	208
	BT 40	10	130	35	61,21	210
	BT 40	12	130	42	61,21	212
	BT 40	16	130	48	65,84	216
	BT 40	20	130	52	65,84	220
	BT 40	25	130	65	78,77	225
	BT 50	6	130	25	103,00	90600
	BT 50	8	130	28	103,00	90800
	BT 50	10	130	35	98,26	91000
	BT 50	12	130	42	98,26	91200
	BT 50	16	130	48	98,26	91600
	BT 50	20	130	52	98,26	92000
	BT 50	25	130	65	103,00	92500
	BT 50	32	130	72	103,90	93200

Spare parts cylindrical shank adapters (Weldon) and (Whistle Notch)

		 Grubscrew			 Stop screw IK	
		62 950 ...			**83 950 ...**	
Spare parts DCONWS		**EUR W7**			**EUR Y8**	
6	M6x10	0,68	**006**	M5x35	1,88	**033**
8	M8x10	0,79	**008**	M6x35	1,55	**034**
10	M10x12	1,05	**010**	M8x35	1,68	**035**
12 - 14	M12x16	1,06	**012**	M10x35	1,68	**036**
16 - 18	M14x16	1,32	**016**	M12x40	2,06	**037**
20	M16x16	1,60	**020**	M16x45	2,32	**272**
25	M18x2x20	2,93	**025**	M20x35	2,58	**290**
32	M20x2x20	3,24	**032**	M20x35	2,58	**290**
40	M20x2x20	3,24	**032**			

Accessories



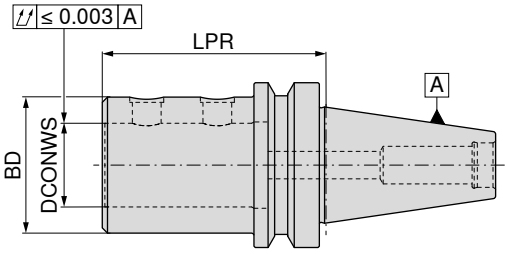
Pull studs
→ 111–112



Others
→ 273

Indexable insert drill adapter ISO 7388-2 MAS-BT

▲ also available with Balluff chip **on request**







AD/B
G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	BD mm	10 841 ... EUR 2E/45	
BT 40	20	75	40	133,20	**120**
BT 40	25	80	45	133,20	**125**
BT 40	32	85	52	133,20	**132**
BT 50	20	85	40	169,20	**220**
BT 50	25	90	45	169,20	**225**
BT 50	32	95	52	169,20	**232**
BT 50	40	105	65	169,20	**240**
BT 50	50	113	75	169,20	**250**

Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling.**



Grubscrew

Spare parts DCONWS		10 950 ... EUR 2A/28	
20	M10x1x10	3,96	**001**
25 - 32	M12x1x10	4,03	**002**
40 - 50	M16x1x12	4,03	**003**

Accessories



Pull studs
→ 111–112



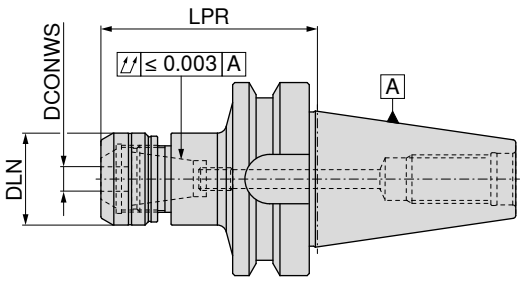
Others
→ 273

ER Precision Collet chuck – PCC

- For standard or sealing disc lock nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 100 bar
- also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw





NEW



AD/B
G 2,5 n_{max} 25000

82 700 ...

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	EUR Y8	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	92,45	**11069**
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	133,20	**21069**
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	92,45	**11669**
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	133,20	**21669**
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	92,45	**12069**
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	133,20	**22069**
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	174,20	**11668**
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	216,30	**21668**
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	174,20	**12068**
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	216,30	**22068**

Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut

	 Lock nut IK		 Lock nut			 Backstop screw PCC 2			 Backstop screw PCC 1	
	82 950 ...		**82 950 ...**			**82 950 ...**			**82 950 ...**	
Spare parts for collet	EUR Y8		EUR Y8			EUR Y8			EUR Y8	
426E (ER16)	35,14	**11000**	33,11	**01000**				M8X3,0	3,31	**00100**
430E (ER25)	35,14	**11600**	33,11	**01600**	M18x1,5	4,50	**00200**	M8x8	3,31	**00300**
470E (ER32)	35,14	**12000**	33,11	**02000**	M18x1,5	4,50	**00200**	M8x8	3,31	**00300**

Accessories



ER collet
→ 256–266



Sealing ring
→ 270

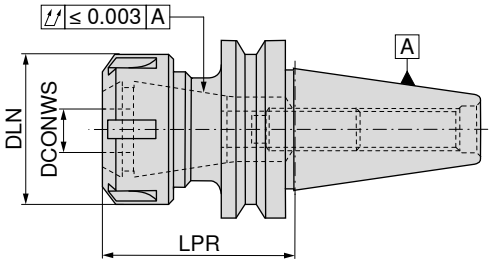


Roll key
→ 275

ER-Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:
Holder with lock nut and adjustable back stop






AD
G 2,5 n_{max} 18000


AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 509 ... EUR Y8		82 509 ... EUR Y8	
short	BT 30	1 - 10	70	32	56	426E (ER16)	87,37	01000		
	BT 30	1 - 16	70	42	104	430E (ER25)	87,37	01600		
	BT 30	2 - 20	70	50	136	470E (ER32)	87,37	02000		
	BT 40	1 - 10	60	32	56	426E (ER16)			58,84	110
	BT 40	1 - 16	70	42	104	430E (ER25)			61,50	116
	BT 40	2 - 20	70	50	136	470E (ER32)			61,69	120
	BT 40	3 - 26	70	63	176	472E (ER40)			64,14	126
	BT 50	1 - 10	75	32	56	426E (ER16)	78,59	31000		
	BT 50	1 - 16	75	42	104	430E (ER25)	70,95	31600		
	BT 50	2 - 20	75	50	136	470E (ER32)	74,62	32000		
	BT 50	4 - 26	75	63	176	472E (ER40)	76,14	32600		
long	BT 30	1 - 10	100	32	56	426E (ER16)	122,10	21000		
	BT 30	1 - 16	100	42	104	430E (ER25)	122,10	21600		
	BT 40	1 - 10	120	32	56	426E (ER16)			64,52	410
	BT 40	1 - 16	120	42	104	430E (ER25)			67,17	416
	BT 40	2 - 20	120	50	136	470E (ER32)			67,35	420
	BT 40	3 - 26	100	63	176	472E (ER40)			83,80	42600
	BT 50	1 - 10	100	32	56	426E (ER16)	87,76	71000		
	BT 50	1 - 16	100	42	104	430E (ER25)	72,64	71600		
	BT 50	2 - 20	100	50	136	470E (ER32)	77,73	72000		
	BT 50	3 - 26	100	63	176	472E (ER40)	82,00	72600		
extra-long	BT 40	1 - 10	160	32	56	426E (ER16)			90,29	51000
	BT 40	1 - 16	160	42	104	430E (ER25)			89,42	51600
	BT 40	2 - 20	160	50	136	470E (ER32)			89,42	52000
	BT 40	3 - 26	160	63	176	472E (ER40)			94,50	52600
	BT 50	1 - 16	160	42	104	430E (ER25)	80,48	81600		
	BT 50	2 - 20	160	50	136	470E (ER32)	88,69	82000		


Lock nut IK


Lock nut

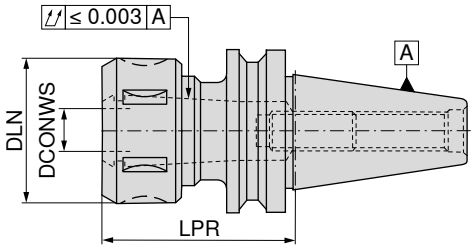

Y clamping key


Stop screw IK

Spare parts for collet	83 950 ... EUR Y8		62 950 ... EUR W7		83 357 ... EUR Y8		83 950 ... EUR Y8	
426E (ER16) / BT30-BT50	31,54	054	18,35	054	16,52	116		
430E (ER25) / BT30	35,76	055	20,52	055	18,25	125	2,06	010
430E (ER25) / BT40, BT50	35,76	055	20,52	055	18,25	125	2,06	010
470E (ER32) / BT30	38,06	056	19,12	056	24,84	132	2,06	010
470E (ER32) / BT40, BT50	38,06	056	19,12	056	24,84	132	2,06	010
472E (ER40) / BT30-BT50	44,88	057	18,58	057	27,33	140	2,32	011

OZ-Collet chuck

- Clamping nut with ball bearings
- also available with Balluff chip **on request**






AD
G 2,5 n_{max} 18000


AD/B
G 2,5 n_{max} 18000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	82 512 ... EUR Y8		82 512 ... EUR Y8	
short	BT 30	2 - 16	60	43	24 - 104	415E / 421E	92,45	02500		
	BT 30	2 - 25	80	60	24 - 176	459E / 462E	97,20	03500		
	BT 40	2 - 16	70	43	80 - 90	415E / 421E			73,68	116
	BT 40	2 - 25	70	60	90 - 100	459E / 462E			76,99	125
	BT 50	2 - 25	90	60	90 - 100	459E / 462E	91,35	32500		
	BT 50	4 - 32	100	72	110 - 120	460E / 467E	95,39	33200		
long	BT 40	2 - 16	120	43	80 - 90	415E / 421E			78,31	416
	BT 40	2 - 25	120	60	90 - 100	459E / 462E			81,43	425
	BT 50	2 - 25	120	60	90 - 100	459E / 462E	94,46	72500		
	BT 50	4 - 32	120	72	110 - 120	460E / 467E	103,90	73200		


Lock nut


Hook clamping key


Stop screw IK

Spare parts for collet		62 950 ... EUR W7		83 354 ... EUR Y8		83 950 ... EUR Y8	
415E / 421E	M33x1,5	32,51	050	8,08	116	M10x50	2,06	010
459E / 462E	M48x2	35,75	051	11,01	125	M10x50	2,06	010
460E / 467E	M60x2,5	44,71	052	12,32	132	M12x50	2,32	011

Accessories


OZ Collet
→ 268

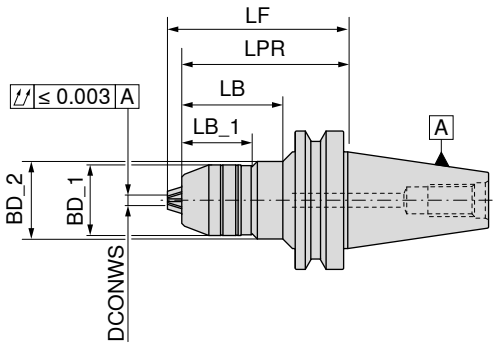

Pull studs
→ 111–112


Others
→ 273

Short drill chuck – NC 2010

- Independent of direction of rotation
- Torque Moment = 12 Nm
- also available with Balluff chip **on request**

Scope of supply:
Toolholder including clamping key SW4






A
G 6,3 n_{max} 10000


AD
G 6,3 n_{max} 10000


AD/B
G 6,3 n_{max} 10000

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	84 509 ... EUR Y8		84 510 ... EUR Y8		84 511 ... EUR Y8	
BT 40	0,5 - 13	48,5		50,9		80	89,0	222,50	**413**	225,80	**413**		
BT 40	0,5 - 13	48,5		50,9		90	99,0					256,00	**413**
BT 40	2,5 - 16	51,0		50,9		80	90,5	227,80	**416**	245,10	**416**		
BT 50	2,5 - 16	51,0	56	50,9	73	120	130,5	302,40	**516**	325,10	**516**		

Accessories

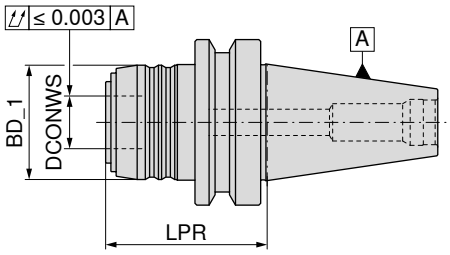

Pull studs
→ 111–112


Others
→ 273

Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Synchro tapping chuck with minimum length compensation

- For collets according to DIN 6499
- With length compensation under tension 1,0 mm and under compression 0,2 mm (LZD)
- p_{max} = 50 bar
- for synchro use
- also available with Balluff chip **on request**







AD

83 515 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	EUR Y8	
BT 40	M3 - M12	1	61	43	20	1,0 / 0,2	166,40	**012**
BT 40	M6 - M20	2	82	60	32	1,0 / 0,2	216,00	**020**
BT 50	M3 - M12	1	72	43	20	1,0 / 0,2	180,40	**112**
BT 50	M6 - M20	2	93	60	32	1,0 / 0,2	277,60	**120**

Accessories



Pull studs
→ 111–112

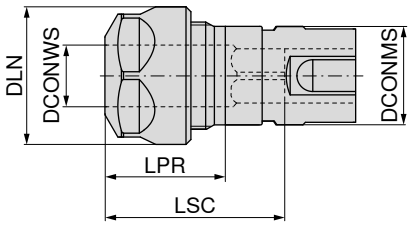


Others
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- SZID = for insert size

Scope of supply:
Includes lock nut







83 608 ...

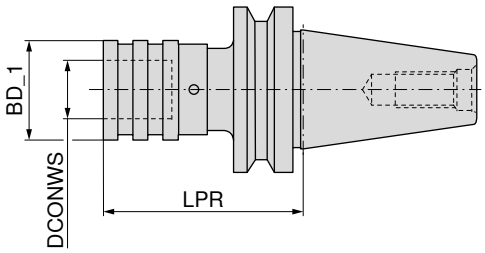
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	**012**
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	**020**

Spare parts for synchronous tapping chucks

		 Lock nut			 Lock nut IK			 Lock nut			 Y clamping key	
		62 950 ...			**83 950 ...**			**62 950 ...**			**83 357 ...**	
Spare parts for Article no.		**EUR** W7			**EUR** Y8			**EUR** W7			**EUR** Y8	
83 608 012	M22x1,5 - SW25	18,35	**044**	M22x1,5	31,54	**054**					16,52	**116**
83 608 020				M32x1,5	35,76	**055**	M32x1,5	20,52	**055**		18,25	**125**

Quick change tap chuck with length compensation

- With length compensation under tension and compression (LZD)
- also available with Balluff chip **on request**







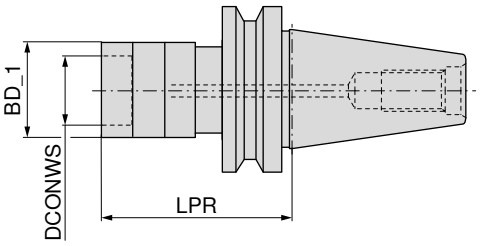
A

83 528 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	EUR Y8	
BT 30	M3 - M12	01	63	38	19	9	231,10	**312**
BT 30	M6 - M20	02	96	55	31	15	293,80	**320**
BT 40	M3 - M12	01	68	38	19	9	184,80	**412**
BT 40	M6 - M20	02	93	55	31	15	195,50	**420**
BT 50	M3 - M12	01	80	38	19	9	312,10	**512**
BT 50	M6 - M20	02	102	55	31	15	359,60	**520**

Quick change tap chuck without length compensation

- Without length compensation under tension and compression (LZD)
- also available with Balluff chip **on request**







AD

83 525 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	EUR Y8	
BT 40	M3 - M12	01	67	33	19	168,50	**412**
BT 40	M6 - M20	02	90	50	31	174,00	**420**
BT 50	M3 - M12	01	78	33	19	225,80	**512**
BT 50	M6 - M20	02	101	50	31	225,80	**520**

Accessories





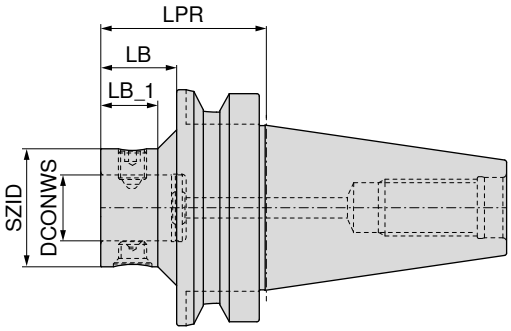
Collet → 277–281
Pull studs → 111–112
Others → 273

Adapter with ABS Connection

▲ also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc





NEW



AD

NEW



AD/B

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 202 ... EUR 3E		84 212 ... EUR 3E	
BT 40	A55 00120	ABS 25	13	60	33	25	210,00	**04090**		
BT 40	A55 00130	ABS 32	16	60	33		210,00	**04089**		
BT 40	A55 00140	ABS 40	20	60	33		210,00	**04088**		
BT 40	A55 00150	ABS 50	28	60	33		210,00	**04097**		
BT 40	A55 55150	ABS 50	28	60	33				210,00	**04097**
BT 40	A55 00160	ABS 63	34	70			210,00	**04096**		
BT 40	A55 55160	ABS 63	34	70					210,00	**04096**
BT 50	A55 00330	ABS 32	16	70	32	24	236,80	**05089**		
BT 50	A55 00340	ABS 40	20	70	32	24	236,80	**05088**		
BT 50	A55 00350	ABS 50	28	70	32	24	236,80	**05097**		
BT 50	A55 55350	ABS 50	28	70	32	24			236,80	**05097**
BT 50	A55 55360	ABS 63	34	80	42	37			236,80	**05096**
BT 50	A55 00360	ABS 63	34	80	42	37	236,80	**05096**		
BT 50	A55 55370	ABS 80	46	100	62				236,80	**05092**
BT 50	A55 00370	ABS 80	46	100	62		236,80	**05092**		
BT 50	A55 55380	ABS 100	56	110					236,80	**05091**
BT 50	A55 00380	ABS 100	56	110			236,80	**05091**		

Conversion kit – Cooling agent supply



for		84 950 ... EUR W7	
4 mm	SK 40	5,13	**23200**
6 mm	SK 50	5,13	**23400**

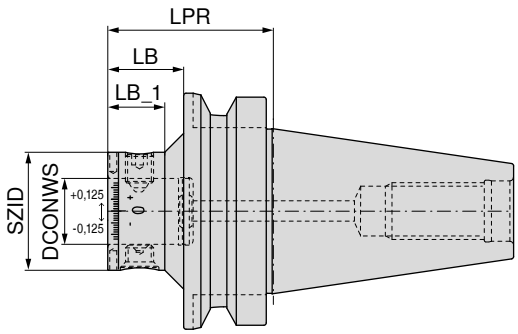
16

Eccentric adjuster with ABS Connection

- Adjustment ± 0.25 mm on diameter
- also available with Balluff chip **on request**

Scope of supply:

Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc





NEW



AD

NEW



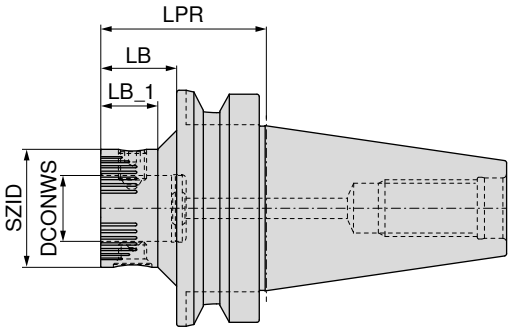
AD/B

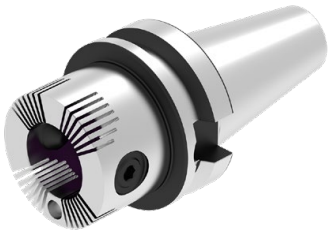
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 205 ... EUR W4		84 205 ... EUR W4	
BT 40	A55 56150	ABS 50	28	60	33				422,50	**04097**
BT 40	A55 56160	ABS 63	34	70			422,50	**04096**		
BT 50	A55 56350	ABS 50	28	70	32	24			450,10	**05097**
BT 50	A55 56360	ABS 63	34	80	42	37	450,10	**05096**		

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip **on request**

Scope of supply:
Steep taper adapter (Form B) with conversion kit (Form AD) and sealing disc





NEW



AD/B

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 208 ... EUR 3E	
BT 40	A55 02150	ABS 50	28	60	33		612,80	**04097**
BT 40	A55 02160	ABS 63	34	70			608,00	**04096**
BT 50	A55 02350	ABS 50	28	70	32	24	676,30	**05097**
BT 50	A55 02360	ABS 63	34	80	42	37	734,90	**05096**



Clamping screw



Set



Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 50	12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63	14,11	**25500**	31,57	**99400**	17,61	**27300**

Accessories



Pull studs
→ 111–112



Extension
→ 193

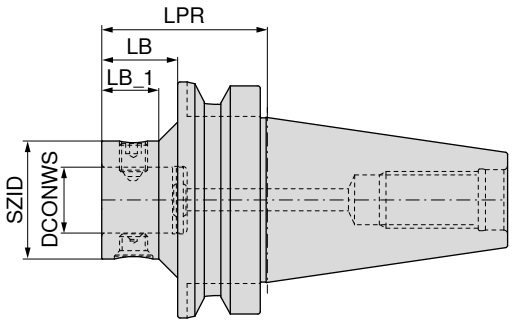


Others
→ 273

16

Adapter with ABS Connection – BT-FC

- with face contact
- also available with Balluff chip **on request**





NEW



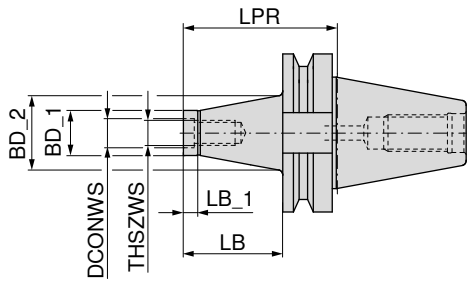
AD

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	84 214 ... EUR 3E	
BT-FC 40	A55 57121	ABS 25	13	60	33	25	625,10	**04090**
BT-FC 40	A55 57131	ABS 32	16	60	33		629,90	**04089**
BT-FC 40	A55 57141	ABS 40	20	60	33		637,30	**04088**
BT-FC 40	A55 57151	ABS 50	28	60	33		581,10	**04097**
BT-FC 40	A55 57161	ABS 63	34	70			671,40	**04096**
BT-FC 50	A55 57331	ABS 32	16	70		24	815,50	**05089**
BT-FC 50	A55 57341	ABS 40	20	70		24	830,10	**05088**
BT-FC 50	A55 57351	ABS 50	28	70		24	864,30	**05097**
BT-FC 50	A55 57361	ABS 63	34	80		37	901,00	**05096**
BT-FC 50	A55 57371	ABS 80	46	100	60		949,80	**05092**
BT-FC 50	A55 57381	ABS 100	56	110			1.011,00	**05091**

Spare parts SZID	 Clamping screw 62 950 ... EUR XX		 Clamping screw 84 950 ... EUR XX		 Set 84 950 ... EUR XX		 Taper screw 84 950 ... EUR XX	
ABS 25			9,84	**26800**	24,15	**99700**	14,42	**27000**
ABS 32	9,84	**13989**			24,15	**99600**	14,42	**27100**
ABS 40			10,97	**26900**	25,65	**99500**	14,78	**27200**
ABS 50			12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63			14,11	**25500**	31,57	**99400**	17,61	**27300**
ABS 80			15,97	**25600**	35,48	**99300**	19,67	**25100**
ABS 100			18,90	**25700**	39,55	**99200**	20,70	**25200**

Adapter for milling cutters with threaded end

▲ also available with Balluff chip **on request**







AD
G 6,3 n_{max} 18000

Adapter	THSZWS	DCONWS mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm	56 711 ... EUR WA	
BT 40	M8	8,5	25	13,8	15	12	52	98,18	**081**
BT 40	M8	8,5	50	13,8	23	12	77	105,20	**082**
BT 40	M8	8,5	75	13,8	25	12	102	113,40	**083**
BT 40	M10	10,5	25	18,0	23	12	52	98,18	**101**
BT 40	M10	10,5	50	18,0	25	12	77	105,20	**102**
BT 40	M10	10,5	75	18,0	30	12	102	113,40	**103**
BT 40	M12	12,5	25	21,0	24	12	52	98,18	**121**
BT 40	M12	12,5	50	21,0	30	12	77	105,20	**122**
BT 40	M12	12,5	75	21,0	35	12	102	113,40	**123**
BT 40	M12	12,5	100	21,0	38	12	127	122,10	**124**
BT 40	M16	17,0	25	29,0	29	12	52	98,18	**161**
BT 40	M16	17,0	50	29,0	34	12	77	105,20	**162**
BT 40	M16	17,0	75	29,0	35	12	102	113,40	**163**
BT 40	M16	17,0	100	29,0	40	12	127	122,10	**164**

Accessories



Extension-Reduction set
→ 245



Pull studs
→ 111–112



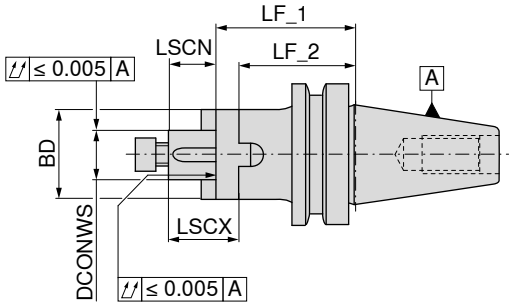
Others
→ 273

Combination shell mill adapter

- For milling cutters with transverse or longitudinal groove according to DIN 6358
- also available with Balluff chip **on request**

Scope of supply:

Toolholder with retaining screw, driving ring and dowel spring






A
G 2,5 n_{max} 18000


A
G 6,3 n_{max} 8000

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm	82 516 ... EUR Y8		82 516 ... EUR Y8	
short	BT 30	16	45	32	27	17	35	84,68	01600		
	BT 30	22	47	40	31	19	35	84,68	02200		
	BT 30	27	49	46	33	21	37	89,96	02700		
	BT 40	16	55	32	27	17	45			58,18	116
	BT 40	22	55	40	31	19	43			60,46	122
	BT 40	27	55	48	33	21	43			61,69	127
	BT 40	32	60	58	38	24	46			65,18	132
	BT 40	40	60	70	41	27	46			68,58	140 [1]
	BT 50	16	70	32	27	17	60			89,36	216
	BT 50	22	70	40	31	19	58			92,38	222
	BT 50	27	70	48	33	21	58			99,19	227
	BT 50	32	70	58	38	24	56			102,10	232
	BT 50	40	70	70	41	27	56			105,80	240 [1]
long	BT 30	16	80	32	27	17	70	107,80	91600		
	BT 30	22	80	40	31	19	68	107,80	92200		
	BT 30	27	90	48	33	21	78	110,10	92700		
	BT 40	16	100	32	27	17	90	73,54	31600		
	BT 40	22	100	40	31	19	88	76,58	32200		
	BT 40	27	100	48	33	21	88	77,97	32700		
	BT 40	32	100	58	38	24	86	82,30	33200		
	BT 40	40	100	70	41	27	86	86,61	34000 [1]		

1) With cross screw


Parallel key


Drive ring


Cross nut key


Retaining screw


clamping screw

Spare parts DCONWS	83 950 ... EUR Y8		83 370 ... EUR Y8		83 368 ... EUR Y8		83 367 ... EUR Y8		83 950 ... EUR Y8	
16	1,68	284	10,21	116	11,01	116	3,33	016	2,97	113
22	1,68	285	11,34	122	13,72	122	3,65	022	3,43	124
27	3,24	286	12,20	127	17,60	127	4,67	027	3,78	125
32	1,93	287	14,58	132	22,68	132	7,50	032	4,70	126
40	2,06	288	21,70	140	31,65	140	11,89	040	6,67	112

Accessories


Pull studs
→ 111–112

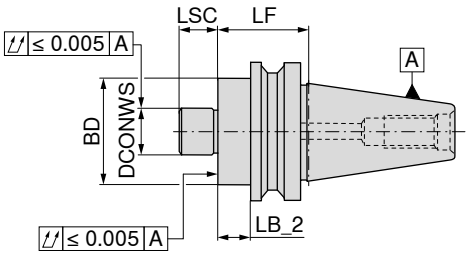

Milling Adapter Rings
→ 253


Others
→ 273

Shell mill adapter

- With fixed drive dogs and enlarged contact face for milling cutters with transverse groove
- also available with Balluff chip **on request**

Scope of supply:
Toolholder with retaining screw





	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	A G 2,5 n_{max} 18000 82 514 ... EUR Y8		AD G 6,3 n_{max} 8000 82 514 ... EUR Y8		AD/B G 6,3 n_{max} 8000 82 514 ... EUR Y8	
short	BT 30	16	18	40	38	17	79,60	01600				
	BT 30	22	18	40	48	19	79,60	02200				
	BT 30	27	18	50	58	21	84,68	02700				
	BT 30	32	28	50	78	24	92,88	03200				
	BT 40	16	25	52	38	17					58,18	116
	BT 40	22	25	52	48	19					61,59	122
	BT 40	27	25	52	58	21					62,81	127
	BT 40	32	23	50	78	24					66,13	132
	BT 40	40	23	50	88	27					71,89	140 [1]
	BT 50	16	25	63	38	17			76,90	316		
	BT 50	22	25	63	48	19			78,77	322		
	BT 50	27	25	63	58	21			81,43	327		
	BT 50	32	22	60	78	24			83,69	332		
	BT 50	40	22	60	88	27			84,83	340 [1]		
long	BT 40	16	73	100	38	17					60,17	416
	BT 40	22	73	100	48	19					62,16	422
	BT 40	27	73	100	58	21					63,19	427
	BT 40	32	73	100	78	24					66,22	432
	BT 40	40	73	100	88	27					69,43	440 [1]
	BT 50	16	62	100	38	17			84,07	616		
	BT 50	22	62	100	48	19			86,06	622		
	BT 50	27	62	100	58	21			88,60	627		
	BT 50	32	62	100	78	24			91,35	632		
	BT 50	40	62	100	88	27			93,35	640 [1]		
medium length	BT 40	16	103	130	38	17					63,95	816
	BT 40	22	103	130	48	19					66,13	822
	BT 40	27	103	130	58	21					67,17	827
	BT 40	32	103	130	78	24					70,38	832
	BT 40	40	103	130	88	27					73,49	840 [1]
	BT 50	16	92	130	38	17			89,64	916		
	BT 50	22	92	130	48	19			91,63	922		
	BT 50	27	92	130	58	21			94,37	927		
	BT 50	32	92	130	78	24			97,34	932		
	BT 50	40	92	130	88	27			99,19	940 [1]		
extra-long	BT 40	16	133	160	38	17					66,13	516
	BT 40	22	133	160	48	19					68,29	522
	BT 40	27	133	160	58	21					69,24	527
	BT 40	32	133	160	78	24					72,45	532
	BT 40	40	133	160	88	27					75,48	540 [1]
	BT 50	16	122	160	38	17			92,89	716		
	BT 50	22	122	160	48	19			94,46	722		
	BT 50	27	122	160	58	21			97,34	727		
	BT 50	32	122	160	78	24			100,10	732		
	BT 50	40	122	160	88	27			102,10	740 [1]		

1) with cross screw and 4 holes M12, Pitch Circle diameter = 66.7 mm, coolant outlet on the outer diameter of the spigot (DCONWS)!

Spare parts facemill adapters

Cross nut key



Retaining screw



clamping screw

Spare parts DCONWS	83 368 ... EUR Y8		83 367 ...	EUR Y8		83 950 ...	EUR Y8	
16	11,01	116	M8	3,33	016	M8x25	2,97	113
22	13,72	122	M10	3,65	022	M10x25	3,43	124
27	17,60	127	M12	4,67	027	M12x30	3,78	125
32	22,68	132	M16	7,50	032	M16x35	4,70	126
40	31,65	140	M20	11,89	040	M20x40 - SW17	6,67	112



Screw for drivers



Driver

Spare parts DCONWS	83 950 ... EUR Y8		83 950 ... EUR Y8	
16	M3x8	0,39	296	8x9x17,5	7,45	120
22	M4x12	0,49	297	10x11x20,5	7,71	121
27	M5x12	0,59	136	12x13x24,3	8,73	122
32	M5x20	0,66	137	14x21x21,2	9,00	123
40	M6x16	0,77	138	15,9x16,3x19,5	11,56	295

Accessories



Pull studs

→ 111–112



Extensions

→ 252



Others

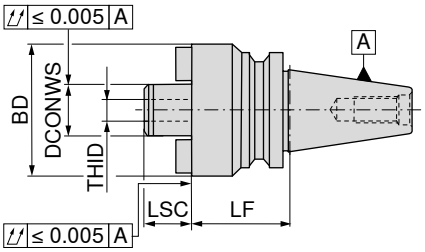
→ 273

Large diameter facemill adapter

- For milling cutters with keyway or drive slot DIN 6357
- also available with Balluff chip **on request**

Scope of supply:

Holder with integrated drive dogs according to DIN 2079 and 4 fixation screws







A

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	82 519 ... EUR Y8	
BT 50	40	70	89	30	M20	137,90	**240**
BT 50	60	80	129	40	M30	167,30	**260**



Screw for drivers



Driver



Socket head screw



clamping screw

Spare parts DCONWS		83 950 ... EUR Y8			83 950 ... EUR Y8		70 950 ... EUR 2A/28			83 950 ... EUR Y8	
40	M6x16	0,77	**138**	15,9x16,3x19,5	11,56	**295**			M12x50	3,76	**140**
60				25,4x16,3x26,5	15,01	**298**	M12x30 - SW10	8,87	**181**	M16x45	9,58	**160**

Accessories



Pull studs

→ 111–112

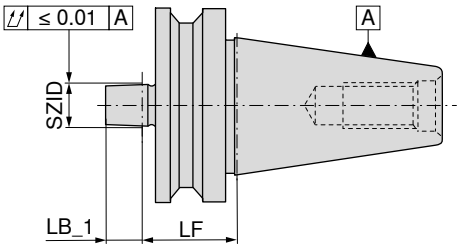


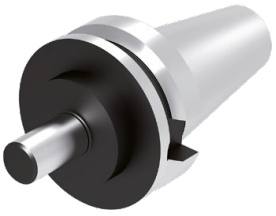
Others

→ 273

Drill chuck adapter

▲ also available with Balluff chip **on request**







A
G 6,3 n_{max} 8000

Adapter	SZID	LF mm	LB_1 mm	82 513 ... EUR Y8	
BT 30	B12	25	18,5	73,54	**01200**
BT 30	B16	25	24,0	73,54	**01600**
BT 40	B12	40	18,5	45,63	**112**
BT 40	B16	40	24,0	45,63	**116**
BT 40	B18	32	32,0	52,92	**11800**
BT 50	B16	50	24,0	69,24	**216**
BT 50	B18	50	32,0	69,24	**218**


Drill chuck


Drill chuck

Spare parts SZID		83 636 ... EUR Y8			83 636 ... EUR Y8	
B12	0 - 8 mm	90,84	**012**	0 - 10 mm	107,10	**112**
B16	1 - 13 mm	128,50	**016**	3 - 16 mm	108,10	**116**
B18				3 - 16 mm	137,20	**018**

Accessories

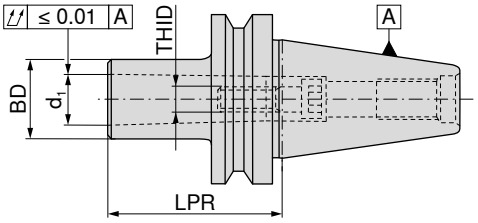

Pull studs
→ 111–112


Others
→ 273

Milling sleeve adapters DIN 6364 for DIN 228-2C Morse taper shanks with thread

▲ also available with Balluff chip **on request**

Scope of supply:
Holder with retaining screw





AD
G 6,3 n_{max} 8000

	Adapter	d_1	LPR mm	BD mm	THID	82 527 ... EUR Y8	
short	BT 40	MK1	50	25	M6	70,85	01000
	BT 40	MK2	55	32	M10	70,85	02000
	BT 40	MK3	70	40	M12	58,18	030
	BT 40	MK4	95	48	M16	60,46	040
	BT 50	MK1	45	25	M6	82,09	210
	BT 50	MK2	60	32	M10	81,24	220
	BT 50	MK3	65	40	M12	81,24	230
	BT 50	MK4	95	48	M16	84,16	240
	BT 50	MK5	118	63	M20	95,39	250


Morse taper clamping screw


Counterscrew


Hollow key with nose


Fixing ring

Spare parts for Article no.		83 950 ... EUR Y8			83 950 ... EUR Y8			83 359 ... EUR Y8			83 950 ... EUR Y8	
82 527 01000	M6x30	0,71	260	M5x6	0,49	030	16 x 32	19,00	013	M16x8x6,5	6,57	265
82 527 02000	M10x30	1,21	261	M5x6	0,49	030	16 x 32	19,00	013	M16x8x10,5	6,57	267
82 527 030	M12x35	0,89	018	M5x6	0,49	030	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 527 040	M16x40	2,82	019	M5x6	0,49	030	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 527 210	M6x30	0,71	260	M5x8	0,49	031	20 x 135	22,58	020	M24x10x6,5	7,56	266
82 527 220	M10x30	0,89	017	M5x8	0,49	031	20 x 135	22,58	020	M24x10x10,5	7,56	268
82 527 230	M12x35	0,89	018	M5x8	0,49	031	17 x 117	21,50	017	M20x1,5x10x13	7,00	269
82 527 240	M16x40	2,82	019	M5x8	0,49	031	23 x 145	26,03	023	M26x1,5x17	8,55	270
82 527 250	M20x50	7,09	262	M5x8	0,49	031	33 x 175	32,29	033	M36x1,5x21	11,12	271

Accessories

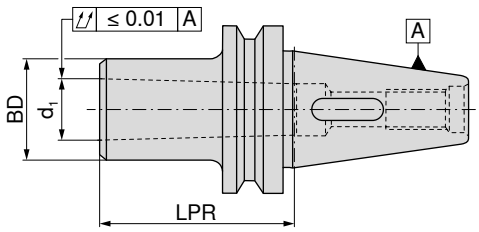

Pull studs
→ 111–112


Others
→ 273

16

Taper sleeve adapter DIN6383 for DIN 228-2D Morse taper shanks

▲ also available with Balluff chip **on request**







AD
G 6,3 n_{max} 8000

Adapter	d_1	LPR mm	BD mm		82 525 ... EUR Y8	
BT 30	MK1	50	25		75,60	**01000**
BT 30	MK2	60	32		75,60	**02000**
BT 30	MK3	77	40		82,19	**03000**
BT 40	MK1	50	25		51,20	**110**
BT 40	MK2	50	32		51,20	**120**
BT 40	MK3	70	40		54,69	**130**
BT 40	MK4	95	48		57,06	**140**
BT 50	MK1	45	25		70,00	**210**
BT 50	MK2	60	32		72,45	**220**
BT 50	MK3	65	40		72,45	**230**
BT 50	MK4	95	48		74,81	**240**
BT 50	MK5	105	63		81,34	**250**

Accessories



Morse taper adapter sleeve
→ 230



Pull studs
→ 111–112

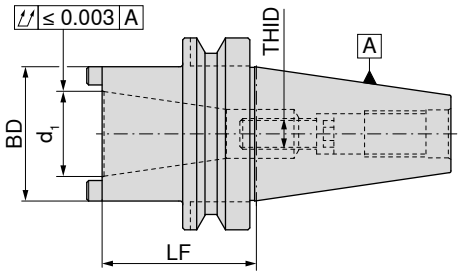


Others
→ 273

Milling adapter sleeve

- For mounting steep taper adapters according to DIN 2080
- With an extended retaining screw, adapters compliant with ISO 7388-1 – SK, ISO 7388-2 – MAS-BT and ANSI-CAT can also be clamped
- also available with Balluff chip **on request**

Scope of supply:
Holder with clamping screw for DIN 2080 adapters







Adapter	d_1	LF mm	BD mm	THID	82 518 ... EUR Y8	
BT 40	SK 30	60	51	M12	123,20	**10600**
BT 40	SK 40	100	63	M16	123,20	**11000**
BT 50	SK 40	80	70	M16	131,20	**250**

Spare parts for Article no.	Clamping screw SK 83 950 ... EUR Y8		Morse taper clamping screw 83 950 ... EUR Y8		Counterscrew 83 950 ... EUR Y8		Hollow key with nose 83 359 ... EUR Y8		Fixing ring 83 950 ... EUR Y8	
82 518 10600			5,36	**18400**	0,49	**030**	21,50	**017**	6,58	**18500**
82 518 11000	6,02	**009**			0,49	**030**	26,03	**023**	8,55	**270**
82 518 250	6,02	**009**								

Screw length required when pulling in ISO 7388-1 – SK, ISO 7388-2 – MAS BT or DIN 2080 shanks

ISO 7388-2 Suitable for article no.	Taper Shank Ø d_1	Clamping screw length ISO 7388-1, ISO 7388-2 THID	Clamping screw length DIN 2080 THID
82 518 10600	SK 30 – BT 30	M12x55	M12x35 – **83 950 018**
82 518 11000	SK 40 – BT 40	M16x60	M16x35 – **83 950 126**
82 518 250	SK 50 – BT 50	M16x70 – **83 950 256**	M16x40 – **83 950 009**

Accessories



Pull studs → 111–112



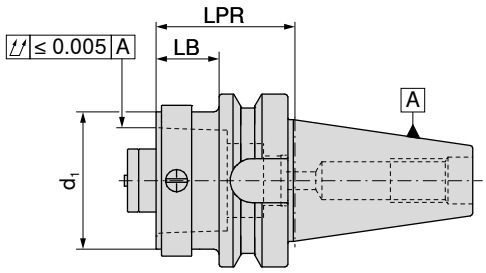
Others → 273

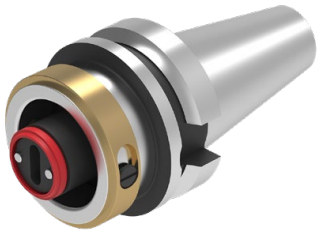
16

BT/HSK-A adapter

- for mounting HSK-A adapters according to ISO 12164
- also available with Balluff chip **on request**

Scope of supply:
with clamping cartridge and cover ring





NEW

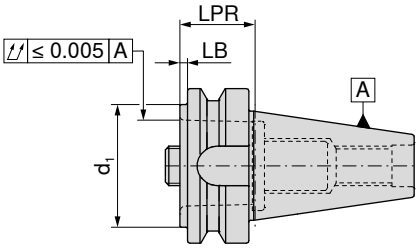
AD

Adapter	d_1	LB mm	LPR mm	84 016 ... EUR Y8	
BT 40	HSK-A 32	13	40	510,80	**04060**
BT 40	HSK-A 40	13	40	520,40	**04059**
BT 40	HSK-A 50	23	50	529,80	**04058**
BT 40	HSK-A 63	43	70	520,40	**04057**
BT 50	HSK-A 32	12	50	643,80	**05060**
BT 50	HSK-A 40	12	50	643,80	**05059**
BT 50	HSK-A 50	22	60	662,70	**05058**
BT 50	HSK-A 63	22	60	700,60	**05057**
BT 50	HSK-A 100	52	90	795,70	**05055**

BT/PSC adapter

- for mounting PSC adapters according to ISO 26623-1
- also available with Balluff chip **on request**

Scope of supply:
with tightening screw





NEW



AD

Adapter	d_1	LB mm	LPR mm	84 017 ... EUR Y8	
BT 40	PSC 32	3	30	330,30	**04087**
BT 40	PSC 40	3	30	339,90	**04095**
BT 40	PSC 50	3	30	339,90	**04094**
BT 40	PSC 63	58	85	330,30	**04093**
BT 50	PSC 32	2	40	453,70	**05087**
BT 50	PSC 40	2	40	529,80	**05095**
BT 50	PSC 50	2	40	463,30	**05094**
BT 50	PSC 63	2	40	482,30	**05093**
BT 50	PSC 80	32	70	501,30	**05086**



Threaded ring

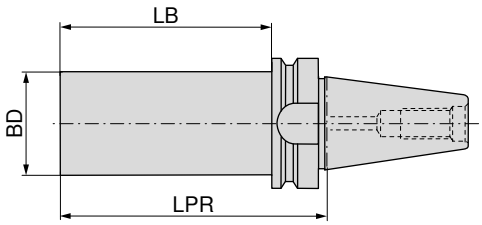


tightening screw

Spare parts DCONWS	84 950 ... EUR Y8			84 950 ... EUR Y8	
22	26,46	**127**	SW8	19,12	**122**
28	26,46	**128**	SW8	21,60	**123**
35	26,46	**129**	SW10	21,60	**124**
44	52,82	**130**	SW14	24,19	**126**
55	52,82	**130**	SW14	24,19	**126**

Blank

- Material: Steel 17CrNiMo5
- for production of special tools
- Diameter BD turned with 0.5 mm oversize
- Taper hardened and ground
- Special tool area in soft state
- also available with Balluff chip **on request**






A

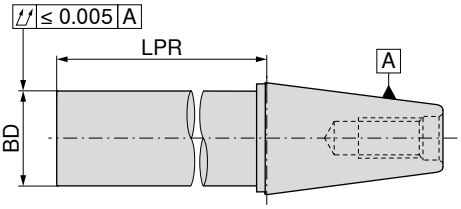

AD/B

Adapter	BD mm	LPR mm	LB mm	82 523 ... EUR Y8		82 523 ... EUR Y8	
BT 40	63,0	250	223			67,82	**040**
BT 50	63,5	300	262	120,00	**050**		

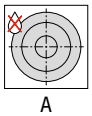
Test bar

- Without clamping slots
- MAS BT 40 special pull stud with LF = 32 mm

Scope of supply:
in wooden box






A

Adapter	BD mm	LPR mm	82 456 ... EUR Y8	
SK / BT 40	40	330	295,70	**040**
SK / BT 50	50	330	364,60	**050**

Accessories





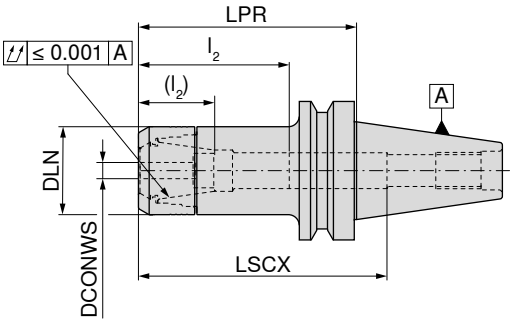
Pull studs → 58, 111–112

Others → 273

ER Precision Collet chuck – Centro-P – BT-FC

- with face contact
- for standard or sealed nuts
- maximum clamping range covered according to ISO tolerance field H10
- for clamping a roll key is required
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop






AD
G 2,5 n_{max} 25000

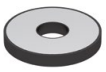
Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	84 525 ... EUR Y8	
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	154,60	**002**
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)	169,00	**00400**
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)	194,20	**00600**
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	154,50	**012**
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	154,50	**022**
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	157,70	**102**
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)	161,60	**10400**
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)	206,80	**10600**
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)	161,60	**11400**
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	157,70	**112**
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)	221,50	**11600**
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	157,70	**122**
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)	161,60	**12400**
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)	221,50	**12600**

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

	 Lock nut IK		 Lock nut		 Stop screw 2			 Stop screw 1	
	84 950 ...		84 950 ...		83 950 ...			83 950 ...	
Spare parts for Article no.	EUR Y8		EUR Y8			EUR Y8			EUR Y8	
84 525 002	36,25	**011**	28,99	**001**	M11x1 - SW6	14,50	**341**	M11x1 - SW6	10,23	**337**
84 525 012	39,37	**013**	32,09	**003**	M18x1,5 - SW6	16,38	**432**	M18x1,5 - SW6	11,76	**431**
84 525 022	41,44	**015**	34,14	**005**	M22x1,5 - SW6	16,38	**402**	M22x1,5 - SW6	11,76	**401**
84 525 102	36,25	**011**	28,99	**001**	M11x1 - SW6	14,50	**341**	M11x1 - SW6	10,23	**337**
84 525 112	39,37	**013**	32,09	**003**	M18x1,5 - SW6	16,38	**432**	M18x1,5 - SW6	11,76	**431**
84 525 122	41,44	**015**	34,14	**005**	M22x1,5 - SW6	16,38	**402**	M22x1,5 - SW6	11,76	**401**

Accessories


ER collet
→ 256–266


Sealing ring
→ 269


Roll key
→ 275


Roll key device
→ 275


Pull studs
→ 111–112


Others
→ 273

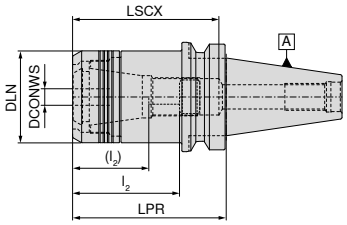
16

ER precision collet chuck – HDC – BT-FC

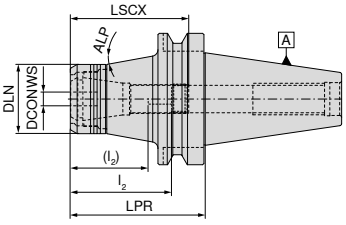
- HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- For heavy duty lock nut
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Base body **including** lock nut, **without** backstop screw



cylindrical



Conical



NEW



AD
G 6,3 n_{max} 18000
cylindrical

NEW



AD
G 6,3 n_{max} 18000
conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8		84 400 ... EUR Y8	
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	262,70	**12064**		
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)	269,90	**22064**		
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)			437,80	**12063**
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)			441,90	**22063**

LSCX = Clamping depth without backstop screw
l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2



Lock nut



Stop screw 2



Stop screw 1

Spare parts DCONWS	84 950 ... EUR Y8		83 950 ... EUR Y8		83 950 ... EUR Y8	
2 - 20	54,59	**30100**	16,38	**402**	11,76	**401**

Accessories



ER collet → 256–266



Roll key → 275



Roll key device → 275



Pull studs → 111–112

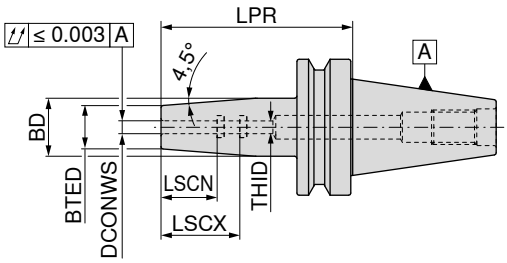


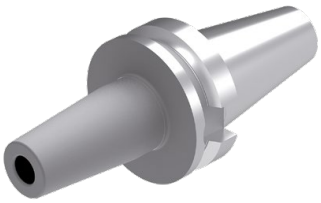
Others → 273

Shrink fit adapters 4.5° – BT-FC

- with face contact
- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

TG






AD
G 2,5 n_{max} 25000


AD/B
G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 325 ... EUR Y8		84 325 ... EUR Y8	
short	BT-FC 30	3	85	10	17	28	12	M6	149,00	003		
	BT-FC 30	4	85	15	22	28	16	M6	149,00	004		
	BT-FC 30	5	85	15	22	30	20	M6	149,00	005		
	BT-FC 30	6	85	21	27	36	26	M5	149,00	006		
	BT-FC 30	8	85	21	27	36	26	M6	149,00	008		
	BT-FC 30	10	85	24	32	41	31	M8x1	149,00	010		
	BT-FC 30	12	85	24	32	47	37	M10x1	149,00	012		
	BT-FC 30	16	85	27	34	50	40	M12x1	149,00	016		
	BT-FC 30	20	85	33	42	52	42	M16x1	149,00	020		
	BT-FC 40	3	90	10	17	28	12	M6			131,70	103
	BT-FC 40	4	90	15	22	28	16	M6			131,70	104
	BT-FC 40	5	90	15	22	30	20	M6			131,70	105
	BT-FC 40	6	90	21	27	36	26	M5			131,70	106
	BT-FC 40	8	90	21	27	36	26	M6			131,70	108
	BT-FC 40	10	90	24	32	41	31	M8x1			131,70	110
	BT-FC 40	12	90	24	32	47	37	M10x1			131,70	112
	BT-FC 40	16	90	27	34	50	40	M12x1			131,70	116
	BT-FC 40	20	90	33	42	52	42	M16x1			131,70	120
	BT-FC 40	25	100	44	53	58	48	M16x1			131,70	125


Stop screw IK


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7	
3 - 5	M6x14 - SW2	8,35	417			
6				M5x12,5 - SW2,5	8,35	418
8				M6x12,5 - SW3	8,35	419
10				M8x1x13,5 - SW3	8,35	420
12				M10x1x13,5 - SW5	8,35	421
16				M12x1x13,5 - SW5	8,35	422
20 - 25				M16x1x13,5 - SW8	9,62	424

Accessories


Shrink fit extension
→ 235


Pull studs
→ 111–112

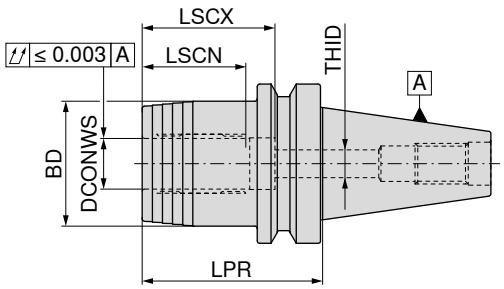

Others
→ 273

16

High pressure chuck, short and stable version – BT-FC

- with face contact
- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:
Base body with backstop screw and pressure screw







AD
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID		83 527 ... EUR Y8	
BT-FC 40	20	72,5	49	51	40	M16x1x13,5		265,70	**120**



Clamping key – T



Pressure screw



Stop screw IK

Spare parts for Article no.		80 397 ... EUR Y7		83 950 ... EUR Y7		83 950 ... EUR Y7	
83 527 120	SW5	4,37	**050**	M10x1x10	12,20	**158**	M8x1x13,5 - SW3	8,35	**420**

Accessories



Reduction sleeve
→ 271



Pull studs
→ 111–112

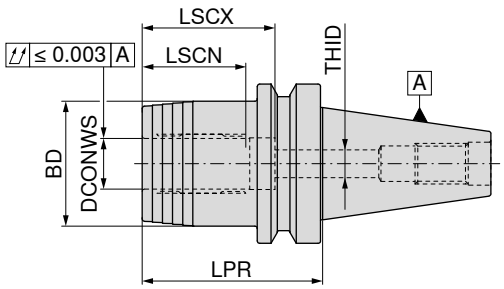


Others
→ 273

Hydraulic chuck MAS BT, short and stable version – BT-FC

- with face contact
- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:
Base body with backstop screw and pressure screw







AD
G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID		84 518 ... EUR Y8	
BT-FC 40	20	72,5	49,5	51	41	M16x1		239,80	**120**
BT-FC 50	32	90,0	72,0	61	51	M16x1		319,70	**332**


Pressure screw


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7		83 950 ... EUR Y7	
20 - 32	M10x1x12	5,64	**440**	M16x1x13,5 - SW8	9,62	**424**

Accessories


Reduction sleeve
→ 271

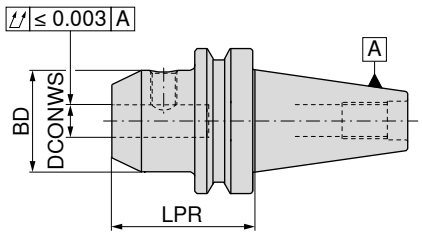

Pull studs
→ 111–112


Others
→ 273

16

Cylindrical shank adapter (Weldon) – BT-FC

- with face contact
- for shanks according to DIN 6535 / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**







AD
G 2,5 n_{max} 25000

84 552 ...

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	EUR Y8	
short	BT-FC 30	6	50	25	77,44	006
	BT-FC 30	8	50	28	77,44	008
	BT-FC 30	10	50	35	77,44	010
	BT-FC 30	12	50	42	77,44	012
	BT-FC 30	16	63	48	83,05	016
	BT-FC 30	20	63	52	83,05	020
	BT-FC 40	6	50	25	98,18	106
	BT-FC 40	8	50	28	94,94	108
	BT-FC 40	10	63	35	94,94	110
	BT-FC 40	12	63	42	94,94	112
	BT-FC 40	16	63	48	94,94	116
	BT-FC 40	20	63	52	94,94	120
	BT-FC 40	25	90	65	126,40	125
	BT-FC 40	32	100	72	126,40	132
	BT-FC 50	6	63	25	145,90	306
	BT-FC 50	8	63	28	141,50	308
	BT-FC 50	10	63	35	141,50	310
	BT-FC 50	12	80	42	141,50	312
	BT-FC 50	16	80	48	141,50	316
	BT-FC 50	20	80	52	141,50	320
	BT-FC 50	25	100	65	162,00	325
	BT-FC 50	32	105	72	162,00	332



Grubscrew

62 950 ...

Spare parts DCONWS $_{H4}$		EUR W7	
6	M6x10	0,68	006
8	M8x10	0,79	008
10	M10x12	1,05	010
12	M12x16	1,06	012
16	M14x16	1,32	016
20	M16x16	1,60	020
25	M18x2x20	2,93	025
32	M20x2x20	3,24	032

Accessories



Pull studs
→ 111–112

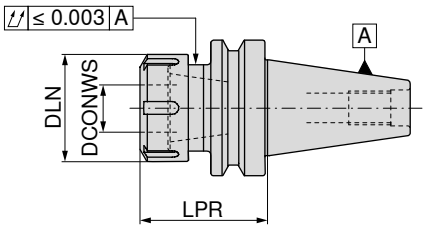


Others
→ 273

ER Collet chuck – BT-FC

- with face contact
- also available with Balluff chip **on request**

Scope of supply:
Toolholder including nut







AD
G 2,5 n_{max} 20000

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	84 557 ... EUR Y8	
short	BT-FC 30	1 - 10	63	28	56	426E (ER16)	87,37	010
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	87,37	016
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	87,37	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	110,10	110
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	110,10	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	110,10	120
	BT-FC 50	1 - 16	70	42	104	430E (ER25)	150,10	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	150,10	320
long	BT-FC 50	1 - 10	100	28	56	426E (ER16)	150,10	310


Lock nut


Lock nut


Y clamping key


Stop screw IK

Spare parts for collet		62 950 ... EUR W7			62 950 ... EUR W7		83 357 ... EUR Y8			81 950 ... EUR Y8	
426E (ER16) / BT30-BT50	M22x1,5 - SW25	18,35	044						M12x15	2,06	054
430E (ER25) / BT30-BT50				M32x1,5	20,52	055	18,25	125	M16x15	2,32	055
470E (ER32) / BT30-BT50				M40x1,5	19,12	056	24,84	132	M16x15	2,32	055

Accessories

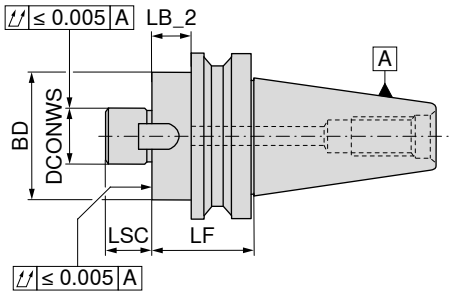

ER collet
→ 256–266


Pull studs
→ 111–112


Others
→ 273

Shell mill adapter – BT-FC

- with face contact
- with fixed drive dogs and enlarged contact face for milling cutters with transverse slot
- also available with Balluff chip **on request**







AD
G 6,3 n_{max} 15000

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	84 562 ... EUR Y8	
short	BT-FC 30	16	18	39,0	40	17	85,21	016
	BT-FC 30	22	18	39,0	50	19	85,21	022
	BT-FC 30	27	18	39,0	60	21	85,21	027
	BT-FC 30	32	28	49,0	80	24	85,21	032
	BT-FC 40	16	8	34,0	40	17	102,50	116
	BT-FC 40	22	8	34,0	50	19	102,50	122
	BT-FC 40	27	8	34,0	60	21	102,50	127
	BT-FC 40	32	23	49,0	80	24	102,50	132
	BT-FC 40	40	23	49,0	89	27	102,50	140
	BT-FC 50	22	12	48,5	50	19	118,90	322
	BT-FC 50	27	12	48,5	60	21	118,90	327
	BT-FC 50	32	12	48,5	80	24	126,40	332
	BT-FC 50	40	17	53,5	89	27	126,40	340



Screw for drivers



Driver



clamping screw

Spare parts for Article no.		84 950 ... EUR Y8			84 950 ... EUR Y8			83 950 ... EUR Y8	
84 562 016	M3x12	3,90	162	8x9x11	9,91	157	M8x25	2,97	113
84 562 022	M4x10	3,90	163	10x11,2x13	11,67	158	M10x25	3,43	124
84 562 027	M4x16	3,90	164	12x12,6x15	12,64	159	M12x30	3,78	125
84 562 032	M5x16	3,90	165	14x14x22,5	14,36	160	M16x35	4,70	126
84 562 116	M3x12	3,90	162	8x9x11	9,91	157	M8x25	2,97	113
84 562 122	M4x10	3,90	163	10x11,2x13	11,67	158	M10x25	3,43	124
84 562 127	M4x16	3,90	164	12x12,6x15	12,64	159	M12x30	3,78	125
84 562 132	M5x16	3,90	165	14x14x22,5	14,36	160	M16x35	4,70	126
84 562 140	M5x16	3,90	166	16x16x23	15,99	161	M20x40 - SW17	6,67	112
84 562 322	M4x10	3,90	163	12x12,6x15	12,64	159	M10x25	3,43	124
84 562 327	M4x16	3,90	164	12x12,6x15	12,64	159	M12x30	3,78	125
84 562 332	M5x16	3,90	165	14x14x22,5	14,36	160	M16x35	4,70	126
84 562 340	M5x16	3,90	166	16x16x23	15,99	161	M20x40 - SW17	6,67	112

Accessories



Pull studs
→ 111–112

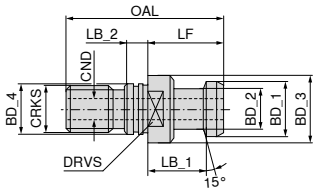


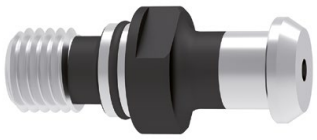
Others
→ 273

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:
including O-Ring



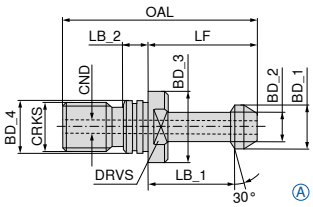


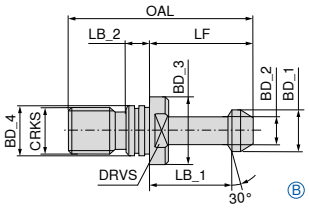
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	83 532 ... EUR Y8	
BT 40	19	14	23	17	M16	54	29	23	5	5	19	90	7,00	**040**

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:
including O-Ring







Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 533 ... EUR Y8		82 531 ... EUR Y8	
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	60	A			10,34	**030**
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90	A			7,84	**040**
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	145	A			10,63	**050**
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	60	B	9,72	**030**		
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	90	B	6,09	**040**		
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	145	B	9,81	**050**		



O-Ring

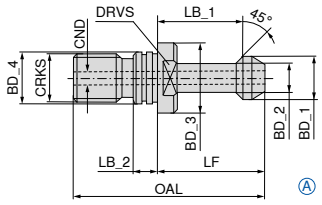
Spare parts BD_4		83 476 ... EUR Y8	
17	BT / SK 40	0,47	**040**
25	BT / SK 50	0,47	**050**

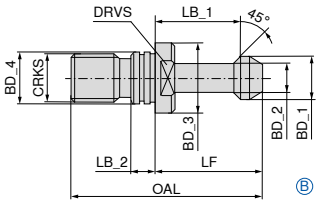
16

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:
including O-Ring





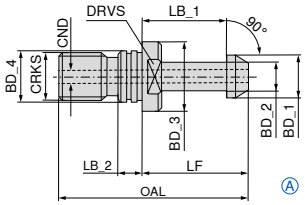


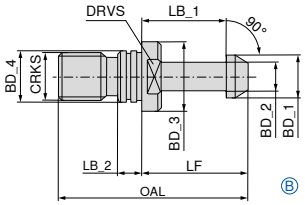
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ... EUR Y8		82 534 ... EUR Y8	
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0	2,2	13	60	A			10,34	**030**
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5	4,0	19	90	A			7,84	**040**
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0	6,0	30	145	A			10,63	**050**
BT 30	11	7	16,5	12,5	M12	43	23	18	4,0		13	60	B	9,72	**030**		
BT 40	15	10	23,0	17,0	M16	60	35	28	5,5		19	90	B	6,09	**040**		
BT 50	23	17	38,0	25,0	M24	85	45	35	8,0		30	145	B	9,81	**050**		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:
including O-Ring







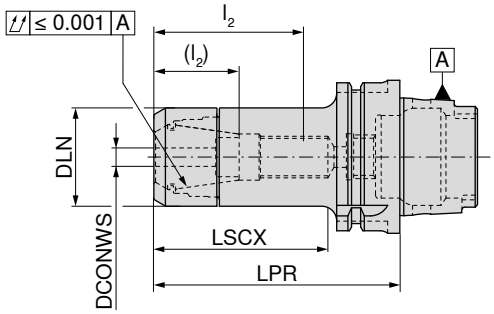
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ... EUR Y8		82 537 ... EUR Y8	
BT 40	15	10	23	17	M16	60	35	28	5,5	4	19	90	A			7,84	**040**
BT 50	23	17	38	25	M24	85	45	35	8,0	6	30	145	A			10,63	**050**
BT 40	15	10	23	17	M16	60	35	28	5,5		19	90	B	6,09	**040**		
BT 50	23	17	38	25	M24	85	45	35	8,0		30	145	B	9,81	**050**		

ER Precision Collet chuck – Centro-P

- for standard or sealed nuts
- maximum size collet to ISO tolerance field H10
- for clamping a roll key is required
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop







G 2,5 n_{max} 25000

84 722 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	EUR Y8	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	134,60	**401**
HSK-A 40	2 - 16	60	40	40		430E (ER25)	148,00	**404**
HSK-A 40	2 - 20	61	50	45		470E (ER32)	172,90	**407**
HSK-A 50	2 - 16	60	40	37		430E (ER25)	148,00	**504**
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	150,20	**505**
HSK-A 63	1 - 10	55	30	32		426E (ER16)	123,20	**609**
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	123,20	**610**
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	152,20	**613**
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	170,90	**611**
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	216,50	**612**
HSK-A 63	2 - 16	60	40	37		430E (ER25)	123,20	**615**
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	123,20	**616**
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	162,60	**619**
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	181,20	**617**
HSK-A 63	2 - 20	70	50	46		470E (ER32)	123,20	**620**
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	123,20	**621**
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	162,60	**625**
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	181,20	**622**
HSK-A 63	3 - 26	80	63	56		472E (ER40)	155,30	**626** [1]
HSK-A 63	3 - 26	120	63	91		472E (ER40)	194,20	**62700**
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	226,80	**110**
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	280,20	**11200**
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	326,20	**111**
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	280,20	**11800**
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	226,80	**116**
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	326,20	**117**
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	226,80	**121**
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	280,20	**12400**
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	326,20	**122**

1) Non standard groove before tool change collar not according to DIN, not suitable for automatic tool change

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

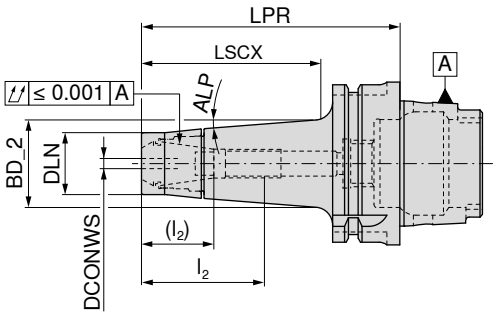
Spare parts
ER precision collet chuck – Centro-P

	 Lock nut IK		 Lock nut			 Stop screw 2			 Stop screw 1	
	84 950 ...		**84 950 ...**			**83 950 ...**			**83 950 ...**	
Spare parts for collet	**EUR** Y8		**EUR** Y8			**EUR** Y8			**EUR** Y8	
426E (ER16)	36,25	**011**	28,99	**001**	M11x1 - SW6	14,50	**341**	M11x1 - SW6	10,23	**337**
430E (ER25)	39,37	**013**	32,09	**003**	M18x1,5 - SW6	16,38	**432**	M18x1,5 - SW6	11,76	**431**
470E (ER32)	41,44	**015**	34,14	**005**	M22x1,5 - SW6	16,38	**402**	M22x1,5 - SW6	11,76	**401**
472E (ER40)	55,93	**017**	46,61	**007**				M28x1,5 - SW6	10,66	**400**

ER Precision tapered collet chuck – Centro-P

- for special tapered nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	**84 721 ...** **EUR** Y8	
HSK-A 40	1 - 10	100	24	30,8	67	26 - 47 (12 - 32)	2,0°	426E (ER16)	160,50	**310**
HSK-A 50	1 - 10	65	24	28,9	44	26 - 32	4,5°	426E (ER16)	148,00	**710**
HSK-A 50	1 - 10	100	24	34,4	77	26 - 47 (12 - 32)	4,5°	426E (ER16)	154,30	**810**
HSK-A 63	1 - 10	100	24	33,8	74	28 - 48 (20 - 35)	4,5°	426E (ER16)	131,40	**610**
HSK-A 63	1 - 10	130	24		77	28 - 48 (20 - 35)		426E (ER16)	171,10	**61200**
HSK-A 63	1 - 10	160	24	36,0	106	28 - 48 (20 - 35)	2,5°	426E (ER16)	179,10	**611**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

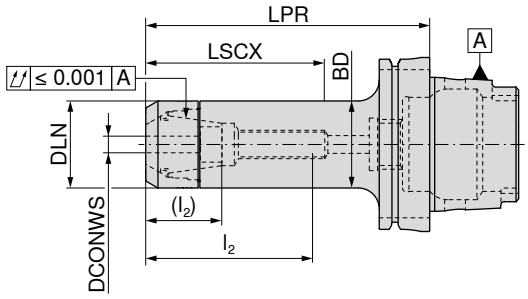
	 Tapered lock nut IK		 Tapered lock nut		 Stop screw 2		 Stop screw 1	
	84 950 ...		**84 950 ...**		**83 950 ...**		**83 950 ...**	
Spare parts for collet	**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8	
426E (ER16)	42,47	**033**	34,14	**031**	14,50	**341**	10,23	**337**

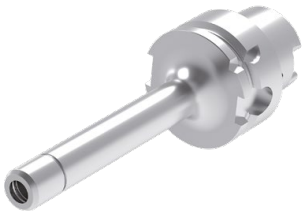
ER Precision collet chuck, slim version – Centro-P

- for Mini Clamping Nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} 80 bar
- also available with Balluff chip **on request**

Scope of supply:

Holder **without** nut, **without** backstop







G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BD mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	84 719 ... EUR Y8	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	193,60	**407**
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	131,50	**507**
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	131,50	**607**
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	170,90	**707**
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	189,50	**608**
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	131,50	**610**
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	131,50	**710**
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	170,90	**810**
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	189,50	**910**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts for collet	Mini lock nut IK 84 950 ... EUR Y8		Mini lock nut 84 950 ... EUR Y8		Stop screw 2 83 950 ... EUR Y8		Stop screw 1 83 950 ... EUR Y8	
4008E (ER11)			34,14	**041**	M8x1 - SW4	13,94 **340**	M8x1 - SW4	10,23 **336**
426E (ER16)	42,46	**035**	34,14	**034**	M11x1 - SW6	14,50 **341**	M11x1 - SW6	10,23 **337**

Accessories









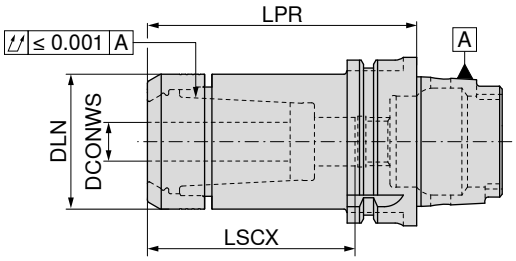
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

16

OZ Precision Collet Chuck – Centro-P

- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







G 2,5 n_{max} 25000

84 724 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	for collet	EUR Y8	
HSK-A 63	2 - 25	85	50	60	462E	177,20	**626**
HSK-A 100	2 - 25	90	50	60	462E	269,40	**126**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
Dimension LPR when using tightening nuts with seals 4 mm longer


Lock nut IK

84 950 ...

Spare parts for collet	EUR Y8	
462E	43,49	**020**

Accessories


OZ Collet → 267


Sealing ring → 267


Roll key → 275


Roll key device → 275

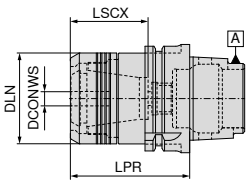

Coolant transfer pipe → 163


Others → 273

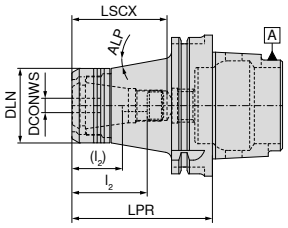
ER precision collet chuck – HDC

- HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- For heavy duty lock nut
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Base body **including** lock nut, **without** backstop screw



cylindrical



Conical



NEW



G 6,3 n_{max} 18000
cylindrical

NEW



G 6,3 n_{max} 18000
conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	84 400 ... EUR Y8		84 400 ... EUR Y8	
HSK-A 63	2 - 20	70	53	45	41 - 57 (27 - 39)		470E (ER32)	206,00	**12057**		
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	206,00	**22057**		
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)			342,00	**22055**

LSCX = Clamping depth without backstop screw
l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2



Lock nut



Stop screw 2



Stop screw 1

DCONWS	84 950 ... EUR Y8		83 950 ... EUR Y8		83 950 ... EUR Y8	
2 - 20	54,59	**30100**	M22x1,5 - SW6	16,38	**402**	M22x1,5 - SW6	11,76	**401**

Accessories



ER collet
→ 256–266



Roll key
→ 275



Roll key device
→ 275



Others
→ 273

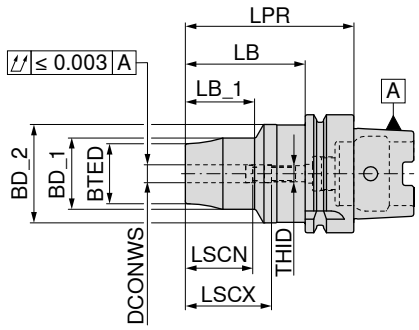
16

High pressure chuck, short version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID	83 706 ... EUR Y8	
short	HSK-A 63	16	95	36	42	52.5	42	49	39	69	M12x1	462,30	616
	HSK-A 63	20	100	42	48	52.5	45	51	41	74	M16x1	427,70	620
	HSK-A 63	25	120	51	57	53.0	62	57	47	94	M16x1	462,30	625
	HSK-A 63	32	125	57	63	53.0	62	61	51	99	M16x1	462,30	632

→ Min. clamping depth, Page 300


Clamping key – T


Pressure screw


Stop screw IK

Spare parts for Article no.		80 397 ... EUR Y7		83 950 ... EUR Y7		83 950 ... EUR Y7	
83 706 616	SW5	4,37	050	TR10x1,5x14	14,15	430	M12x1x18	7,37	446
83 706 620	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x18,5	8,12	448
83 706 625	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x22	12,85	449
83 706 632	SW5	4,37	050	TR10x1,5x14	14,15	430	M16x1x25	15,99	450

Accessories


Reduction sleeve
→ 271


Coolant transfer pipe
→ 163

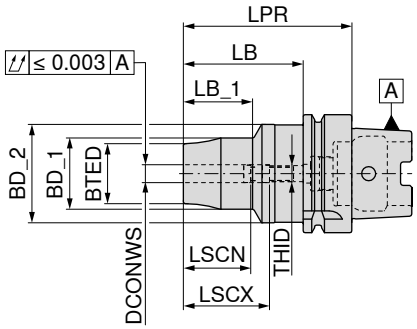

Others
→ 273

High pressure chuck, short and stable version

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID		83 722 ... EUR Y8	
HSK-A 63	20	80	36	49	52,5	36	51	40	54	M8x1		270,10	**120**

→ Min. clamping depth, Page 300


Clamping key – T


Pressure screw


Stop screw IK

Spare parts for Article no.		80 397 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
83 722 120	SW5	4,37	**050**	M10x1x10	12,20	**158**	M8x1x13,5 - SW3	8,35	**420**

Accessories


Reduction sleeve
→ 271


Coolant transfer pipe
→ 163


Others
→ 273

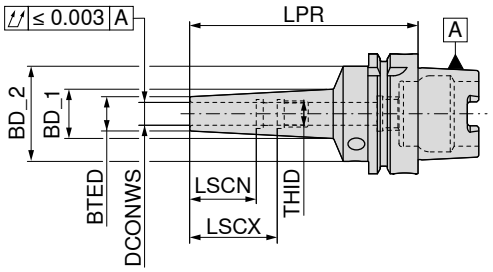
16

High pressure chuck, slim 3°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	83 727 ... EUR Y8	
long	HSK-A 63	3	120	9	16,65	50	28	12	M3	467,60	603
	HSK-A 63	4	120	10	17,65	50	28	16	M3	467,60	604
	HSK-A 63	5	120	11	18,65	50	28	20	M3	467,60	605
	HSK-A 63	6	120	12	19,75	50	37	27	M5	402,80	606
	HSK-A 63	8	120	14	21,75	50	37	27	M6	402,80	608
	HSK-A 63	10	120	16	23,75	50	41	31	M8x1	402,80	610
	HSK-A 63	12	120	18	25,86	50	46	36	M10x1	402,80	612
	HSK-A 63	16	120	24	31,50	50	49	39	M12x1	700,90	616
	HSK-A 63	20	120	28	35,55	50	51	41	M16x1	700,90	620
extra-long	HSK-A 63	6	160	16	33,53	50	37	27	M5	663,20	706
	HSK-A 63	8	160	18	34,55	50	37	27	M6	663,20	708
	HSK-A 63	10	160	20	36,27	50	41	31	M8x1	663,20	710
	HSK-A 63	12	160	22	37,78	50	46	36	M10x1	663,20	712
extra long	HSK-A 63	6	200	16	37,83	50	37	27	M5	733,40	806
	HSK-A 63	8	200	18	38,85	50	37	27	M6	733,40	808
	HSK-A 63	10	200	20	40,57	50	41	31	M8x1	733,40	810
	HSK-A 63	12	200	22	42,07	50	46	36	M10x1	733,40	812

→ Min. clamping depth, Page 300


Clamping key - T


Pressure screw

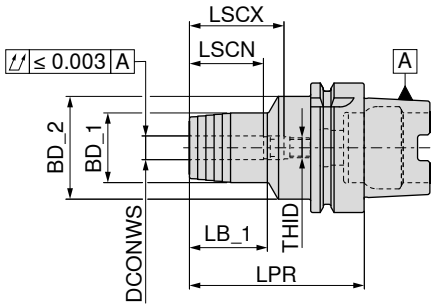

Stop screw IK

Spare parts DCONWS		80 397 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
3	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
4	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
5	SW5	4,37	050	M10x1x10	12,20	158	M3x20 - SW1,5	8,68	172
6	SW5	4,37	050	M10x1x10	12,20	158	M5x12,5 - SW2,5	8,35	418
6	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
8	SW5	4,37	050	M10x1x10	12,20	158	M6x12,5 - SW3	8,35	419
10	SW5	4,37	050	M10x1x12	12,20	159	M8x1x13,5 - SW3	8,35	420
12	SW5	4,37	050	M10x1x12	12,20	159	M10x1x13,5 - SW5	8,35	421
16	SW5	4,37	050	M10x1x12	12,20	159	M12x1x13,5 - SW5	8,35	422
20	SW5	4,37	050	M10x1x12	12,20	159	M16x1x13,5 - SW8	9,62	424

Hydraulic chuck, short and slim version

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:
Base body with backstop screw and pressure screw







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	83 726 ... EUR Y8	
short	HSK-A 63	6	70	26	49,5	37	27	24	M5	412,60	606
	HSK-A 63	8	70	28	49,5	37	27	24	M6	412,60	608
	HSK-A 63	10	80	30	49,5	41	31	32	M8x1	412,60	610
	HSK-A 63	12	85	32	49,5	46	36	40	M10x1	379,10	612
	HSK-A 63	16	90	38	49,5	49	39	46	M12x1	412,60	616
	HSK-A 63	20	90	42	49,5	51	41	48	M16x1	379,10	620
	HSK-A 63	25	120	57	52,0	57	47	63	M16x1	412,60	625
	HSK-A 63	32	125	63	53,0	61	51	61	M16x1	412,60	632

→ Min. clamping depth, Page 300


Pressure screw


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7	
6	M8x1x10	5,64	439	M5x12,5 - SW2,5	8,35	418
8	M8x1x10	5,64	439	M6x12,5 - SW3	8,35	419
10	M10x1x12	5,64	440	M8x1x13,5 - SW3	8,35	420
12	M10x1x12	5,64	440	M10x1x13,5 - SW5	8,35	421
16	M10x1x12	5,64	440	M12x1x13,5 - SW5	8,35	422
20 - 32	M10x1x12	5,64	440	M16x1x13,5 - SW5	9,62	423

Accessories


Reduction sleeve
→ 271


Coolant transfer pipe
→ 163

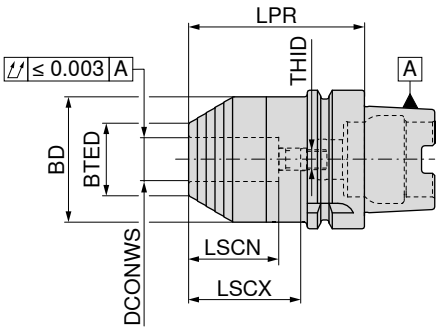

Others
→ 273

Hydraulic chuck, short and stable version

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw







G 2,5 n_{max} 25000

83 729 ...

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
HSK-A 63	20	80	33	51.5	51	41	M8x1	236,60	**620**

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK

Spare parts DCONWS								
		83 950 ...			**83 950 ...**			
			EUR Y7			EUR Y7		
20	M10x1x12	5,64	**440**		M16x1x13,5 - SW5	9,62	**423**

Accessories



Reduction sleeve
→ 271



Coolant transfer pipe
→ 163

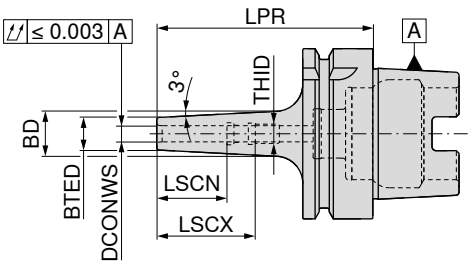


Others
→ 273

Shrink adapter, slim 3°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 324 ... EUR Y8	
short	HSK-A 63	3	80	9	14	28	12	M6	167,50	103
	HSK-A 63	4	80	10	15	28	16	M6	163,20	104
	HSK-A 63	5	80	11	16	30	20	M6	163,20	105
	HSK-A 63	6	80	12	17	36	26	M5	148,00	106
	HSK-A 63	8	80	14	19	36	26	M6	148,00	108
	HSK-A 63	10	85	16	21	41	31	M8x1	148,00	110
	HSK-A 63	12	90	18	24	47	37	M10x1	148,00	112
	HSK-A 63	14	90	20	26	47	37	M10x1	148,00	114
	HSK-A 63	16	95	22	28	50	40	M12x1	148,00	116
	HSK-A 63	18	95	24	30	50	40	M12x1	148,00	118
	HSK-A 63	20	100	26	33	52	42	M16x1	148,00	120
long	HSK-A 63	3	120	9	16	12	12		195,50	203
	HSK-A 63	4	120	10	17	16	16		191,20	204
	HSK-A 63	5	120	11	18	20	20		191,20	205
	HSK-A 63	6	120	12	21	36	26	M5	174,00	206
	HSK-A 63	8	120	14	23	36	26	M6	174,00	208
	HSK-A 63	10	120	16	25	41	31	M8x1	174,00	210
	HSK-A 63	12	120	18	27	47	37	M10x1	174,00	212
	HSK-A 63	14	120	20	29	47	37	M10x1	176,00	214
	HSK-A 63	16	120	22	31	50	40	M12x1	176,00	216
	HSK-A 63	18	120	24	33	50	40	M12x1	176,00	218
	HSK-A 63	20	120	26	35	52	42	M16x1	176,00	220
extra-long	HSK-A 63	3	160	9	19	12	12		217,00	303
	HSK-A 63	4	160	10	20	16	16		212,70	304
	HSK-A 63	5	160	11	21	20	20		212,70	305
	HSK-A 63	6	160	12	24	36	26	M5	196,60	306
	HSK-A 63	8	160	14	26	36	26	M6	196,60	308
	HSK-A 63	10	160	16	28	41	31	M8x1	196,60	310
	HSK-A 63	12	160	18	30	47	37	M10x1	196,60	312
	HSK-A 63	14	160	20	32	47	37	M10x1	196,60	314
	HSK-A 63	16	160	22	34	50	40	M12x1	196,60	316
	HSK-A 63	18	160	24	36	50	40	M12x1	196,60	318
	HSK-A 63	20	160	26	38	52	42	M16x1	196,60	320

→ Min. clamping depth, Page 300


Stop screw IK

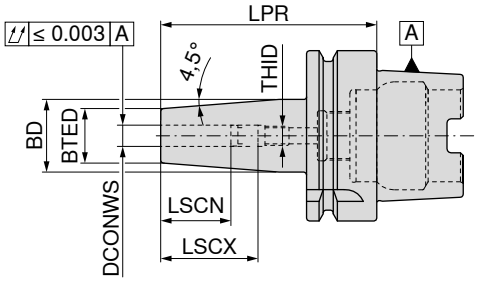

Stop screw IK

Spare parts DCONWS	83 950 ...	EUR Y7		83 950 ...	EUR Y7	
3 - 5	M6x14 - SW2	8,35	417			
6				M5x12,5 - SW2,5	8,35	418
8				M6x12,5 - SW3	8,35	419
10				M8x1x13,5 - SW3	8,35	420
12 - 14				M10x1x13,5 - SW5	8,35	421
16 - 18				M12x1x13,5 - SW5	8,35	422
20				M16x1x13,5 - SW8	9,62	424

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







G 2,5 n_{max} 25000

84 304 ...

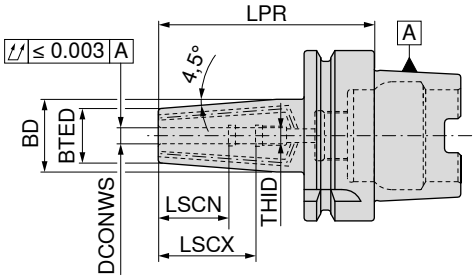
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	HSK-A 63	3	80	10	15	22	12	M6	114,40	103
	HSK-A 63	4	80	15	22	26	16	M6	114,40	104
	HSK-A 63	5	80	15	22	30	20	M6	114,40	105
	HSK-A 63	6	80	21	27	36	26	M5	114,40	106
	HSK-A 63	8	80	21	27	36	26	M6	114,40	108
	HSK-A 63	10	85	24	32	41	31	M8x1	114,40	110
	HSK-A 63	12	90	24	32	47	37	M10x1	114,40	112
	HSK-A 63	14	90	27	34	47	37	M10x1	114,40	114
	HSK-A 63	16	95	27	34	50	40	M12x1	114,40	116
	HSK-A 63	18	95	33	42	50	40	M12x1	114,40	118
	HSK-A 63	20	100	33	42	52	42	M16x1	114,40	120
	HSK-A 63	25	115	44	53	58	48	M16x1	114,40	125
	HSK-A 63	32	120	44	53	62	52	M16x1	114,40	132
long	HSK-A 63	3	120	10	20	12	12		190,00	203
	HSK-A 63	4	120	15	22	16	16		185,80	204
	HSK-A 63	5	120	15	22	20	20		185,80	205
	HSK-A 63	6	120	21	27	36	26	M5	168,50	206
	HSK-A 63	8	120	21	27	36	26	M6	168,50	208
	HSK-A 63	10	120	24	32	41	31	M8x1	168,50	210
	HSK-A 63	12	120	24	32	47	37	M10x1	168,50	212
	HSK-A 63	14	120	27	34	47	37	M10x1	169,50	214
	HSK-A 63	16	120	27	34	50	40	M12x1	169,50	216
	HSK-A 63	18	120	33	42	50	40	M12x1	169,50	218
	HSK-A 63	20	120	33	42	52	42	M16x1	169,50	220
	HSK-A 63	25	120	44	53	58	48	M16x1	169,50	225
extra-long	HSK-A 63	3	160	10	20	12	12		211,70	303
	HSK-A 63	4	160	15	22	16	16		206,20	304
	HSK-A 63	5	160	15	22	20	20		206,20	305
	HSK-A 63	6	160	21	27	36	26	M5	191,20	306
	HSK-A 63	8	160	21	27	36	26	M6	191,20	308
	HSK-A 63	10	160	24	32	41	31	M8x1	191,20	310
	HSK-A 63	12	160	24	32	47	37	M10x1	191,20	312
	HSK-A 63	14	160	27	34	47	37	M10x1	191,20	314
	HSK-A 63	16	160	27	34	50	40	M12x1	191,20	316
	HSK-A 63	18	160	33	42	50	40	M12x1	191,20	318
	HSK-A 63	20	160	33	42	52	42	M16x1	191,20	320
	HSK-A 63	25	160	44	53	62	52	M16x1	191,20	325
extra long	HSK-A 63	6	200	21	27	36	26	M5	227,80	406
	HSK-A 63	8	200	21	27	36	26	M6	227,80	408
	HSK-A 63	10	200	24	32	41	31	M8x1	227,80	410
	HSK-A 63	12	200	24	32	47	37	M10x1	227,80	412
	HSK-A 63	14	200	27	34	47	37	M10x1	227,80	414
	HSK-A 63	16	200	27	34	50	40	M12x1	227,80	416
	HSK-A 63	18	200	33	42	50	40	M12x1	227,80	418
	HSK-A 63	20	200	33	42	52	42	M16x1	227,80	420
	HSK-A 63	25	200	44	53	62	52	M16x1	227,80	425
	HSK-A 63	32	200	44	53	62	52	M16x1	227,80	432

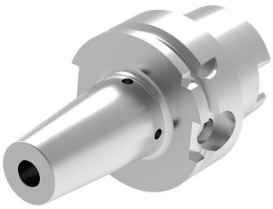
→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 316 ... EUR Y8	
short	HSK-A 63	3	80	10	15	28	12	M6	193,30	103
	HSK-A 63	4	80	15	22	28	16	M6	187,90	104
	HSK-A 63	5	80	15	22	30	20	M6	187,90	105
	HSK-A 63	6	80	21	27	36	26	M5	170,70	106
	HSK-A 63	8	80	21	27	36	26	M6	170,70	108
	HSK-A 63	10	85	24	32	41	31	M8x1	170,70	110
	HSK-A 63	12	90	24	32	47	37	M10x1	170,70	112
	HSK-A 63	14	90	27	34	47	37	M10x1	170,70	114
	HSK-A 63	16	95	27	34	50	40	M12x1	170,70	116
	HSK-A 63	18	95	33	42	50	40	M12x1	170,70	118
	HSK-A 63	20	100	33	42	52	42	M16x1	170,70	120
	HSK-A 63	25	115	44	53	58	48	M16x1	170,70	125
	HSK-A 63	32	120	44	53	62	52	M16x1	170,70	132

→ Min. clamping depth, Page 300


Stop screw IK


Stop screw IK


Sealing screw

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
3 - 5	M6x14 - SW2	8,35	417				M2x6	0,49	512
6				M5x12,5 - SW2,5	8,35	418	M2x6	0,49	512
8				M6x12,5 - SW3	8,35	419	M2x6	0,49	512
10				M8x1x13,5 - SW3	8,35	420	M2x6	0,49	512
12 - 14				M10x1x13,5 - SW5	8,35	421	M2x6	0,49	512
16 - 18	M12x1 - SW5	8,38	510				M2x6	0,49	512
20 - 32	M16x1 - SW5	4,95	511				M2x6	0,49	512

Accessories


Shrink fit extension
→ 235

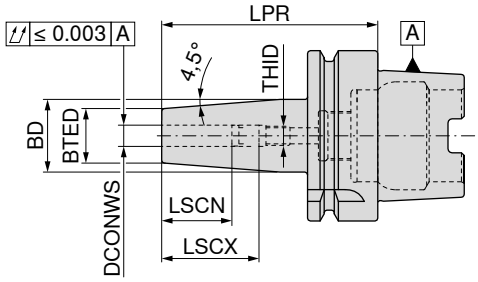

Coolant transfer pipe
→ 163


Others
→ 273

Shrink fit adapters 4.5°

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

TG







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 305 ... EUR Y8	
short	HSK-A 100	6	85	21	27	36	26	M5	208,50	106
	HSK-A 100	8	85	21	27	36	26	M6	208,50	108
	HSK-A 100	10	90	24	32	41	31	M8x1	208,50	110
	HSK-A 100	12	95	24	32	47	37	M10x1	208,50	112
	HSK-A 100	14	95	27	34	47	37	M10x1	208,50	114
	HSK-A 100	16	100	27	34	50	40	M12x1	208,50	116
	HSK-A 100	18	100	33	42	50	40	M12x1	208,50	118
	HSK-A 100	20	105	33	42	52	42	M16x1	208,50	120
	HSK-A 100	25	115	44	53	58	48	M16x1	208,50	125
	HSK-A 100	32	120	44	53	62	52	M16x1	208,50	132
long	HSK-A 100	6	120	21	27	36	26	M5	240,80	206
	HSK-A 100	8	120	21	27	36	26	M6	240,80	208
	HSK-A 100	10	120	24	32	41	31	M8x1	240,80	210
	HSK-A 100	12	120	24	32	47	37	M10x1	240,80	212
	HSK-A 100	14	120	27	34	47	37	M10x1	240,80	214
	HSK-A 100	16	120	27	34	50	40	M12x1	240,80	216
	HSK-A 100	18	120	33	42	50	40	M12x1	240,80	218
	HSK-A 100	20	120	33	42	52	42	M16x1	240,80	220
	HSK-A 100	25	120	44	53	58	48	M16x1	240,80	225
extra-long	HSK-A 100	6	160	21	27	36	26	M5	278,60	306
	HSK-A 100	8	160	21	27	36	26	M6	278,60	308
	HSK-A 100	10	160	24	32	41	31	M8x1	278,60	310
	HSK-A 100	12	160	24	32	47	37	M10x1	278,60	312
	HSK-A 100	14	160	27	34	47	37	M10x1	278,60	314
	HSK-A 100	16	160	27	34	50	40	M12x1	278,60	316
	HSK-A 100	18	160	33	42	50	40	M12x1	278,60	318
	HSK-A 100	20	160	33	42	52	42	M16x1	278,60	320
	HSK-A 100	25	160	44	53	58	48	M16x1	278,60	325
	HSK-A 100	32	160	44	53	62	52	M16x1	278,60	332

→ Min. clamping depth, Page 300



Stop screw IK

83 950 ...

Spare parts DCONWS		EUR Y7	
6	M5x12,5 - SW2,5	8,35	418
8	M6x12,5 - SW3	8,35	419
10	M8x1x13,5 - SW3	8,35	420
12 - 14	M10x1x13,5 - SW5	8,35	421
16 - 18	M12x1x13,5 - SW5	8,35	422
20 - 32	M16x1x13,5 - SW8	9,62	424

Accessories



Shrink fit extension
→ 235



Coolant transfer pipe
→ 163



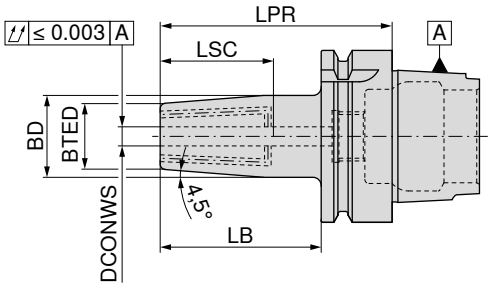
Others
→ 273

Shrink fit adapters 4.5°

- Version for high clamping force
- for solid carbide and HSS shanks with h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:
Holder with adjustable back stop

TG







G 2,5 n_{max} 25000

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LB mm	LSC mm	84 717 ... EUR Y8	
short	HSK-A 63	6	80	21	26	54	36,5	181,50	606
	HSK-A 63	8	80	21	26	54	36,5	181,50	608
	HSK-A 63	10	85	24	30	59	41,5	181,50	610
	HSK-A 63	12	90	24	30	64	46,5	181,50	612
	HSK-A 63	14	90	27	34	64	46,5	181,50	614
	HSK-A 63	16	95	27	34	69	49,5	181,50	616
	HSK-A 63	18	95	33	41	69	49,5	181,50	618
	HSK-A 63	20	100	33	41	74	51,5	181,50	620
	HSK-A 63	25	115	44	52	89	57,5	191,20	625
	HSK-A 63	32	120	44	52	94	61,5	252,80	632
	HSK-A 100	6	85	21	26	56	36,5	256,00	106
	HSK-A 100	8	85	21	26	56	36,5	256,00	108
	HSK-A 100	10	90	24	30	56	41,5	256,00	110
	HSK-A 100	12	95	24	30	66	46,5	256,00	112
	HSK-A 100	14	95	27	34	66	46,5	256,00	114
	HSK-A 100	16	100	27	34	71	49,5	256,00	116
	HSK-A 100	18	100	33	42	71	49,5	256,00	118
	HSK-A 100	20	105	33	42	76	51,5	256,00	120
	HSK-A 100	25	115	44	53	86	57,5	265,70	125
	HSK-A 100	32	120	44	53	91	61,5	273,30	132

→ Min. clamping depth, Page 300


Stop screw IK


Sealing screw

Spare parts DCONWS	62 950 ... Stop screw IK EUR W7			62 950 ... Sealing screw EUR W7		
6	M5x0,8x14	7,01	402	M3x6	1,36	411
8	M6x1x16	7,01	403	M3x6	1,36	411
10	M8x1x20	7,88	404			
12 - 18	M10x1x20	8,80	405			
20 - 32	M12x1x20	9,11	406			

Sealing screw for closing of two additional coolant holes.

Accessories


Shrink fit extension
→ 235


Coolant transfer pipe
→ 163

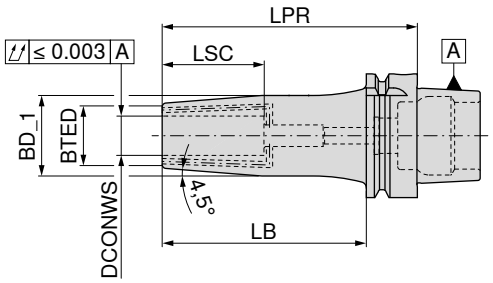

Others
→ 273

Shrink fit adapters 4.5°

- ▲ Version for high clamping force
- ▲ for solid carbide and HSS shanks with h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:
Holder with adjustable back stop

TG









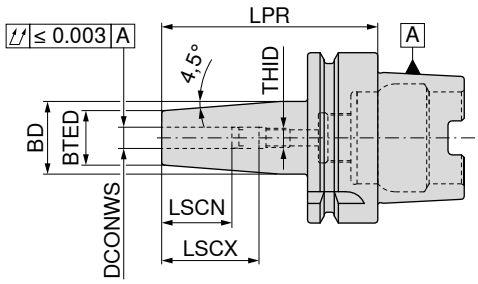
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2,5 n_{max} 25000 **84 720 ...** EUR Y8		G 2,5 n_{max} 25000 **84 723 ...** EUR Y8	
medium length	HSK-A 63	6	130	21	27	104	36,5	252,80	606		
	HSK-A 63	8	130	21	27	104	36,5	252,80	608		
	HSK-A 63	10	130	24	32	104	41,5	252,80	610		
	HSK-A 63	12	130	24	32	104	46,5	252,80	612		
	HSK-A 63	14	130	27	34	104	46,5	252,80	614		
	HSK-A 63	16	130	27	34	104	49,5	252,80	616		
	HSK-A 63	18	130	33	41	104	49,5	252,80	618		
	HSK-A 63	20	130	33	41	104	51,5	252,80	620		
	HSK-A 100	6	130	21	27	101	36,5	347,70	106		
	HSK-A 100	8	130	21	27	101	36,5	347,70	108		
	HSK-A 100	10	130	24	32	101	41,5	347,70	110		
	HSK-A 100	12	130	24	32	101	46,5	347,70	112		
	HSK-A 100	14	130	27	34	101	46,5	347,70	114		
	HSK-A 100	16	130	27	34	101	49,5	347,70	116		
	HSK-A 100	18	130	33	41	101	49,5	347,70	118		
	HSK-A 100	20	130	33	41	101	51,5	347,70	120		
extra-long	HSK-A 63	6	160	21	27	134	36,5			277,60	606
	HSK-A 63	8	160	21	27	134	36,5			277,60	608
	HSK-A 63	10	160	24	32	134	41,5			277,60	610
	HSK-A 63	12	160	24	32	134	46,5			277,60	612
	HSK-A 63	14	160	27	34	134	46,5			277,60	614
	HSK-A 63	16	160	27	34	134	49,5			277,60	616
	HSK-A 63	18	160	33	41	134	49,5			277,60	618
	HSK-A 63	20	160	33	41	134	51,5			277,60	620
	HSK-A 63	25	160	44	52	134	57,5			277,60	625
	HSK-A 100	6	160	21	27	131	36,5			381,20	106
	HSK-A 100	8	160	21	27	131	36,5			381,20	108
	HSK-A 100	10	160	24	32	131	41,5			381,20	110
	HSK-A 100	12	160	24	32	131	46,5			381,20	112
	HSK-A 100	14	160	27	34	131	46,5			381,20	114
	HSK-A 100	16	160	27	34	131	49,5			381,20	116
	HSK-A 100	18	160	33	41	131	49,5			381,20	118
	HSK-A 100	20	160	33	41	131	51,5			381,20	120
	HSK-A 100	25	160	44	53	131	57,5			381,20	125
	HSK-A 100	32	160	44	53	131	61,5			381,20	132

→ Min. clamping depth, Page 300

Shrink fit adapters 4.5°

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

TG







G 2,5 n_{max} 18000

82 310 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	EUR Y8	
short	HSK-A 63	3	80	10	15	22	12		110,10	10357
	HSK-A 63	4	80	15	22	26	16		110,10	10457
	HSK-A 63	5	80	15	22	30	20		110,10	10557
	HSK-A 63	6	80	21	27	36	26	M5	110,10	10657
	HSK-A 63	8	80	21	27	36	26	M6	110,10	10857
	HSK-A 63	10	85	24	32	41	31	M8x1	110,10	11057
	HSK-A 63	12	90	24	32	47	37	M10x1	110,10	11257
	HSK-A 63	14	90	27	34	47	37	M10x1	110,10	11457
	HSK-A 63	16	95	27	34	50	40	M12x1	110,10	11657
	HSK-A 63	18	95	33	42	50	40	M12x1	110,10	11857
	HSK-A 63	20	100	33	42	52	42	M16x1	110,10	12057
	HSK-A 63	25	115	44	53	58	48	M16x1	110,10	12557
	HSK-A 63	32	120	44	53	62	52	M16x1	110,10	13257
long	HSK-A 63	3	120	10	20	12	12		177,80	20357
	HSK-A 63	4	120	15	22	16	16		173,60	20457
	HSK-A 63	5	120	15	22	20	20		173,60	20557
	HSK-A 63	6	120	21	27	36	26	M5	158,80	20657
	HSK-A 63	8	120	21	27	36	26	M6	158,80	20857
	HSK-A 63	10	120	24	32	41	31	M8x1	158,80	21057
	HSK-A 63	12	120	24	32	47	37	M10x1	158,80	21257
	HSK-A 63	14	120	27	34	47	37	M10x1	158,80	21457
	HSK-A 63	16	120	27	34	50	40	M12x1	158,80	21657
	HSK-A 63	18	120	33	42	50	40	M12x1	158,80	21857
	HSK-A 63	20	120	33	42	52	42	M16x1	158,80	22057
	HSK-A 63	25	120	44	53	58	48	M16x1	158,80	22557
extra-long	HSK-A 63	3	160	10	20	12	12		199,10	30357
	HSK-A 63	4	160	15	22	16	16		194,80	30457
	HSK-A 63	5	160	15	22	20	20		194,80	30557
	HSK-A 63	6	160	21	27	36	26	M5	177,80	30657
	HSK-A 63	8	160	21	27	36	26	M6	177,80	30857
	HSK-A 63	10	160	24	32	41	31	M8x1	177,80	31057
	HSK-A 63	12	160	24	32	47	37	M10x1	177,80	31257
	HSK-A 63	14	160	27	34	47	37	M10x1	177,80	31457
	HSK-A 63	16	160	27	34	50	40	M12x1	177,80	31657
	HSK-A 63	18	160	33	42	50	40	M12x1	177,80	31857
	HSK-A 63	20	160	33	42	52	42	M16x1	177,80	32057
	HSK-A 63	25	160	44	53	62	52	M16x1	177,80	32557

→ Min. clamping depth, Page 300



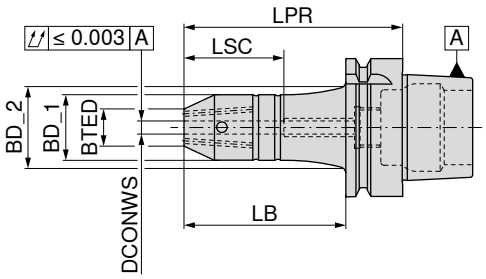
Stop screw IK

82 950 ...

Spare parts DCONWS		EUR Y8	
3 - 5	M6x16 - SW3	2,32	30100
6	M5x16 - SW2,5	2,17	30000
8	M6x16 - SW3	2,32	30100
10	M8x1x16 - SW4	2,46	30200
12 - 14	M10x1x14 - SW5	2,61	30300
16 - 18	M12x1x16 - SW6	2,75	30400
20 - 32	M16x1x16 - SW8	2,89	30500

Sidelock holder (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**





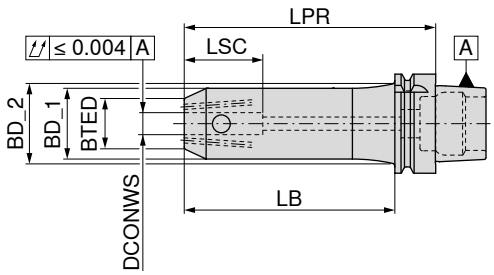
	Adapter	DCONWS $_{H5}$ mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	G 2,5 n_{max} 18000 84 700 ... EUR Y8		G 2,5 n_{max} 18000 84 701 ... EUR Y8		G 2,5 n_{max} 18000 84 704 ... EUR Y8		G 2,5 n_{max} 18000 84 705 ... EUR Y8	
short	HSK-A 63	6	65	30	17	39	34		192,30	606	164,20	606 [1]				
	HSK-A 63	8	65	32	20	39	34		192,30	608	154,40	608 [1]				
	HSK-A 63	10	65	35	25	39	39		192,30	610	154,40	610 [1]				
	HSK-A 63	12	80	42	30	54	44		192,30	612	154,40	612 [1]				
	HSK-A 63	14	80	45	32	54	44		192,30	614	154,40	614 [1]				
	HSK-A 63	16	80	48	36	54	47		192,30	616	154,40	616 [1]				
	HSK-A 63	18	80	48	38	54	47		192,30	618	154,40	618 [1]				
	HSK-A 63	20	80	52	40	54	49		192,30	620	154,40	620 [1]				
	HSK-A 63	25	110	63	45	84	54		200,90	625	170,70	625 [1]				
	HSK-A 63	32	110	72	52	84	58		230,10	632	181,50	632 [1]				
	HSK-A 100	6	80	30	17	51	34		234,30	106						
	HSK-A 100	8	80	32	20	51	34		225,80	108						
	HSK-A 100	10	80	35	25	51	39		225,80	110						
	HSK-A 100	12	80	42	30	51	44		225,80	112						
	HSK-A 100	14	80	45	32	51	44		225,80	114						
	HSK-A 100	16	100	48	36	71	47		225,80	116						
	HSK-A 100	18	100	48	38	71	47		225,80	118						
	HSK-A 100	20	100	52	40	71	49		225,80	120						
	HSK-A 100	25	100	65	45	71	54		234,30	125						
	HSK-A 100	32	100	72	52	71	58		245,10	132						
	HSK-A 100	40	110	80	60	81	68		285,10	140						
long	HSK-A 63	6	100	30	17	74	34	36,2					169,50	606	127,40	606 [1]
	HSK-A 63	8	100	32	20	74	34	38,2					164,20	608	122,10	608 [1]
	HSK-A 63	10	100	35	25	74	39	41,2					164,20	610	122,10	610 [1]
	HSK-A 63	12	100	42	30	74	44						164,20	612	122,10	612 [1]
	HSK-A 63	14	100	45	32	74	44						164,20	614	122,10	614 [1]
	HSK-A 63	16	100	48	36	74	47						164,20	616	122,10	616 [1]
	HSK-A 63	18	100	48	38	74	47						164,20	618	122,10	618 [1]
	HSK-A 63	20	100	52	40	74	49						164,20	620	122,10	620 [1]

1) without threads for balancing screws

Spare parts and accessories on → **Page 134**

Sidelock holder (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**







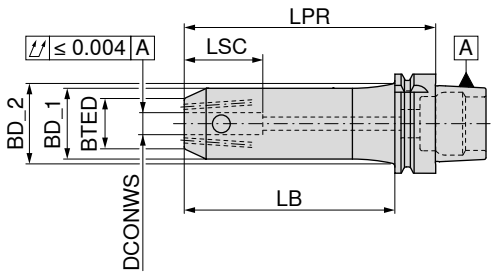


	Adapter	DCONWS mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	G 2,5 n_{max} 18000 **84 706 ...** EUR Y8		G 2,5 n_{max} 18000 **84 708 ...** EUR Y8	
medium length	HSK-A 63	6	130	30	17	104	34	36,2	190,00	**606**	132,80	**606**
	HSK-A 63	8	130	32	20	104	34	38,2	180,40	**608**	129,70	**608**
	HSK-A 63	10	130	35	25	104	39	41,2	180,40	**610**	129,70	**610**
	HSK-A 63	12	130	42	30	104	44	48,2	180,40	**612**	129,70	**612**
	HSK-A 63	14	130	45	32	104	44	50,5	180,40	**614**	129,70	**614**
	HSK-A 63	16	130	48	36	104	47	50,1	180,40	**616**	129,70	**616**
	HSK-A 63	18	130	48	38	104	47	50,1	180,40	**618**	129,70	**618**
	HSK-A 63	20	130	52	40	104	49		180,40	**620**	139,40	**620**
	HSK-A 63	25	130	63	45	104	54		190,00	**625**		
	HSK-A 63	32	130	72	52	104	58		199,80	**632**		

Spare parts and accessories on → **Page 134**

Sidelock holder (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**







G 2,5 n_{max} 18000

	Adapter	DCONWS $_{H5}$ mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	84 707 ... EUR Y8	
extra-long	HSK-A 63	6	160	30	17	134	34	36,2	202,00	606
	HSK-A 63	8	160	32	20	134	34	38,2	194,40	608
	HSK-A 63	10	160	35	25	134	39	41,2	194,40	610
	HSK-A 63	12	160	42	30	134	44	48,2	194,40	612
	HSK-A 63	14	160	45	32	134	44	50,5	194,40	614
	HSK-A 63	16	160	48	36	134	47	50,1	194,40	616
	HSK-A 63	18	160	48	38	134	47	50,1	194,40	618
	HSK-A 63	20	160	52	40	134	49		194,40	620
	HSK-A 63	25	160	63	45	134	54		194,40	625
	HSK-A 100	6	160	30	17	131	34	38,2	242,00	106
	HSK-A 100	8	160	32	20	131	34	40,2	231,10	108
	HSK-A 100	10	160	35	25	131	39	43,2	229,00	110
	HSK-A 100	12	160	42	30	131	44	50,2	229,00	112
	HSK-A 100	14	160	45	32	131	44	53,2	229,00	114
	HSK-A 100	16	160	48	36	131	47	56,2	229,00	116
	HSK-A 100	18	160	48	38	131	47	56,2	229,00	118
	HSK-A 100	20	160	52	40	131	49	60,2	229,00	120
	HSK-A 100	25	160	65	45	131	54	73,2	229,00	125
	HSK-A 100	32	160	72	52	134	58	79,5	229,00	132


Grubscrew


Sealing screw

Spare parts DCONWS $_{H5}$		62 950 ... EUR W7			62 950 ... EUR W7	
6	M6x10	5,76	422	M3x6	1,36	411
8	M8x10	5,76	423	M3x6	1,36	411
10	M10x12	7,14	424	M3x6	1,36	411
12 - 14	M12x16	7,14	425	M3x6	1,36	411
16 - 18	M14x16	9,57	426	M3x6	1,36	411
20	M16x16	11,24	427	M3x6	1,36	411
25	M18x2x20	12,85	428	M4x8	1,36	412
32	M20x2x20	15,87	429	M4x8	1,36	412

Sealing screw for closing of two additional coolant holes.

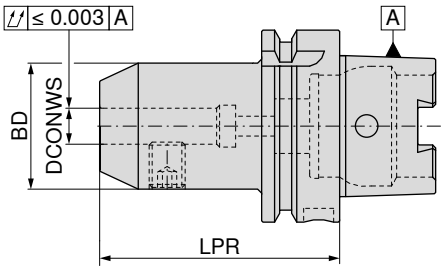
Accessories


Coolant transfer pipe
→ 163


Others
→ 273

Sidelock holder (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**





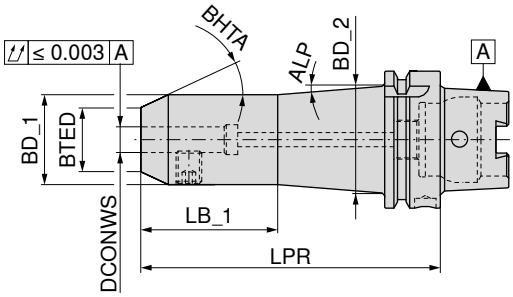




	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	G 2,5 n_{max} 18000 **81 736 ...** EUR Y8		G 2,5 n_{max} 18000 **81 731 ...** EUR Y8		G 2,5 n_{max} 18000 **81 730 ...** EUR Y8	
short	HSK-A 32	6	60	25			114,20	306		
	HSK-A 32	8	60	28			108,40	308		
	HSK-A 32	10	65	35			108,40	310		
	HSK-A 32	12	75	42			108,40	312		
	HSK-A 32	16	75	48			108,40	316		
	HSK-A 40	6	60	25			108,40	406		
	HSK-A 40	8	60	28			103,20	408		
	HSK-A 40	10	65	34			103,20	410		
	HSK-A 40	12	70	42			103,20	412		
	HSK-A 40	16	80	48			103,20	416		
	HSK-A 40	20	80	52			103,20	420		
	HSK-A 50	6	65	25			115,90	506		
	HSK-A 50	8	65	28			108,40	508		
	HSK-A 50	10	65	35			108,40	510		
	HSK-A 50	12	80	42			108,40	512		
	HSK-A 50	16	80	48			108,40	516		
	HSK-A 50	20	80	52			108,40	520		
	HSK-A 50	25	105	65			117,60	525		
	HSK-A 50	32	120	72			115,90	532		
	HSK-A 63	6	65	25			110,00	606	142,80	606
	HSK-A 63	8	65	28			110,00	608	136,10	608
	HSK-A 63	10	65	35			110,00	610	136,10	610
	HSK-A 63	12	80	42			110,00	612	136,10	612
	HSK-A 63	14	80	44			110,00	614	136,10	614
	HSK-A 63	16	80	48			110,00	616	136,10	616
	HSK-A 63	18	80	50			110,00	618	136,10	618
	HSK-A 63	20	80	52			110,00	620	136,10	620
	HSK-A 63	25	110	65			120,90	625	142,80	625
	HSK-A 63	32	110	72			128,40	632	163,00	632
	HSK-A 63	40	125	80					178,00	640
	HSK-A 100	6	80	25			142,80	106	167,10	106
	HSK-A 100	8	80	28			139,50	108	160,40	108
	HSK-A 100	10	80	35			139,50	110	160,40	110
	HSK-A 100	12	80	42			139,50	112	160,40	112
	HSK-A 100	14	80	44			139,50	114	160,40	114
	HSK-A 100	16	100	48			139,50	116	160,40	116
	HSK-A 100	18	100	50			139,50	118	160,40	118
	HSK-A 100	20	100	52			139,50	120	160,40	120
	HSK-A 100	25	100	65			150,30	125	167,10	125
	HSK-A 100	32	100	72			153,70	132	173,80	132
	HSK-A 100	40	105	80			157,90	140	203,20	140
long	HSK-A 63	6	100	25	126,80	606				
	HSK-A 63	8	100	28	126,00	608				
	HSK-A 63	10	100	35	126,00	610				
	HSK-A 63	12	100	42	126,00	612				
	HSK-A 63	16	100	48	126,00	616				
	HSK-A 63	40	125	80	141,10	640				

Sidelock holder (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**







G 2,5 n_{max} 18000

81 732 ...

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD_1 mm	BD_2 mm	BTED mm	LB_1 mm	ALP °	BHTA	EUR Y8	
extra-long	HSK-A 63	6	160	25	34,7	15	50	3,5	25°	142,80	**606**
	HSK-A 63	8	160	28	37,9	20	50	3,5	25°	138,50	**608**
	HSK-A 63	10	160	35	43,7	25	60	3,5	25°	138,50	**610**
	HSK-A 63	12	160	42		30			25°	138,50	**612** [1]
	HSK-A 63	16	160	48		36			25°	138,50	**616** [1]
	HSK-A 63	20	160	52		40			25°	138,50	**620** [1]
	HSK-A 100	6	160	25	45,2	15	50	7,5	25°	172,90	**106**
	HSK-A 100	8	160	28	48,7	20	50	7,5	25°	168,70	**108**
	HSK-A 100	10	160	35	51,2	25	65	7,5	25°	168,70	**110**
	HSK-A 100	12	160	42	59,5	30	60	7,5	25°	168,70	**112**
	HSK-A 100	16	160	48	62,9	36	70	7,5	25°	168,70	**116**
	HSK-A 100	20	160	52	69,6	40	60	7,5	25°	168,70	**120**
	HSK-A 100	25	160	65	77,5	45	80	7,5	45°	168,70	**125**

1) Cylindrical shank adapter



Grubscrew

62 950 ...

Spare parts DCONWS $_{H4}$		EUR W7	
6	M6x10	0,68	**006**
8	M8x10	0,79	**008**
10	M10x12	1,05	**010**
12	M12x16	1,06	**012**
16	M14x16	1,32	**016**
20	M16x16	1,60	**020**
25	M18x2x20	2,93	**025**

Accessories



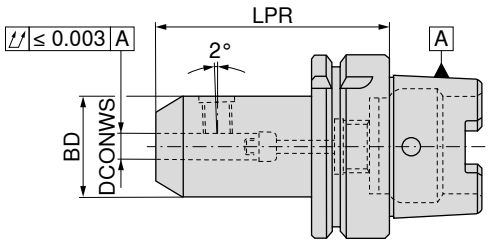
Coolant transfer pipe
→ 163



Others
→ 273

Tool holder for tools with angled clamping flat (Whistle Notch)

- For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- also available with Balluff chip **on request**





G 2,5 n_{max} 18000

81 733 ...

	Adapter	DCONWS $_{H4}$ mm	LPR mm	BD mm	EUR Y8	
short	HSK-A 63	6	80	25	128,40	606
	HSK-A 63	8	80	28	123,10	608
	HSK-A 63	10	80	35	123,10	610
	HSK-A 63	12	90	42	123,10	612
	HSK-A 63	14	90	44	123,10	614
	HSK-A 63	16	100	48	123,10	616
	HSK-A 63	18	100	50	123,10	618
	HSK-A 63	20	100	52	123,10	620
	HSK-A 63	25	110	65	132,10	625
	HSK-A 63	32	110	72	142,80	632
	HSK-A 100	6	90	25	157,90	106
	HSK-A 100	8	90	28	151,60	108
	HSK-A 100	10	90	35	151,60	110
	HSK-A 100	12	100	42	151,60	112
	HSK-A 100	14	100	44	151,60	114
	HSK-A 100	16	100	48	151,60	116
	HSK-A 100	18	100	50	151,60	118
	HSK-A 100	20	110	52	151,60	120
	HSK-A 100	25	120	65	163,30	125
	HSK-A 100	32	120	72	167,80	132
	HSK-A 100	40	120	80	173,10	140


Grubscrew


Stop screw IK

62 950 ... **81 950 ...**

Spare parts DCONWS $_{H4}$		EUR W7			EUR Y8	
6	M6x10	0,68	006	M5x15	1,36	050
8	M8x10	0,79	008	M6x15	1,55	051
10	M10x12	1,05	010	M8x15	1,68	052
12 - 14	M12x16	1,06	012	M10x15	1,68	053
16 - 18	M14x16	1,32	016	M12x15	2,06	054
20	M16x16	1,60	020	M16x15	2,32	055
25	M18x2x20	2,93	025	M20x15	2,58	056
32	M20x2x20	3,24	032	M20x15	2,58	056
40	M20x2x20	3,24	032	M22x1,5x15	3,54	057

Accessories

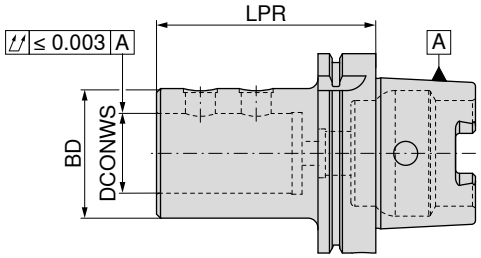

Coolant transfer pipe
→ 163


Others
→ 273

16

Indexable insert drill adapter ISO 12164 HSK Form A

▲ also available with Balluff chip **on request**







G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	BD mm	10 842 ... EUR 2E/45	
HSK-A 63	20	80	40	180,00	**320**
HSK-A 63	25	90	45	180,00	**325**
HSK-A 63	32	90	52	180,00	**332**
HSK-A 63	40	110	65	180,00	**340**
HSK-A 100	20	90	40	201,90	**420**
HSK-A 100	25	100	45	201,90	**425**
HSK-A 100	32	100	52	201,90	**432**
HSK-A 100	40	110	65	201,90	**440**
HSK-A 100	50	120	75	201,90	**450**

Suitable eccentric sleeves can be found in → **Chapter 3, Indexable insert drilling.**



Grubscrew

Spare parts DCONWS		10 950 ... EUR 2A/28	
20	M10x1x10	3,96	**001**
25 - 32	M12x1x10	4,03	**002**
40 - 50	M16x1x12	4,03	**003**

Accessories



Coolant transfer pipe
→ 163



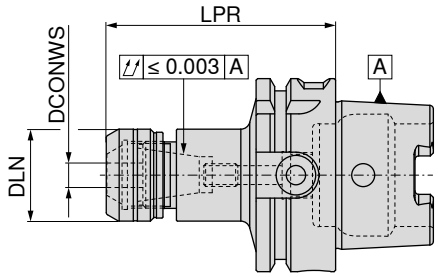
Others
→ 273

ER Precision Collet chuck – PCC

- For standard or sealing disc lock nuts
- Maximum clamping range covered according to ISO tolerance field H10
- Roll key required for clamping
- p_{max} = 100 bar
- also available with Balluff chip **on request**

Scope of supply:

Base body with lock nut and backstop screw





NEW



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	82 700 ... EUR Y8	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	120,70	**11057**
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	126,80	**21057**
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	120,70	**11657**
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	126,80	**21657**
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	120,70	**12057**
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	126,80	**22057**
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	210,00	**21655**
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	281,50	**41655**
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	210,00	**22055**
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	281,50	**42055**

Dimension LPR is 4.5 mm longer for ER16 and ER32 and 5.0 mm longer for ER25 when using thro' coolant lock nut






Spare parts for collet	Lock nut IK 82 950 ... EUR Y8		Lock nut 82 950 ... EUR Y8			Backstop screw PCC 2 82 950 ... EUR Y8			Backstop screw PCC 1 82 950 ... EUR Y8	
426E (ER16)	35,14	**11000**	33,11	**01000**				M8X3,0	3,31	**00100**
430E (ER25)	35,14	**11600**	33,11	**01600**	M18x1,5	4,50	**00200**	M8x8	3,31	**00300**
470E (ER32)	35,14	**12000**	33,11	**02000**	M18x1,5	4,50	**00200**	M8x8	3,31	**00300**

Accessories





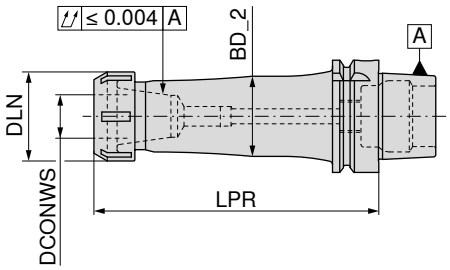
ER collet	Sealing ring	Roll key
→ 256–266	→ 270	→ 275

16

ER Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:
Holder with lock nut and adjustable back stop





	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	TQX Nm	for collet	G 2,5 n_{max} 18000 **84 726 ...** EUR Y8		G 2,5 n_{max} 18000 **84 732 ...** EUR Y8		G 2,5 n_{max} 18000 **84 738 ...** EUR Y8	
long	HSK-A 63	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	162,00	610				
	HSK-A 63	1 - 16	100	42	37	24 - 104	430E (ER25)	194,40	616				
	HSK-A 63	2 - 20	100	50	45	24 - 136	470E (ER32)	211,70	620				
	HSK-A 63	3 - 26	100	63	52	176	472E (ER40)	234,30	626				
	HSK-A 100	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	207,40	110				
	HSK-A 100	1 - 16	100	42	37	24 - 104	430E (ER25)	231,10	116				
	HSK-A 100	2 - 20	100	50	45	24 - 136	470E (ER32)	249,50	120				
	HSK-A 100	3 - 26	100	63	56	176	472E (ER40)	265,70	126				
extra-long	HSK-A 63	1 - 10	160	22	27	8 - 56	426E (ER16 mini)					230,10	610
	HSK-A 63	1 - 16	160	42	37	24 - 104	430E (ER25)					232,30	616
	HSK-A 63	2 - 20	160	50	45	24 - 136	470E (ER32)					250,60	620
	HSK-A 63	3 - 26	160	63	52	176	472E (ER40)					259,30	626
	HSK-A 100	1 - 10	200	22	27	8 - 56	426E (ER16 mini)					346,70	110
	HSK-A 100	1 - 16	200	42	37	24 - 104	430E (ER25)					346,70	116
	HSK-A 100	2 - 20	200	50	45	24 - 136	470E (ER32)					362,90	120
	HSK-A 100	3 - 26	200	63	56	176	472E (ER40)					392,00	126
	HSK-A 100	1 - 10	160	22	27	8 - 56	426E (ER16 mini)			249,50	110		
	HSK-A 100	1 - 16	160	42	37	24 - 104	430E (ER25)			273,30	116		
	HSK-A 100	2 - 20	160	50	45	24 - 136	470E (ER32)			290,60	120		
	HSK-A 100	3 - 26	160	63	56	176	472E (ER40)			315,40	126		

Spare parts for collet	Lock nut IK **83 950 ...** EUR Y8		Lock nut **62 950 ...** EUR W7		Y clamping key **83 357 ...** EUR Y8		ER Mini clamping key **83 950 ...** EUR Y8		Mini lock nut **62 950 ...** EUR W7		Mini IK **83 950 ...** EUR Y8		Stop screw IK **62 950 ...** EUR W7	
426E (ER16 mini)							16,63	101	24,62	066	37,54	058	7,01	403
430E (ER25)	35,76	055	20,52	055	18,25	125								
470E (ER32)	38,06	056	19,12	056	24,84	132								
472E (ER40)	44,88	057	18,58	057	27,33	140								

Accessories


ER collet
→ 256–266

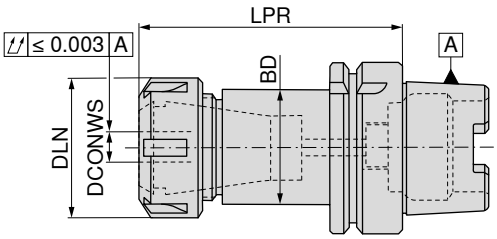

Coolant transfer pipe
→ 163


Others
→ 273

ER-Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:
Toolholder with lock nut and adjustable backstop









	Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	TQX Nm	for collet	G 2,5 n_{max} 18000 **81 735 ...** EUR Y8		G 2,5 n_{max} 18000 **81 737 ...** EUR Y8	
short	HSK-A 32	1 - 10	65	22	19	8 - 56	426E (ER16 mini)	124,90	316		
	HSK-A 32	1 - 16	70	35	30	24 - 104	430E (ER25 mini)	124,90	325		
	HSK-A 40	1 - 10	70	22	22	8 - 56	426E (ER16 mini)	116,90	416		
	HSK-A 40	1 - 16	80	42	35	24 - 104	430E (ER25)	115,20	425		
	HSK-A 50	1 - 10	80	22	22	8 - 56	426E (ER16 mini)	121,30	516		
	HSK-A 50	1 - 16	95	42	42	24 - 104	430E (ER25)	116,90	525		
long	HSK-A 40	2 - 20	100	50	40	24 - 136	470E (ER32)	121,30	432		
	HSK-A 50	2 - 20	100	50	50	24 - 136	470E (ER32)	121,30	532		
	HSK-A 63	1 - 10	100	22	19	8 - 56	426E (ER16 mini)	121,30	616		
	HSK-A 63	1 - 16	100	42	32	24 - 104	430E (ER25)	121,30	625		
	HSK-A 63	2 - 20	100	50	50	24 - 136	470E (ER32)	124,90	632		
	HSK-A 100	1 - 16	100	42	42	24 - 104	430E (ER25)	144,50	125		
	HSK-A 100	2 - 20	100	50	50	24 - 136	470E (ER32)	156,20	132		
medium length	HSK-A 40	1 - 16	120	35	35	24 - 104	430E (ER25 mini)			149,90	425
	HSK-A 63	2 - 26	120	63	50	176	472E (ER40)	130,30	640		
	HSK-A 100	3 - 26	120	63	50	176	472E (ER40)	165,90	140		
extra-long	HSK-A 63	2 - 20	160	50	50	24 - 136	470E (ER32)			167,80	632
	HSK-A 63	3 - 26	160	63	63	176	472E (ER40)			173,10	640
	HSK-A 100	1 - 16	160	42	42	24 - 104	430E (ER25)			186,50	125
	HSK-A 100	2 - 20	160	50	50	24 - 136	470E (ER32)			197,10	132
	HSK-A 100	3 - 26	160	63	63	176	472E (ER40)			206,10	140


Lock nut IK
83 950 ...


Lock nut
62 950 ...


Y clamping key
83 357 ...


ER Mini clamping key
83 950 ...


Mini lock nut
62 950 ...


Mini IK
83 950 ...


Stop screw IK
81 950 ...

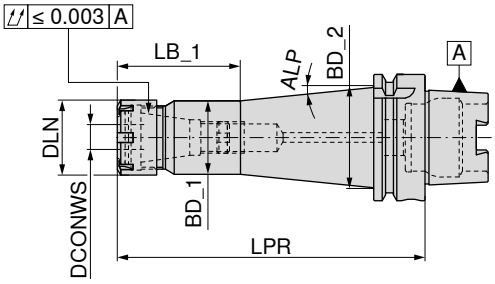
Spare parts for collet	EUR Y8		EUR W7		EUR Y8		EUR Y8		EUR W7		EUR Y8		EUR Y8	
426E (ER16 mini)							16,63	101	24,62	066	37,54	058	1,68	053
430E (ER25 mini)							21,06	103	30,34	069	41,78	060	2,32	055
430E (ER25)	35,76	055	20,52	055	18,25	125							2,32	055
470E (ER32)	38,06	056	19,12	056	24,84	132							3,54	057
472E (ER40)	44,88	057	18,58	057	27,33	140							3,54	057

16

ER-Collet chuck

▲ also available with Balluff chip **on request**

Scope of supply:
Toolholder with lock nut and adjustable backstop







G 2,5 n_{max} 18000

81 737 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_1 mm	BD_2 mm	LB_1 mm	ALP	TQX Nm	for collet	EUR Y8	
medium length	HSK-A 40	1 - 10	120	22	22	29,15	47	4°	8 - 56	426E (ER16 mini)	149,90	416
extra-long	HSK-A 63	1 - 10	160	22	22	35,00	57	5°	8 - 56	426E (ER16 mini)	173,10	616
	HSK-A 63	1 - 16	160	35	35	46,10	68	5°	24 - 104	430E (ER25 mini)	167,80	625


Lock nut IK


Lock nut


Y clamping key


ER Mini clamping key


Mini lock nut


Mini IK


Stop screw IK

	83 950 ...		**62 950 ...**		**83 357 ...**		**83 950 ...**		**62 950 ...**		**83 950 ...**		**81 950 ...**	
Spare parts for collet	**EUR** Y8		**EUR** W7		**EUR** Y8		**EUR** Y8		**EUR** W7		**EUR** Y8		**EUR** Y8	
426E (ER16 mini)							16,63	101	24,62	066	37,54	058	1,68	053
430E (ER25 mini)							21,06	103	30,34	069	41,78	060	2,32	055
430E (ER25)	35,76	055	20,52	055	18,25	125							2,32	055
470E (ER32)	38,06	056	19,12	056	24,84	132							3,54	057
472E (ER40)	44,88	057	18,58	057	27,33	140							3,54	057

Accessories


ER collet
→ 259, 261–265

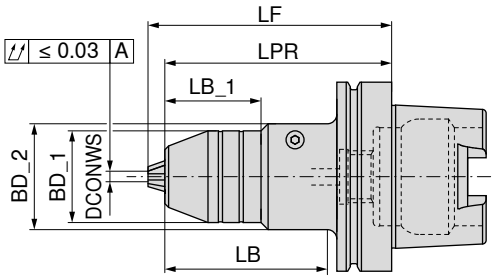

Coolant transfer pipe
→ 163


Others
→ 273

Short drill chuck – NC 2010

- Independent of direction of rotation
- Torque Moment = 12 Nm
- also available with Balluff chip **on request**

Scope of supply:
Toolholder including clamping key SW4







G 6,3 n_{max} 10000

84 716 ...

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	EUR Y8	
HSK-A 63	0,5 - 13	48,5	56	50,9		126,0	116,9	294,90	**613**
HSK-A 63	2,5 - 16	51,0	56	50,9		127,5	116,9	300,30	**616**
HSK-A 100	0,5 - 13	48,5	56	50,9	86	129,0	120,0	360,80	**113**
HSK-A 100	2,5 - 16	51,0	56	50,9	86	130,5	120,0	376,90	**116**

Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories



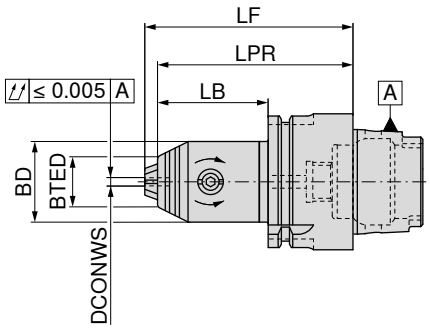
Others

→ 273

Micro-precision collet chuck

- bidirectional
- for speeds up to 60,000 1/min.
- also available with Balluff chip **on request**

Scope of supply:
Holder including clamping wrench SW 2 x 60 mm







G 2,5 n_{max} 25000

Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm	84 710 ... EUR Y7	
HSK-A 32	0,2 - 3,4	26	46	49	19	12	2	530,20	**334**
HSK-A 40	0,2 - 3,4	26	46	49	19	12	2	571,30	**434**
HSK-A 50	0,2 - 3,4	26	52	55	19	12	2	591,80	**534**

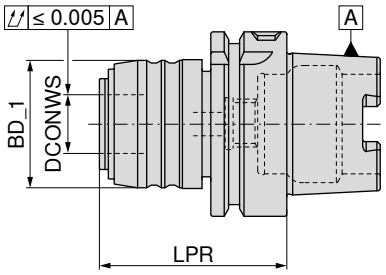
TORX® blade


Torque screwdriver

Spare parts for Article no.	80 950 ... EUR Y7			80 021 ... EUR Y7	
84 710 334	5,77	**152**	1,8 Nm	99,95	**018**
84 710 434	5,77	**152**	1,8 Nm	99,95	**018**
84 710 534	5,77	**152**	1,8 Nm	99,95	**018**

Synchro tapping chuck with minimum length compensation

- For collets according to DIN 6499
- With length compensation under tension and under compression (LZD)
- $p_{max.}$ = 50 bar
- also available with Balluff chip **on request**





Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm	83 724 ... EUR Y8	
HSK-A 63	M3 - M12	1	20	64	43	1,0 / 0,2	208,50	**612**
HSK-A 63	M6 - M20	2	32	97	60	1,0 / 0,2	261,40	**620**
HSK-A 100	M3 - M12	1	20	70	43	1,0 / 0,2	332,70	**112**
HSK-A 100	M6 - M20	2	32	91	60	1,0 / 0,2	390,00	**120**

Accessories

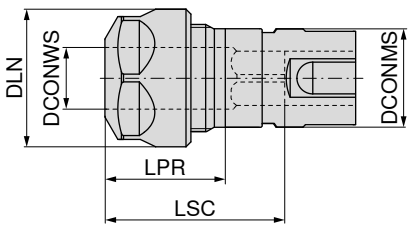

Coolant transfer pipe
→ 163


Others
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

- SZID = for insert size

Scope of supply:
Includes lock nut





SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ... EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	**012**
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	**020**

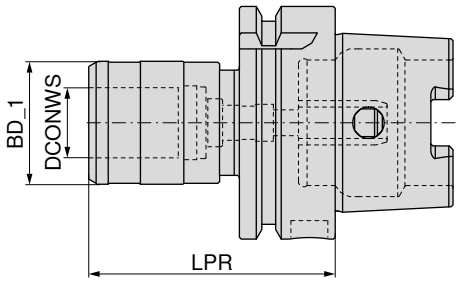
16

Spare parts for synchronous tapping chucks

		 Lock nut			 Lock nut IK			 Lock nut			 Y clamping key	
		62 950 ...			**83 950 ...**			**62 950 ...**			**83 357 ...**	
Spare parts for Article no.		**EUR** W7			**EUR** Y8			**EUR** W7			**EUR** Y8	
83 608 012	M22x1,5 - SW25	18,35	**044**	M22x1,5	31,54	**054**				16,52	**116**	
83 608 020				M32x1,5	35,76	**055**	M32x1,5	20,52	**055**	18,25	**125**	

Quick change tap chuck with length compensation

- With length compensation under tension and compression (LZD)
- also available with Balluff chip **on request**



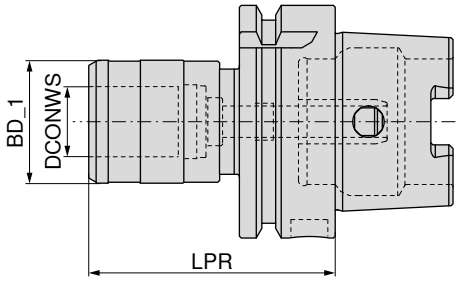




Adapter	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 712 ... EUR Y8	
HSK-A 63	01	72	41	19	7,5	411,50	**612**
HSK-A 63	02	110	60	31	10	477,40	**620**
HSK-A 100	01	80	41	19	7,5	693,40	**112**
HSK-A 100	02	100	60	31	10	693,40	**120**

Quick change tap chuck without length compensation

- $p_{max.}$ = 50 bar
- also available with Balluff chip **on request**







Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	83 710 ... EUR Y8	
HSK-A 63	M3 - M12	01	63	33	19	274,30	**612**
HSK-A 63	M6 - M20	02	89	50	31	347,70	**620**
HSK-A 100	M3 - M12	01	69	33	19	345,70	**112**
HSK-A 100	M6 - M20	02	92	50	31	426,60	**120**

Accessories

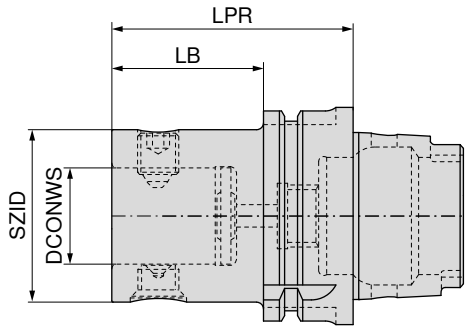

Collet
→ 277–281


Coolant transfer pipe
→ 163


Others
→ 273

Adapter with ABS Connection

▲ also available with Balluff chip **on request**





NEW



G 6,3 n_{max} 10000

84 200 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	EUR 3E	
HSK-A 63	A06 30120	ABS 25	13	50	24	263,70	**06390**
HSK-A 63	A06 30130	ABS 32	16	50	24	263,70	**06389**
HSK-A 63	A06 30140	ABS 40	20	60	34	263,70	**06388**
HSK-A 63	A06 30150	ABS 50	28	70	44	263,70	**06397**
HSK-A 63	A06 30160	ABS 63	34	80	54	263,70	**06396**
HSK-A 63	A06 30170	ABS 80	46	100	74	263,70	**06392**
HSK-A 100	A06 50120	ABS 25	13	60	31	290,60	**10090**
HSK-A 100	A06 50130	ABS 32	16	60	31	290,60	**10089**
HSK-A 100	A06 50140	ABS 40	20	80	51	290,60	**10088**
HSK-A 100	A06 50150	ABS 50	28	80	51	290,60	**10097**
HSK-A 100	A06 50160	ABS 63	34	80	51	290,60	**10096**
HSK-A 100	A06 50170	ABS 80	46	90	61	290,60	**10092**
HSK-A 100	A06 50180	ABS 100	56	100	71	290,60	**10091**

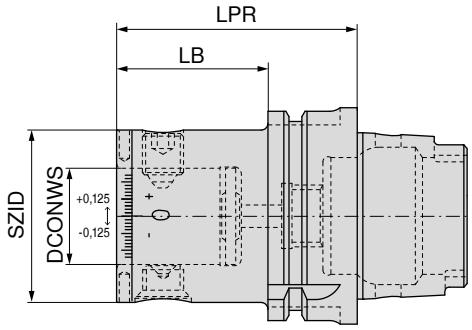
Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

▲ also available with Balluff chip **on request**

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm





NEW

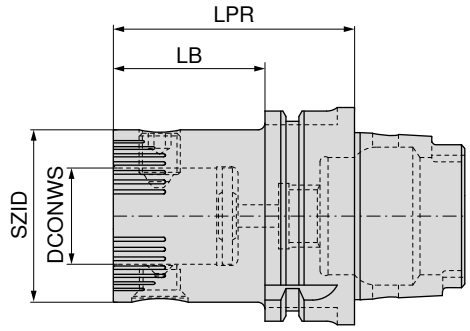


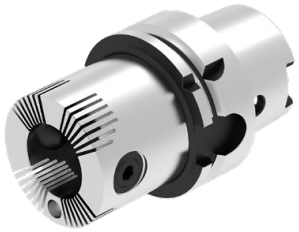
84 203 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	EUR W4	
HSK-A 63	A06 36730	ABS 50	28	70,0	39,5	529,50	**06397**
HSK-A 100	A06 56730	ABS 50	28	75,5	46,5	555,30	**10097**
HSK-A 100	A06 56740	ABS 63	34	80,0	51,0	555,30	**10096**

Torsional vibration dampers with ABS Connection

▲ also available with Balluff chip **on request**





NEW



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	84 206 ... EUR 3E	
HSK-A 63	A06 30251	ABS 50	28	70	44	700,70	**06397**
HSK-A 63	A06 30261	ABS 63	34	80	54	730,00	**06396**
HSK-A 63	A06 30270	ABS 80	46	100	74	1.028,00	**06392**
HSK-A 100	A06 50261	ABS 63	34	80	51	842,40	**10096**
HSK-A 100	A06 50251	ABS 50	28	80	51	764,20	**10097**
HSK-A 100	A06 50270	ABS 80	46	90	61	969,30	**10092**


Clamping screw


Set


Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 50	12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63	14,11	**25500**	31,57	**99400**	17,61	**27300**
ABS 80	15,97	**25600**	35,48	**99300**	19,67	**25100**

Accessories

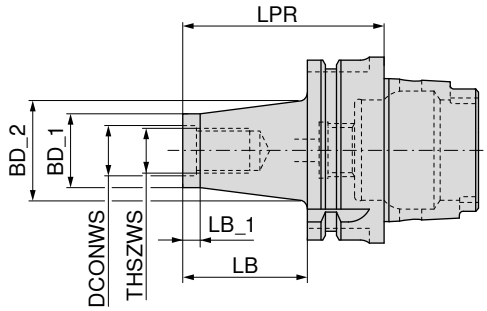

Coolant transfer pipe
→ 163


Extension
→ 193


Others
→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip **on request**







G 2,5 n_{max} 30000

56 714 ...

Adapter	THSZWS	DCONWS mm	LB mm	BD_1 mm	BD_2 mm	LB_1 mm	LPR mm	EUR WA	
HSK-A 63	M8	8,5	25	13,8	15	12	51	174,00	**081**
HSK-A 63	M8	8,5	50	13,8	23	12	76	186,80	**082**
HSK-A 63	M8	8,5	75	13,8	25	12	101	199,80	**083**
HSK-A 63	M8	8,5	100	13,8	30	12	126	215,00	**084**
HSK-A 63	M10	10,5	25	18,0	23	12	51	174,00	**101**
HSK-A 63	M10	10,5	50	18,0	25	12	76	186,80	**102**
HSK-A 63	M10	10,5	75	18,0	30	12	101	199,80	**103**
HSK-A 63	M10	10,5	100	18,0	35	12	126	215,00	**104**
HSK-A 63	M12	12,5	25	21,0	24	12	51	174,00	**121**
HSK-A 63	M12	12,5	50	21,0	30	12	76	186,80	**122**
HSK-A 63	M12	12,5	75	21,0	35	12	101	199,80	**123**
HSK-A 63	M12	12,5	100	21,0	38	12	126	215,00	**124**
HSK-A 63	M12	12,5	125	21,0	43	12	151	230,10	**125**
HSK-A 63	M12	12,5	150	21,0	45	12	176	242,00	**126**
HSK-A 63	M16	17,0	25	29,0	29	12	51	174,00	**161**
HSK-A 63	M16	17,0	50	29,0	34	12	76	186,80	**162**
HSK-A 63	M16	17,0	75	29,0	35	12	101	199,80	**163**
HSK-A 63	M16	17,0	100	29,0	40	12	126	215,00	**164**
HSK-A 63	M16	17,0	125	29,0	44	12	151	230,10	**165**
HSK-A 63	M16	17,0	150	29,0	48	12	176	242,00	**166**

Accessories



Extension-Reduction set 245



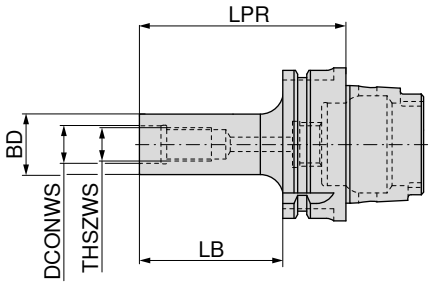
Coolant transfer pipe 163



Others 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip **on request**







G 2,5 n_{max} 25000

Adapter	THSZWS	DCONWS mm	BD mm	LB mm	LPR mm	56 719 ... EUR WA	
HSK-A 63	M8	8,5	13,8	50	76	186,80	**082**
HSK-A 63	M10	10,5	18,0	50	76	186,80	**102**
HSK-A 63	M10	10,5	18,0	100	126	215,00	**104**
HSK-A 63	M12	12,5	21,0	50	76	186,80	**122**
HSK-A 63	M12	12,5	21,0	100	126	215,00	**124**
HSK-A 63	M16	17,0	29,0	50	76	186,80	**162**
HSK-A 63	M16	17,0	29,0	100	126	215,00	**164**

Accessories



Extension-Reduction set 245



Coolant transfer pipe 163

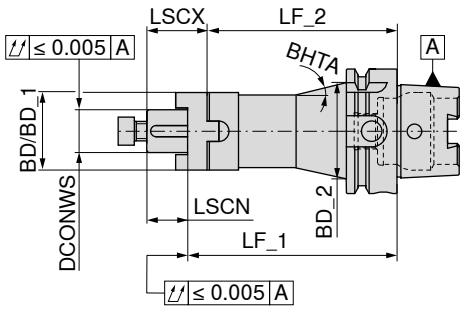


Others 273

Combination shell mill adapter

- For milling cutters with transverse or longitudinal groove according to DIN 6358
- also available with Balluff chip **on request**

Scope of supply:
Toolholder with retaining screw, driving ring and dowel spring










	Adapter	DCONWS mm	LF_1 mm	LF_2 mm	BD mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	BHTA	G 2,5 n_{max} 18000 **81 738 ...** EUR Y8		G 2,5 n_{max} 18000 **81 738 ...** EUR Y8		G 2,5 n_{max} 18000 **81 739 ...** EUR Y8		G 2,5 n_{max} 18000 **81 740 ...** EUR Y8	
short	HSK-A 63	16	60	50	32			27	17		121,30	616						
	HSK-A 63	22	60	48	40			31	19		123,10	622						
	HSK-A 63	27	60	48	48			33	21		127,60	627						
	HSK-A 63	32	60	46	53			38	24		131,10	632						
	HSK-A 63	40	70	56	70			41	27		132,90	640						
	HSK-A 100	16	60	50	32			27	17				164,20	116				
	HSK-A 100	22	60	48	40			31	19				165,90	122				
	HSK-A 100	27	60	48	48			33	21				167,80	127				
	HSK-A 100	32	60	46	58			38	24				175,70	132				
	HSK-A 100	40	70	56	70			41	27				179,30	140				
long	HSK-A 63	16	100	90	32			27	17						132,90	616		
	HSK-A 63	22	100	88	40			31	19						132,90	622		
	HSK-A 63	27	100	88	48			33	21						134,70	627		
	HSK-A 63	32	100	86	58			38	24						142,80	632		
	HSK-A 63	40	100	86	70			41	27						164,20	640		
extra-long	HSK-A 63	16	160	150		32	43,21	27	17	4,5°							149,90	616
	HSK-A 63	22	160	148		40	47,25	31	19	3,0°							149,90	622
	HSK-A 63	27	160	148	48			33	21								151,60	627
	HSK-A 63	32	160	146	58			38	24								161,40	632
	HSK-A 63	40	160	146	70			41	27								186,50	640

These combination shell adapters are prebalanced without driving ring, dowel screw and retaining screw.


Parallel key


Drive ring


Retaining screw

Spare parts DCONWS		83 950 ... EUR Y8		83 370 ... EUR Y8			81 950 ... EUR Y8	
16	4 x 4 x 20	1,68	284	10,21	116	M8x20 - 30 Nm	3,05	020
22	6 x 6 x 25	1,68	285	11,34	122	M10x30 - 50 Nm	3,54	021
27	7 x 7 x 25	3,24	286	12,20	127	M12x35 - 80 Nm	3,98	022
32	8 x 7 x 28	1,93	287	14,58	132	M16x40 - 110 Nm	5,24	023
40	10 x 8 x 32	2,06	288	21,70	140			

Accessories


Milling Adapter Rings
→ 253


Coolant transfer pipe
→ 163

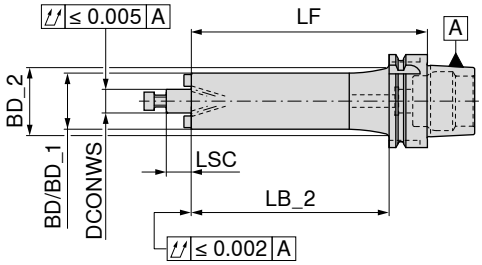

Others
→ 273

Shell mill adapter

- For milling cutters with transverse or longitudinal groove ISO 3937
- also available with Balluff chip **on request**

Scope of supply:

Holder with fixed drive dogs, dowel spring and retaining screw










	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	BD_1 mm	BD_2 mm	LSC mm	G 2,5 n_{max} 18000 **84 750 ...** EUR Y8		G 2,5 n_{max} 18000 **84 754 ...** EUR Y8		G 2,5 n_{max} 18000 **84 755 ...** EUR Y8		G 2,5 n_{max} 18000 **84 757 ...** EUR Y8	
short	HSK-A 63	16	34	60	38			17	199,80	616						
	HSK-A 63	22	34	60	48			19	202,00	622						
	HSK-A 63	27	34	60	58			21	216,00	627						
	HSK-A 63	32	34	60	72			24	218,20	632						
	HSK-A 63	40	34	70	80			27	221,50	640						
	HSK-A 100	16	31	60	38			17	210,60	116						
	HSK-A 100	22	31	60	48			19	217,00	122						
	HSK-A 100	27	31	60	58			21	221,50	127						
	HSK-A 100	32	31	60	72			24	230,10	132						
	HSK-A 100	40	41	70	80			27	249,50	140						
long	HSK-A 63	16	74	100		38	44,3	17			218,20	616				
	HSK-A 63	22	74	100		48	50,3	19			218,20	622				
	HSK-A 63	27	74	100	58			21			232,30	627				
	HSK-A 63	32	74	100	72			24			232,30	632				
	HSK-A 63	40	74	100	80			27			243,10	640				
	HSK-A 100	16	71	100		38	46,3	17			218,20	116				
	HSK-A 100	22	71	100		48	56,3	19			229,00	122				
	HSK-A 100	27	71	100		58	66,3	24			235,40	127				
	HSK-A 100	32	71	100		72	80,3	24			245,10	132				
	HSK-A 100	40	71	100	80			27			252,80	140				
medium length	HSK-A 63	16	104	130		38	44,3	17					220,30	616		
	HSK-A 63	22	104	130		48	50,3	19					220,30	622		
	HSK-A 63	27	104	130	58			21					233,30	627		
	HSK-A 63	32	104	130	72			24					233,30	632		
	HSK-A 63	40	104	130	80			27					244,10	640		
	HSK-A 100	16	101	130		38	46,3	17					234,30	116		
	HSK-A 100	22	101	130		48	56,3	19					244,10	122		
	HSK-A 100	27	101	130		58	66,3	21					259,30	127		
	HSK-A 100	32	101	130		72	80,3	24					262,40	132		
	HSK-A 100	40	101	130	80			27					276,60	140		
extra-long	HSK-A 63	16	134	160		38	44,3	17							198,70	616
	HSK-A 63	22	134	160		48	50,3	19							206,20	622
	HSK-A 63	27	134	160	58			21							213,90	627
	HSK-A 63	32	134	160	72			24							223,50	632
	HSK-A 63	40	134	160	80			27							231,10	640
	HSK-A 100	16	131	160		38	46,3	17							245,10	116
	HSK-A 100	22	131	160		48	56,3	19							248,40	122
	HSK-A 100	27	131	160		58	66,3	21							260,30	127
	HSK-A 100	32	131	160		72	80,3	24							267,80	132
	HSK-A 100	40	131	160	80			27							278,60	140

Spare parts facemill adapters


Parallel key


Drive dogs


Differential screw


clamping screw

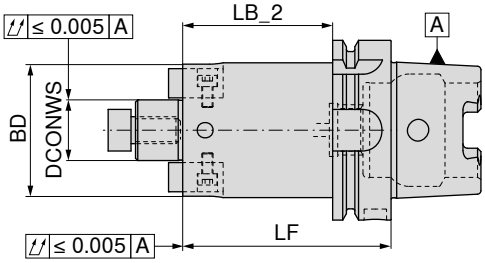
		83 950 ...			62 950 ...			62 950 ...			83 950 ...		
Spare parts		EUR			EUR			EUR			EUR		
DCONWS		Y8			W7			W7			Y8		
16	4 x 4 x 20	1,68	**284**	M4x15	18,47	**442**	M8x16 - SW6	45,58	**433**	M8x25	2,97	**113**
22	6 x 6 x 25	1,68	**285**	M5x17	18,47	**443**	M10x18 - SW8	52,60	**434**	M10x25	3,43	**124**
27	7 x 7 x 25	3,24	**286**	M6x21	18,47	**444**	M12x20 - SW10	57,89	**435**	M12x30	3,78	**125**
32	8 x 7 x 28	1,93	**287**	M6x22	18,47	**445**	M16x26 - SW12	75,39	**436**	M16x35	4,70	**126**
40	10 x 8 x 32	2,06	**288**	M6x23	18,47	**446**	M20x30 - SW14	94,61	**437**	M20x40 - SW17	6,67	**112**

Shell mill adapter

- Enlarged seating surface (Ø BD)
- for face mills with transverse groove ISO 3937
- also available with Balluff chip **on request**

Scope of supply:

Toolholder with retaining screw and drive dogs











						G 2,5 n_{max} 18000		G 2,5 n_{max} 18000		G 2,5 n_{max} 18000		G 2,5 n_{max} 18000		G 2,5 n_{max} 18000	
						81 728 ...		81 728 ...		81 741 ...		81 742 ...		81 747 ...	
	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8	
short	HSK-A 63	16	24	50	38	150,80	**216**			100,90	**616**				
	HSK-A 63	22	24	50	48	152,70	**222**			102,60	**622**				
	HSK-A 63	27	34	60	58	162,40	**227**			107,90	**627**				
	HSK-A 63	32	34	60	78	164,20	**232**			112,40	**632**				
	HSK-A 63	40	34	60	88	156,20	**240** [1]			130,30	**640** [1]				
	HSK-A 100	16	21	50	38			159,70	**116**						
	HSK-A 100	22	21	50	48			163,30	**122**						
	HSK-A 100	27	21	50	58			165,90	**127**						
	HSK-A 100	32	21	50	78			173,10	**132**						
	HSK-A 100	40	31	60	88			188,30	**140** [1]						
	HSK-A 100	60	41	70	129			211,50	**160** [2]						
long	HSK-A 63	16	74	100	38							142,80	**616**	164,20	**616**
	HSK-A 63	22	74	100	48							144,50	**622**	164,20	**622**
	HSK-A 63	27	74	100	58							146,30	**627**	175,70	**627**
	HSK-A 63	32	74	100	78							146,30	**632**	175,70	**632**
	HSK-A 63	40	74	100	88							151,60	**640** [1]	182,90	**640** [1]

1) With cross recess screw and threaded holes M12 on the front face, pitch circle diameter = 66.7 mm

2) With threaded holes M16 on the front face, pitch circle diameter = 101.6 mm

Spare parts facemill adapters



Cross nut key

83 368 ...

Spare parts DCONWS	EUR Y8	
16	11,01	116
22	13,72	122
27	17,60	127
32	22,68	132
40	31,65	140
60		



Retaining screw

83 367 ...

	EUR Y8	
M8	3,33	016
M10	3,65	022
M12	4,67	027
M16	7,50	032
M20	11,89	040



Retaining screw

81 950 ...

	EUR Y8	
M8x20 - 30 Nm	3,05	020
M10x30 - 50 Nm	3,54	021
M12x35 - 80 Nm	3,98	022
M16x40 - 110 Nm	5,24	023



drive dogs

81 950 ...

	EUR Y8	
8x8x14	7,45	001
10x10x17	7,71	002
12x14x20	8,73	003
14x14x22	9,00	004
15,9x16x21	11,56	005
25,4x25x31	15,01	006



Drive screw

81 950 ...

	EUR Y8	
M3x8	0,39	010
M4x8	0,49	011
M4x14	0,59	012
M5x13	0,66	013
M6x16	0,80	014
M12x25	8,66	015

Accessories



Extensions
→ 252



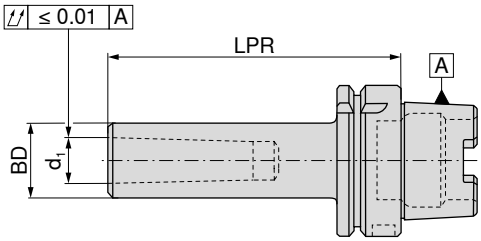
Coolant transfer pipe
→ 163



Others
→ 273

Milling sleeve adapter for Morse taper shanks to DIN 228-2 D

▲ also available with Balluff chip **on request**







G 2,5 n_{max} 18000

81 744 ...

Adapter	d_1	LPR mm	BD mm	EUR Y8	
HSK-A 63	MK1	100	25	114,10	**601**
HSK-A 63	MK2	120	32	121,30	**602**
HSK-A 63	MK3	140	40	124,90	**603**
HSK-A 63	MK4	160	48	134,70	**604**
HSK-A 100	MK1	110	25	138,30	**101**
HSK-A 100	MK2	120	32	142,80	**102**
HSK-A 100	MK3	150	40	146,30	**103**
HSK-A 100	MK4	170	48	159,70	**104**
HSK-A 100	MK5	200	63	208,80	**105**

Accessories



Morse taper adapter sleeve
→ 230



Coolant transfer pipe
→ 163

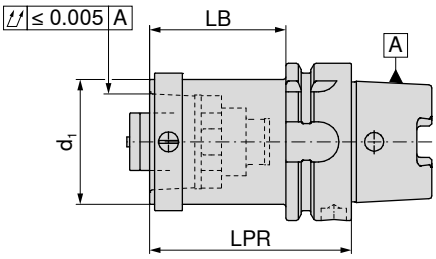


Others
→ 273

HSK-A reduction

- ▲ for mounting HSK-A adapters according to ISO 12164
- ▲ also available with Balluff chip **on request**

Scope of supply:
with clamping cartridge and cover ring





NEW



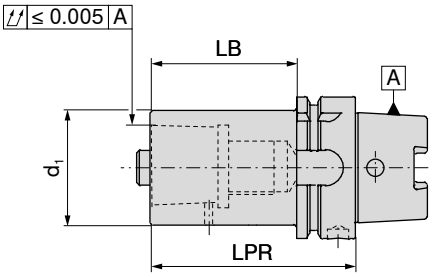
Adapter	d_1	LB mm	LPR mm	84 040 ... EUR Y8	
HSK-A 63	HSK-A 40	54	80	510,80	**06359**
HSK-A 63	HSK-A 50	54	80	520,40	**06358**
HSK-A 100	HSK-A 50	51	80	605,70	**10058**
HSK-A 100	HSK-A 63	71	100	605,70	**10057**

16

HSK-A/PSC adapter

- for mounting PSC adapters according to ISO 26623-1
- also available with Balluff chip **on request**

Scope of supply:
with tightening screw





NEW



Adapter	d_1	LB mm	LPR mm	84 013 ... EUR Y8	
HSK-A 63	PSC 32	49	75	264,00	**06387**
HSK-A 63	PSC 40	54	80	283,00	**06395**
HSK-A 63	PSC 50	64	90	283,00	**06394**
HSK-A 100	PSC 32	51	80	311,40	**10087**
HSK-A 100	PSC 40	61	90	320,90	**10095**
HSK-A 100	PSC 50	71	100	330,30	**10094**
HSK-A 100	PSC 63	81	110	377,90	**10093**
HSK-A 100	PSC 80	91	120	406,40	**10086**

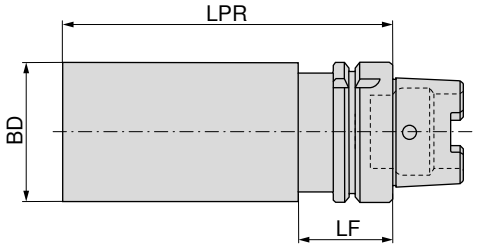

Threaded ring


tightening screw

Spare parts d_1	84 950 ... EUR Y8			84 950 ... EUR Y8	
PSC 32	26,46	**127**	SW8	19,12	**122**
PSC 40	26,46	**128**	SW8	21,60	**123**
PSC 50	26,46	**129**	SW10	21,60	**124**
PSC 63	52,82	**130**	SW14	24,19	**126**
PSC 80	52,82	**130**	SW14	24,19	**126**

Blank

- Material: 20NiCrMo2
- for production of special tools
- Taper hardened and ground
- Tool 35$^{\pm 3}$ HRc
- also available with Balluff chip **on request**



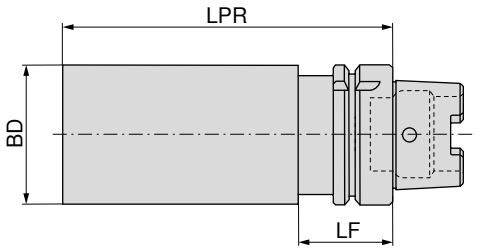




Adapter	BD mm	LPR mm	LF mm	81 745 ... EUR Y8	
HSK-A 32	35,0	150	35	89,22	**335**
HSK-A 40	40,0	150	35	89,22	**440**
HSK-A 40	52,0	200	35	104,30	**452**
HSK-A 50	52,0	200	42	105,30	**552**
HSK-A 50	63,0	200	42	109,70	**563**
HSK-A 63	63,0	200	42	119,60	**663**
HSK-A 63	80,0	250	42	128,40	**680**
HSK-A 100	63,0	200	45	153,50	**163**
HSK-A 100	80,0	250	45	183,80	**180**
HSK-A 100	97,5	250	45	208,80	**190**

Blank

- For the production of special tools
- Material: case hardened steel 16MnCr5
- Taper hardened and ground
- Tool production area = soft
- also available with Balluff chip **on request**





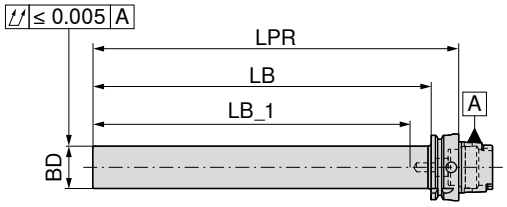


Adapter	BD mm	LPR mm	LF mm	84 799 ... EUR Y8	
HSK 63	63	200	42	157,70	**663**
HSK 63	80	250	42	170,70	**680**

16

Test arbor

Scope of supply:
in wooden box





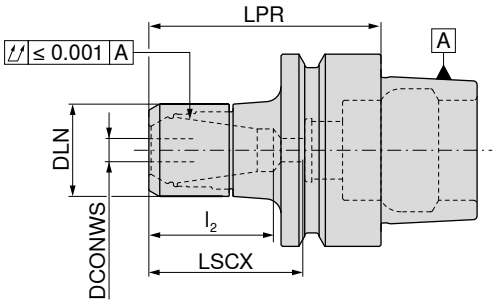


Adapter	BD mm	LPR mm	LB_1 mm	LB mm	81 746 ... EUR Y8	
HSK-A 63	40	346	300	320	326,80	**063**
HSK-A 100	40	349	300	320	417,60	**100**

ER Precision Collet chuck – Centro-P

- ▲ for standard or sealed nuts
- ▲ maximum size collet to ISO tolerance field H10
- ▲ for clamping a roll key is required
- ▲ p_{max} = 80 bar

Scope of supply:
Holder **without** nut, **without** backstop







G 2,5 n_{max} 30000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 mm	for collet	84 776 ... EUR Y8	
HSK-E 40	2 - 16	60	40	39		430E (ER25)	144,90	**417**
HSK-E 50	2 - 16	70	40	49	30 - 39	430E (ER25)	160,60	**516**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1
Dimension LPR when using tightening nuts with seals 4 mm longer

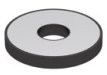

Lock nut IK


Lock nut

Spare parts for collet	84 950 ... EUR Y8		84 950 ... EUR Y8	
430E (ER25)	39,37	**013**	32,09	**003**

Accessories


ER collet
→ 256–263, 266


Sealing ring
→ 269


Roll key
→ 275


Roll key device
→ 275

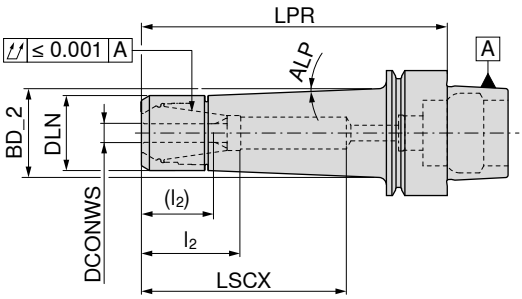

Coolant transfer pipe
→ 163


Others
→ 273

ER Precision tapered collet chuck – Centro-P

- ▲ for Mini Clamping Nuts
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ p_{max} = 80 bar

Scope of supply:
Holder **without** nut, **without** backstop







G 2,5 n_{max} 30000

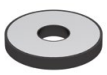
	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	**84 774 ...** EUR Y8	
short	HSK-E 25	1 - 7	35	16		22			4008E (ER11 mini)	164,80	07200
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	156,40	307
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	133,60	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	152,20	101
	HSK-E 32	1 - 10	55	22	25,8	40	28 - 32 (12 - 22)	4,5°	426E (ER16 mini)	148,00	310
	HSK-E 40	1 - 10	55	22	25,8	38	28 - 30 (12 - 20)	4,5°	426E (ER16 mini)	115,00	410
	HSK-E 50	1 - 10	60	22	25,4	39	28 - 31 (12 - 21)	4,5°	426E (ER16 mini)	127,30	510
long	HSK-E 40	1 - 7	100	16	25,4	64	18 - 36 (12 - 26)	4,5°	4008E (ER11 mini)	150,20	408
	HSK-E 40	1 - 10	100	22	29,0	66	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	137,70	411
	HSK-E 50	1 - 10	100	22	28,2	72	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	143,90	511

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

	 Mini lock nut IK		 Mini lock nut		 Stop screw 2		 Stop screw 1	
	84 950 ...		**84 950 ...**		**83 950 ...**		**83 950 ...**	
Spare parts for collet	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
4008E (ER11 mini)			34,14	041	13,94	340	10,23	336
426E (ER16 mini)	42,46	035	34,14	034	14,50	341	10,23	337

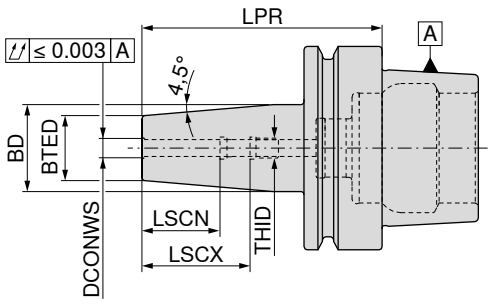
Accessories

						
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

Shrink fit adapters

▲ for solid carbide and HSS shanks to h6 tolerance or better

TG









	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	G 2,5 n_{max} 25000 **84 307 ...** EUR Y8		G 2,5 n_{max} 25000 **84 308 ...** EUR Y8		G 2,5 n_{max} 25000 **84 309 ...** EUR Y8	
short	HSK-E 32	3	60	10	15	28	12	M5	129,70	103				
	HSK-E 32	4	60	10	15	28	16	M5	129,70	104				
	HSK-E 32	5	60	10	15	30	20	M5	129,70	105				
	HSK-E 32	6	70	21	25	36	26	M5	118,90	106				
	HSK-E 32	8	70	21	25	36	26	M6	118,90	108				
	HSK-E 32	10	75	24	29	41	31	M8x1	118,90	110				
	HSK-E 32	12	80	24	29	47	37	M10x1	118,90	112				
	HSK-E 40	3	60	10	15	28	12	M6			157,70	103		
	HSK-E 40	4	60	10	15	28	16	M6			153,40	104		
	HSK-E 40	5	60	10	15	30	20	M6			153,40	105		
	HSK-E 40	6	80	21	27	36	26	M5			129,70	106		
	HSK-E 40	8	80	21	27	36	26	M6			129,70	108		
	HSK-E 40	10	80	24	32	41	31	M8x1			129,70	110		
	HSK-E 40	12	90	24	32	47	37	M10x1			129,70	112		
	HSK-E 40	14	90	27	34	47	37	M10x1			129,70	114		
	HSK-E 40	16	90	27	34	50	40	M12x1			129,70	116		
	HSK-E 50	3	80	10	15	22	12	M6					158,70	103
	HSK-E 50	4	80	15	22	26	16	M6					155,50	104
	HSK-E 50	5	80	15	22	30	20	M6					155,50	105
	HSK-E 50	6	80	21	27	36	26	M5					146,90	106
	HSK-E 50	8	80	21	27	36	26	M6					146,90	108
	HSK-E 50	10	85	24	32	41	31	M8x1					146,90	110
	HSK-E 50	12	90	24	32	47	37	M10x1					146,90	112
	HSK-E 50	14	90	27	34	47	37	M10x1					146,90	114
	HSK-E 50	16	95	27	34	50	40	M12x1					146,90	116
	HSK-E 50	18	95	33	42	50	40	M12x1					146,90	118
	HSK-E 50	20	100	33	42	52	42	M16x1					146,90	120

→ Min. clamping depth, Page 300


Stop screw IK


Thro' coolant back stop screw


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7			83 950 ... EUR Y7			83 950 ... EUR Y7	
3 - 5	M6x14 - SW2	8,35	417	M5x14 - SW2	4,03	411			
6							M5x12,5 - SW2,5	8,35	418
8							M6x12,5 - SW3	8,35	419
10							M8x1x13,5 - SW3	8,35	420
12 - 14							M10x1x13,5 - SW5	8,35	421
16 - 18							M12x1x13,5 - SW5	8,35	422
20							M16x1x13,5 - SW5	9,62	423

Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

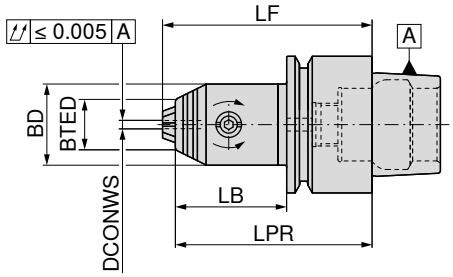
16

Micro-precision collet chuck

- bidirectional
- for speeds up to 60,000 1/min.

Scope of supply:

Holder including clamping wrench SW 2 x 60 mm







G 2,5 n_{max} 18000

Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm	84 712 ... EUR Y7	
HSK-E 25	0,2 - 3,4	27	37	40	19	12	2	505,40	**234**
HSK-E 32	0,2 - 3,4	26	46	49	19	12	2	545,40	**334**
HSK-E 40	0,2 - 3,4	26	46	49	19	12	2	566,00	**434**

TORX® blade



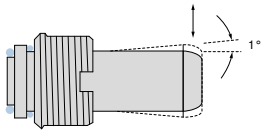
Torque screwdriver

Spare parts for Article no.	80 950 ... EUR Y7			80 021 ... EUR Y7	
84 712 234	5,77	**152**	1,8 Nm	99,95	**018**
84 712 334	5,77	**152**	1,8 Nm	99,95	**018**
84 712 434	5,77	**152**	1,8 Nm	99,95	**018**

Coolant pipe

▲ use up to 100 bar

Scope of supply:
complete, including seals





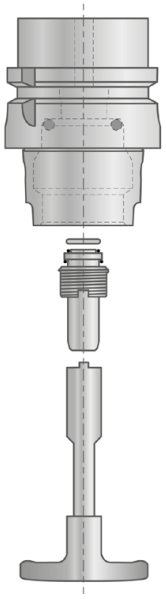
Adapter	THOD	83 760 ... EUR Y8	
HSK 32	M10 x 1	7,96	032
HSK 40	M12 x 1	7,96	040
HSK 50	M16 x 1	7,96	050
HSK 63	M18 x 1	8,20	063
HSK 80	M20 x 1,5	9,46	080
HSK 100	M24 x 1,5	9,81	100

Key



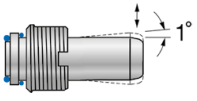
Adapter	83 758 ... EUR Y8	
HSK 32	15,55	032
HSK 40	15,55	040
HSK 50	15,55	050
HSK 63	16,85	063
HSK 80	17,93	080
HSK 100	19,44	100

Coolant pipe for HSK tools



The coolant pipe is ideally mounted in vertical direction – from the bottom to the top. In this manner the sealing ring is prevented from being compressed during locating which would cause the loss of its sealing function. After mounting, the coolant pipe can be moved only to a minimum degree according to DIN (± 1°).

Flexibility

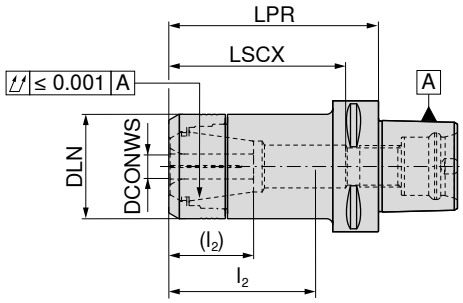


16

ER Precision Collet chuck – Centro-P

- for standard or sealed nuts
- maximum size collet to ISO tolerance field H10
- for clamping a roll key is required
- p_{max} = 80 bar
- also available with Balluff chip **on request**

Scope of supply:
Holder **without** nut, **without** backstop







G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	84 112 ... EUR Y8	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	246,50	**402**
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	255,90	**501**
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	269,40	**502**
PSC 50	1 - 16	60	40	48		430E (ER25)	255,90	**505**
PSC 50	2 - 20	60	50	49		470E (ER32)	255,90	**507**
PSC 63	1 - 10	60	30	44		426E (ER16)	255,80	**601**
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	270,30	**602**
PSC 63	1 - 16	60	40	38		430E (ER25)	255,80	**605**
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	270,30	**606**
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	288,90	**607**
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	325,20	**608**
PSC 63	2 - 20	60	50	42		470E (ER32)	255,80	**609**
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	270,30	**610**
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	288,90	**611**
PSC 63	3 - 26	65	63	51		472E (ER40)	271,30	**612**

→ Transmittable torque moments, Page 300

LSCX = Clamping depth without back stop screw for shanks
l_2 = With back stop screw 1, Dimension in brackets (l_2) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

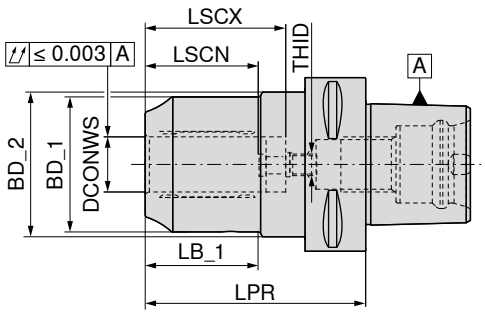
Spare parts for collet	 Lock nut IK 84 950 ... EUR Y8		 Lock nut 84 950 ... EUR Y8		 Stop screw 2 83 950 ... EUR Y8		 Stop screw 1 83 950 ... EUR Y8	
426E (ER16)	36,25	**011**	28,99	**001**	M11x1 - SW6	14,50 **341**	M11x1 - SW6	10,23 **337**
430E (ER25)	39,37	**013**	32,09	**003**	M18x1,5 - SW6	16,38 **432**	M18x1,5 - SW6	11,76 **431**
470E (ER32)	41,44	**015**	34,14	**005**	M22x1,5 - SW6	16,38 **402**	M22x1,5 - SW6	11,76 **401**
472E (ER40)	55,93	**017**	46,61	**007**			M28x1,5 - SW6	10,66 **400**

High pressure chuck, short and stable version

- for solid carbide and HSS shanks to h6 tolerance or better
- also available with Balluff chip **on request**

Scope of supply:

Base body with backstop screw and pressure screw





NEW



G 2,5 n_{max} 25000

Adapter	DCONWS mm	LPR mm	LB_1 mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	84 108 ... EUR Y8	
PSC 63	20	80	41	49	52,5	51	41	M8x1	406,80	**62000**

→ Min. clamping depth, Page 300

	Cylindrical screw		Clamping key – T		Pressure screw		Stop screw IK	
	83 950 ...		80 397 ...		83 950 ...		83 950 ...	
Spare parts for Article no.	EUR Y7		EUR Y7		EUR Y7		EUR Y7	
84 108 62000	M5x5 - SW2,5	1,91 **157**	SW5	4,37 **050**	M10x1x14	4,41 **429**	M16x1x13,5 - SW8	9,62 **424**

Accessories


Reduction sleeve
→ 271


Coolant transfer pipe
→ 182


Others
→ 273

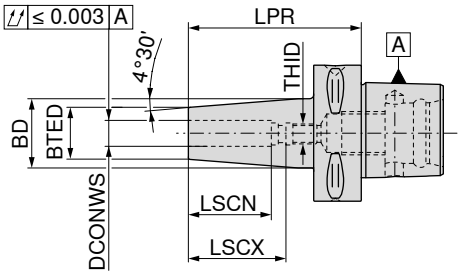
Shrink adapters

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** IK back stop screw

TG









	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	G 6,3 n_{max} 15000 **84 104 ...** EUR Y8		G 6,3 n_{max} 15000 **84 105 ...** EUR Y8		G 6,3 n_{max} 15000 **84 106 ...** EUR Y8	
short	PSC 32	65	6	21	27	36	26	M5	168,50	**306**				
	PSC 32	65	8	21	27	36	26	M6	168,50	**308**				
	PSC 32	70	10	24	32	41	31	M8x1	168,50	**310**				
	PSC 32	75	12	24	32	47	37	M10x1	168,50	**312**				
	PSC 40	75	6	21	27	36	26	M5	171,70	**406**				
	PSC 40	75	8	21	27	36	26	M6	171,70	**408**				
	PSC 40	75	10	24	32	41	31	M8x1	171,70	**410**				
	PSC 40	75	12	24	32	47	37	M10x1	171,70	**412**				
	PSC 40	80	14	27	34	47	37	M10x1	171,70	**414**				
	PSC 40	80	16	27	34	50	40	M12x1	171,70	**416**				
	PSC 40	80	18	33	42	50	40	M12x1	171,70	**418**				
	PSC 40	85	20	33	42	52	42	M16x1	171,70	**420**				
	PSC 50	65	3	12	17				213,90	**503**				
	PSC 50	65	4	12	17				213,90	**504**				
	PSC 50	65	5	12	17				213,90	**505**				
	PSC 50	75	6	21	30	36	26	M5	178,20	**506**				
	PSC 50	75	8	21	30	36	26	M6	178,20	**508**				
	PSC 50	75	10	24	33	41	31	M8x1	178,20	**510**				
	PSC 50	75	12	24	33	47	37	M10x1	178,20	**512**				
	PSC 50	80	14	27	34	47	37	M10x1	178,20	**514**				
	PSC 50	80	16	27	34	50	40	M12x1	178,20	**516**				
	PSC 50	80	18	33	42	50	40	M12x1	178,20	**518**				
	PSC 50	85	20	33	42	52	42	M16x1	178,20	**520**				
	PSC 50	90	25	44	53	58	48	M16x1	178,20	**525**				
long	PSC 50	120	6	21	32	36	26	M5			213,90	**506**		
	PSC 50	120	8	21	32	36	26	M6			213,90	**508**		
	PSC 50	120	10	24	34	41	31	M8x1			213,90	**510**		
	PSC 50	120	12	24	34	47	37	M10x1			213,90	**512**		
	PSC 50	120	14	27	36	47	37	M10x1			213,90	**514**		
	PSC 50	120	16	27	36	50	40	M12x1			213,90	**516**		
	PSC 50	120	18	33	42	50	40	M12x1			213,90	**518**		
	PSC 50	120	20	33	42	52	42	M16x1			213,90	**520**		
	PSC 50	120	25	44	53	58	48	M16x1			213,90	**525**		
short	PSC 63	80	3	12	17				262,40	**603**				
	PSC 63	80	4	12	17				262,40	**604**				
	PSC 63	80	5	12	17				262,40	**605**				
	PSC 63	80	6	21	27	36	26	M5	221,50	**606**				
	PSC 63	80	8	21	27	36	26	M6	221,50	**608**				
	PSC 63	80	10	24	32	41	31	M8x1	221,50	**610**				
	PSC 63	80	12	24	32	47	37	M10x1	221,50	**612**				
	PSC 63	85	14	27	34	47	37	M10x1	221,50	**614**				
	PSC 63	85	16	27	34	50	40	M12x1	221,50	**616**				
	PSC 63	85	18	33	42	50	40	M12x1	221,50	**618**				
	PSC 63	85	20	33	42	52	42	M16x1	221,50	**620**				
	PSC 63	90	25	44	53	58	48	M16x1	221,50	**625**				
	PSC 63	95	32	44	53	61	51	M16x1	221,50	**632**				

→ Min. clamping depth, Page 300

Continued on next page

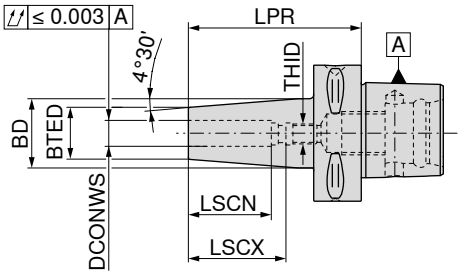
Shrink adapters

- ▲ for solid carbide and HSS shanks to h6 tolerance or better
- ▲ also available with Balluff chip **on request**

Scope of supply:

Holder **without** IK back stop screw

TG







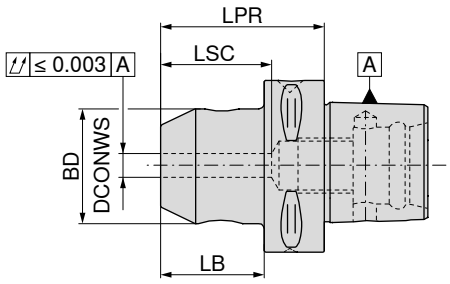


	Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	G 6,3 n_{max} 15000 **84 104 ...** EUR Y8		G 6,3 n_{max} 15000 **84 105 ...** EUR Y8		G 6,3 n_{max} 15000 **84 106 ...** EUR Y8	
long	PSC 63	120	6	21	32	36	26	M5			262,40	606		
	PSC 63	120	8	21	32	36	26	M6			262,40	608		
	PSC 63	120	10	24	32	41	31	M8x1			262,40	610		
	PSC 63	120	12	24	32	47	37	M10x1			262,40	612		
	PSC 63	120	14	27	36	47	37	M10x1			262,40	614		
	PSC 63	120	16	27	36	50	40	M12x1			262,40	616		
	PSC 63	120	18	33	44	50	40	M12x1			262,40	618		
	PSC 63	120	20	33	44	52	42	M16x1			262,40	620		
	PSC 63	120	25	44	53	58	48	M16x1			262,40	625		
	PSC 63	120	32	44	53	61	51	M16x1			262,40	632		
extra-long	PSC 63	160	6	21	32	36	26	M5					287,40	606
	PSC 63	160	8	21	32	36	26	M6					287,40	608
	PSC 63	160	10	24	34	41	31	M8x1					287,40	610
	PSC 63	160	12	24	34	47	37	M10x1					287,40	612
	PSC 63	160	14	27	36	47	37	M10x1					287,40	614
	PSC 63	160	16	27	36	50	40	M12x1					287,40	616
	PSC 63	160	18	33	44	50	40	M12x1					287,40	618
	PSC 63	160	20	33	44	52	42	M16x1					287,40	620
	PSC 63	160	25	44	53	58	48	M16x1					287,40	625
	PSC 63	160	32	44	53	61	51	M16x1					287,40	632
short	PSC 80	85	6	21	27	36	26	M5	237,60	806				
	PSC 80	85	8	21	27	36	26	M6	237,60	808				
	PSC 80	85	10	24	32	41	31	M8x1	237,60	810				
	PSC 80	85	12	24	32	47	37	M10x1	237,60	812				
	PSC 80	90	14	27	34	47	37	M10x1	237,60	814				
	PSC 80	90	16	27	34	50	40	M12x1	237,60	816				
	PSC 80	90	18	33	42	50	40	M12x1	237,60	818				
	PSC 80	90	20	33	42	52	42	M16x1	237,60	820				
	PSC 80	95	25	44	53	58	48	M16x1	237,60	825				
	PSC 80	100	32	44	53	61	51	M16x1	237,60	832				
long	PSC 80	120	6	21	32	36	26	M5			284,10	806		
	PSC 80	120	8	21	32	36	26	M6			284,10	808		
	PSC 80	120	10	24	34	41	31	M8x1			284,10	810		
	PSC 80	120	12	24	34	47	37	M10x1			284,10	812		
	PSC 80	120	14	27	36	47	37	M10x1			284,10	814		
	PSC 80	120	16	27	36	50	40	M12x1			284,10	816		
	PSC 80	120	18	33	44	50	40	M12x1			284,10	818		
	PSC 80	120	20	33	44	52	42	M16x1			284,10	820		
	PSC 80	120	25	44	53	58	48	M16x1			284,10	825		
	PSC 80	120	32	44	53	61	51	M16x1			284,10	832		

→ Min. clamping depth, Page 300

Cylindrical shank adapter (Weldon)

- For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- also available with Balluff chip **on request**







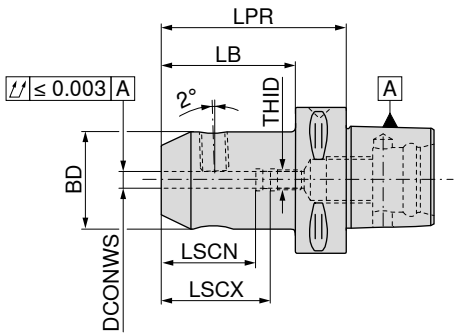
G 6,3 n_{max} 15000

84 100 ...

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	EUR Y8	
PSC 32	6	45	25	30	35	139,40	**306**
PSC 32	8	45	28	30	35	139,40	**308**
PSC 32	10	50	35	35	39	139,40	**310**
PSC 32	12	55	42	40	44	139,40	**312**
PSC 40	6	50	25	30	35	152,30	**406**
PSC 40	8	50	28	30	35	152,30	**408**
PSC 40	10	50	35	30	39	152,30	**410**
PSC 40	12	55	42	35	44	152,30	**412**
PSC 40	14	55	44	35	44	152,30	**414**
PSC 40	16	55	48	35	47	152,30	**416**
PSC 50	6	50	25	30	35	155,50	**506**
PSC 50	8	50	28	30	35	155,50	**508**
PSC 50	10	55	35	35	39	155,50	**510**
PSC 50	12	60	42	40	44	155,50	**512**
PSC 50	14	60	44	40	44	155,50	**514**
PSC 50	16	60	48	40	47	155,50	**516**
PSC 50	18	60	50	40	47	155,50	**518**
PSC 50	20	60	52	40	47	155,50	**520**
PSC 50	25	80	65	60	54	155,50	**525**
PSC 63	6	55	25	33	35	171,70	**606**
PSC 63	8	55	28	33	35	171,70	**608**
PSC 63	10	60	35	38	39	171,70	**610**
PSC 63	12	60	42	38	44	171,70	**612**
PSC 63	14	60	44	38	44	171,70	**614**
PSC 63	16	65	48	43	47	171,70	**616**
PSC 63	18	65	50	43	47	171,70	**618**
PSC 63	20	65	52	43	49	171,70	**620**
PSC 63	25	80	65	58	54	171,70	**625**
PSC 63	32	90	72	68	58	171,70	**632**
PSC 63	40	100	80	78	75	171,70	**640**
PSC 80	6	70	25	40	35	189,00	**806**
PSC 80	8	70	28	40	35	189,00	**808**
PSC 80	10	70	35	40	39	189,00	**810**
PSC 80	12	70	42	40	44	189,00	**812**
PSC 80	14	70	44	40	44	189,00	**814**
PSC 80	16	70	48	50	47	189,00	**816**
PSC 80	18	70	50	40	47	189,00	**818**
PSC 80	20	70	52	40	49	189,00	**820**
PSC 80	25	80	65	50	54	189,00	**825**
PSC 80	32	80	72	50	58	189,00	**832**
PSC 80	40	110	80	80	75	189,00	**840**
PSC 80	50	120	100	90	83	189,00	**850**

Cylindrical Shank Adapter (Whistle Notch)

- For shanks according to DIN 6535 HE / 1835 E with angled clamping flat
- also available with Balluff chip **on request**







G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSCX mm	LSCN mm	THID	84 102 ... EUR Y8	
PSC 32	6	70	25	55	38	28	M5	139,40	**306**
PSC 32	8	70	28	55	38	28	M6	139,40	**308**
PSC 32	10	70	35	55	41	31	M8	139,40	**310**
PSC 32	12	75	42	60	47	37	M10	139,40	**312**
PSC 40	6	70	25	50	38	28	M5	152,30	**406**
PSC 40	8	70	28	50	38	28	M6	152,30	**408**
PSC 40	10	70	35	50	41	31	M8	152,30	**410**
PSC 40	12	75	42	55	47	37	M10	152,30	**412**
PSC 40	14	75	44	55	47	37	M10	152,30	**414**
PSC 50	6	70	25	50	38	28	M5	155,50	**506**
PSC 50	8	70	28	50	38	28	M6	155,50	**508**
PSC 50	10	70	35	50	41	31	M8	155,50	**510**
PSC 50	12	75	42	55	47	37	M10	155,50	**512**
PSC 50	14	75	44	55	47	37	M10	155,50	**514**
PSC 50	16	80	48	60	50	40	M12	155,50	**516**
PSC 50	18	80	50	60	50	40	M12	155,50	**518**
PSC 50	20	85	52	65	52	42	M16	155,50	**520**
PSC 63	6	75	25	53	38	28	M5	171,70	**606**
PSC 63	8	75	28	53	38	28	M6	171,70	**608**
PSC 63	10	75	35	53	41	31	M8	171,70	**610**
PSC 63	12	80	42	58	47	37	M10	171,70	**612**
PSC 63	14	80	44	58	47	37	M10	171,70	**614**
PSC 63	16	80	48	58	50	40	M12	171,70	**616**
PSC 63	18	80	50	58	50	40	M12	171,70	**618**
PSC 63	20	85	52	63	52	42	M16	171,70	**620**
PSC 63	25	90	65	68	58	48	M16	171,70	**625**
PSC 63	32	95	72	73	61	51	M16	171,70	**632**
PSC 80	6	65	25	35	38	28	M5	189,00	**806**
PSC 80	8	65	28	35	38	28	M6	189,00	**808**
PSC 80	10	65	35	35	41	31	M8	189,00	**810**
PSC 80	12	70	42	40	47	37	M10	189,00	**812**
PSC 80	14	70	44	40	47	37	M10	189,00	**814**
PSC 80	16	75	48	45	50	40	M12	189,00	**816**
PSC 80	18	75	50	45	50	40	M12	189,00	**818**
PSC 80	20	80	52	50	52	42	M16	189,00	**820**
PSC 80	25	90	65	60	58	48	M16	189,00	**825**
PSC 80	32	95	72	65	61	51	M16	189,00	**832**

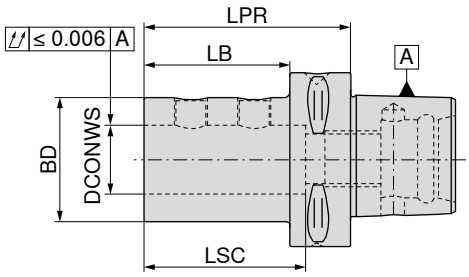


Backstop screw IK

Spare parts DCONWS		84 950 ... EUR Y8	
6	M5	8,54	**146**
8	M6	8,54	**147**
10	M8	8,54	**148**
12 - 14	M10	8,54	**149**
16 - 18	M12	8,54	**150**
20 - 32	M16	8,54	**151**

Indexable insert drill adapter ISO 26623-1 PSC

- Run out ≤ 0.005 mm
- also available with Balluff chip **on request**







Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 128 ... EUR Y8	
PSC 32	16	60	36	45	49	230,10	**316**
PSC 32	20	60	40	45	54	230,10	**320**
PSC 40	16	60	36	40	49	237,60	**416**
PSC 40	20	60	40	40	54	237,60	**420**
PSC 40	25	80	45	50	59	237,60	**425**
PSC 50	16	65	36	45	49	254,90	**516**
PSC 50	20	65	40	45	54	254,90	**520**
PSC 50	25	70	45	50	59	254,90	**525**
PSC 50	32	75	52	55	63	254,90	**532**
PSC 63	16	70	36	48	49	254,90	**616**
PSC 63	20	70	40	48	54	254,90	**620**
PSC 63	25	75	45	53	59	254,90	**625**
PSC 63	32	75	52	53	63	254,90	**632**
PSC 63	40	85	65	63	73	254,90	**640**
PSC 63	50	115	75	93	83	254,90	**650**
PSC 80	16	80	36	50	49	304,60	**816**
PSC 80	20	80	40	50	54	304,60	**820**
PSC 80	25	85	45	55	59	304,60	**825**
PSC 80	32	90	52	60	63	304,60	**832**
PSC 80	40	95	65	65	73	304,60	**840**
PSC 80	50	100	75	70	83	304,60	**850**

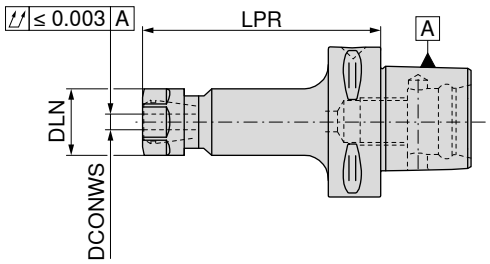


Grubscrew

Spare parts DCONWS		83 950 ... EUR Y8	
16 - 20	M10x1x10	5,05	**180**
25 - 32	M10x1x12	5,05	**181**
40 - 50	M16x1x13	6,20	**182**

ER Collet chuck

- without an internal thread
- also available with Balluff chip **on request**







G 6,3 n_{max} 15000

84 114 ...

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	EUR Y8	
PSC 32	1 - 10	45	28	8 - 56	426E (ER16)	123,20	**304**
PSC 40	1 - 10	55	28	8 - 56	426E (ER16)	130,70	**404**
PSC 50	1 - 10	60	28	8 - 56	426E (ER16)	139,40	**504**
PSC 50	1 - 10	100	28	8 - 56	426E (ER16)	164,20	**506**
PSC 63	1 - 10	60	28	8 - 56	426E (ER16)	139,40	**604**
PSC 63	1 - 10	100	28	8 - 56	426E (ER16)	164,20	**606**
PSC 80	1 - 10	60	28	8 - 56	426E (ER16)	155,50	**804**
PSC 80	1 - 10	100	28	8 - 56	426E (ER16)	180,40	**806**



Lock nut

62 950 ...

Spare parts for collet		EUR W7	
426E (ER16)	M22x1,5 - SW25	18,35	**044**

Accessories



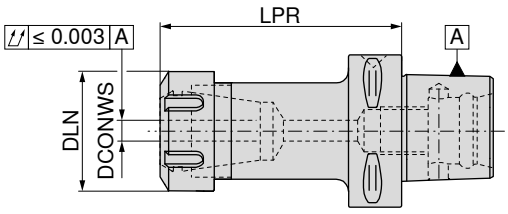
ER collet

256–263, 266

16

ER Collet chuck

- without an internal thread
- also available with Balluff chip **on request**







G 6,3 n_{max} 15000

Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	84 115 ... EUR Y8	
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	123,20	**306**
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	130,70	**404**
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	130,70	**406**
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	130,70	**408**
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	139,40	**502**
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	171,70	**504**
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	139,40	**506**
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	171,70	**508**
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	148,00	**510**
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	180,40	**512**
PSC 50	3 - 26	65	63	176	472E (ER40)	152,30	**514**
PSC 50	3 - 26	100	63	176	472E (ER40)	185,80	**516**
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	139,40	**602**
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	171,70	**604**
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	139,40	**606**
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	171,70	**608**
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	148,00	**610**
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	180,40	**612**
PSC 63	3 - 26	65	63	176	472E (ER40)	152,30	**614**
PSC 63	3 - 26	100	63	176	472E (ER40)	185,80	**616**
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	189,00	**802**
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	246,20	**804**
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	189,00	**806**
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	246,20	**808**
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	189,00	**810**
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	246,20	**812**
PSC 80	3 - 26	80	63	176	472E (ER40)	189,00	**814**
PSC 80	3 - 26	100	63	176	472E (ER40)	246,20	**816**


Lock nut


Lock nut IK


Lock nut


Y clamping key

Spare parts for collet	62 950 ...	EUR W7		83 950 ...	EUR Y8		62 950 ...	EUR W7		83 357 ...	EUR Y8	
428E (ER20)	M25x1,5 - SW30	19,44	**045**	M25x1,5	33,69	**053**					17,05	**12000**
430E (ER25)				M32x1,5	35,76	**055**	M32x1,5	20,52	**055**		18,25	**125**
470E (ER32)				M40x1,5	38,06	**056**	M40x1,5	19,12	**056**		24,84	**132**
472E (ER40)				M50x1,5	44,88	**057**	M50x1,5	18,58	**057**		27,33	**140**

Accessories

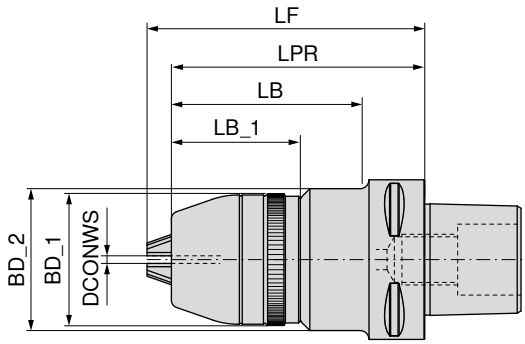

ER collet

→ 256–266

Short drill chuck – NC 2010

- Independent of direction of rotation
- Torque Moment = 12 Nm
- also available with Balluff chip **on request**

Scope of supply:
Toolholder including clamping key SW4





NEW



G 2,5 n_{max} 12000

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	84 111 ... EUR Y8	
PSC 40	0,5 - 13	48,5	56	50,90	78,0	100	109,0	447,20	**01395**
PSC 40	2,5 - 16	51,0	56	52,15	78,0	100	110,5	459,00	**01695**
PSC 50	0,5 - 13	48,5	56	50,90	77,0	100	109,0	456,40	**01394**
PSC 50	2,5 - 16	51,0	56	52,15	77,0	100	110,5	468,30	**01694**
PSC 63	0,5 - 13	48,5	56	50,90	74,5	100	109,0	465,70	**01393**
PSC 63	2,5 - 16	51,0	56	52,15	74,5	100	110,5	477,90	**01693**

Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories

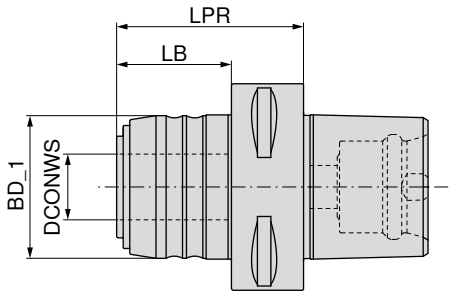


Others

→ 273

Synchronised quick change tap chuck with minimal length compensation

- For collets according to DIN 6499
- With length compensation under tension and under compression (LZD)
- $p_{max.}$ = 50 bar
- also available with Balluff chip **on request**







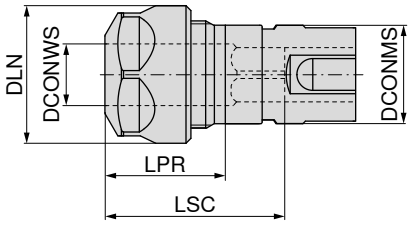
84 140 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	EUR Y8	
PSC 63	M3 - M12	1	57	43	20	35	1,0 / 0,2	558,40	**612**
PSC 63	M6 - M20	2	77	60	32	55	1,0 / 0,2	626,30	**620**

Insert for synchro quick change tapping chuck with minimum length compensation

- SZID = for insert size

Scope of supply:
Includes lock nut







83 608 ...

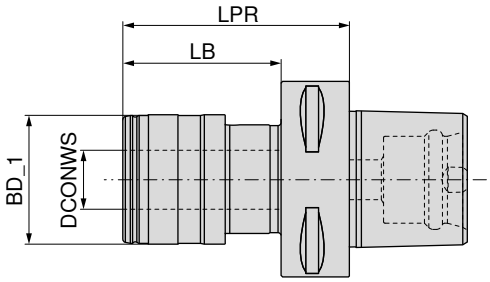
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	**012**
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	**020**

Spare parts
insert for synchro quick change tapping chuck with minimum length compensation

		 Lock nut			 Lock nut IK			 Lock nut			 Y clamping key	
		62 950 ...			**83 950 ...**			**62 950 ...**			**83 357 ...**	
Spare parts for Article no.		**EUR** W7			**EUR** Y8			**EUR** W7			**EUR** Y8	
83 608 012	M22x1,5 - SW25	18,35	**044**	M22x1,5	31,54	**054**	M22x1,5	18,35	**054**	16,52	**116**
83 608 020				M32x1,5	35,76	**055**	M32x1,5	20,52	**055**	18,25	**125**

Quick change tap chuck with length compensation

- With length compensation under tension and compression (LZD)
- also available with Balluff chip **on request**







Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	**84 142 ...** **EUR** Y8	
PSC 63	M3 - M12	01	73	41	19	51	7,5	578,90	**612**
PSC 63	M6 - M20	02	97	60	31	75	10	650,10	**620**

Accessories

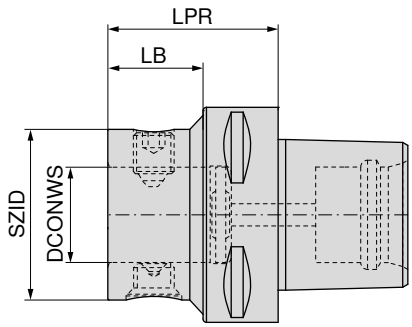


Collet

→ 277–281

Adapter with ABS Connection

▲ also available with Balluff chip **on request**





NEW



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	84 215 ... EUR Y8	
PSC 40	A69 04050	ABS 50	28	50	30	421,90	**04097**
PSC 50	A69 05050	ABS 50	28	50	30	421,90	**05097**
PSC 63	A69 06050	ABS 50	28	50	28	474,70	**06397**
PSC 63	A69 06060	ABS 63	34	60	36	474,70	**06396**
PSC 80	A69 08050	ABS 50	28	50	23	527,40	**08097**
PSC 80	A69 08060	ABS 63	34	60	30	527,40	**08096**
PSC 80	A69 08070	ABS 80	46	80	48	527,40	**08092**


Clamping screw

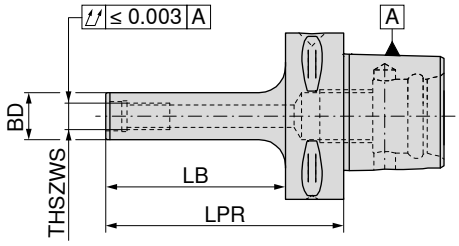

Set


Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 50	18,10	**20300**	41,40	**99800**	23,40	**20400**
ABS 63	14,10	**25500**	31,60	**99400**	17,60	**27300**
ABS 80	16,00	**25600**	35,50	**99300**	19,70	**25100**

Adapter for screw-in milling cutter

▲ also available with Balluff chip **on request**







G 2,5 n_{max} 20000

84 110 ...

Adapter	THSZWS	LPR mm	BD mm	LB mm	EUR Y8	
PSC 32	M8	60	13	45	189,00	**302**
PSC 32	M10	70	18	55	189,00	**306**
PSC 40	M8	70	13	50	193,30	**402**
PSC 40	M10	80	18	60	193,30	**405**
PSC 40	M12	80	21	60	193,30	**408**
PSC 50	M8	70	13	50	196,60	**502**
PSC 50	M10	80	18	60	196,60	**505**
PSC 50	M12	80	21	60	196,60	**508**
PSC 50	M16	80	29	60	196,60	**512**
PSC 63	M8	70	13	48	213,90	**602**
PSC 63	M10	90	18	68	213,90	**605**
PSC 63	M12	100	21	78	213,90	**608**
PSC 63	M16	100	29	78	213,90	**612**

Accessories



Coolant transfer pipe

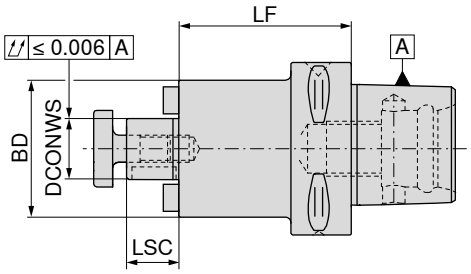
→ 182

16

Shell mill adapters

▲ for cutters with longitudinal or transverse groove
▲ also available with Balluff chip **on request**

Scope of supply:
Holder with clamping screw and drive key







G 6,3 n_{max} 15000

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	84 122 ... EUR Y8	
PSC 40	16	28	40	17	148,00	**401**
PSC 40	16	63	40	17	155,50	**402**
PSC 40	22	40	50	19	148,00	**411**
PSC 40	22	63	50	19	155,50	**412**
PSC 50	16	28	40	17	148,00	**501**
PSC 50	16	63	40	17	155,50	**502**
PSC 50	22	28	50	19	148,00	**511**
PSC 50	22	63	50	19	155,50	**512**
PSC 50	27	32	50	21	148,00	**521**
PSC 50	27	63	50	21	155,50	**522**
PSC 50	32	40	63	24	148,00	**531**
PSC 50	32	63	63	24	155,50	**532**
PSC 63	16	63	40	17	164,20	**602**
PSC 63	22	28	63	19	155,50	**611**
PSC 63	22	63	50	19	164,20	**612**
PSC 63	27	28	58	21	155,50	**621**
PSC 63	27	63	58	21	164,20	**622**
PSC 63	32	22	63	24	155,50	**631**
PSC 63	32	86	63	24	164,20	**632**
PSC 63	40	40	70	27	180,40	**641**
PSC 80	16	63	40	17	193,30	**802**
PSC 80	22	30	50	19	186,80	**811**
PSC 80	22	63	50	19	193,30	**812**
PSC 80	27	30	58	21	186,80	**821**
PSC 80	27	63	58	21	193,30	**822**
PSC 80	32	30	63	24	186,80	**831**
PSC 80	32	86	63	24	193,30	**832**
PSC 80	40	40	70	27	186,80	**841**


drive key


drive dog


Cross nut key


Retaining screw

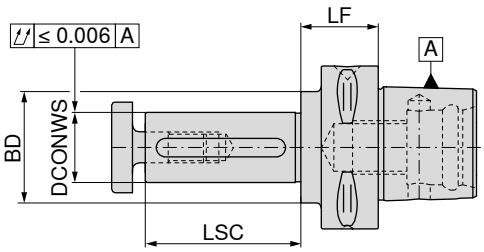

clamping screw

Spare parts DCONWS	84 950 ... EUR Y8		84 950 ... EUR Y8		83 368 ... EUR Y8			83 367 ... EUR Y8			83 950 ... EUR Y8	
16	3,22	**108**	7,30	**113**	11,01	**116**	M8	3,33	**016**	M8x25	2,97	**113**
22	3,22	**109**	8,54	**114**	13,72	**122**	M10	3,65	**022**	M10x25	3,43	**124**
27	3,22	**110**	9,26	**115**	17,60	**127**	M12	4,67	**027**	M12x30	3,78	**125**
32	3,22	**111**	10,50	**116**	22,68	**132**	M16	7,50	**032**	M16x35	4,70	**126**
40	3,22	**112**	11,77	**117**	31,65	**140**	M20	11,89	**040**	M20x40 - SW17	6,67	**112**

Milling arbor

- ▲ for cutters with long drive slot
- ▲ Runout ≤ 0.005 mm
- ▲ also available with Balluff chip **on request**

Scope of supply:
Holder with clamping screw and drive key







Adapter	DCONWS mm	LF mm	BD mm	LSC mm	84 124 ... EUR Y8	
PSC 32	16	20	28	30	148,00	**316**
PSC 40	16	25	28	30	155,50	**416**
PSC 40	22	25	36	40	155,50	**422**
PSC 40	27	25	40	60	155,50	**427**
PSC 50	16	25	28	30	155,50	**516**
PSC 50	22	25	36	40	155,50	**522**
PSC 50	27	25	43	60	155,50	**527**
PSC 50	32	25	50	60	155,50	**532**
PSC 63	16	30	28	30	155,50	**616**
PSC 63	22	30	36	40	155,50	**622**
PSC 63	27	30	43	60	155,50	**627**
PSC 63	32	25	48	60	155,50	**632**
PSC 63	40	25	56	60	155,50	**640**
PSC 80	16	40	28	30	180,40	**816**
PSC 80	22	40	36	40	180,40	**822**
PSC 80	27	30	43	60	180,40	**827**
PSC 80	32	30	48	60	180,40	**832**
PSC 80	40	30	56	60	180,40	**840**
PSC 80	50	30	70	60	180,40	**850**
PSC 80	60	30	60	60	180,40	**860**


drive key


Cross nut key

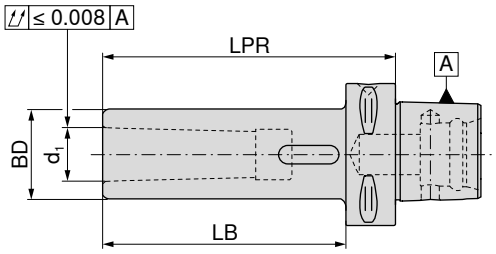

Retaining screw

Spare parts DCONWS	84 950 ... EUR Y8		83 368 ... EUR Y8			83 367 ... EUR Y8	
16	3,22	**101**	11,01	**116**	M8	3,33	**016**
22	3,22	**102**	13,72	**122**	M10	3,65	**022**
27	3,22	**103**	17,60	**127**	M12	4,67	**027**
32	3,22	**104**	22,68	**132**	M16	7,50	**032**
40	3,22	**105**	31,65	**140**	M20	11,89	**040**
50	3,22	**106**	43,10	**150**	M24	26,35	**050**
60	3,22	**107**					

16

Taper sleeve DIN 6383 for DIN 228-2D Morse taper shanks

▲ also available with Balluff chip **on request**



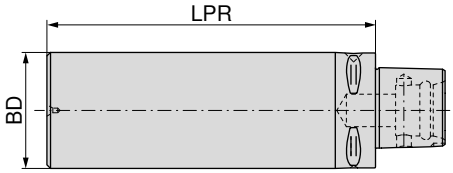




Adapter	d_1	LPR mm	BD mm	LB mm	84 126 ... EUR Y8	
PSC 40	MK2	110	32	90	155,50	**402**
PSC 40	MK3	130	40	119	164,20	**403**
PSC 50	MK2	110	32	90	164,20	**502**
PSC 50	MK3	130	40	110	171,70	**503**
PSC 50	MK4	150	48	132	180,40	**504**
PSC 63	MK2	110	32	88	164,20	**602**
PSC 63	MK3	130	40	108	171,70	**603**
PSC 63	MK4	150	48	128	180,40	**604**
PSC 80	MK2	120	32	90	189,00	**802**
PSC 80	MK3	140	40	110	205,20	**803**
PSC 80	MK4	160	48	130	221,50	**804**

Blank

- Material: 25CrMoV4
- for production of special tools
- Taper hardened and ground
- Special tool area in soft state
- also available with Balluff chip **on request**



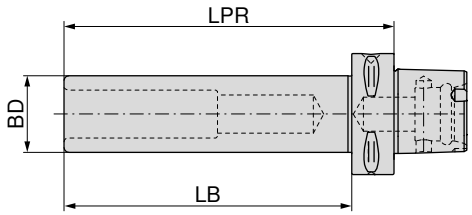




Adapter	BD mm	LPR mm	84 134 ... EUR Y8	
PSC 40	40	95	114,40	**402**
PSC 40	40	120	123,20	**403**
PSC 40	60	165	130,70	**404**
PSC 40	80	75	148,00	**405**
PSC 40	80	120	155,50	**406**
PSC 40	100	85	164,20	**408**
PSC 50	50	125	130,70	**502**
PSC 50	50	150	139,40	**503**
PSC 50	75	175	155,50	**504**
PSC 50	90	80	164,20	**506**
PSC 50	95	150	171,70	**508**
PSC 50	110	90	164,20	**510**
PSC 63	63	180	155,50	**602**
PSC 63	75	195	164,20	**604**
PSC 63	110	85	164,20	**606**
PSC 63	120	180	246,20	**608**
PSC 63	130	95	189,00	**610**
PSC 80	80	200	189,00	**802**
PSC 80	120	160	189,00	**804**
PSC 80	130	90	180,40	**806**
PSC 80	145	200	205,20	**808**

Test bar

▲ also available with Balluff chip **on request**







Adapter	LPR mm	BD mm	LB mm	84 136 ... EUR Y8	
PSC 32	175	25	160	555,20	**030**
PSC 40	180	25	160	615,50	**040**
PSC 50	235	32	215	657,80	**050**
PSC 63	322	40	300	692,30	**060**
PSC 80	330	40	300	830,50	**080**

Coolant pipe

Scope of supply:
complete, including seals



Adapter	THOD	84 116 ... EUR Y8	
PSC 40	M14 x 1,5	31,15	**04000**
PSC 50	M16 x 1,5	32,76	**05000**
PSC 63	M20 x 2,0	34,37	**06300**
PSC 80	M20 x 2,0	42,81	**08000**

Key



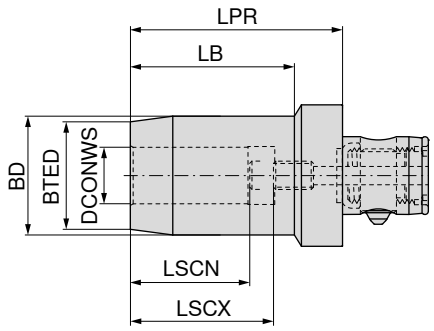
Adapter	84 117 ... EUR Y8	
PSC 40	27,99	**04000**
PSC 50	29,97	**05000**
PSC 63	32,02	**06300**
PSC 80	43,29	**08000**

Hydraulic chuck

▲ for solid carbide and HSS shanks to h6 tolerance or better

Scope of supply:

Base body including backstop screw





NEW



Adapter	KOMET no.	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm	84 223 ... EUR 3E	
ABS 40	A32 32060	8	24	28	60	42,0	37	27	688,50	**00888**
ABS 40	A32 32070	10	26	30	65	47,5	41	31	629,90	**01088**
ABS 40	A32 32080	12	28	32	65	48,0	46	36	622,60	**01288**
ABS 50	A32 42110	6	22	26	55	33,5	37	27	671,40	**00697**
ABS 50	A32 42120	8	24	28	55	34,0	37	27	688,50	**00897**
ABS 50	A32 42130	10	26	30	65	45,0	41	31	666,60	**01097**
ABS 50	A32 42140	12	28	32	65	45,5	46	36	666,60	**01297**
ABS 50	A32 42150	14	30	34	65	46,0	46	36	666,60	**01497**
ABS 50	A32 42160	16	34	38	70	52,0	49	39	615,30	**01697**
ABS 50	A32 42170	18	36	40	70	52,5	49	39	642,10	**01897**
ABS 50	A32 42101	20	38	42	75	58,0	51	41	627,50	**02097**
ABS 63	A32 52180	20	38	42	78	56,0	51	41	896,10	**02096**
ABS 63	A32 52190	25	53	57	85	60,0	57	47	1.004,00	**02596**
ABS 63	A32 52200	32	60	64	90	61,0	61	51	1.091,00	**03296**

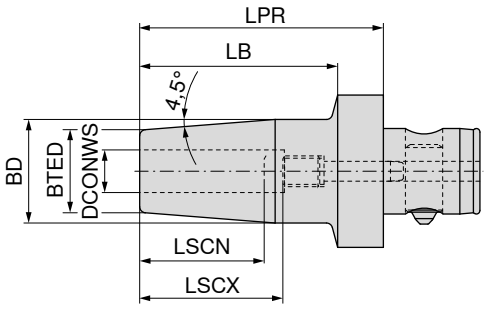


Backstop screw

Spare parts for Article no.		84 950 ... EUR W7	
84 223 00697	M6x12 - SW2,5	2,79	**22000**
84 223 00897	M8x1x12 - SW3	3,51	**22100**
84 223 00888	M6x12 - SW2,5	2,79	**22000**
84 223 01088	M8x1x12 - SW3	3,51	**22100**
84 223 01097	M10x1x12 - SW4	3,51	**22200**
84 223 01297	M10x1x12 - SW4	3,51	**22200**
84 223 01288	M10x1x12 - SW4	3,51	**22200**
84 223 01497	M10x1x12 - SW4	3,51	**22200**
84 223 01697	M10x1x12 - SW4	3,51	**22200**
84 223 01897	M16x1x16 - SW5	6,58	**22400**
84 223 02096	M16x1x16 - SW5	6,58	**22400**
84 223 02097	M5x12 - SW2	2,79	**22300**
84 223 02596	M16x1x16 - SW5	6,58	**22400**
84 223 03296	M16x1x16 - SW5	6,58	**22400**

Shrink fit adapters 4.5°

▲ for solid carbide and HSS shanks to h6 tolerance or better





NEW



G 6,3 n_{max} 15000

84 222 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	BTED mm	LB mm	LSCX mm	LSCN mm	EUR 3E	
ABS 32	A32 26040	6	70	27	21	56	36	26	481,00	**00689**
ABS 32	A32 26050	8	70	27	21	56	36	26	249,00	**00889**
ABS 32	A32 26061	10	70	32	24	56	42	32	346,70	**01089**
ABS 32	A32 26071	12	80	32	24	66	47	37	275,90	**01289**
ABS 40	A32 36050	8	70	27	21	56	36	26	356,50	**00888**
ABS 40	A32 36061	10	70	32	24	56	42	32	278,30	**01088**
ABS 40	A32 36071	12	80	32	24	66	47	37	351,60	**01288**
ABS 40	A32 36091	16	90	34	27	76	50	40	451,70	**01688**
ABS 50	A32 46040	6	75	27	21	56	36	26	268,60	**00697**
ABS 50	A32 46050	8	75	27	21	56	36	26	332,10	**00897**
ABS 50	A32 46061	10	80	32	24	61	42	32	327,20	**01097**
ABS 50	A32 46071	12	80	32	24	61	47	37	275,90	**01297**
ABS 50	A32 46081	14	80	34	27	61	47	37	332,10	**01497**
ABS 50	A32 46091	16	85	34	27	66	50	40	317,40	**01697**
ABS 50	A32 46101	18	85	42	33	66	50	40	271,00	**01897**
ABS 50	A32 46111	20	90	42	33	71	52	42	241,70	**02097**
ABS 63	A32 56111	20	90	42	33	71	52	42	305,20	**02096**
ABS 63	A32 56121	25	95	53	44	76	58	48	310,10	**02596**
ABS 63	A32 56131	32	95	53	44	76	58	48	410,20	**03296**



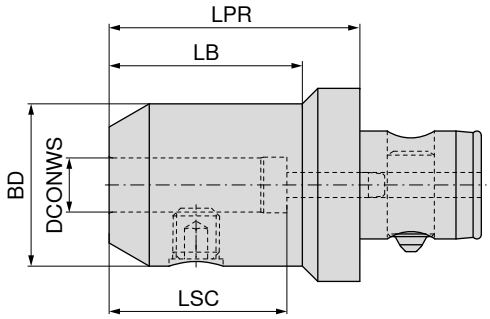
Backstop screw

84 950 ...

Spare parts DCONWS		EUR W7	
6	M5x18	3,78	**21400**
8	M6x20	3,78	**21500**
10	M8x1x20	2,79	**21600**
12	M10x1x20	3,51	**21700**
14	M10x1x20	3,51	**21700**
16	M12x1x20	4,86	**21800**
18	M12x1x20	4,86	**21800**
20	M8x1x20	6,30	**21900**
25	M8x1x20	6,30	**21900**
32	M8x1x20	6,30	**21900**

Cylindrical shank adapter (Weldon)

▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat





NEW



Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 221 ... EUR 3E	
ABS 50	A32 40010	6	45	25,0	27	40	178,20	**00697**
ABS 50	A32 40020	8	45	28,0	27	40	178,20	**00897**
ABS 50	A32 40030	10	55	35,0	37	44	178,20	**01097**
ABS 50	A32 40040	12	65	42,0	50	49	200,20	**01297**
ABS 50	A32 40080	14	65	44,0	50	49	192,90	**01497**
ABS 50	A32 40050	16	65	48,0	50	52	197,80	**01697**
ABS 50	A32 40090	18	65	49,9	50	52	222,20	**01897**
ABS 50	A32 40060	20	65	52,0	50	54	212,40	**02097**
ABS 50	A32 40070	25	75	65,0	60	60	202,70	**02597**
ABS 63	A32 50040	12	65	42,0	50	49	285,70	**01296**
ABS 63	A32 50100	14	65	44,0	50	49	305,20	**01496**
ABS 63	A32 50050	16	65	48,0	50	52	261,30	**01696**
ABS 63	A32 50110	18	65	50,0	50	52	268,60	**01896**
ABS 63	A32 50060	20	65	52,0	45	54	224,60	**02096**
ABS 63	A32 50070	25	75	65,0	60	60	222,20	**02596**
ABS 63	A32 50080	32	80	72,0	65	64	227,10	**03296**
ABS 80	A32 60060	20	65	52,0	45	54	319,90	**02092**
ABS 80	A32 60070	25	75	65,0	55	60	310,10	**02592**
ABS 80	A32 60080	32	80	72,0	66	64	232,00	**03292**

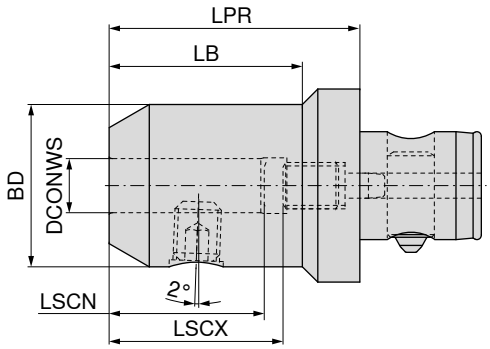


Grubscrew

Spare parts DCONWS		62 950 ... EUR W7	
6	M6x10	0,68	**006**
8	M8x10	0,79	**008**
10	M10x12	1,05	**010**
12	M12x16	1,06	**012**
14	M12x16	1,06	**012**
16	M14x16	1,32	**016**
18	M14x16	1,32	**016**
20	M16x16	1,60	**020**
25	M18x2x20	2,93	**025**
32	M20x2x20	3,24	**032**

Cylindrical Shank Adapter (Whistle Notch)

▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat





NEW



Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	84 220 ... EUR 3E	
ABS 25	A30 10601	6	55	40	24,9	36	26	197,80	**00690**
ABS 25	A30 10801	8	55	40	28,0	36	26	210,00	**00890**
ABS 25	A30 11001	10	60	45	35,0	40	30	197,80	**01090**
ABS 32	A30 20601	6	55	40	25,0	36	26	202,70	**00689**
ABS 32	A30 20801	8	55	40	28,0	36	26	202,70	**00889**
ABS 32	A30 20901	9	55	40	28,0	36	26	219,70	**00989**
ABS 32	A30 21001	10	60	45	35,0	40	30	185,60	**01089**
ABS 32	A30 21201	12	65	50	42,0	45	35	205,10	**01289**
ABS 32	A30 21401	14	65		42,0	45	35	278,30	**01489**
ABS 40	A30 30601	6	55	35	25,0	36	26	280,80	**00688**
ABS 40	A30 30801	8	55	35	28,0	36	26	232,00	**00888**
ABS 40	A30 31001	10	60	45	35,0	40	30	253,90	**01088**
ABS 40	A30 31201	12	65	50	42,0	45	35	212,40	**01288**
ABS 40	A30 31401	14	65	50	42,0	45	35	293,00	**01488**
ABS 40	A30 31601	16	70	55	48,0	48	38	273,50	**01688**
ABS 40	A30 31801	18	70	55	48,0	48	38	290,60	**01888**
ABS 50	A30 40601	6	55	30	25,0	36	26	202,70	**00697**
ABS 50	A30 40801	8	55	30	28,0	36	26	217,30	**00897**
ABS 50	A30 41001	10	60	40	35,0	40	30	200,20	**01097**
ABS 50	A30 41201	12	65	50	42,0	45	35	212,40	**01297**
ABS 50	A30 41301	13	65	50	42,0	45	35	349,20	**01397**
ABS 50	A30 41401	14	65	50	42,0	45	35	241,70	**01497**
ABS 50	A30 41601	16	70	55	48,0	48	38	224,60	**01697**
ABS 50	A30 41801	18	70	55	48,0	48	38	266,10	**01897**
ABS 50	A30 42002	20	75	60	52,0	50	40	251,50	**02097**
ABS 50	A30 42202	22	75	60	52,0	50	40	349,20	**02297**
ABS 50	A30 42502	25	75	60	52,0	50	40	241,70	**02597**
ABS 63	A30 51001	10	60	35	35,0	40	30	297,90	**01096**
ABS 63	A30 51201	12	65	45	42,0	45	35	261,30	**01296**
ABS 63	A30 51401	14	65	45	42,0	45	35	307,60	**01496**
ABS 63	A30 51601	16	70	50	48,0	48	38	290,60	**01696**
ABS 63	A30 51801	18	70	50	48,0	48	38	315,00	**01896**
ABS 63	A30 52001	20	75	55	52,0	50	40	278,30	**02096**
ABS 63	A30 52501	25	80	65	65,0	56	46	241,70	**02596**
ABS 63	A30 52801	28	80	65	65,0	56	46	776,40	**02896**
ABS 80	A30 62501	25	80	60	65,0	56	46	271,00	**02592**
ABS 80	A30 63201	32	90	70	72,0	60	50	332,10	**03292**

Spare parts
cylindrical shank adapter (Whistle Notch) with ABS connection

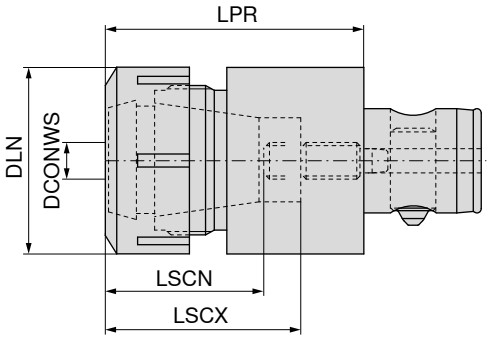

Grubscrew


Backstop screw

		62 950 ...			84 950 ...	
Spare parts DCONWS		**EUR W7**			**EUR W7**	
6	M6x10	0,68	**006**	M5x16	2,79	**20500**
8	M8x10	0,79	**008**	M6x16 - SW2,5	2,79	**20600**
9	M8x10	0,79	**008**	M8x1x16 - SW3	2,79	**20800**
10	M10x12	1,05	**010**	M8x1x16 - SW2,5	2,79	**20700**
12	M12x16	1,06	**012**	M10x1x18 - SW3	3,51	**20900**
13	M12x16	1,06	**012**	M12x1x17 - SW3	4,86	**21000**
14	M12x16	1,06	**012**	M12x1x17 - SW3	4,86	**21000**
16	M14x16	1,32	**016**	M14x1x19 - SW4	5,85	**21100**
18	M14x16	1,32	**016**	M14x1x19 - SW4	5,85	**21100**
20	M16x16	1,60	**020**	M16x1x21 - SW5	6,30	**21200**
22	M16x16	1,60	**020**	M16x1x21 - SW5	6,30	**21200**
25	M16x16	1,60	**020**	M16x1x21 - SW5	6,30	**21200**
28	M18x2x20	2,93	**025**	M16x1x21 - SW5	6,30	**21200**
32	M20x2x20	3,24	**032**	M20x1x27 - SW8	9,63	**21300**

ER collet chuck with ABS connection

Scope of supply:
Holder with lock nut and adjustable back stop





NEW



Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	84 224 ... EUR 3E	
ABS 25	A33 11120	1 - 10	40,1	28	31	28	220,40	**01690**
ABS 32	A33 12130	1 - 13	52,5	34	39	35	242,10	**02089**
ABS 40	A33 13141	1 - 16	62,0	42	46	43	258,50	**02588**
ABS 50	A33 14151	2 - 20	69,3	50	51	48	298,70	**03297**
ABS 63	A33 15161	3 - 26	78,3	63	55	52	294,60	**04096**


Lock nut


Lock nut IK


Lock nut


Backstop screw

Spare parts DCONWS	62 950 ...	EUR W7		83 950 ...	EUR Y8		62 950 ...	EUR W7		84 950 ...	EUR W7	
1 - 10	M22x1,5 - SW25	18,35	**044**	M22x1,5	31,54	**054**				M5x8 - SW2	2,79	**22500**
1 - 13	M25x1,5 - SW30	19,44	**045**	M25x1,5	33,69	**053**				M6x12 - SW2,5	2,79	**22000**
1 - 16				M32x1,5	35,76	**055**	M32x1,5	20,52	**055**	M8x1x14 - SW4	3,06	**22600**
2 - 20				M40x1,5	38,06	**056**	M40x1,5	19,12	**056**	M10x1x14 - SW5	3,51	**22700**
3 - 26				M50x1,5	44,88	**057**	M50x1,5	18,58	**057**	M12x1x18 - SW8	4,86	**22800**

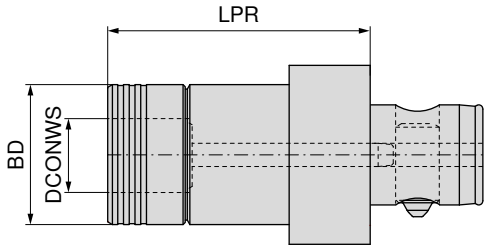
Accessories


ER collet

→ 256–266

Quick change tap chuck with length compensation

▲ With length compensation under tension and compression (LZD)





NEW

84 225 ...

Adapter	KOMET no.	DCONWS mm	BD mm	LPR mm	EUR 3E	
ABS 32	A34 32060	19	39	69	1.021,00	**01989**
ABS 40	A34 33060	19	39	73	1.323,00	**01988**
ABS 50	A34 34060	19	39	72	1.253,00	**01997**
ABS 50	A34 34070	31	60	98	1.536,00	**03197**
ABS 63	A34 35070	31	60	111	1.550,00	**03196**

Accessories

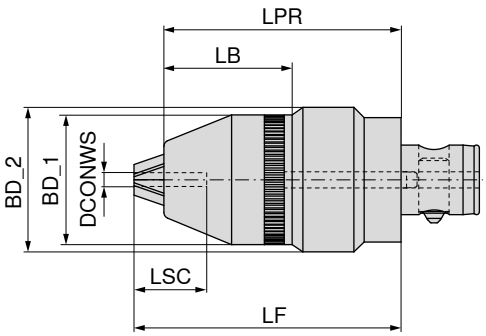

Collet
→ 277–281


Pull studs
→ 57


Others
→ 273

Short drill chuck

Scope of supply:
Holder with clamping key





NEW

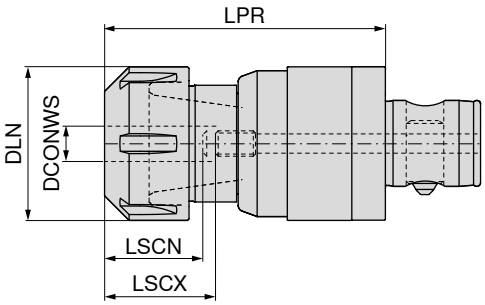
G 6.3 $n_{max.}$ 6500

84 227 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSC mm	LF mm	LB mm	EUR 3E	
ABS 50	A34 24030	0,5 - 13	95	49	57,5	29	104,0	51,5	835,00	**01397**
ABS 50	A34 24040	3 - 16	95	52	57,5	29	104,7	52,0	761,80	**01697**

16

Synchro tapping chuck





NEW



Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	84 226 ... EUR Y8	
ABS 32	50795131002000	1 - 13	78,0	34	42	29	927,80	**02089**
ABS 50	50795135002000	1 - 13	85,0	34	42	29	966,90	**02097**
ABS 50	50795135003200	2 - 20	90,5	50	45	31	1.031,00	**03297**

Accessories

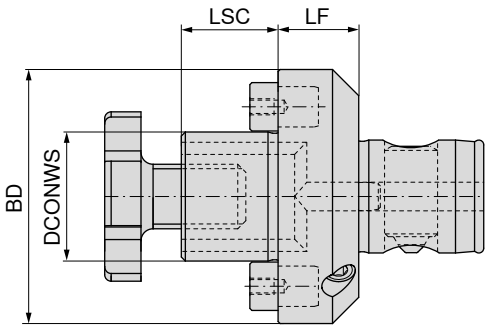


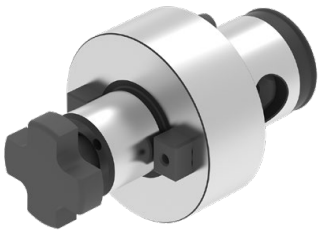
ER collet

→ 261–264

Shell mill adapter

Scope of supply:
Base body including drive dogs and retaining screw





NEW



NEW



Adapter	KOMET no.	DCONWS mm	LSC mm	LF mm	BD mm	84 228 ... EUR 3E		84 228 ... EUR 3E	
ABS 50	A40 24023	16	17	20	50			306,90	**01697**
ABS 50	A40 24034	22	19	20	50			292,50	**02297**
ABS 50	A40 24043	27	21	20	50			313,10	**02797**
ABS 50	A40 24053	32	24	20	63			345,10	**03297**
ABS 63	A40 25032	22	19	22	63			354,30	**02296**
ABS 63	A40 25042	27	21	22	63			373,90	**02796**
ABS 63	A40 25052	32	24	22	63			385,20	**03296**
ABS 63	A40 25062	40	27	22	80			397,60	**04096**
ABS 80	A40 26042	27	21	25	80			388,30	**02792**
ABS 80	A40 26052	32	24	25	80			392,40	**03292**
ABS 80	A40 26062	40	27	25	80			396,60	**04092**
ABS 80	A40 16062	40	30	43	88	517,10	**14092**		
ABS 100	A40 27052	32	24	25	100			510,90	**03291**
ABS 100	A40 17062	40	30	38	88	439,80	**14091**		
ABS 100	A40 27062	40	27	25	100			445,00	**04091**
ABS 100	A40 17072	60	40	56	130	561,40	**06091**		


Drive screw


Drive dog


Driver


Retaining screw

Spare parts DCONWS		81 950 ... EUR Y8			84 950 ... EUR W7			83 950 ... EUR Y8			83 367 ... EUR Y8	
16	M3x8	0,39	**010**							M8	3,33	**016**
22				13,6x8x10	30,75	**22900**				M10	3,65	**022**
27				14,3x9x12	32,46	**23000**				M12	4,67	**027**
32				17x12x14	30,75	**23100**				M16	7,50	**032**
40	M6x16	0,80	**014**				15,9x16,3x19,5	11,56	**295**			
40										M20	11,89	**040**
60	M12x25	8,66	**015**				25,4x16,3x26,5	15,01	**298**			

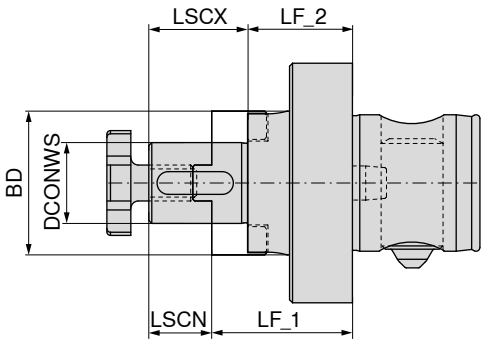
16

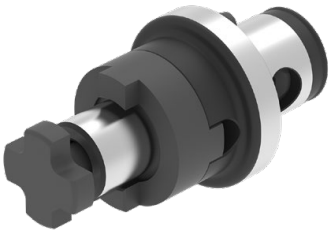
Combination shell mill adapter

▲ For milling cutters with transverse or longitudinal groove according to DIN 6358

Scope of supply:

Base body including retaining screw, drive ring and drive key





NEW



Adapter	KOMET no.	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm	84 229 ... EUR 3E	
ABS 50	A40 04022	16	32	32	22	27	17	237,90	**01697**
ABS 50	A40 04032	22	40	34	22	31	19	229,70	**02297**
ABS 63	A40 05021	16	32	36	26	27	17	333,70	**01696**
ABS 63	A40 05031	22	40	38	26	31	19	374,90	**02296**
ABS 63	A40 05041	27	48	38	26	33	21	291,50	**02796**
ABS 80	A40 06031	22	40	45	33	31	19	438,80	**02292**
ABS 80	A40 06041	27	48	45	33	33	21	394,50	**02792**
ABS 80	A40 06051	32	58	47	33	38	24	329,60	**03292**
ABS 80	A40 06061	40	70	47	33	41	27	347,10	**04092**



Parallel key



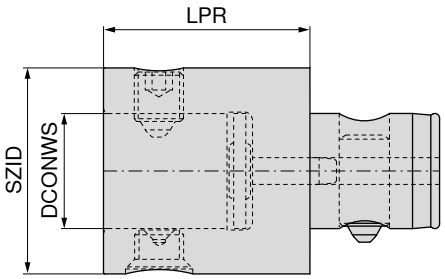
Drive ring



Retaining screw

Spare parts DCONWS		83 950 ... EUR Y8		83 370 ... EUR Y8			83 367 ... EUR Y8	
16	4 x 4 x 20	1,68	**284**	10,21	**116**	M8	3,33	**016**
22	6 x 6 x 25	1,68	**285**	11,34	**122**	M10	3,65	**022**
27	7 x 7 x 25	3,24	**286**	12,20	**127**	M12	4,67	**027**
32	8 x 7 x 28	1,93	**287**	14,58	**132**	M16	7,50	**032**
40	10 x 8 x 32	2,06	**288**	21,70	**140**	M20	11,89	**040**

Extension with ABS Connection





NEW



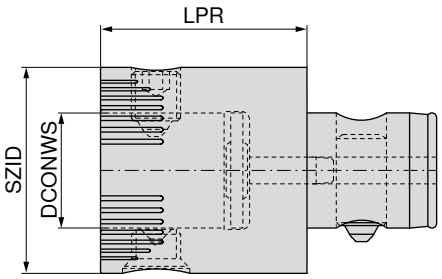
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 209 ... EUR 3E	
ABS 25	A20 00020	ABS 25	13	45	242,10	**04590**
ABS 25	A20 00220	ABS 25	13	60	242,10	**06090**
ABS 32	A20 00530	ABS 32	16	35	256,10	**03589**
ABS 32	A20 00030	ABS 32	16	50	256,10	**05089**
ABS 32	A20 00230	ABS 32	16	70	256,10	**07089**
ABS 40	A20 00540	ABS 40	20	40	270,00	**04088**
ABS 40	A20 00040	ABS 40	20	60	270,00	**06088**
ABS 40	A20 00240	ABS 40	20	90	270,00	**09088**
ABS 50	A20 00550	ABS 50	28	50	301,00	**05097**
ABS 50	A20 00050	ABS 50	28	65	301,00	**06597**
ABS 50	A20 00250	ABS 50	28	100	301,00	**10097**
ABS 50	A20 00150	ABS 50	28	150	301,00	**15097**
ABS 63	A20 00560	ABS 63	34	60	340,60	**06096**
ABS 63	A20 00060	ABS 63	34	85	340,60	**08596**
ABS 63	A20 00260	ABS 63	34	125	340,60	**12596**
ABS 63	A20 00160	ABS 63	34	190	340,60	**19096**
ABS 80	A20 00570	ABS 80	46	70	401,70	**07092**
ABS 80	A20 00070	ABS 80	46	85	401,70	**08592**
ABS 80	A20 00270	ABS 80	46	125	418,80	**12592**
ABS 80	A20 00170	ABS 80	46	240	418,80	**24092**
ABS 100	A20 00580	ABS 100	56	85	447,70	**08591**
ABS 100	A20 00080	ABS 100	56	125	447,70	**12591**
ABS 100	A20 00280	ABS 100	56	160	471,30	**16091**
ABS 125	A20 00090	ABS 125	70	160	530,20	**16085**
ABS 125	A20 00290	ABS 125	70	200	559,20	**20085**

	 Clamping screw		 Clamping screw		 Set		 Set		 Positioning pin		 Pendulum bolt		 Coolant pipe		 Taper screw	
	62 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...		84 950 ...	
Spare parts Adapter	EUR XX		EUR XX		EUR XX		EUR XX		EUR XX		EUR XX		EUR XX		EUR XX	
ABS 25			9,84	**26800**	44,81	**98900**	24,15	**99700**	6,64	**23600**	31,47	**26000**	6,70	**24400**	14,42	**27000**
ABS 32	9,84	**13989**			50,62	**98800**	24,15	**99600**	14,63	**23700**	29,15	**26100**	6,95	**24500**	14,42	**27100**
ABS 40			10,97	**26900**	53,05	**98700**	25,65	**99500**	14,63	**23800**	31,50	**26200**	6,95	**24600**	14,78	**27200**
ABS 50			12,82	**20300**	80,60	**99900**	29,20	**99800**	15,04	**20200**	36,62	**20000**	7,52	**20100**	16,43	**20400**
ABS 63			14,11	**25500**	60,26	**98600**	31,57	**99400**	15,55	**23900**	37,18	**26300**	7,57	**24700**	17,61	**27300**
ABS 80			15,97	**25600**	62,47	**98500**	35,48	**99300**	15,71	**24000**	39,24	**26400**	7,78	**24800**	19,67	**25100**
ABS 100			18,90	**25700**	69,32	**98400**	39,55	**99200**	16,63	**24100**	43,98	**26500**	8,81	**24900**	20,70	**25200**
ABS 125			29,61	**25800**	96,36	**98300**	59,43	**99100**	26,42	**24200**	60,56	**26600**	9,68	**25000**	29,97	**25300**

16

Torsional vibration dampers with ABS Connection

Scope of supply:
Base body with sealing disc





NEW



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 216 ... EUR 3E	
ABS 50	A20 00651	ABS 50	28	50	590,90	**05097**
ABS 63	A20 00661	ABS 63	34	60	739,80	**06096**
ABS 80	A20 00670	ABS 80	46	70	739,80	**07092**


Clamping screw


Set

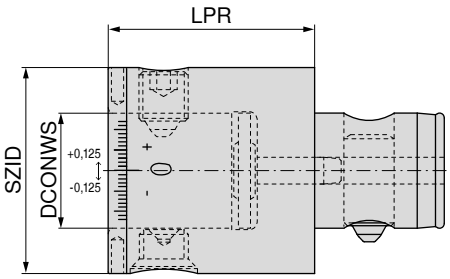

Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 50	12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63	14,11	**25500**	31,57	**99400**	17,61	**27300**
ABS 80	15,97	**25600**	35,48	**99300**	19,67	**25100**

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:
Eccentric adjuster with adjuster key Ø 2.8 mm





NEW



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 217 ... EUR W4	
ABS 50	A20 00620	ABS 50	28	50	503,50	**05097**
ABS 63	A20 00630	ABS 63	34	60	544,20	**06096**


Clamping screw

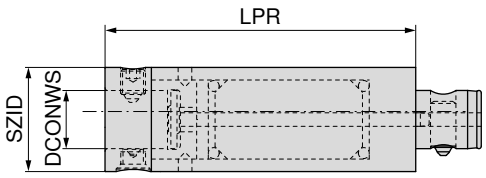

Set


Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 50	12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63	14,11	**25500**	31,57	**99400**	17,61	**27300**

Damping element with ABS connection

▲ Reduction in undesirable tool vibrations





NEW



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 218 ... EUR 3E	
ABS 40	A20 01240	ABS 40	20	120	1.198,00	**12088**
ABS 50	A20 01250	ABS 50	28	150	1.392,00	**15097**
ABS 63	A20 01260	ABS 63	34	190	1.820,00	**19096**
ABS 80	A20 01270	ABS 80	46	240	2.535,00	**24092**

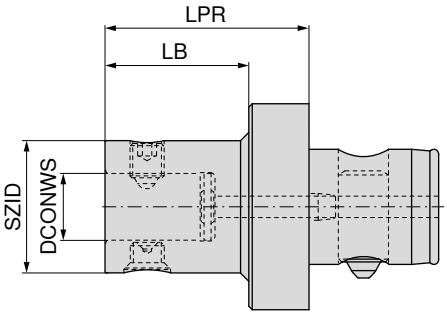

Clamping screw

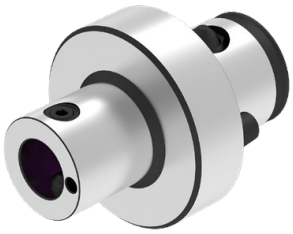

Set


Taper screw

Spare parts SZID	84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 40	10,97	**26900**	25,65	**99500**	14,78	**27200**
ABS 50	12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63	14,11	**25500**	31,57	**99400**	17,61	**27300**
ABS 80	15,97	**25600**	35,48	**99300**	19,67	**25100**

ABS reduction





NEW



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	84 219 ... EUR 3E	
ABS 32	A20 10120	ABS 25	13	40	30	271,00	**03290**
ABS 40	A20 10220	ABS 25	13	40	28	286,00	**04090**
ABS 40	A20 10230	ABS 32	16	40	28	286,00	**04089**
ABS 50	A20 10320	ABS 25	13	50	35	310,70	**05090**
ABS 50	A20 10330	ABS 32	16	50	35	310,70	**05089**
ABS 50	A20 10340	ABS 40	20	50	35	310,70	**05088**
ABS 63	A20 10420	ABS 25	13	60	40	348,10	**06390**
ABS 63	A20 10430	ABS 32	16	60	40	348,10	**06389**
ABS 63	A20 10440	ABS 40	20	60	40	348,10	**06388**
ABS 63	A20 10450	ABS 50	28	60	40	348,10	**06397**
ABS 80	A20 10530	ABS 32	16	60	35	411,40	**08089**
ABS 80	A20 10540	ABS 40	20	60	35	411,40	**08088**
ABS 80	A20 10550	ABS 50	28	60	35	411,40	**08097**
ABS 80	A20 10560	ABS 63	34	60	35	411,40	**08096**
ABS 100	A20 10650	ABS 50	28	80	50	448,90	**10097**
ABS 100	A20 10660	ABS 63	34	80	50	448,90	**10096**
ABS 100	A20 10670	ABS 80	46	80	50	448,90	**10092**
ABS 125	A20 10770	ABS 80	46	100	50	496,00	**12592**
ABS 125	A20 10780	ABS 100	56	100	50	496,00	**12591**


Clamping screw


Clamping screw


Set

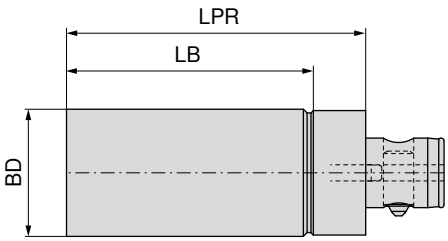

Taper screw

Spare parts SZID	62 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX		84 950 ... EUR XX	
ABS 25			9,84	**26800**	24,15	**99700**	14,42	**27000**
ABS 32	9,84	**13989**			24,15	**99600**	14,42	**27100**
ABS 40			10,97	**26900**	25,65	**99500**	14,78	**27200**
ABS 50			12,82	**20300**	29,20	**99800**	16,43	**20400**
ABS 63			14,11	**25500**	31,57	**99400**	17,61	**27300**
ABS 80			15,97	**25600**	35,48	**99300**	19,67	**25100**
ABS 100			18,90	**25700**	39,55	**99200**	20,70	**25200**

16

Blank with ABS connection

- Connection area hardened and ground
- Dimension BD x dimension LB = unhardened area for further processing



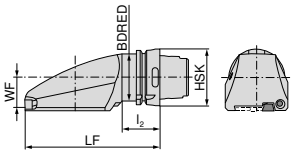


NEW



Adapter	KOMET no.	LPR mm	BD mm	LB mm	84 230 ... EUR W4	
ABS 25	B10 01011	70	26	55	133,90	**02690**
ABS 32	B10 02011	80	33	65	141,10	**03389**
ABS 40	B10 03011	100	41	82	164,80	**04188**
ABS 50	B10 04011	120	51	99	160,70	**05197**
ABS 63	B10 05011	150	64	124	202,90	**06496**
ABS 80	B10 06011	180	81	145	314,20	**08192**
ABS 100	B10 07011	200	101	158	414,10	**10191**

MonoClamp – HSK-T Blade Holder GX/LX/FX/SX





Illustrations show right-hand versions

ISO designation	Adapter	LF mm	l_2 mm	BDRED mm	WF mm	for parting blades	Left-hand 74 585 ... EUR 2D/80		Right-hand 74 584 ... EUR 2D/80	
HSK T63 XCLCF 32 R/L 00	HSK-T 63	150	42	53	32	XLCF R/L 32...	454,60	**532**	454,60	**532**
HSK T100 XCLCF 32 R/L 00	HSK-T 100	160	45	88	45	XLCF R/L 32...	532,50	**732**	532,50	**732**



Protection plugs



Nozzle

Key D



Clamping wedge

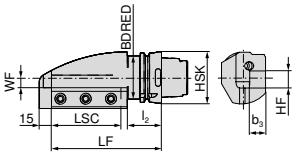


Hollow key with nose

Spare parts for Article no.		70 950 ... EUR 2A/28			70 950 ... EUR 28			80 950 ... EUR Y7		70 950 ... EUR 2A/28		70 950 ... EUR 2A/28	
74 584 532 / 74 585 532	UNJF 7/16"-20	21,22	**05600**	UNJF 7/16"-20	30,50	**05500**	T25	10,53	**115**	65,17	**860**	47,16	**05700**
74 584 732 / 74 585 732	UNJF 7/16"-20	21,22	**05600**	UNJF 7/16"-20	30,50	**05500**	T25	10,53	**115**	65,17	**860**	47,16	**05700**

16

HSK-T square shank adapter 0°

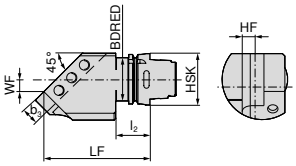




Illustrations show right-hand versions

ISO designation	Adapter	LF mm	l_2 mm	BDRED mm	WF mm	LSC mm	b_3 mm	HF mm	Left-hand 74 571 ... EUR 2D/80		Right-hand 74 570 ... EUR 2D/80	
HSK T63 SH R/L 00 2525	HSK-T 63	135	42	53	13	85,5	25	25	319,00	**525**	319,00	**532**
HSK T100 SH R/L 00 3232	HSK-T 100	145	45	88	15	87,5	32	32	419,30	**725**	419,30	**732**

HSK-T square shank adapter 45°

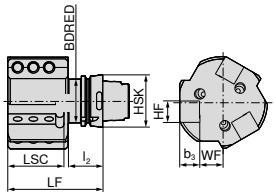




Illustrations show right-hand versions

ISO designation	Adapter	LF mm	l_2 mm	BDRED mm	WF mm	b_3 mm	HF mm	Left-hand 74 573 ... EUR 2D/80		Right-hand 74 572 ... EUR 2D/80	
HSK T63 SH R/L 45 2525	HSK-T 63	140	42	53	15	25	25	343,00	**525**	343,00	**525**
HSK T100 SH R/L 45 3232	HSK-T 100	160	45	88	20	32	32	439,70	**732**	439,70	**732**

HSK-T square shank adapter 3-face 0°





Left-hand 74 576 ... EUR 2D/80

ISO designation	Adapter	LF mm	l_2 mm	BDRED mm	WF mm	LSC mm	b_3 mm	HF mm		
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25	556,20	**525**
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	788,50	**725**



Protection plugs



Nozzle



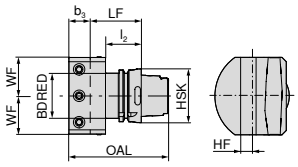
Hollow key with nose



Grubscrew

Spare parts Adapter		70 950 ... EUR 2A/28			70 950 ... EUR 28		70 950 ... EUR 2A/28			70 950 ... EUR 28	
HSK-T 100	UNJF 7/16"-20	21,22	**05600**	UNJF 7/16"-20	30,50	**05500**	47,16	**05700**	M12x1,75x25	1,67	**851**
HSK-T 63	UNJF 7/16"-20	21,22	**05600**	UNJF 7/16"-20	30,50	**05500**	47,16	**05700**	M12x1,75x25	1,67	**851**

HSK-T square shank adapter 90°





Neutral

ISO designation	Adapter	LF mm	l_2 mm	BDRED mm	WF mm	OAL mm	HF mm	b_3 mm	74 575 ... EUR 2D/80	
HSK T63 SH N 90 2525	HSK-T 63	60	42	53	45	85	25	25	325,80	**525**
HSK T100 SH N 90 3232	HSK-T 100	58	45	88	50	90	32	32	439,70	**732**



Protection plugs



Nozzle



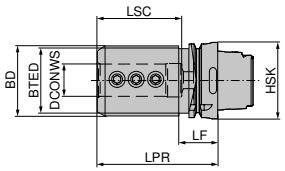
Hollow key with nose



Grubscrew

Spare parts Adapter		70 950 ... EUR 2A/28			70 950 ... EUR 28		70 950 ... EUR 2A/28			70 950 ... EUR 28	
HSK-T 100	UNJF 7/16"-20	21,22	**05600**	UNJF 7/16"-20	30,50	**05500**	47,16	**05700**	M12x1,75x25	1,67	**851**
HSK-T 63	UNJF 7/16"-20	21,22	**05600**	UNJF 7/16"-20	30,50	**05500**	47,16	**05700**	M12x1,75x25	1,67	**851**

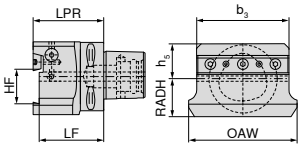
HSK-T Boring bar holder

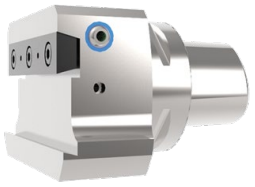




ISO designation	Adapter	LPR mm	DCONWS mm	BD mm	LSC mm	LF mm	BTED mm	74 577 ... EUR 2D/80	
HSK T63 BH08 80	HSK-T 63	80	8	32	41			237,00	**508**
HSK T63 BH10 80	HSK-T 63	80	10	40	41			237,00	**510**
HSK T63 BH12 80	HSK-T 63	80	12	40	41			237,00	**512**
HSK T63 BH16 80	HSK-T 63	80	16	40	51			237,00	**516**
HSK T63 BH20 80	HSK-T 63	80	20	50	51			237,00	**520**
HSK T63 BH25 90	HSK-T 63	90	25	53	61			237,00	**525**
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53	237,00	**532**
HSK T100 BH20 90	HSK-T 100	90	20	55	56			302,00	**720**
HSK T100 BH25 95	HSK-T 100	95	25	55	61			302,00	**725**
HSK T100 BH32 110	HSK-T 100	110	32	68	61			302,00	**732**
HSK T100 BH40 120	HSK-T 100	120	40	83	81			302,00	**740**
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88	302,00	**750**

Radial parting blade holder, right / left

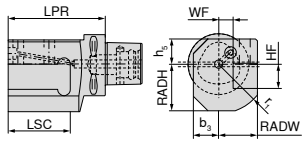




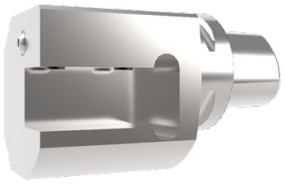
Neutral

Adapter	HF mm	LPR mm	OAW mm	b_3 mm	h_5 mm	RADH mm	LF mm	84 132 ... EUR Y8	
PSC 63	26	65	91	75	30	30	60	262,40	**626**
PSC 63	32	65	100	85	32	35	88	262,40	**632**

Square section adapter, single face

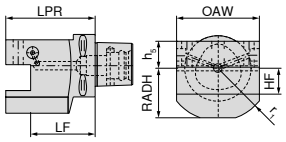


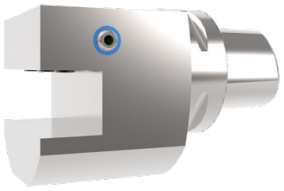
Illustrations show right-hand versions



Adapter	HF mm	LPR mm	b_3 mm	RADW mm	r_1 mm	WF mm	h_5 mm	RADH mm	LSC mm	Left-hand 84 611 ... EUR Y8		Right-hand 84 610 ... EUR Y8	
PSC 50	20	80	26	35	45	15	26	43	53	213,90	**520**	213,90	**520**
PSC 50	25	90	26	40	51	15	26	48	64	213,90	**525**	213,90	**525**
PSC 50	32	115	26	47	61	15	26	55	90	213,90	**532**	213,90	**532**
PSC 63	20	90	26	35	45	15	26	43	53	246,20	**620**	246,20	**620**
PSC 63	25	100	26	40	51	15	26	48	64	246,20	**625**	246,20	**625**
PSC 63	32	125	26	47	61	15	26	55	90	246,20	**632**	246,20	**632**
PSC 80	20	90	26	35	45	15	26	43	53	295,90	**820**	295,90	**820**
PSC 80	25	100	26	40	51	15	26	48	64	295,90	**825**	295,90	**825**
PSC 80	32	125	26	47	61	15	26	55	90	295,90	**832**	295,90	**832**

Square section adapter

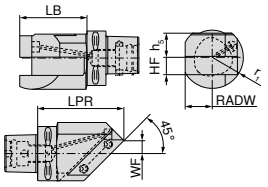


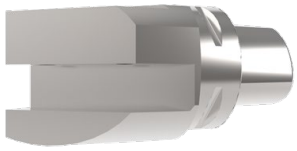


Neutral

Adapter	HF mm	LPR mm	OAW mm	r_1 mm	RADH mm	h_5 mm	LF mm	84 602 ... EUR Y8	
PSC 50	20	70	70	45	43	26	50	213,90	**520**
PSC 50	25	80	80	51	48	26	55	221,50	**525**
PSC 50	32	90	90	61	55	26	58	237,60	**532**
PSC 63	20	80	70	45	43	26	60	246,20	**620**
PSC 63	25	90	80	51	48	26	65	262,40	**625**
PSC 63	32	100	90	61	55	26	68	279,80	**632**
PSC 80	20	80	70	45	43	26	60	262,40	**820**
PSC 80	25	90	80	51	48	26	65	279,80	**825**
PSC 80	32	100	90	61	55	26	68	295,90	**832**

Square section adapter 45°

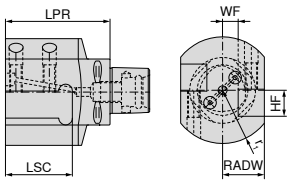


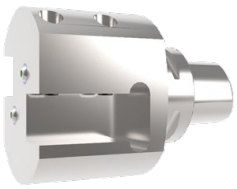


Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r_1 mm	WF mm	h_5 mm	LB mm	Left-hand 84 605 ... EUR Y8		Right-hand 84 604 ... EUR Y8	
PSC 50	20	100	31	36	15	26	80	213,90	**520**	213,90	**520**
PSC 63	20	100	32	36	15	28	78	254,90	**620**	254,90	**620**
PSC 80	32	135	45	70	17	40	105	287,40	**832**	287,40	**832**

Square section adapter, double face

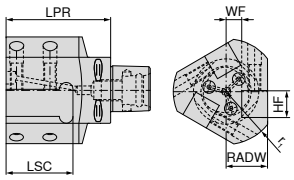


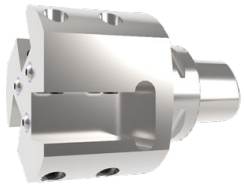


Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r_1 mm	WF mm	LSC mm	Left-hand 84 613 ... EUR Y8		Right-hand 84 612 ... EUR Y8	
PSC 50	20	80	35	45	15	53	361,80	**520**	361,80	**520**
PSC 50	25	90	40	51	15	64	370,40	**525**	370,40	**525**
PSC 50	32	115	47	61	15	90	378,00	**532**	378,00	**532**
PSC 63	20	90	35	45	15	53	378,00	**620**	378,00	**620**
PSC 63	25	100	40	51	15	64	386,70	**625**	386,70	**625**
PSC 63	32	125	47	61	15	90	394,20	**632**	394,20	**632**
PSC 80	20	90	35	45	15	53	452,60	**820**	452,60	**820**
PSC 80	25	100	40	51	15	64	460,10	**825**	460,10	**825**
PSC 80	32	125	47	61	15	90	469,90	**832**	469,90	**832**

Square section adapter, triple face

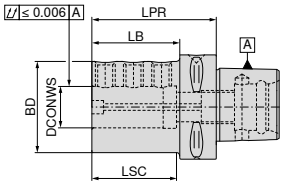




Illustrations show right-hand versions

Adapter	HF mm	LPR mm	RADW mm	r_1 mm	WF mm	LSC mm	Left-hand 84 615 ... EUR Y8		Right-hand 84 614 ... EUR Y8	
PSC 50	20	80	35	45	15	53	484,90	**520**	484,90	**520**
PSC 50	25	90	40	51	15	64	493,60	**525**	493,60	**525**
PSC 50	32	115	47	61	15	90	509,90	**532**	509,90	**532**
PSC 63	20	90	35	45	15	53	568,10	**620**	568,10	**620**
PSC 63	25	100	40	51	15	64	592,90	**625**	592,90	**625**
PSC 63	32	125	47	61	15	90	609,10	**632**	609,10	**632**
PSC 80	20	90	35	45	15	53	682,60	**820**	682,60	**820**
PSC 80	25	100	40	51	15	64	699,90	**825**	699,90	**825**
PSC 80	32	125	47	61	15	90	716,10	**832**	716,10	**832**

Boring bar holder







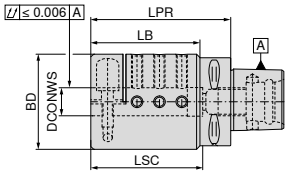
Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 130 ... EUR Y8	
PSC 50	6	70	40	50	40	189,00	**506**
PSC 50	8	70	44	50	40	189,00	**508**
PSC 50	10	70	44	50	45	189,00	**510**
PSC 50	12	70	44	50	45	189,00	**512**
PSC 50	16	75	44	55	45	189,00	**516**
PSC 50	20	75	50	75	51	189,00	**520**
PSC 50	25	80	55	50	51	189,00	**525**
PSC 50	32	90	72	70	60	189,00	**532**
PSC 63	6	75	40	53	40	189,00	**606**
PSC 63	8	75	44	53	40	189,00	**608**
PSC 63	10	75	44	53	45	189,00	**610**
PSC 63	12	75	44	53	45	189,00	**612**
PSC 63	16	75	44	53	45	189,00	**616**
PSC 63	20	75	50	53	51	189,00	**620**
PSC 63	25	75	55	53	51	189,00	**625**
PSC 63	32	75	72	52	60	189,00	**632**
PSC 63	40	105	70	82	90	189,00	**640**


Grubscrew

Spare parts DCONWS		84 950 ... EUR Y8	
6	M6x16	3,96	**153**
8	M8x16	3,96	**154**
10	M10x16	3,96	**155**
12 - 40	M12x14	3,96	**156**

Boring bar adapter, split version

- ▲ vibration-damped
- ▲ ideally suited for large overhangs





Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ... EUR Y8	
PSC 63	6	80	40	58	60	230,10	**606**
PSC 63	8	85	45	63	65	230,10	**608**
PSC 63	10	85	50	63	65	230,10	**610**
PSC 63	12	100	63	78	80	230,10	**612**
PSC 63	16	100	63	78	80	230,10	**616**
PSC 63	20	100	68	78	80	230,10	**620**
PSC 63	25	100	68	78	80	230,10	**625**
PSC 63	32	100	72	78	80	230,10	**632**


Grubscrew


Grubscrew

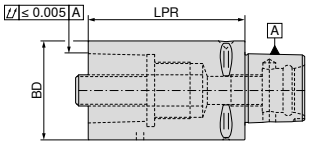

Stop screw IK

Spare parts DCONWS	83 950 ...	EUR Y8		84 950 ...	EUR Y8		81 950 ...	EUR Y8	
6							M5x15	1,36	**050**
8	M6x20	2,12	**462**						
10				M6x16	3,96	**153**			
12 - 20	M8x20	2,12	**468**						
25	M8x25	2,12	**467**						
32	M10x20	2,12	**471**						

16

Extension, axial clamping

▲ Run out ≤ 0,002mm





Adapter	BD mm	LPR mm	84 620 ... EUR Y8	
PSC 32	32	60	155,50	**301**
PSC 32	32	80	155,50	**302**
PSC 40	40	60	164,20	**401**
PSC 40	40	80	164,20	**402**
PSC 50	50	80	171,70	**501**
PSC 50	50	100	171,70	**502**
PSC 63	63	100	180,40	**601**
PSC 63	63	140	180,40	**602**
PSC 80	80	100	189,00	**801**
PSC 80	80	125	189,00	**802**



Threaded ring



tightening screw

Spare parts Adapter	84 950 ... EUR Y8			84 950 ... EUR Y8	
PSC 32	26,46	**127**	SW8	19,12	**122**
PSC 40	26,46	**128**	SW8	21,60	**123**
PSC 50	26,46	**129**	SW10	21,60	**124**
PSC 63	52,82	**130**	SW14	24,19	**126**
PSC 80	52,82	**130**	SW14	24,19	**126**

Accessories

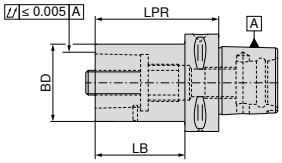


Hollow nose keys

→ 208

Cylindrical reduction

▲ Run out ≤ 0,002mm

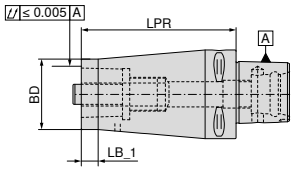




Adapter	BD mm	LPR mm	LB mm	84 624 ... EUR Y8	
PSC 40	32	55	35	148,00	403
PSC 50	32	60	40	164,20	503
PSC 50	40	65	45	164,20	504
PSC 63	32	70	48	171,70	603
PSC 63	40	80	58	171,70	604
PSC 63	50	80	58	171,70	605
PSC 80	32	60	30	180,40	803
PSC 80	40	70	40	180,40	804
PSC 80	50	80	50	180,40	805
PSC 80	63	80	50	180,40	806
PSC 80X	63	80	48	237,60	816
PSC 80X	80	100	68	237,60	818

Tapered reduction

▲ Run out ≤ 0,002mm





Adapter	BD mm	LPR mm	LB_1 mm	84 625 ... EUR Y8	
PSC 40	32	70	12	148,00	403
PSC 50	40	85	12	164,20	504
PSC 63	50	110	12	171,70	605
PSC 80	63	120	12	189,00	806
PSC 80X	80	150	12	237,60	818


Threaded ring


tightening screw

Spare parts Adapter	84 950 ... EUR Y8			84 950 ... EUR Y8	
PSC 40	26,46	128	SW8	21,60	123
PSC 50	26,46	129	SW10	21,60	124
PSC 63	52,82	130	SW14	24,19	126
PSC 80	52,82	130	SW14	24,19	126
PSC 80X	52,82	130	SW14	24,19	126

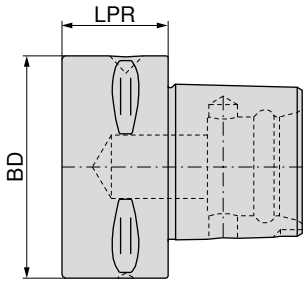
Accessories

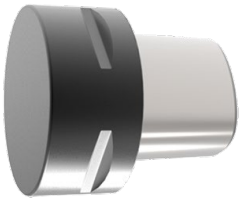

Hollow nose keys

→ 208

16

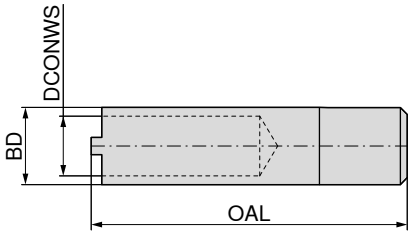
Sealing plugs





Adapter	BD mm	LPR mm	84 135 ... EUR Y8	
PSC 40	40	28	82,40	**040**
PSC 50	50	28	82,40	**050**
PSC 63	63	30	97,30	**060**
PSC 80	80	38	105,60	**080**

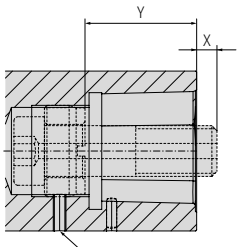
Hollow nose key for clamping screw for PSC extensions and reductions





Adapter	BD mm	OAL mm	DCONWS mm	84 651 ... EUR Y8	
PSC 32	16	80	12,5	44,50	**032**
PSC 40	20	80	15,0	46,99	**040**
PSC 50	22	90	17,0	46,99	**050**
PSC 63/80/80X	34	110	21,0	51,84	**063**

Installation instructions: clamping screw for PSC extensions and reductions

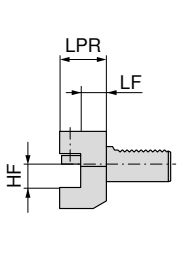


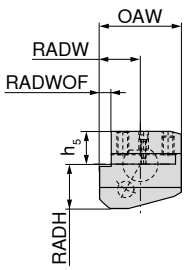
X = Screw leading edge
Y = Threaded ring insertion depth

Threaded ring secured with threaded pin DIN 914.
Drilled threaded ring !

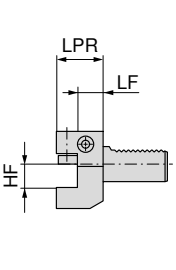
adapter	X mm	Y mm
PSC 32	5	24
PSC 40	5	29
PSC 50	6	36
PSC 63	8	44
PSC 80	0	53
PSC 80X	0	53

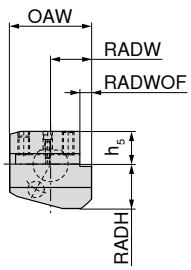
Radial tool holders, short





B2





B1

B2



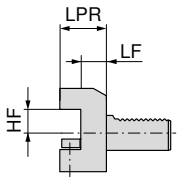
B1

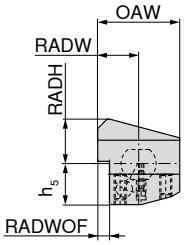


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	RADWOF mm	h5 mm	RADH mm	LF 0/+0,5 mm	LPR mm	Left-hand 82 189 ... EUR Y8		Right-hand 82 185 ... EUR Y8	
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24	146,90	160	106,10	160
VDI 16	12	42	23,0	5,0	20,0	22	23,0	34	120,90	161		
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	113,40	200	120,90	200
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	118,90	201	116,70	201
VDI 20	16	55	30,0	7,0	25,0	30	18,0	30	327,30	202 1)	366,10	202 1)
VDI 20	16	55	30,0	7,0	25,0	30	25,5	40			325,10	203 1)
VDI 25	16	55	30,0	7,0	25,0	30	16,0	30	194,40	250	132,80	250
VDI 30	20	70	35,0	10,0	28,0	38	18,5	40	122,10	300	110,10	300
VDI 30	20	70	35,0	10,0	28,0	35	32,0	50			681,60	302 1)
VDI 30	20	70	35,0	10,0	28,0	38	42,0	60	153,40	301	144,80	301
VDI 40	25	85	42,5	12,5	32,5	48	18,5	44	124,20	400	113,40	400
VDI 50	32	100	50,0	16,0	35,0	60	30,0	55	191,20	500	189,00	500

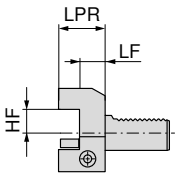
1) Height adjustable +/- 1 mm

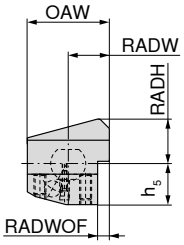
Radial tool holders, overhead, short





B4





B3

B4



B3

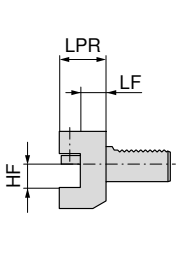


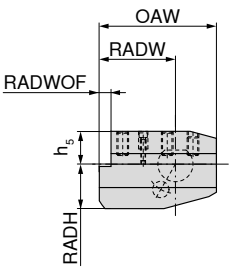
Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	RADWOF mm	h5 mm	RADH mm	LF 0/+0,5 mm	LPR mm	Left-hand 82 196 ... EUR Y8		Right-hand 82 193 ... EUR Y8	
VDI 16	12	42	23,0	5,0	20,0	22	13,0	24			112,40	160
VDI 20	16	55	30,0	7,0	25,0	30	16,0	30	118,90	200	120,90	200
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	200,90	201	139,40	201
VDI 20	16	55	30,0	7,0	25,0	30	18,5	30	398,50	202 1)	397,50	202 1)
VDI 20	16	55	30,0	7,0	25,0	30	26,0	40	551,90	203 1)	354,20	203 1)
VDI 25	16	55	30,0	7,0	25,0	30	16,0	30	194,40	250	138,20	250
VDI 30	20	70	35,0	10,0	35,0	38	42,0	60	153,40	301	153,40	301
VDI 30	20	70	35,0	10,0	35,0	38	18,5	40	124,20	300	114,40	300
VDI 40	25	85	42,5	12,5	42,5	48	18,5	44	126,40	400	115,60	400
VDI 50	32	100	50,0	16,0	50,0	60	30,0	55	191,20	500	191,20	500

1) Height adjustable +/- 1 mm

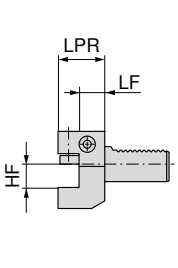
You can find spare parts on → **Page 254**

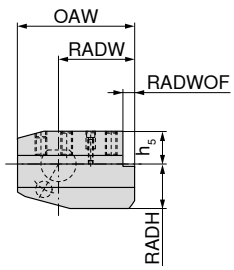
Radial tool holders, long





B6





B5

B6



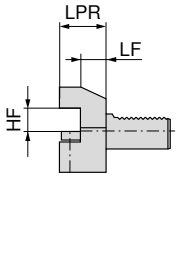
B5

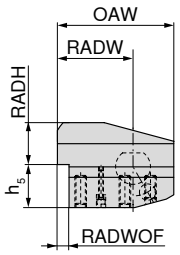


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	RADWOF mm	h_5 mm	RADH mm	LF 0/+0,5 mm	LPR mm	Left-hand 82 202 ... EUR Y8		Right-hand 82 199 ... EUR Y8	
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30	153,40	**200**	167,50	**200**
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40	148,00	**201**	156,70	**201**
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30			394,20	**202** 1)
VDI 30	20	100	65,0	10,0	28,0	38	18,5	40	142,60	**300**	138,20	**300**
VDI 30	20	100	65,0	10,0	28,0	38	42,0	60	165,20	**301**	280,80	**301**
VDI 40	25	118	75,5	12,5	32,5	48	18,5	44	140,40	**400**	143,60	**400**
VDI 50	32	130	80,0	16,0	35,0	60	30,0	55	216,00	**500**	222,50	**500**

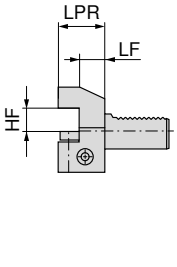
1) Height adjustable +/- 1 mm

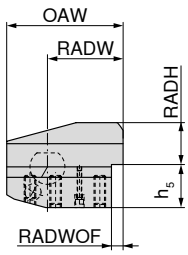
Radial tool holders, overhead, long





B8





B7

B8



B7

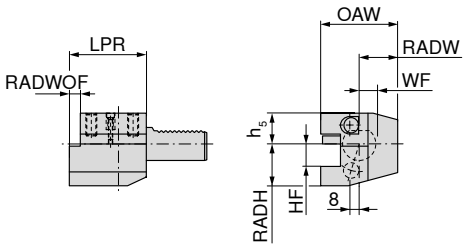


Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	RADWOF mm	h_5 mm	RADH mm	LF 0/+0,5 mm	LPR mm	Left-hand 82 208 ... EUR Y8		Right-hand 82 205 ... EUR Y8	
VDI 20	16	75	50,0	7,0	25,0	30	16,0	30	163,20	**200**	136,10	**200**
VDI 20	16	75	50,0	7,0	25,0	30	26,0	40			211,70	**201**
VDI 20	16	75	50,0	7,0	25,0	30	18,0	30			394,20	**202** 1)
VDI 30	20	100	65,0	10,0	35,0	38	18,5	40	126,40	**300**	142,60	**300**
VDI 30	20	100	65,0	10,0	35,0	38	42,0	60			167,50	**301**
VDI 40	25	118	75,5	12,5	42,5	48	18,5	44	142,60	**400**	143,60	**400**
VDI 50	32	130	80,0	16,0	50,0	60	30,0	55	199,80	**500**	226,80	**500**

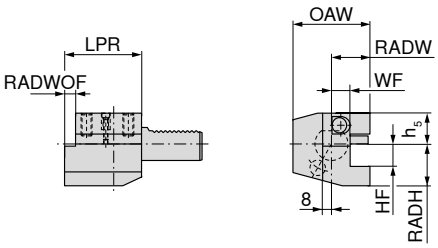
1) Height adjustable +/- 1 mm

You can find spare parts on → **Page 254**

Axial tool holders



C2



C1



C2

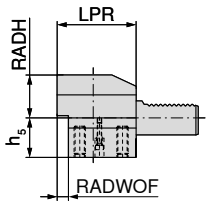


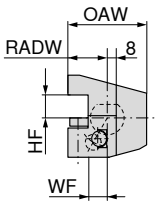
C1

Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h_5 mm	RADH mm	LPR mm	Left-hand 82 214 ... EUR Y8		Right-hand 82 211 ... EUR Y8	
VDI 16	12	43	24,0	13,0	20,0	22	44			135,00	**160**
VDI 20	16	65	40,0	26,0	25,0	30	50	139,40	**200**	142,60	**201**
VDI 20	16	65	40,0	25,5	25,0	30	50			405,00	**202** [1]
VDI 20	16	52	27,0	13,0	25,0	30	55			140,40	**200**
VDI 25	16	58	33,0	19,0	25,0	30	55	142,60	**250**	143,60	**250**
VDI 30	20	70	35,0	17,0	28,0	38	70			128,50	**300**
VDI 30	20	76	41,0	23,0	28,0	38	70	137,20	**300**		
VDI 40	25	90	47,5	25,5	32,5	48	85	151,20	**400**		
VDI 40	25	85	42,5	20,5	32,5	48	85			146,90	**400**
VDI 50	32	100	50,0	25,5	35,0	60	100			218,20	**500**
VDI 50	32	105	55,0	30,5	35,0	60	100	231,10	**500**		

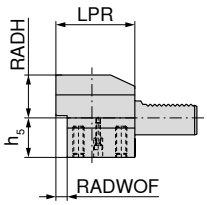
1) Height adjustable +/- 1 mm

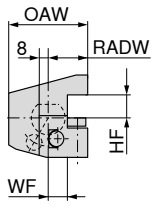
Axial tool holders, overhead





C4





C3



C4



C3

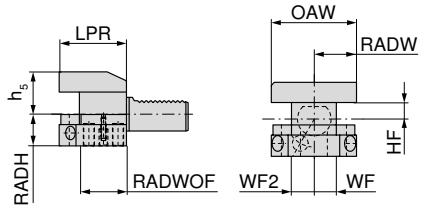
Adapter	HF 0/-0,1 mm	OAW mm	RADW mm	WF 0/+0,3 mm	h_5 mm	RADH mm	LPR mm	Left-hand 82 220 ... EUR Y8		Right-hand 82 217 ... EUR Y8	
VDI 16	12	43	24,0	13,0	20,0	22	44			144,80	**160**
VDI 20	16	65	40,0	26,0	25,0	30	50	148,00	**200**	157,70	**201**
VDI 20	16	65	40,0	25,5	30,0	25	50			507,60	**202** [1]
VDI 20	16	65	40,0	25,5	25,0	30	50	480,70	**201** [1]		
VDI 20	16	52	27,0	13,0	25,0	30	55			162,00	**200**
VDI 25	16	58	33,0	19,0	25,0	30	55	156,70	**250**	156,70	**250**
VDI 30	20	70	35,0	17,0	35,0	38	70			131,70	**300**
VDI 30	20	76	41,0	23,0	35,0	38	70	137,20	**300**		
VDI 40	25	85	42,5	20,5	42,5	48	85			151,20	**400**
VDI 40	25	90	47,5	25,5	42,5	48	85	151,20	**400**		
VDI 50	32	100	50,0	25,5	50,0	60	100			221,50	**500**
VDI 50	32	105	55,0	30,5	50,0	60	100	189,00	**500**		

1) Height adjustable +/- 1 mm

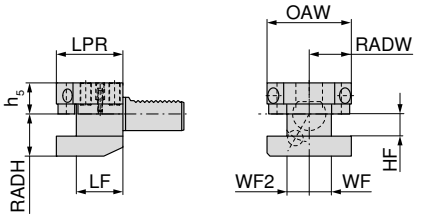
You can find spare parts on → **Page 254**

16

Multiple tool holders



D2



D1

D2 D1

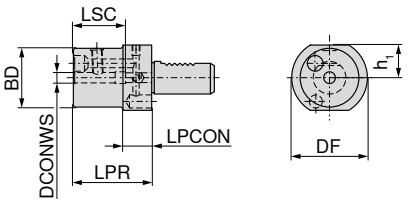




Adapter	$HF_{0/-0,1}$ mm	RADW mm	$WF_{0/+0,3}$ mm	$WF2_{0/+0,3}$ mm	OAW mm	h_5 mm	RADH mm	$LF_{0/+0,5}$ mm	LPR mm	82 224 ... EUR Y8		82 222 ... EUR Y8	
VDI 25	16	33,0	19,0	19,0	66	22,0	30	34	48			300,30	**250**
VDI 25	16	33,0	19,0	19,0	66	25,0	30	34	48	320,70	**250**		
VDI 30	20	35,0	17,0	23,0	76	28,0	38	42	60			304,60	**300**
VDI 30	20	35,0	17,0	23,0	76	35,0	38	42	60	304,60	**300**		
VDI 40	25	42,5	20,5	25,5	90	32,5	48	50	72			320,70	**400**
VDI 40	25	42,5	20,5	25,5	90	42,5	48	50	72	320,70	**400**		

Cylindrical tool holders

- for tools with cylindircal shank to DIN 6535 and DIN 1835 Form E (Whistle Notch)
- Coolant supply either centrally through the tool or via the adjustable ball spray nozzles



E





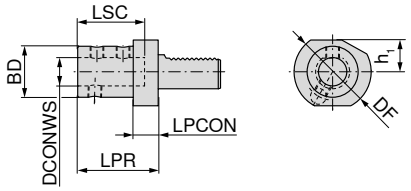
Cooling through nozzle

Adapter	DCONWS mm	DF mm	BD mm	h_1 mm	LPR mm	LPCON mm	LSC mm	83 269 ... EUR Y8	
VDI 20	6	50	45	23,0	60	22	40	140,40	**206**
VDI 20	8	50	45	23,0	60	22	40	135,00	**208**
VDI 20	10	50	45	23,0	60	22	44	135,00	**210**
VDI 20	12	50	45	23,0	60	22	49	135,00	**212**
VDI 20	14	50	45	23,0	62	22	49	135,00	**214**
VDI 20	16	50	45	23,0	67	22	52	130,70	**216**
VDI 20	18	50	45	23,0	67	22	52	130,70	**218**
VDI 20	20	50	45	23,0	67	22	52	130,70	**220**
VDI 30	6	68	52	28,0	67	22	35	146,90	**306**
VDI 30	8	68	52	28,0	67	22	35	139,40	**308**
VDI 30	10	68	52	28,0	67	22	39	139,40	**310**
VDI 30	12	68	52	28,0	67	22	44	139,40	**312**
VDI 30	14	68	52	28,0	67	22	44	139,40	**314**
VDI 30	16	68	52	28,0	67	22	47	135,00	**316**
VDI 30	18	68	52	28,0	67	22	47	139,40	**318**
VDI 30	20	68	52	28,0	67	22	52	135,00	**320**
VDI 40	6	83	52	32,5	67	22	35	163,20	**406**
VDI 40	8	83	52	32,5	67	22	35	157,70	**408**
VDI 40	10	83	52	32,5	67	22	39	157,70	**410**
VDI 40	12	83	52	32,5	67	22	44	157,70	**412**
VDI 40	14	83	52	32,5	67	22	44	157,70	**414**
VDI 40	16	83	52	32,5	67	22	47	152,30	**416**
VDI 40	18	83	52	32,5	67	22	47	152,30	**418**
VDI 40	20	83	52	32,5	67	22	52	152,30	**420**

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply

E1







AD

82 274 ...

Adapter	DCONWS $_{H6}$ mm	DF mm	BD mm	h_1 mm	LPR mm	LPCON mm	LSC mm	EUR Y8	
VDI 20	16	50	36	23,0	67	18	54	107,40	**200**
VDI 20	20	50	40	23,0	67	18	54	107,40	**201**
VDI 20	25	50	45	23,0	71	18	59	107,40	**202**
VDI 25	16	58	36	25,0	67	18	54	145,90	**250**
VDI 25	20	58	40	25,0	67	18	54	145,90	**251**
VDI 25	25	58	45	25,0	71	18	59	145,90	**252**
VDI 30	16	68	36	28,0	67	22	54	99,57	**300**
VDI 30	20	68	40	28,0	67	22	54	99,57	**301**
VDI 30	25	68	45	28,0	71	22	59	99,57	**302**
VDI 30	32	68	52	28,0	75	22	63	99,57	**303**
VDI 30	40	68	60	28,0	87	22	73	107,00	**304**
VDI 40	16	83	36	32,5	67	22	54	113,40	**400**
VDI 40	20	83	40	32,5	67	22	54	113,40	**401**
VDI 40	25	83	45	32,5	75	22	59	113,40	**402**
VDI 40	32	83	52	32,5	75	22	63	113,40	**403**
VDI 40	40	83	60	32,5	90	22	73	113,40	**404**
VDI 50	20	98	40	35,0	80	30	54	158,70	**500**
VDI 50	25	98	45	35,0	80	30	59	158,70	**501**
VDI 50	32	98	52	35,0	80	30	63	158,70	**502**
VDI 50	40	98	60	35,0	90	30	73	158,70	**503**
VDI 50	50	98	70	35,0	100	30	83	116,70	**504**

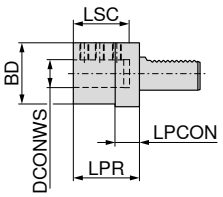
You can find spare parts on → **Page 254**

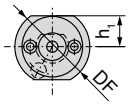
16

Boring bar holder

- for turning tools with cylindrical shank
- Coolant supply either through the tool or via the ball-shaped spray nozzle

E2









Cooling through nozzle

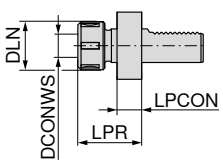
Adapter	DCONWS $_{H7}$ mm	DF mm	BD mm	h_1 mm	LPR mm	LPCON mm	LSC mm	82 268 ... EUR Y8	
VDI 16	6	40	32	18,0	44	13	34	129,70	**160** [1]
VDI 16	8	40	32	18,0	44	13	34	110,10	**161** [1]
VDI 16	10	40	32	18,0	44	13	34	110,10	**162** [1]
VDI 16	12	40	40	18,0	44	13	34	110,10	**163** [1]
VDI 16	16	40	40	18,0	44	13	34	110,10	**164** [1]
VDI 20	8	50	40	23,0	50	18	41	115,60	**200**
VDI 20	10	50	40	23,0	50	18	41	115,60	**201**
VDI 20	12	50	40	23,0	50	18	41	115,60	**202**
VDI 20	16	50	40	23,0	50	18	41	115,60	**203**
VDI 20	20	50	50	23,0	50	18	41	115,60	**204**
VDI 20	25	50	50	23,0	60	18	51	115,60	**205**
VDI 25	8	58	40	25,0	50	18	41	132,80	**250**
VDI 25	10	58	40	25,0	50	18	41	132,80	**251**
VDI 25	12	58	40	25,0	50	18	41	132,80	**252**
VDI 25	16	58	40	25,0	50	18	41	132,80	**253**
VDI 25	20	58	58	25,0	50	18	41	132,80	**254**
VDI 25	25	58	58	25,0	60	18	51	132,80	**255**
VDI 30	8	68	55	28,0	60	22	51	113,40	**300**
VDI 30	10	68	55	28,0	60	22	51	113,40	**301**
VDI 30	12	68	55	28,0	60	22	51	113,40	**302**
VDI 30	16	68	55	28,0	60	22	51	113,40	**303**
VDI 30	20	68	55	28,0	60	22	51	113,40	**304**
VDI 30	25	68	55	28,0	60	22	51	113,40	**305**
VDI 30	32	68	68	28,0	75	22	61	113,40	**306**
VDI 40	8	83	55	32,5	75	22	61	115,60	**400**
VDI 40	10	83	55	32,5	75	22	61	115,60	**401**
VDI 40	12	83	55	32,5	75	22	61	115,60	**402**
VDI 40	16	83	55	32,5	75	22	61	115,60	**403**
VDI 40	20	83	55	32,5	75	22	61	115,60	**404**
VDI 40	25	83	55	32,5	75	22	61	115,60	**405**
VDI 40	32	83	83	32,5	75	22	61	115,60	**406**
VDI 40	40	83	83	32,5	90	22	76	115,60	**407**
VDI 50	12	98	68	35,0	90	30	76	165,20	**500**
VDI 50	16	98	68	35,0	90	30	76	165,20	**501**
VDI 50	20	98	68	35,0	90	30	76	165,20	**502**
VDI 50	25	98	68	35,0	90	30	76	157,70	**503**
VDI 50	32	98	68	35,0	90	30	76	157,70	**504**
VDI 50	40	98	98	35,0	90	30	76	157,70	**505**
VDI 50	50	98	98	35,0	100	30	86	157,70	**506**

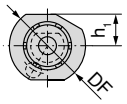
1) Coolant supply through pipe joint

You can find spare parts on → **Page 254**

OZ-Collet chuck

E3







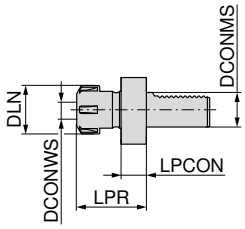
82 285 ...

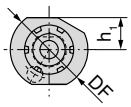
Adapter	DCONWS mm	DF mm	DLN mm	h_1 mm	LPR mm	LPCON mm	for collet	EUR Y8	
VDI 20	2 - 16	50	43	23,0	57	18	415E / 421E (OZ)	176,00	**202**
VDI 30	2 - 16	68	43	28,0	57	22	415E / 421E (OZ)	170,70	**301**
VDI 30	2 - 25	68	60	28,0	75	22	459E / 462E (OZ)	170,70	**302**
VDI 40	2 - 25	83	60	32,5	75	22	459E / 462E (OZ)	179,30	**402**
VDI 40	4 - 32	83	72	32,5	90	22	460E / 467E (OZ)	184,80	**403**
VDI 50	2 - 25	98	60	35,0	75	30	459E / 462E (OZ)	274,30	**500**
VDI 50	4 - 32	98	72	35,0	90	30	460E / 467E (OZ)	274,30	**501**

OZ collets can be found on → **Page 268**.

ER Collet chucks

E4







82 286 ...

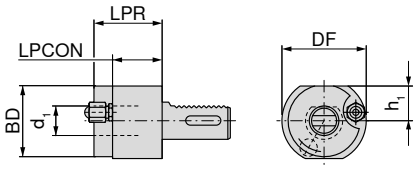
Adapter	DCONWS mm	DF mm	DLN mm	h_1 mm	LPR mm	LPCON mm	for collet	EUR Y8	
VDI 16	1 - 10	40	28	18,0	45,5	14	426E (ER16)	155,50	**160**
VDI 16	1 - 13	40	34	18,0	44,0	14	428E (ER20)	153,40	**161**
VDI 20	1 - 16	50	42	23,0	57,0	18	430E (ER25)	156,70	**202**
VDI 20	2 - 20	50	50	23,0	62,0	18	470E (ER32)	160,90	**203**
VDI 25	1 - 16	58	42	25,0	57,0	18	430E (ER25)	227,80	**250**
VDI 25	2 - 20	58	50	25,0	62,0	18	470E (ER32)	230,10	**251**
VDI 30	1 - 16	68	42	28,0	57,0	22	430E (ER25)	139,40	**300**
VDI 30	2 - 20	68	50	28,0	75,0	22	470E (ER32)	142,60	**301**
VDI 40	1 - 16	83	42	32,5	63,0	22	430E (ER25)	157,70	**400**
VDI 40	2 - 20	83	50	32,5	75,0	22	470E (ER32)	157,70	**401**
VDI 40	3 - 26	83	63	32,5	75,0	22	472E (ER40)	163,20	**402**
VDI 50	2 - 20	94	50	35,0	75,0	30	470E (ER32)	239,80	**500**
VDI 50	3 - 26	94	63	35,0	63,0	30	472E (ER40)	239,80	**501**

ER collets can be found on → **Pages 256–266**.

Morse taper adapters

▲ For taper shanks with ejector tang

F1

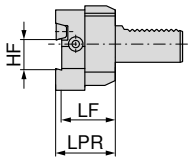


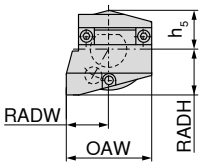


Adapter	d_1	BD mm	DF mm	h_1 mm	LPR mm	LPCON mm	82 277 ... EUR Y8	
VDI 20	MK1		50	23,0	23		109,10	**200**
VDI 20	MK2		50	23,0	87		109,10	**201**
VDI 30	MK1		68	28,0	27		98,39	**300**
VDI 30	MK2		68	28,0	27		105,20	**301**
VDI 30	MK3	58	68	28,0	55	40	105,20	**302**
VDI 40	MK2	55	83	32,5	36	22	115,60	**401**
VDI 40	MK3	58	83	32,5	36	22	115,60	**402**
VDI 40	MK4	68	83	32,5	80	22	115,60	**403**
VDI 50	MK2	55	98	35,0	36	30	176,00	**500**
VDI 50	MK3	58	98	35,0	36	30	176,00	**501**
VDI 50	MK4	68	98	35,0	50	30	176,00	**502**

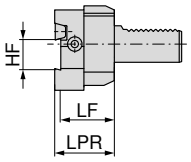
Parting blade holders, height adjustable

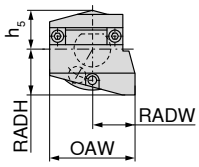
- Vertical adjustment ± 1 mm
- Suitable for internal cooling through the parting blade (DC)
- axially parallel, adjustable external coolant supply



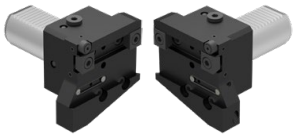


left





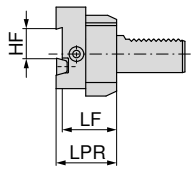
right

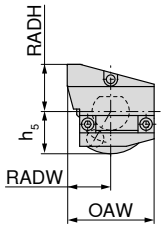


Adapter	OAW mm	RADW mm	HF mm	h_5 mm	RADH mm	LF mm	LPR mm	Left-hand 82 237 ... EUR Y8		Right-hand 82 236 ... EUR Y8	
VDI 25	53	28,0	26	25,0	30	35	40			400,80	**250**
VDI 30	70	35,0	26	28,0	38	44	49	331,60	**300**	331,60	**300**
VDI 30	70	35,0	32	30,5	38	44	49	390,00	**302**	390,00	**302**
VDI 40	73	42,5	26	32,0	48	44	49	404,00	**040**	404,00	**040**
VDI 40	85	42,5	32	32,0	48	44	49	334,90	**400**	334,90	**400**

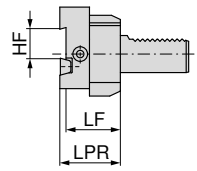
Parting blade holders, height adjustable, overhead

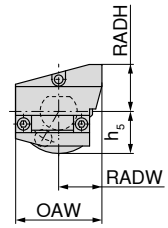
- Vertical adjustment ± 1 mm
- Suitable for internal cooling through the parting blade (DC)
- axially parallel, adjustable external coolant supply





left





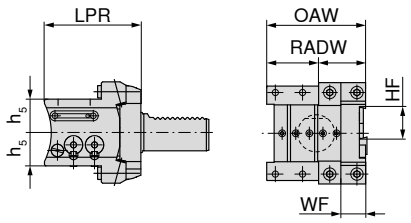
right

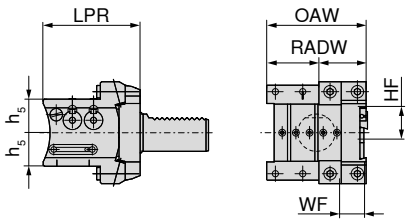


Adapter	OAW mm	RADW mm	HF mm	h_5 mm	RADH mm	LF mm	LPR mm	Left-hand 82 243 ... EUR Y8		Right-hand 82 242 ... EUR Y8	
VDI 30	70	35,0	26	34,0	38	44	49	443,90	**300**	443,90	**300**
VDI 30	70	35,0	32	30,5	38	44	49	390,00	**302**	390,00	**302**
VDI 40	73	42,5	26	32,0	48	44	49	404,00	**040**	404,00	**040**
VDI 40	85	42,5	32	32,0	48	44	49	334,90	**400**	334,90	**400**

Parting blade holders, height adjustable

- Vertical adjustment ± 1 mm
- Suitable for internal cooling through the parting blade (DC)
- axially parallel, adjustable external coolant supply



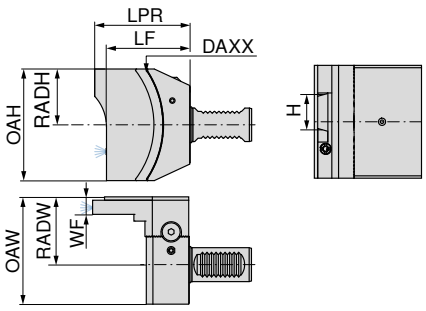




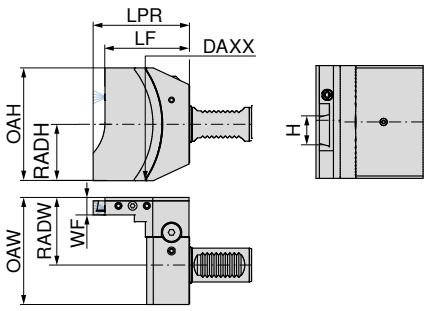
Adapter	OAW mm	RADW mm	HF mm	h_5 mm	WF mm	LPR mm	Universal-overhead 82 244 ... EUR Y8		Universal 82 238 ... EUR Y8	
VDI 30	80	40	26	27	20	78	621,00	**300**	621,00	**300**
VDI 40	80	40	26	27	20	88	689,10	**400**	689,10	**400**
VDI 40	80	40	32	32	20	88	689,10	**402**	689,10	**402**

Parting blade holder

- doubles = reciprocally interlocked VDI shank

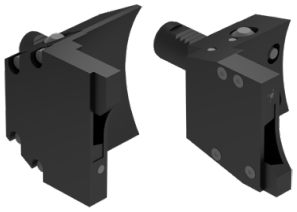


double – overhead



double

NEW NEW



Adapter	LPR mm	LF mm	OAH mm	RADH mm	OAW mm	RADW mm	WF mm	DAXX mm	H mm	double - overhead 83 227 ... EUR Y7		double 83 226 ... EUR Y7	
VDI 20	85,5	75,0	94	47	85	60	15,5	176	26	503,10	**02629**[1)]	503,10	**02629**[1)]
VDI 25	85,2	74,7	73	39	72	43	15,5	176	32			538,60	**03228**[1)]
VDI 25	85,2	74,7	73	39	72	43	15,5	176	26	538,60	**02628**[1)]	538,60	**02628**[1)]
VDI 30	85,5	75,0	100	50	95	60	15,5	176	32	538,60	**03227**[1)]	538,60	**03227**[1)]
VDI 30	85,5	75,0	100	50	95	60	15,5	176	26	538,60	**02627**[1)]	538,60	**02627**[1)]
VDI 40	88,5	78,0	100	50	95	60	15,5	176	32	580,40	**03226**[1)]	580,40	**03226**[1)]
VDI 40	88,5	78,0	100	50	95	60	15,5	176	26	580,40	**02626**[1)]	580,40	**02626**[1)]

1) Not ex-stock

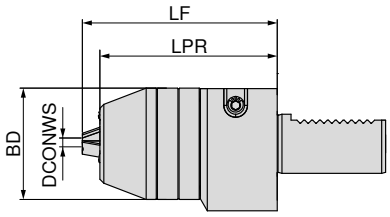
With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Short drill chuck – NC 2010

- ▲ Coolant supply via 3 adjustable ball-shaped spray nozzles in the housing
- ▲ Independent of direction of rotation

Scope of supply:

Basic body including chuck key SW 4



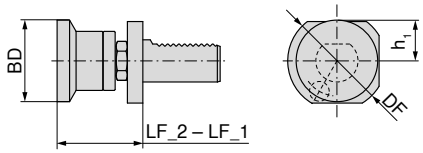


Adapter	DCONWS mm	BD mm	LPR mm	LF mm	84 297 ... EUR Y8	
VDI 20	0,5 - 10	48,5	40	50	311,10	**210** [1]
VDI 30	0,5 - 13	56,5	90	99	311,10	**313**
VDI 30	2,5 - 16	56,5	90	99	332,70	**316**
VDI 40	0,5 - 13	56,5	90	99	317,60	**413**
VDI 40	2,5 - 16	56,5	90	99	338,20	**416**

1) Without Through Coolant

Material stops

- ▲ Revolving, length adjustable



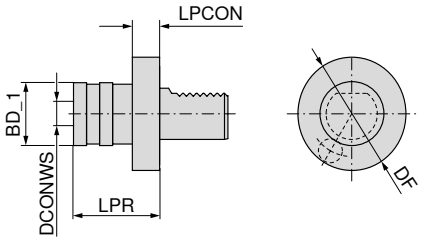


Adapter	BD mm	DF mm	h_1 mm	LF_2 mm	LF_1 mm	83 292 ... EUR Y8	
VDI 20	26	50	23,0	50	70	357,50	**200** [1]
VDI 20	32	50	23,0	50	70	371,50	**201** [1]
VDI 20	42	50	23,0	50	70	366,10	**202** [1]
VDI 30	32	68	28,0	62	95	279,80	**300**
VDI 30	42	68	28,0	62	95	284,10	**301**
VDI 30	58	68	28,0	62	95	285,10	**302**
VDI 40	32	83	32,5	62	95	288,40	**400**
VDI 40	42	83	32,5	62	95	290,60	**401**
VDI 40	58	83	32,5	62	95	286,10	**402**

1) without VDI location

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



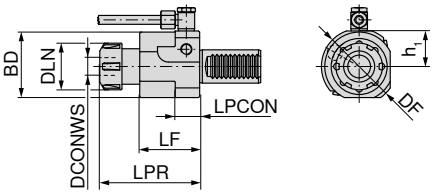


Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm	83 307 ... EUR Y8	
VDI 20	M3 - M12	01	19	38	55	9	352,10	**112**
VDI 25	M3 - M12	01	19	38	55	9	352,10	**212**
VDI 30	M3 - M12	01	19	38	55	9	270,10	**312**
VDI 40	M3 - M12	01	19	38	55	9	302,40	**412**
VDI 20	M6 - M20	02	31	55	77	15	385,60	**120**
VDI 25	M6 - M20	02	31	55	77	15	385,60	**220**
VDI 30	M6 - M20	02	31	55	77	15	357,50	**320**
VDI 40	M6 - M20	02	31	55	77	15	373,70	**420**

Quick change adapters can be found on → **Page 277–281**.

Tap holders with length compensation GML

▲ LZD = Length compensation under tension and compression
▲ for ER collets with internal square ISO 15488-A (DIN 6499-A)





Adapter	DCONWS mm	DLN mm	BD mm	DF mm	h_1 mm	LPR mm	LF mm	LPCON mm	LZD± mm	for collet	83 290 ... EUR Y8	
VDI 20	0,5 - 10	28	45	50	23,0	65	40	18	6,0 / 1,5	4031E (ER16)	572,50	**213**
VDI 30	1 - 16	42	62	68	28,0	90	54	42	8,0 / 2,0	4282E (ER25)	572,50	**316**
VDI 40	1 - 16	42	62	83	32,5	85	49	42	8,0 / 2,0	4282E (ER25)	572,50	**416**

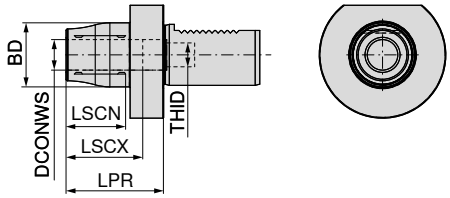
ER collets can be found on → **Pages 256–266**.

Hydraulic chuck

- For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- One screw for locking the boring bar
- High-precision clamping with a repeatability of 3 µm

Scope of supply:
Base body with backstop screw and pressure screw

NEW






AD

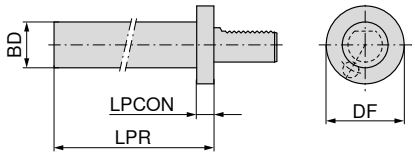
Adapter	DCONWS mm	BD mm	LPR mm	LSCX mm	LSCN mm	THID	83 402 ... EUR Y8	
VDI 30	20	42	64	51	41	M16x1	426,30	**02027**
VDI 40	20	42	64	51	41	M16x1	445,30	**02026**


Stop screw IK

Spare parts DCONWS		83 950 ... EUR Y7	
20	M16x1x31 - SW5	14,08	**48700**

Test arbors

- Radial run-out ≤ 0.02 mm





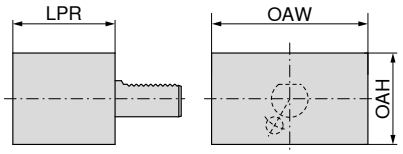
Adapter	BD_{h5} mm	DF mm	LPR mm	LPCON mm	83 324 ... EUR Y8	
VDI 16	30	40	120	15	203,10	**016**
VDI 20	40	50	150	15	222,50	**020**
VDI 30	40	68	200	15	237,60	**030**
VDI 40	40	83	200	15	252,80	**040**
VDI 50	40	98	200	15	276,60	**050**

16

Tool holders, rough machined, rectangular

▲ Manufactured from C45

A1



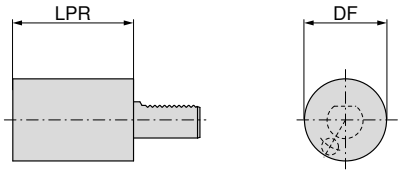


Adapter	LPR mm	OAW mm	OAH mm	82 327 ... EUR Y8	
VDI 16	44	78	44	91,04	**160**
VDI 20	65	100	60	176,00	**200**
VDI 25	75	100	60	126,40	**250**
VDI 30	85	130	76	165,20	**300**
VDI 40	100	151	96	180,40	**400**
VDI 50	125	160	120	265,70	**500**

Tool holders, rough machined, round

▲ Manufactured from C45

A2



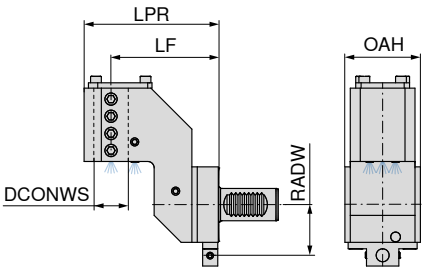


Adapter	LPR mm	DF mm	82 330 ... EUR Y8	
VDI 16	60	40	78,41	**160**
VDI 20	70	50	63,18	**200**
VDI 25	80	58	91,27	**250**
VDI 25	200	58	104,90	**253**
VDI 30	100	68	72,14	**300**
VDI 30	240	68	85,86	**303**
VDI 40	120	83	82,62	**400**
VDI 40	320	83	124,20	**403**
VDI 50	135	98	122,10	**500**
VDI 50	400	98	197,70	**502**

Boring bar holder, with offset, with through coolant

- doubles = reciprocally interlocked VDI shank
- external coolant supply available

NEW





double



IC

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	83 229 ... EUR Y7	
VDI 25	25	99,5	75	30	40	598,70	**02528** [1]
VDI 30	32	125,0	100	70	47	593,90	**03227** [1]
VDI 40	40	133,0	100	85	56	642,90	**04026** [1]

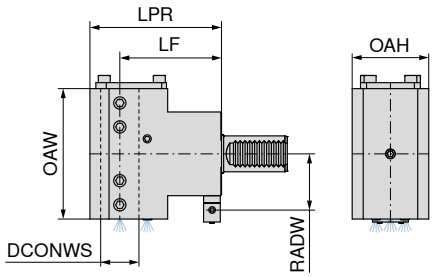
1) Not ex-stock

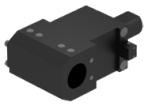
With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Double boring bar holder with through coolant

- doubles = reciprocally interlocked VDI shank
- for use of two boring bars for main and sub-spindle machining
- external coolant supply available

NEW





double



IC

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	OAW mm	83 230 ... EUR Y7	
VDI 25	25	99,5	75	54	40	104	560,70	**02528** [1]
VDI 30	32	110,0	85	62	47	109	499,30	**03227** [1]
VDI 30	32	125,0	100	62	47	118	593,90	**13227** [1]
VDI 40	40	152,0	120	76	56	116	696,90	**04026** [1]

1) Not ex-stock

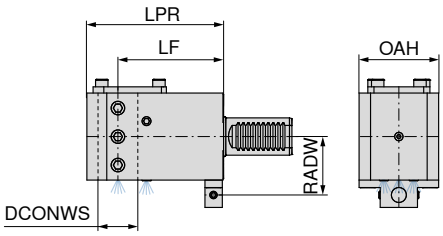
With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

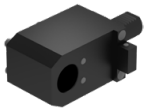
16

Boring bar holder with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ external coolant supply available

NEW





double



IC

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	83 228 ... EUR Y7	
VDI 25	25	100	75	60	40	418,40	**02528** [1]
VDI 30	32	110	85	64	47	455,30	**03227** [1]
VDI 30	32	125	100	64	47	465,10	**13227** [1]
VDI 40	40	130	100	76	56	490,80	**04026** [1]
VDI 40	40	152	120	76	56	530,00	**14026** [1]
VDI 50	50	155	120	98	64	717,80	**05025** [1]

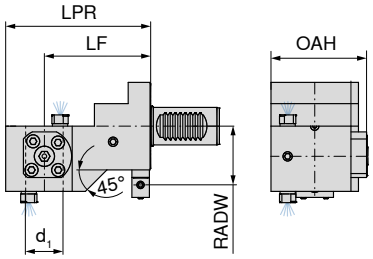
1) Not ex-stock

With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

90° VDI to VDI adapter, double sided

- ▲ for rotating toolholder

NEW





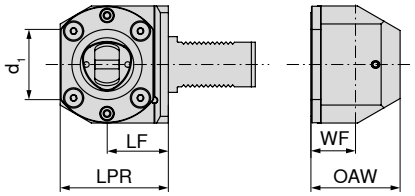
Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	83 225 ... EUR Y7	
VDI 25	25	104	75	38,0	40	477,30	**02528** [1]
VDI 25	20	104	75	67,5	40	477,30	**02028** [1]
VDI 30	30	116	85	76,5	47	460,10	**03027** [1]
VDI 30	30	131	100	76,5	47	522,70	**13027** [1]
VDI 40	40	133	100	89,0	56	683,40	**04026** [1]
VDI 40	40	153	120	89,0	56	570,50	**14026** [1]

1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:
including pull stud

NEW





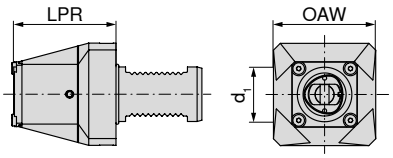
Adapter	d_1	LF mm	LPR mm	WF mm	OAW mm	90° 83 231 ... EUR Y7	
VDI 30	PSC 40	41	65	21	56	620,20	**04027** [1]
VDI 40	PSC 40	51	75	30	86	620,20	**04026** [1]
VDI 40	PSC 50	53	85	40	80	648,00	**05026** [1]
VDI 40	PSC 63	53	95	40	80	682,80	**06326** [1]
VDI 50	PSC 50	53	85	40	80	648,00	**05025** [1]
VDI 50	PSC 63	55	97	40	80	682,80	**06325** [1]

1) Not ex-stock

VDI to PSC adapter

Scope of supply:
including pull stud

NEW



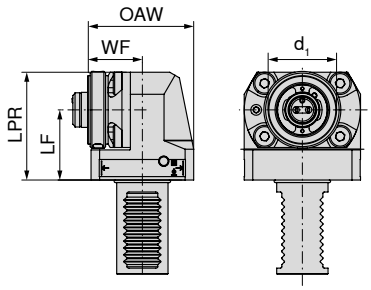


Adapter	d_1	LPR mm	OAW mm	83 232 ... EUR Y7	
VDI 30	PSC 40	70	60	620,20	**04027** [1]
VDI 40	PSC 40	75	75	620,20	**04026** [1]
VDI 40	PSC 50	85	82	648,00	**05026** [1]
VDI 40	PSC 63	90	105	682,80	**06326** [1]
VDI 50	PSC 50	85	91	648,00	**05025** [1]
VDI 50	PSC 63	100	105	682,80	**06325** [1]

1) Not ex-stock

90° VDI to HSK-T adapter

NEW



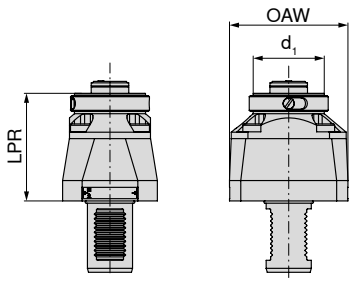


Adapter	d_1	LF mm	LPR mm	WF mm	OAW mm	90° 83 233 ... EUR Y7	
VDI 30	HSK-T 40	41	65	25	60	620,20	**04027** [1]
VDI 40	HSK-T 40	51	75	34	90	620,20	**04026** [1]
VDI 40	HSK-T 63	53	90	45	85	682,80	**06326** [1]
VDI 50	HSK-T 63	55	97	45	85	682,80	**06325** [1]

1) Not ex-stock

VDI to HSK-T adapter

NEW





Adapter	d_1	LPR mm	OAW mm	83 234 ... EUR Y7	
VDI 30	HSK-T 40	74	60	620,20	**04027** [1]
VDI 40	HSK-T 40	79	75	620,20	**04026** [1]
VDI 40	HSK-T 63	95	105	682,80	**06326** [1]
VDI 50	HSK-T 63	105	105	682,80	**06325** [1]

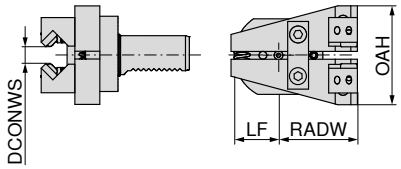
1) Not ex-stock

Bar pullers for disc turrets, radial

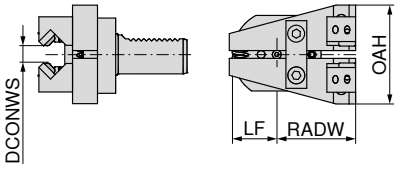
- Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- GA = Gripper set

Scope of supply:
Bar puller incl. GA 1 for VDI 16, and GA 3 from VDI 20

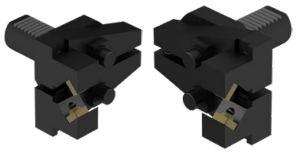
NEW NEW



left



right



Adapter	DCONWS mm	LF mm	OAH mm	RADW mm	GA	Left-hand 80 309 ... EUR Y7		Right-hand 80 306 ... EUR Y7	
VDI 16	2 - 22	28	74	35	1			903,90	01600
VDI 20	2 - 42	34	85	61	3			1.086,00	02000
VDI 30	2 - 42	34	105	61	3 - 4	1.086,00	03000	1.086,00	03000
VDI 40	2 - 65	34	125	61	3 - 4	1.498,00	04000	1.498,00	04000

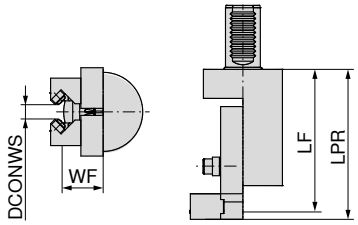
Bar pullers for star turrets

- Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- 90° angle head
- GA = Gripper set

Scope of supply:
Bar puller with GA 3

NEW



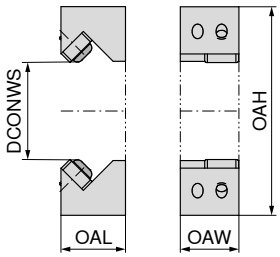


Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA	Left-hand 80 310 ... EUR Y7	
VDI 30	2 - 42	122,5	129	37,0	3 - 4	1.192,00	03000
VDI 40	2 - 65	142,5	149	41,5	3 - 4	1.566,00	04000

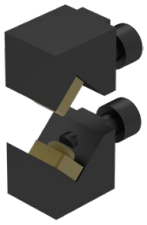
16

Gripper accessories

▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
▲ Price per pair

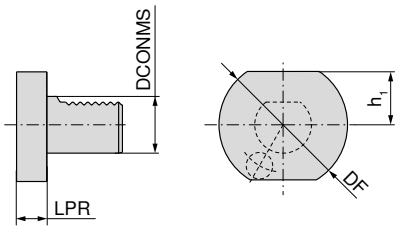


NEW

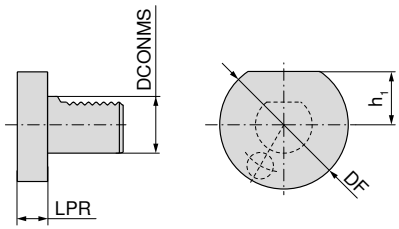


GA	DCONWS mm	OAL mm	OAW mm	OAH mm	80 312 ... EUR Y7	
1	2 - 22	24,5	13	58	199,80	12200
3	2 - 42	26,0	22	86	199,80	14200
4	42 - 65	29,5	22	102	264,60	16500

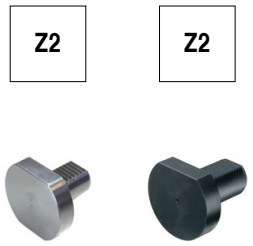
Protection plugs



Steel



Plastic

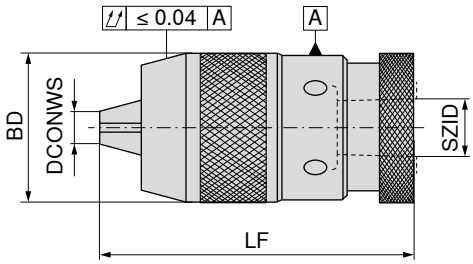


DCONMS h8 mm	DF mm	h1 mm	LPR mm	Steel 82 317 ... EUR Y8		Plastic 83 318 ... EUR Y8	
16	40	18,0	16	27,76	160	20,73	160
20	50	23,0	16	26,03	200	8,34	200
25	58	25,0	16	37,15	250		
30	68	28,0	16	25,70	300	8,54	300
40	83	32,5	20	32,61	400	9,67	400
50	98	35,0	20	32,61	500	13,94	500

Drill chuck

- For manual and key clamping
- Through-hardened and ground

Scope of supply:
Holder with clamping key





SZID	DCONWS mm	LF mm	BD mm		83 636 ... EUR Y8	
B12	0 - 8	73	35		90,84	**012**
B12	0 - 10	92	43		107,10	**112**
B16	1 - 13	106	50		128,50	**016**
B16	3 - 16	110	57		108,10	**116**
B18	3 - 16	110	57		137,20	**018**



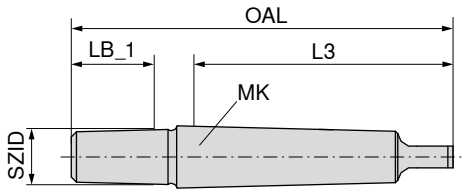
NC clamping key

Spare parts DCONWS	83 302 ... EUR Y8	
0 - 10	8,86	**010**
0 - 8	8,51	**008**
1 - 13	8,51	**013**
3 - 16	10,21	**016**

Suitable adapters can be found on **page 50+96**.

Drill chuck adapter DIN 238

▲ Through-hardened and ground

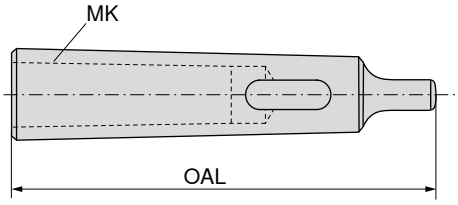




Adapter	SZID	l_3 mm	LB_1 mm	OAL mm	83 642 ... EUR Y8	
MK1	B12	62,0	18,5	89,0	4,68	**120**
MK1	B16	62,0	24,0	97,0	4,15	**160**
MK1	B18	62,0	32,0	106,0	4,96	**180**
MK2	B12	75,0	18,5	106,5	4,68	**121**
MK2	B16	75,0	24,0	110,5	4,68	**161**
MK2	B18	75,0	32,0	117,5	5,01	**181**
MK3	B12	94,0	18,5	125,0	6,48	**122**
MK3	B16	94,0	24,0	134,0	6,28	**162**
MK3	B18	94,0	32,0	141,0	6,72	**182**
MK4	B16	117,5	24,0	159,0	14,15	**163**
MK4	B18	117,5	32,0	168,0	14,36	**183**
MK5	B16	149,5	24,0	196,0	31,21	**164**
MK5	B18	149,5	32,0	204,5	32,40	**184**

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



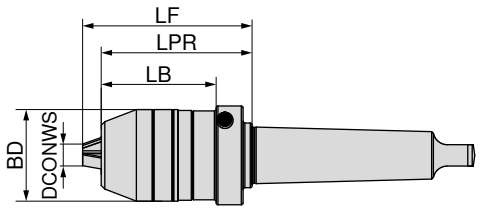


Adapter	d_1	OAL mm	83 644 ... EUR Y8	
MK1	MK0	80	10,10	**010**
MK2	MK1	92	10,44	**020**
MK3	MK1	99	12,42	**130**
MK3	MK2	112	11,44	**030**
MK4	MK1	124	18,90	**240**
MK4	MK2	124	17,93	**140**
MK4	MK3	140	17,60	**040**
MK5	MK2	156	38,12	**250**
MK5	MK3	156	39,32	**150**
MK5	MK4	171	37,48	**050**

Short drill chuck – NC 2010

- bidirectional
- Torque moment = 12 Nm
- with Morse taper

Scope of supply:
Holder with clamping key





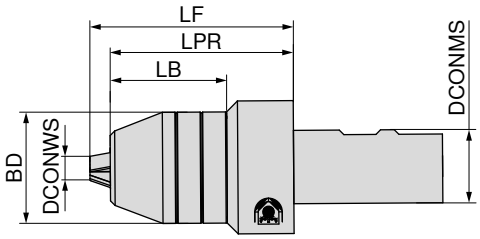


Adapter	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	84 314 ... EUR Y8	
MK3	0,5 - 13	48,5	64	84	93,0	232,30	**313**
MK3	2,5 - 16	51,0	64	84	94,5	232,30	**316**
MK4	2,5 - 16	51,0	64	84	94,5	256,00	**416**

Short drill chuck – NC 2010

- bidirectional
- Torque moment = 12 Nm
- with cylindrical shank

Scope of supply:
Holder with clamping key





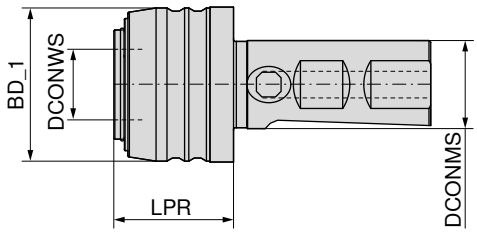


G 6,3 n_{max} 10000

DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm	84 311 ... EUR Y8	
25	0,5 - 13	48,5	50,9	80	89,0	256,00	**213**
32	0,5 - 13	48,5	50,9	80	89,0	278,60	**313**
32	2,5 - 16	51,0	50,9	80	90,5	302,40	**316**

Synchro quick change tapping chuck with minimum length compensation

- For collets according to DIN 6499
- With length compensation under tension and under compression (LZD)
- $p_{max.}$ = 50 bar



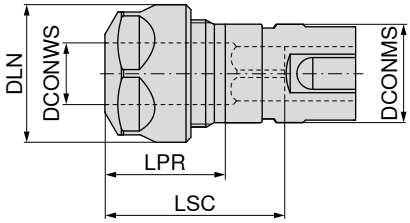


DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	83 641 ... EUR Y8	
20	M3 - M12	1	35	43,5	25	1,0 / 0,2	137,20	**012**
32	M6 - M20	2	56	60,0	25	1,0 / 0,2	157,70	**020**

Insert for synchro quick change tapping chuck with minimum length compensation

- SZID = for insert size

Scope of supply:
Includes lock nut





SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ... EUR Y8	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	113,40	**012**
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	131,70	**020**


Lock nut


Lock nut IK

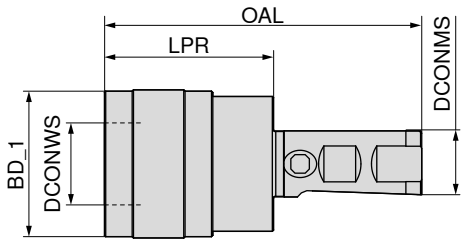

Lock nut


Y clamping key

Spare parts for Article no.		62 950 ... EUR W7		83 950 ... EUR Y8		62 950 ... EUR W7		83 357 ... EUR Y8	
83 608 012	M22x1,5 - SW25	18,35	**044**	M22x1,5	31,54	**054**	M22x1,5	18,35	**054**	16,52	**116**
83 608 020				M32x1,5	35,76	**055**	M32x1,5	20,52	**055**	18,25	**125**

Quick change tap chuck with length compensation

- With cylindrical shank
- With length compensation under tension and compression (LZD)
- Quick change adapters



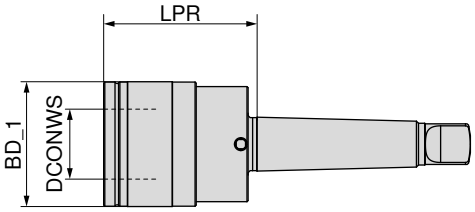




DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm	83 648 ... EUR Y8	
20	M3 - M12	01	41	38	19	91	9	199,80	**112**
20	M6 - M20	02	63	55	31	138	15	270,10	**120**
25	M3 - M12	01	41	38	19	97	9	199,80	**212**
25	M6 - M20	02	63	55	31	119	15	245,10	**220**
32	M3 - M12	01	41	38	19	102	9	203,10	**312**
32	M6 - M20	02	63	55	31	124	15	252,80	**320**

DIN 228B – Quick change tap chuck with length compensation

- With Morse taper shank
- With length compensation under tension and compression (LZD)







Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	83 646 ... EUR Y8	
MK 2	M3 - M12	01	46	38	19	9	172,70	**212**
MK 3	M3 - M12	01	46	38	19	9	168,50	**312**
MK 3	M6 - M20	02	69	55	31	15	211,70	**320**
MK 4	M6 - M20	02	70	55	31	15	211,70	**420**

Accessories

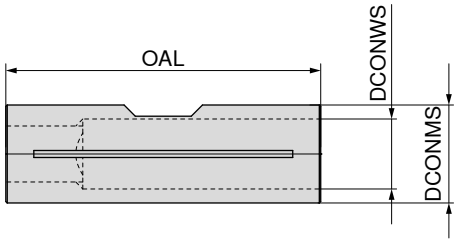


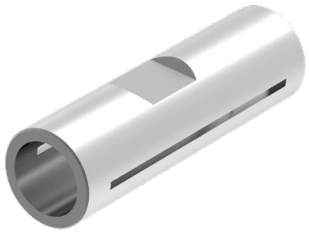
Collet

→ 277, 279–281

Clamping sleeve for taps in Weldon chucks

- For machines with rigid tapping
- For safe clamping of taps



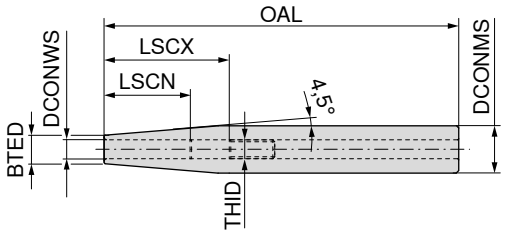


DCONWS $_{H7}$ mm	DCONMS $_{f6}$ mm	OAL mm	80 699 ... EUR Y7	
3,5	6	26	35,11	**03500**
4,0	8	32	36,32	**04000**
4,5	8	26	36,32	**04500**
6,0	10	30	35,16	**06000**
7,0	10	31	35,16	**07000**
8,0	12	38	35,64	**08000**
9,0	12	38	35,64	**09000**
10,0	14	42	36,13	**10000**
11,0	14	42	36,13	**11000**
12,0	16	44	36,65	**12000**
14,0	18	45	37,65	**14000**
16,0	20	46	38,69	**16000**

Shrink fit extension

- For solid carbide and HSS shanks with h6 tolerance or better
- DRVS = Key size of the adjustment screw

TG







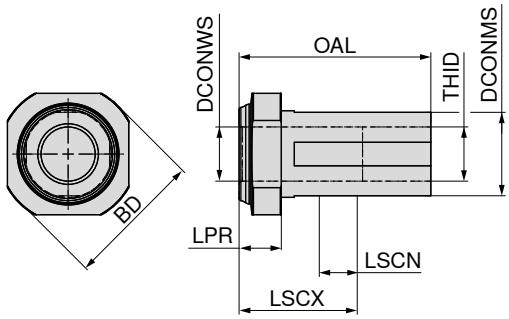
DCONMS h6 mm	DCONWS mm	BTED mm	OAL mm	LSCX mm	LSCN mm	THID	DRVS mm	84 310 ... EUR Y8	
12	3	8	150					116,70	**003**
12	4	8	150					116,70	**004**
12	5	10	150					116,70	**005**
12	6	10	150	36	26	M5	2,5	116,70	**006**
16	3	10	150					116,70	**103**
16	4	10	150					116,70	**104**
16	5	10	150					116,70	**105**
16	6	10	150	36	26	M5	2,5	116,70	**106**
16	8	12	150	36	26	M6	3,0	116,70	**108**
20	3	10	150					116,70	**203**
20	4	10	150					116,70	**204**
20	5	10	150					116,70	**205**
20	6	10	150	36	26	M5	2,5	116,70	**206**
20	8	12	150	36	26	M6	3,0	116,70	**208**
20	10	14	150	42	32	M8x1	3,0	116,70	**210**
20	12	16	150	47	37	M10x1	5,0	116,70	**212**
25	3	10	150					116,70	**303**
25	4	10	150					116,70	**304**
25	5	15	150					116,70	**305**
25	6	20	150	36	26	M5	2,5	116,70	**306**
25	8	20	150	36	26	M6	3,0	116,70	**308**
25	10	20	150	42	32	M8x1	3,0	116,70	**310**
25	12	20	150	47	37	M10x1	5,0	116,70	**312**
25	14	20	150	47	37	M10x1	5,0	116,70	**314**
25	16	22	150	50	40	M10x1	5,0	116,70	**316**
32	6	20	150	36	26	M5	2,5	116,70	**406**
32	8	20	150	36	26	M6	3,0	116,70	**408**
32	10	24	150	42	32	M8x1	3,0	116,70	**410**
32	12	24	150	47	37	M10x1	5,0	116,70	**412**
32	14	27	150	47	37	M10x1	5,0	116,70	**414**
32	16	27	150	50	40	M10x1	5,0	116,70	**416**
32	18	27	150	50	40	M10x1	5,0	116,70	**418**
32	20	27	150	52	42	M10x1	5,0	116,70	**420**

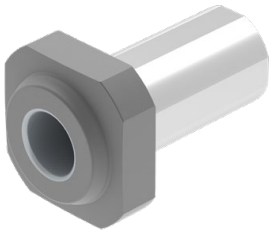
Observe the minimum clamping depth on → **Page 300.**

Hydraulic chuck with cylindrical shank

- For the hydraulic clamping of cylindrical tool shanks tol. h6, boring bars and cylindrical tool holders tol. h7, g6 in fixed base holders
- One screw for locking the boring bar
- With length setting screw – can also be removed, to enable the boring bar to be slid through
- High-precision clamping with a repeatability of 3 µm

Scope of supply:
Base body with backstop screw and pressure screw





NEW



DCONMS mm	DCONWS mm	BD mm	LPR mm	OAL mm	LSCX mm	LSCN mm	THID	83 402 ... EUR Y8	
32	16	41	19,5	78,5	51	41	M22x1	302,80	**31699**
32	20	41	19,5	78,5	51	41	M22x1	302,80	**32099**
40	16	46	19,5	88,5	51	41	M22x1	312,30	**41699**
40	20	46	19,5	88,5	51	41	M22x1	312,30	**42099**
40	25	46	19,5	88,5	57	47	M27x1	312,30	**42599**



Stop screw IK

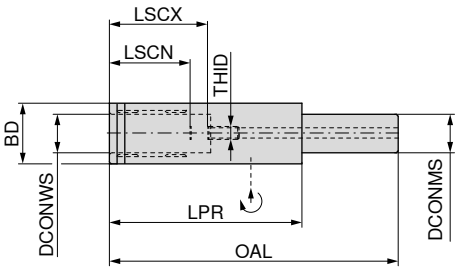
Spare parts DCONWS	83 950 ... EUR Y7	
16 - 20	22,12	**48500**
25	34,91	**48600**

Hydraulic expansion extension especially for Hydraulic Chucks

▲ For solid carbide and HSS shanks with h6 tolerance or better

Scope of supply:

Base body with backstop screw and pressure screw







G 2,5 n_{max} 25000

DCONMS mm	DCONWS mm	BD mm	LPR mm	OAL mm	LSCX mm	LSCN mm	THID	84 313 ... EUR Y8	
20	12	25,0	100	150	46	36	M6	290,60	**112**
20	20	31,5	100	150	51	41	M10x1	290,60	**120**
32	20	31,5	90	150	51	41	M10x1	290,60	**132**
32	20	31,5	90	200	51	41	M10x1	299,20	**232**

Observe the minimum clamping depth on → **Page 300.**



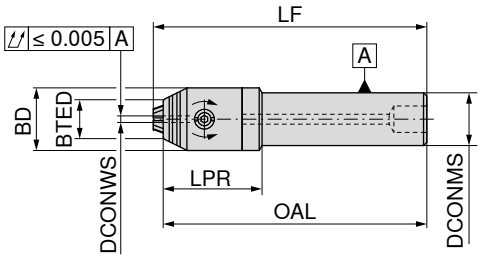
Stop screw IK

Spare parts for Article no.		83 950 ... EUR Y7	
84 313 112	M6x12,5 - SW3	8,35	**419**
84 313 120	M10x1x13,5 - SW5	8,35	**421**
84 313 132	M10x1x13,5 - SW5	8,35	**421**
84 313 232	M10x1x13,5 - SW5	8,35	**421**

Micro-precision collet chuck

- bidirectional
- for speeds up to 60,000 1/min.

Scope of supply:
Holder including clamping wrench SW 2 x 60 mm







G 2,5 n_{max} 18000

DCONMS mm	DCONWS mm	LPR mm	OAL mm	LF mm	BD mm	BTED mm	TQX Nm	84 315 ... EUR Y7	
16	0,2 - 3,4	30	80	83	19	12	2	402,80	**161**
16	0,2 - 3,4	30	100	103	19	12	2	423,40	**162**
16	0,2 - 3,4	30	160	163	19	12	2	464,40	**163**
20	0,2 - 3,4	28	80	83	19	12	2	402,80	**201**
20	0,2 - 3,4	28	100	103	19	12	2	423,40	**202**
20	0,2 - 3,4	28	160	163	19	12	2	464,40	**203**

TORX® blade

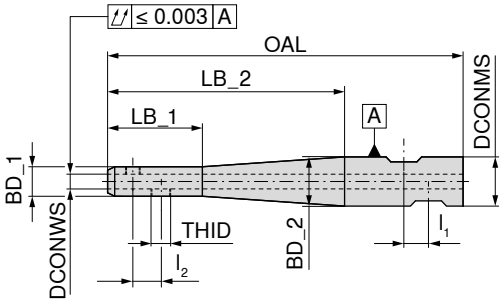

Torque screwdriver

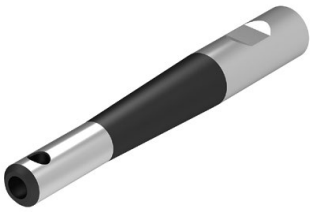
Spare parts for Article no.	80 950 ... EUR Y7			80 021 ... EUR Y7	
84 315 161	5,77	**152**	1,8 Nm	99,95	**018**
84 315 162	5,77	**152**	1,8 Nm	99,95	**018**
84 315 163	5,77	**152**	1,8 Nm	99,95	**018**
84 315 201	5,77	**152**	1,8 Nm	99,95	**018**
84 315 202	5,77	**152**	1,8 Nm	99,95	**018**
84 315 203	5,77	**152**	1,8 Nm	99,95	**018**

Micro-extension

- ▲ for shanks with lateral clamping flat to DIN 6535 HB / 1835 B
- ▲ with option for Synchro-Plus tapping (available on request)

Scope of supply:
Holder with shank clamping screw







DCONWS mm	BD_1 mm	LB_1 mm	LB_2 mm	OAL mm	DCONMS mm	BD_2 mm	l_1 mm	l_2 mm	THID	TQX Nm	80 642 ... EUR Y7	
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	112,40	**00600**
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	136,10	**10600**
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	110,10	**00800**
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	132,80	**10800**
10	18	40	40	90	20	18	10	10	M10 x 1	12	110,10	**01000**
10	18	40	100	150	20	20	10	10	M10 x 1	12	132,80	**11000**
12	21	40	40	90	20	21	10	10	M12 x 1	15	110,10	**01200**
12	21	40	100	150	20	21	10	10	M12 x 1	15	132,80	**11200**
14	23	40	40	90	20	23	10	10	M12 x 1	15	113,40	**01400**
14	23	40	100	150	20	23	10	10	M12 x 1	15	136,10	**11400**
16	26	40	50	106	25	26	10	12	M14 x 1	18	127,40	**01600**[1)]
16	26	40	100	156	25	26	10	12	M14 x 1	18	156,70	**11600**[1)]
18	28	40	50	106	25	28	10	12	M14 x 1	18	132,80	**01800**[1)]
18	28	40	100	156	25	28	10	12	M14 x 1	18	159,90	**11800**[1)]
20	31	40	50	110	32	31	10	14	M16 x 1	20	131,70	**02000**[1)]
20	31	40	100	160	32	31	10	14	M16 x 1	20	157,70	**12000**[1)]

1) only pre-balanced design

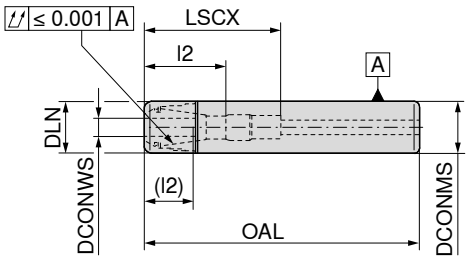

Clamping screw

Spare parts DCONWS		80 950 ... EUR Y7	
6	M6X0,5X3	8,21	**21700**
8	M8x0,75x4	8,21	**21800**
10	M10x1x5	8,21	**21900**
12 - 14	M12x1x5	8,33	**30000**
16 - 18	M14x1x6,5	8,66	**31000**
20	M16x1x6,5	8,90	**32000**

Mini ER precision collet chuck – Centro-P

▲ Maximum clamping range covered according to ISO tolerance field H10
▲ Roll key required for clamping

Scope of supply:
Holder without nut, without backstop







DCONMS mm	DCONWS mm	DLN mm	OAL mm	LSCX mm	l_2 (l_2) mm	for collet	84 456 ... EUR Y8	
10	1 - 5	10	80	16		4004E (ER08)	142,70	**00400**
10	1 - 5	10	150	16		4004E (ER08)	140,90	**005**
10	1 - 5	10	200	16		4004E (ER08)	192,70	**006**
12	1 - 5	10	120	16		4004E (ER08)	153,20	**11000**
12	1 - 5	10	160	16		4004E (ER08)	159,50	**11200**
12	1 - 5	10	200	16		4004E (ER08)	195,20	**11400**
16	1 - 7	16	150	68	18 - 36 (12 - 26)	4008E (ER11)	125,30	**007**
16	1 - 7	16	200	68	18 - 36 (12 - 26)	4008E (ER11)	156,50	**008**
16	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	125,30	**010**
16	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	158,50	**12000**
20	1 - 10	22	150	68	28 - 48 (16 - 35)	426E (ER16)	131,50	**102**
20	1 - 10	22	200	68	28 - 48 (16 - 35)	426E (ER16)	156,50	**104**

LSCX = Clamping depth without back stop screw for shanks
l_2 = with back stop screw 1, dimension in brackets ( ) = with back stop screw 2
dimension OAL when using tightening nuts with seals 4 mm longer


Mini lock nut IK


Mini lock nut


Stop screw 2


Stop screw 1

Spare parts for collet	84 950 ... EUR Y8		84 950 ... EUR Y8		83 950 ... EUR Y8		83 950 ... EUR Y8	
4004E (ER08)			39,34	**040**				
4008E (ER11)			34,14	**041**	M8x1 - SW4	13,94 **340**	M8x1 - SW4	10,23 **336**
426E (ER16)	42,46	**035**	34,14	**034**	M11x1 - SW6	14,50 **341**	M11x1 - SW6	10,23 **337**

Accessories


ER collet
→ 256–263, 266


Device
→ 274

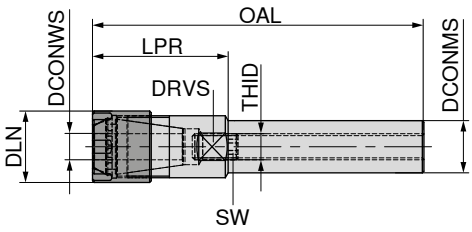

Roll key
→ 275


Roll key device
→ 275

The transferable torques can be found on → **Page 300.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank



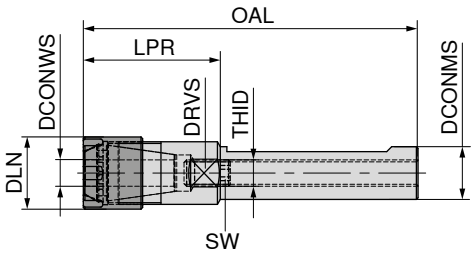


DCONMS h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	83 453 ... EUR Y8	
8	1 - 5	81	26	12		9		4004E (ER08)	80,56	**081** 1)
12	1 - 5	157	20	12	M5x0,8	10	2,5	4004E (ER08)	110,40	**122**
16	1 - 7	185	25	16	M7,5x0,5	14	3,0	4008E (ER11)	118,40	**163**
16	1 - 10	117	37	22	M11x1	17	5,0	426E (ER16)	83,51	**164**
16	1 - 10	199	39	22	M8x1,25	17	4,0	426E (ER16)	118,40	**165**
20	1 - 10	168	28	22	M11x1	17	5,0	426E (ER16)	114,70	**204**
25	1 - 13	168	28	28	M14x1	22	5,0	428E (ER20)	132,10	**254**
25	1 - 16	189	39	35	M18x1	27	5,0	430E (ER25)	165,80	**256**

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat





DCONMS h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	83 454 ... EUR Y8	
20	1 - 10	168	28	22	M11x1	17	5	426E (ER16)	114,70	**204**
20	1 - 13	138	38	28	M11x1	22	5	428E (ER20)	86,22	**206**
20	1 - 16	146	46	35	M14x1	27	5	430E (ER25)	100,20	**208**
25	1 - 13	168	28	28	M14x1	22	5	428E (ER20)	132,10	**254**
25	1 - 16	189	39	35	M18x1	27	5	430E (ER25)	165,80	**256**

Spare parts for ER collet chuck with mini lock nut


ER Mini clamping key

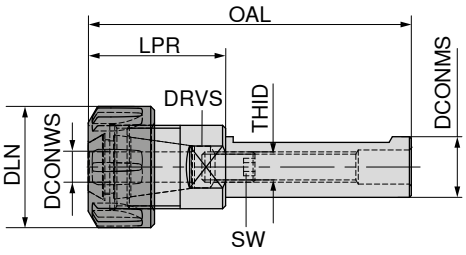

Mini lock nut


Stop screw IK

Spare parts for collet	83 950 ... EUR Y8		62 950 ... EUR W7		83 950 ... EUR Y8	
4004E (ER08)	14,36	099	M10x0,75	25,81	067	M5x0,8 SW 2,5	1,53	003
4008E (ER11)	15,67	100	M13x0,75	25,16	065	M7,5x0,5 SW 3	1,78	004
426E (ER16)	16,63	101	M19x1	24,62	066	M11x1 SW 5	2,06	006
426E (ER16)	16,63	101	M19x1	24,62	066	M8x1,25 SW 4	1,92	005
428E (ER20)	18,79	102	M24x1	27,76	068	M14x1 SW 5	2,21	007
430E (ER25)	21,06	103	M30x1	30,34	069	M18x1 SW 5	2,40	008

ER Collet Chuck

▲ with cylindrical shank and clamping flat







DCONMS h6 mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	83 455 ... EUR Y8	
40	2 - 20	100	35	50	M22x1,5	36	5	470E (ER32)	102,40	401
40	2 - 20	160	35	50	M22x1,5	36	5	470E (ER32)	125,80	402
40	3 - 30	139	59	63	M28x1,5	40	6	472E (ER40)	117,10	405


Lock nut


Y clamping key


Stop screw IK


Stop screw

Spare parts for collet	62 950 ... EUR W7		83 357 ... EUR Y8		83 950 ... EUR Y8		83 950 ... EUR Y8	
470E (ER32)	M40x1,5	19,12	056	24,84	132			M22x1,5x20 SW 5	2,99	095
472E (ER40)	M50x1,5	18,58	057	27,33	140	M28x1,5x25 SW 6	3,93	096		

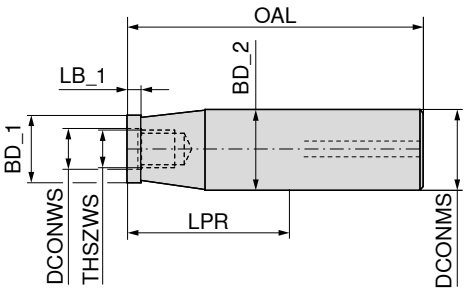
Accessories



ER collet

→ 256–266

Cylindrical milling bar for cutters with threaded end

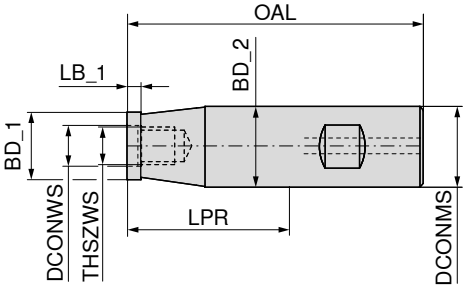






DCONMS h6 mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	56 727 ... EUR WA	
12	M5	5,5	20	9,5	7,8	11,5	65	74,85	052
12	M6	6,5	20	11,5	7,8	11,5	65	76,47	060
12	M6	6,5	40	11,5	7,8	11,5	85	82,51	062
16	M8	8,5	20	13,8	7,8	15,8	68	77,44	081
16	M8	8,5	40	13,8	7,8	15,8	88	83,38	082
20	M10	10,5	25	18,0	7,8	19,8	75	80,78	101
20	M10	10,5	45	18,0	7,8	19,8	95	87,27	102
25	M12	12,5	50	21,0	7,8	24,8	106	91,37	122
32	M16	17,0	50	29,0	12,0	31,8	110	98,39	162

Milling bar for cutters with threaded end (Weldon)



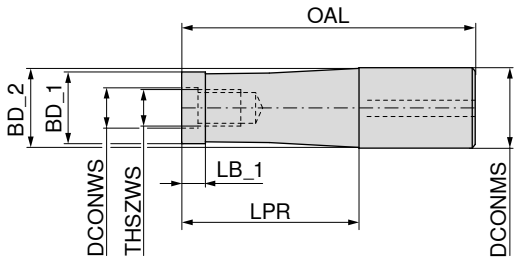




DCONMS h6 mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	56 729 ... EUR WA	
12	M6	6,5	20	11,5	7,8	11,5	65	76,47	060
12	M6	6,5	40	11,5	7,8	11,5	85	82,51	062
16	M8	8,5	20	13,8	12,0	15,8	68	77,44	081
16	M8	8,5	40	13,8	8,0	15,8	88	83,38	082
20	M10	10,5	25	18,0	8,0	19,8	75	80,78	101
20	M10	10,5	45	18,0	12,0	19,8	95	87,27	102
25	M12	12,5	30	21,0	12,0	24,9	86	84,03	121
25	M12	12,5	50	21,0	8,0	24,9	106	91,37	122
32	M16	17,0	50	29,0	12,0	31,8	110	98,39	162

Screw-in adapter with cylindrical shank

▲ Vibration-damped





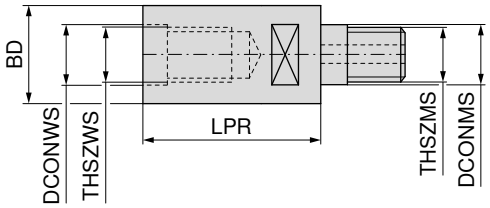




								Solid carbide		Densimet		Densimet	
								56 743 ...		56 744 ...		56 721 ...	
DCONMS h6 mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	EUR WC		EUR WC		EUR WC	
12	M5	5,5	40	9,5	9	11,3	85			233,40	052	199,30	052
12	M5	5,5	60	9,5	9	11,3	105			252,20	053	213,60	053
12	M5	5,5	80	9,5	9	11,3	125			280,80	054	229,10	054
12	M6	6,5	20	11,5		11,5	65	295,10	060				
12	M6	6,5	40	11,5		11,5	85	314,90	062				
12	M6	6,5	60	11,5		11,5	105	349,00	063				
12	M6	6,5	80	11,5		11,5	125	382,10	064				
12	M6	6,5	100	11,5		11,5	145	415,10	065				
16	M8	8,5	40	14,2	9	15,3	88	302,70	082	287,40	082	241,20	082
16	M8	8,5	60	14,2	9	15,3	108	333,70	083	310,50	083	254,30	083
16	M8	8,5	80	14,2	9	15,3	128	360,10	084	339,20	084	268,60	084
16	M8	8,5	100	14,2	9	15,3	148	392,00	085	373,20	085	295,10	085
16	M8	8,5	120	14,2	9	15,3	168	418,30	086	411,80	086	318,20	086
16	M8	8,5	150	14,2	9	15,3	198			518,60	087	400,80	087
20	M10	10,5	60	18,5	9	19,3	110	384,20	103	362,30	103	280,80	103
20	M10	10,5	80	18,5	9	19,3	130	432,70	104	403,00	104	308,30	104
20	M10	10,5	100	18,5	9	19,3	150	471,20	105	450,40	105	340,20	105
20	M10	10,5	120	18,5	9	19,3	170	535,10	106	499,80	106	377,60	106
20	M10	10,5	140	18,5	9	19,3	190	596,70	107	582,40	107	444,80	107
25	M12	12,5	75	23,0	9	24,3	131			543,90	124	417,30	124
25	M12	12,5	80	23,0	9	24,3	136	462,40	124				
25	M12	12,5	100	23,0	9	24,3	156	538,40	125	601,10	125	449,30	125
25	M12	12,5	120	23,0	9	24,3	176	669,50	126				
25	M12	12,5	125	23,0	9	24,3	181			658,50	126	479,00	126
25	M12	12,5	140	23,0	9	24,3	196	772,80	127				
25	M12	12,5	150	23,0	9	24,3	206			739,90	127	532,90	127
25	M12	12,5	160	23,0	9	24,3	216	876,30	128				
25	M12	12,5	175	23,0	9	24,3	231			837,90	128	603,30	128
32	M16	17,0	100	29,0	9	31,5	160	984,30	165 1)				
32	M16	17,0	150	29,0	9	31,5	210	1.195,00	166 1)				
32	M16	17,0	200	29,0	9	31,5	260	1.441,00	167 1)				
32	M16	17,0	250	29,0	9	31,5	310	1.729,00	168 1)				
32	M16	17,0	300	29,0	9	31,5	360	1.978,00	169 1)				
36	M16	17,0	100	31,5	9	34,3	160					864,30	165 1)
36	M16	17,0	150	31,5	9	34,3	210					1.316,00	166 1)
36	M16	17,0	200	31,5	9	34,3	260					1.349,00	167 1)

1) On request

Extensions for milling cutters with threaded end

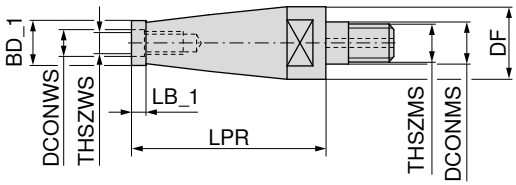






THSZWS	THSZMS	DCONWS mm	DCONMS mm	LPR mm	BD mm	56 733 ... EUR WA	
M8	M8	8,5	8,5	40	13,8	88,23	**081**
M8	M8	8,5	8,5	60	13,8	109,10	**082**
M10	M10	10,5	10,5	40	18,0	91,59	**101**
M10	M10	10,5	10,5	60	18,0	112,40	**102**
M12	M12	12,5	12,5	40	21,0	95,04	**121**
M12	M12	12,5	12,5	60	21,0	115,60	**122**
M16	M16	17,0	17,0	40	29,0	98,39	**161**
M16	M16	17,0	17,0	60	29,0	118,90	**162**

Reductions for milling cutters with threaded end



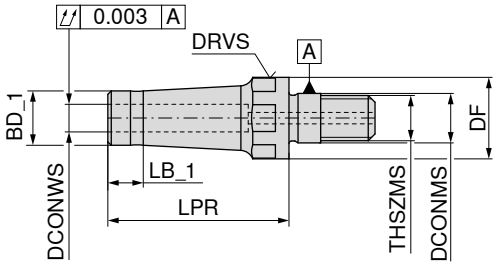




THSZWS	THSZMS	DCONMS mm	DCONWS mm	LPR mm	BD_1 mm	DF mm	LB_1 mm	56 735 ... EUR WA	
M6	M8	8,5	6,5	20	9,5	13,8	7,8	81,86	**060**
M8	M10	10,5	8,5	40	13,8	18,0	7,8	91,59	**081**
M8	M12	12,5	8,5	60	13,8	21,0	7,8	98,39	**082**
M10	M12	12,5	10,5	40	18,0	21,0	7,8	95,04	**101**
M10	M16	17,0	10,5	60	18,0	29,0	7,8	115,60	**102**
M12	M16	17,0	12,5	40	21,0	29,0	7,8	95,04	**121**

16

Threaded shrink adapter



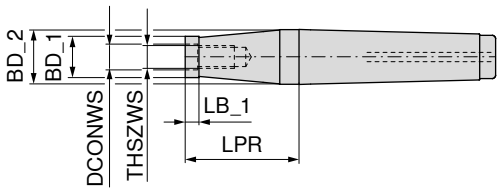




THSZMS	DCONWS mm	BD_1 mm	LPR mm	LB_1 mm	DF mm	DCONMS mm	TQX Nm	DRVS mm	56 708 ... EUR WA	
M10	6	12	40	7,8	18	10,5	30	17	110,10	**061**
M12	6	12	40	7,8	21	12,5	50	19	110,10	**062**
M16	6	12	40	7,8	29	17,0	100	27	110,10	**063**
M10	8	16	40	7,8	18	10,5	30	17	110,10	**081**
M12	8	16	40	7,8	21	12,5	50	19	110,10	**082**
M16	8	16	40	7,8	29	17,0	100	27	110,10	**083**
M10	10	18	60		18	10,5	30	17	110,10	**101**
M12	10	20	60	7,8	21	12,5	50	19	110,10	**102**
M16	10	20	60	7,8	29	17,0	100	27	110,10	**103**
M12	12	21	60		21	12,5	50	19	110,10	**122**
M16	12	24	60	7,8	29	17,0	100	27	110,10	**123**

Observe the minimum clamping depth on → **Page 300.**

Morse taper milling bar for cutters with threaded end







Adapter	THSZWS	DCONWS mm	BD_1 mm	LB_1 mm	BD_2 mm	LPR mm	56 731 ... EUR WA	
MK2	M8	8,5	13,8	8,5	18,0	20	56,70	**081**
MK2	M8	8,5	13,8	8,5	18,0	40	60,27	**082**
MK2	M8	8,5	13,8	8,5	18,0	60	61,88	**083**
MK3	M8	8,5	13,8	8,5	24,1	80	66,63	**084**
MK3	M8	8,5	13,8	8,5	24,1	100	70,74	**085**
MK2	M10	10,5	18,0		18,0	20	56,70	**101**
MK2	M10	10,5	18,0		18,0	40	60,27	**102**
MK2	M10	10,5	18,0		18,0	60	61,88	**103**
MK3	M10	10,5	18,0	8,5	24,1	80	66,63	**104**
MK3	M10	10,5	18,0	8,5	24,1	100	70,74	**105**
MK3	M12	12,5	21,0	8,5	24,0	10	55,29	**121**
MK3	M12	12,5	21,0	8,5	24,1	30	56,70	**122**
MK3	M12	12,5	21,0	8,5	24,1	45	59,51	**123**
MK3	M12	12,5	21,0	8,5	24,1	60	62,43	**124**
MK3	M12	12,5	21,0	8,5	24,1	75	66,63	**125**
MK3	M12	12,5	21,0	8,5	24,1	85	73,01	**126**
MK3	M12	12,5	21,0	8,5	24,1	95	77,12	**127**
MK4	M12	12,5	21,0	8,5	31,6	120	110,10	**129**
MK4	M16	17,0	29,0	12,0	31,6	10	60,27	**161**
MK4	M16	17,0	29,0	12,0	31,6	35	61,67	**162**
MK4	M16	17,0	29,0	12,0	31,6	50	67,28	**163**
MK4	M16	17,0	29,0	9,0	31,6	65	72,25	**164**
MK4	M16	17,0	29,0	12,0	31,6	80	78,62	**165**
MK4	M16	17,0	29,0	12,0	31,6	95	87,15	**166**
MK5	M16	17,0	29,0	9,0	44,7	150	124,20	**168**
MK5	M16	17,0	29,0	9,0	44,7	180	131,70	**169**

MultiChange – Programme Overview

The highly stable "MultiChange" exchangeable head system enables an extremely fast tool change. Designed to be durable and for a very high radial run-out accuracy, this exchangeable head system is probably the most stable and precise exchangeable head system on the market. The following chapters contain suitable exchangeable heads for almost every application.

Solid carbide drilling



▲ Solid Carbide NC Spot Drill
◁ 90°, 120°, 142° / Ø 8, 10, 12, 16, 20 mm / ZEFP* 2

→ **Chapter 2, Solid carbide drilling**

*ZEFP = Number of teeth

Reaming and Countersinking



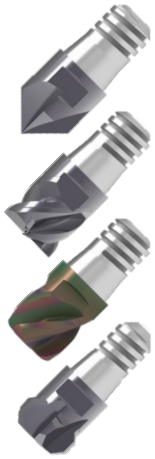
▲ Through hole reamers
Ø 8–30.2 mm incl. special diameters / ZEFP 4-6

▲ Blind hold reamers
Ø 12.2–30.2 mm incl. special diameters / ZEFP 6

→ **Chapter 4, Reaming and countersinking**

*ZEFP = Number of teeth

Solid Carbide milling cutters



▲ Solid carbide shoulder mills
Type N, PCR-UNI, PCR-ALU / Ø 8, 10, 12, 16, 20 mm / ZEFP* 3+4

▲ Solid carbide rough and finish milling cutters
Ø 8, 10, 12, 16, 20 mm / ZEFP* 4–6

▲ Solid carbide finish milling cutters
Ø 8, 10, 12, 16, 20 mm / ZEFP* 6

▲ Solid carbide high-feed cutters
Ø 8, 10, 12, 16, 20 mm / ZEFP* 6

▲ Solid carbide ball-nosed end mills
Ø 10, 12, 16, 20 mm / ZEFP* 4

▲ Solid carbide torus bull nose milling cutters
Ø 8, 10, 12, 16, 20 mm / ZEFP* 3+4

▲ Solid carbide quarter round cutter
Ø 8, 10, 12, 16, 20 mm

▲ Solid carbide deburring cutters
Ø 10, 12, 16, 20 mm / ZEFP* 4+6

→ **Chapter 14, Solid carbide milling cutters**

*ZEFP = Number of teeth

Tool holder



▲ Steel Holder Extra Short
Cylindrical / Tapered 87°
Length 60–90 mm
for SZID 8, 10, 12, 16, 20 mm 249+250



▲ Short Holder Steel / Solid Carbide
cylindrical
Length 85–120 mm
for SZID 8, 10, 12, 16, 20 mm 250+251



▲ Holder Steel / Solid Carbide, Short
87° taper
Length 85–120 mm
for SZID 8, 10, 12, 16, 20 mm 249



▲ Solid Carbide Holder Medium
Cylindrical / Tapered 87°
Length 110–150 mm
for SZID 8, 10, 12, 16, 20 mm 249+251



▲ Holder Steel/Solid Carbide, Long
cylindrical
Length 150–200 mm
for SZID 8, 10, 12, 16, 20 mm 250+251



▲ Holder Steel/Solid Carbide, Long
87° taper
Length 150–200 mm
for SZID 8, 10, 12, 16, 20 mm 249



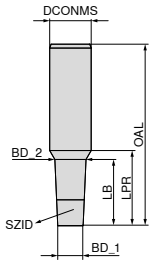
▲ Steel / Solid Carbide Holder Extra Long
cylindrical
Length 200–250 mm
For Ø 16 and 20 mm 250+251

MultiChange – Holders

▲ Tapered 87°
▲ SZID = Coupling Size

Scope of supply:
Holder without mounting key













							Steel		Steel		Solid carbide		Solid carbide		Solid carbide	
							A		A		HA		HA		HA	
							84 001 ...		**84 004 ...**		**84 005 ...**		**84 007 ...**		**84 010 ...**	
SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm	**EUR** Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8	
06	7,8	9,4	10	60	18	19	96,45	**080**								
06	7,8	9,4	10	85	43	44			114,40	**080**	197,10	**080**				
06	7,8	9,4	10	110	68	69							218,10	**080**		
06	7,8	9,4	10	150	108	109									251,00	**080**
08	9,8	12,0	16	70	25	29	97,95	**100**								
08	9,8	13,0	16	90	38	41			116,70	**100**	214,70	**100**				
08	9,8	14,9	16	110	60	61							239,90	**100**		
08	9,8	15,4	16	150	100	101									279,60	**100**
10	11,8	14,2	16	70	27	29	109,10	**120**								
10	11,8	15,2	16	90	40	41			118,90	**120**	214,70	**120**				
10	11,8	16,6	20	110	56	59							307,10	**120**		
10	11,8	19,5	20	150	98	99									332,40	**120**
12	15,8	18,2	20	80	27	29	116,70	**160**								
12	15,8	19,5	20	105	53	54			144,80	**160**	301,70	**160**				
12	15,8	19,5	20	130	78	79							360,10	**160**		
12	15,8	19,5	20	150	98	99									371,10	**160**
16	19,8	23,2	25	90	39	41	136,10	**200**								
16	19,8	24,5	25	120	60	61			167,50	**200**	371,10	**200**				
16	19,8	24,5	25	150	90	91							417,30	**200**		
16	19,8	24,5	25	200	140	141									469,00	**200**

Assembly instructions can be found on → **Page 282**

Accessories




insertion key	Adjustable wrench
→ 282	→ 282

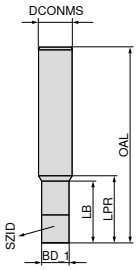
16

MultiChange – Holders

- ▲ cylindrical
- ▲ Only suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:
Holder without mounting key












	Steel	Steel	Steel	Steel
	A	A	A	A
	84 000 ...	**84 002 ...**	**84 008 ...**	**84 011 ...**

SZID	BD_1 mm	DCONMS mm	OAL mm	LB mm	LPR mm	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
06	7,8	10	60	17	19	87,48	**080**						
06	7,8	10	85	42	44			102,70	**080**				
06	7,8	10	150	107	109					144,80	**080**		
08	9,8	12	70	22	24	89,00	**100**						
08	9,8	12	90	42	44			105,30	**100**				
08	9,8	12	150	102	104					148,00	**100**		
10	11,8	16	70	17	21	98,72	**120**						
10	11,8	16	90	37	41			107,40	**120**				
10	11,8	16	150	97	101					151,20	**120**		
12	15,8	16	80	30	31	106,00	**160**						
12	15,8	16	105	55	56			128,50	**160**				
12	15,8	16	150	100	101					181,50	**160**		
12	15,8	16	200	150	151							328,40	**160**
16	19,8	25	90	26	31	124,20	**200**						
16	19,8	25	120	56	61			151,20	**200**				
16	19,8	25	200	136	141					212,70	**200**		
16	19,8	25	250	186	191							366,10	**200**

Assembly instructions can be found on → **Page 282**

Accessories



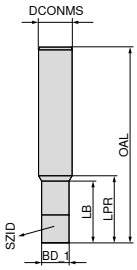
insertion key	Adjustable wrench
→ 282	→ 282

MultiChange – Holders

- ▲ cylindrical
- ▲ Only suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:
Holder without mounting key












						Solid carbide		Solid carbide		Solid carbide		Solid carbide	
						HA		HA		HA		HA	
						84 003 ...		**84 006 ...**		**84 009 ...**		**84 012 ...**	
SZID	BD_1 mm	DCONMS mm	OAL mm	LB mm	LPR mm	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
06	7,8	10	85	42	44	197,10	**080**						
06	7,8	10	110	67	69			218,10	**080**				
06	7,8	10	150	107	109					251,00	**080**		
08	9,8	12	90	42	44	208,10	**100**						
08	9,8	12	110	62	64			227,90	**100**				
08	9,8	12	150	102	104					266,50	**100**		
10	11,8	16	90	37	41	214,70	**120**						
10	11,8	16	110	57	61			239,90	**120**				
10	11,8	16	150	97	101					279,60	**120**		
12	15,8	16	105	55	56	233,40	**160**						
12	15,8	16	130	80	81			318,20	**160**				
12	15,8	16	150	100	101					361,10	**160**		
12	15,8	16	200	150	151							477,90	**160**
16	19,8	25	120	56	61	371,10	**200**						
16	19,8	25	150	86	91			417,30	**200**				
16	19,8	25	200	136	141					469,00	**200**		
16	19,8	25	250	186	191							723,40	**200**

Assembly instructions can be found on → **Page 282**

Accessories



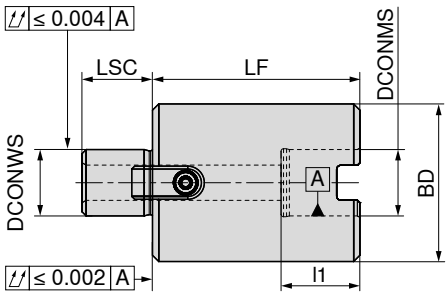
insertion key	Adjustable wrench
→ 282	→ 282

16

Extension for Shell mill arbors

▲ Variable applications through usage of one or two extensions (max. 2 x 50 mm possible)

Scope of supply:
Holder without clamping screw





DCONWS $_{h5}$ mm	DCONMS $_{H5}$ mm	LF mm	BD mm	LSC mm	l_1 mm	82 648 ... EUR Y8	
16	16	75	38	17	19	79,17	**075**
16	16	50	38	17	19	78,62	**050**
22	22	50	48	19	21	80,57	**150**
22	22	75	48	19	21	81,33	**175**
27	27	75	58	21	23	85,86	**275**
27	27	50	58	21	23	84,35	**250**
32	32	75	78	24	26	94,72	**375**
32	32	50	78	24	26	91,47	**350**
40	40	50	88	27	29	113,40	**450**
40	40	75	88	27	29	117,70	**475**


Screw for drivers


Driver

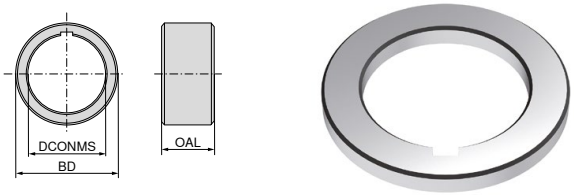

Retaining screw


Retaining screw

Spare parts for Article no.		83 950 ... EUR Y8			83 950 ... EUR Y8			82 649 ... EUR Y8			82 649 ... EUR Y8	
82 648 075	M3x8	0,39	**296**	8x9x17,5	7,45	**120**				M8x100	3,80	**075**
82 648 050	M3x8	0,39	**296**	8x9x17,5	7,45	**120**	M8x125	4,46	**001**	M8x80	2,75	**050**
82 648 150	M4x12	0,49	**297**	10x11x20,5	7,71	**121**	M10x125	6,59	**100**	M10x80	4,35	**150**
82 648 175	M4x12	0,49	**297**	10x11x20,5	7,71	**121**				M10x100	5,74	**175**
82 648 275	M5x12	0,59	**136**	12x13x24,3	8,73	**122**				M12x100	8,58	**275**
82 648 250	M5x12	0,59	**136**	12x13x24,3	8,73	**122**	M12x125	10,08	**200**	M12x80	6,36	**250**
82 648 375	M5x20	0,66	**137**	14x21x21,2	9,00	**123**				M16x100	13,07	**375**
82 648 350	M5x20	0,66	**137**	14x21x21,2	9,00	**123**	M16x125	14,79	**300**	M16x80	9,33	**350**
82 648 450	M6x16	0,77	**138**	15,9x16,3x19,5	11,56	**295**						
82 648 475	M6x16	0,77	**138**	15,9x16,3x19,5	11,56	**295**						

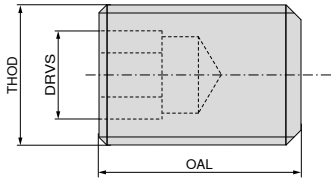
When using two extension pieces (max. 2 x 50 mm) please use a tightening bolt with a length of 125 mm.

Milling Adapter Rings DIN 2084 Form B



			83 385 ...	
DCONMS mm	BD mm	OAL mm	EUR Y8	
13	22	2	6,10	013
	22	3	6,15	113
	22	4	6,43	213
	22	5	6,60	313
	22	6	6,93	413
	22	10	7,76	513
16	26	2	5,41	016
	26	3	5,42	116
	26	4	5,49	216
	26	5	5,71	316
	26	6	5,86	416
	26	10	8,38	516
	26	20	10,66	616
	26	30	13,28	716
22	34	2	5,60	022
	34	3	5,71	122
	34	4	5,77	222
	34	5	6,31	322
	34	6	7,15	422
	34	10	9,83	522
	34	20	12,32	622
	34	30	16,32	722
27	41	2	6,15	027
	41	3	6,29	127
	41	4	6,94	227
	41	5	7,19	327
	41	6	8,09	427
	41	10	10,03	527
	41	20	13,61	627
	41	30	18,04	727
32	47	2	6,87	032
	47	3	7,28	132
	47	4	7,94	232
	47	5	8,58	332
	47	6	9,09	432
	47	10	11,12	532
	47	20	16,74	632
	47	30	20,31	732
40	55	2	7,98	040
	55	3	8,87	140
	55	4	9,79	240
	55	5	10,66	340
	55	6	11,56	440
	55	10	15,55	540
	55	20	21,17	640
	55	30	26,24	740

Screw for cylindrical adapters E2

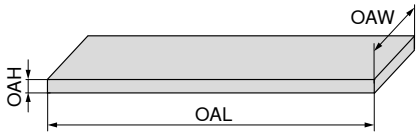




THOD	OAL mm	DRVS mm	83 950 ... EUR Y8	
M6	12	3	2,12	461
M6	16	3	2,12	462
M6	25	3	2,12	463
M8	10	4	2,12	464
M8	12	4	2,12	465
M8	16	4	2,12	466
M8	20	4	2,12	467
M8	25	4	2,12	468
M8	30	4	2,12	469
M10	16	5	2,12	470
M10	20	5	2,12	471
M10	25	5	2,51	472
M10	30	5	2,31	473
M12	12	6	2,51	474
M12	16	6	2,51	475
M12	20	6	2,51	476
M12	25	6	2,51	477

Levelling plates

- For axial and radial tool holders
- Without mounting thread





OAH mm	OAL mm	OAW mm	83 950 ... EUR Y8	
4	38	14	11,34	210
4	48	14	11,34	211
4	54	14	11,34	212
4	55	12	11,34	213
4	69	16	11,34	214
4	72	14	11,34	215
4	75	12	11,34	216
4	99	16	11,34	217
5	84	20	11,34	218
5	117	20	11,34	219
7	99	25	11,34	220
7	120	25	13,07	221
7	129	25	11,34	222
7	143	25	11,34	223

Clamping screw for cylindrical adapters E1



THOD	83 950 ... EUR Y8	
M10x1x10	5,05	180
M12x1x12	5,05	181
M16x1x13	6,20	182

Lock nut with external thread form ER for sealing rings with internal cooling



for collet	THOD	DRVS mm	83 950 ... EUR Y8	
ER 16	M24x1	19	51,46	45600
ER 20	M28x1,5	22	54,09	45700
ER 25	M32x1,5	24	56,08	45800
ER 32	M40x1,5	32	60,02	45900

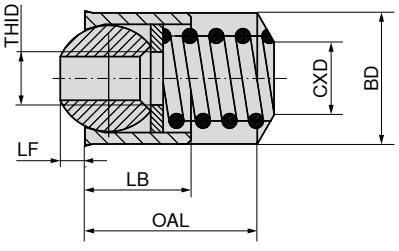
Pipe joints

▲ steel pipe



THOD	CXD mm	Type	83 950 ... EUR Y7	
M8x1	5	A	7,06	372
M10x1	6	A	15,55	373
M10x1	8	A	8,84	374
M8x1	5	B	7,06	375
M10x1	6	B	15,55	376
M10x1	8	B	15,55	377

Spray nozzle element





BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	83 950 ... EUR Y8	
9.88	M4	13	8	2.2	5.5	10,27	247
11.88	M6	15	10	3.0	6.8	10,27	248
13.88	M6	17	12	4.0	6.8	10,27	249

Ball-shaped spray nozzle



	83 950 ... EUR Y8	
Ø 8 - M 5	2,84	200
Ø 10 - M 6	3,59	201
Ø 14 - M 8	3,59	202

O-Ring

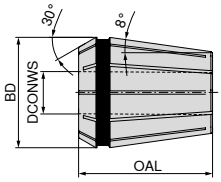


Adapter	Size	83 950 ... EUR Y8	
VDI 16	15 x 1,5	0,89	205
VDI 20	18,77 x 1,78	0,89	206
VDI 30	28,3 x 1,78	0,89	207
VDI 40	37,77 x 2,62	0,89	208
VDI 50	47,29 x 2,62	0,89	209

Precision ER collet for precision collet chuck – Centro-P

- DIN ISO 15488-B (old DIN 6499-B)
- 12 times slotted
- Double taper collet
- Coloured ring as identification of precision collet
- ER08: 5 µm runout and repeatability
- Coated precision collet

ER-B
2 µm





DCONWS mm	BD = 8,5 OAL = 13,6 4004 E / ER08 **84 577 ...** EUR Y8		BD = 11,5 OAL = 18 4008 E / ER11 **84 585 ...** EUR Y8		BD = 17 OAL = 27,5 426 E / ER16 **84 596 ...** EUR Y8		BD = 26 OAL = 34 430 E / ER25 **84 597 ...** EUR Y8		BD = 33 OAL = 40 470 E / ER32 **84 598 ...** EUR Y8		BD = 41 OAL = 46 472 E / ER40 **84 599 ...** EUR Y8	
1,0	66,82	010	64,22	010	63,70	010						
1,1					99,91	011						
1,2					99,91	012						
1,4					99,91	014						
1,5	66,82	015	64,22	015	63,70	015						
1,6					99,91	016						
1,8					99,91	018						
2,0	52,05	020	49,99	020	47,92	020	49,45	020	50,75	020		
2,2					88,55	022						
2,4					88,55	024						
2,5	52,05	025	49,99	025	47,92	025	49,45	025				
2,6					88,55	026						
2,8					88,55	028						
3,0	44,77	030	42,46	030	40,91	030 1)	41,94	030	42,46	030	70,41	030
3,2					78,71	032						
3,4					78,71	034						
3,5	44,77	035	42,46	035	58,52	035	61,61	035				
3,6					78,71	036						
3,8					78,71	038						
4,0	44,77	040	42,46	040	40,91	040 1)	41,94	040	42,46	040 1)	53,61	040
4,5	44,77	045	42,46	045	58,52	045	61,61	045				
5,0	44,77	050	42,46	050	40,91	050 1)	41,94	050	42,46	050	53,61	050
5,5			42,46	055	58,52	055	61,61	055				
5,6					78,71	056						
6,0			42,46	060	40,91	060 1)	41,94	060 1)	42,46	060 1)	53,61	060
6,3					78,71	063						
6,5			42,46	065	58,52	065	61,61	065				
7,0			42,46	070	40,91	070 1)	41,94	070	42,46	070	53,61	070
7,1					78,71	071						
7,5					58,52	075	61,61	075				
8,0					40,91	080 1)	41,94	080 1)	42,46	080 1)	53,61	080
8,5					58,52	085	61,61	085				
9,0					40,91	090	41,94	090	42,46	090	53,61	090
9,5					58,52	095	61,61	095				
10,0					40,91	100 1)	41,94	100 1)	42,46	100 1)	53,61	100
10,5							61,61	105				
11,0							41,94	110	42,46	110	53,61	110
11,5							61,61	115				
12,0							41,94	120 1)	42,46	120 1)	53,61	120
12,5							61,61	125				
13,0							41,94	130	42,46	130	53,61	130
13,5							61,61	135				
14,0							41,94	140 1)	42,46	140 1)	53,61	140
14,5							61,61	145				
15,0							41,94	150	42,46	150	53,61	150
15,5							61,61	155				
16,0							41,94	160 1)	42,46	160 1)	53,61	160
17,0									42,46	170	53,61	170
18,0									42,46	180	53,61	180
19,0									42,46	190	53,61	190
20,0									42,46	200 1)	53,61	200
21,0											53,61	210
22,0											53,61	220
23,0											53,61	230
24,0											53,61	240
25,0											53,61	250
26,0											53,61	260
Set in wooden box					261,00	999	314,90	999	362,50	999		

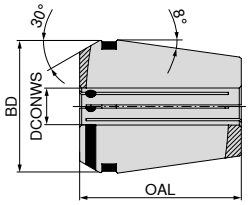
1) Included in the set

Clamping range covered: H10 corresponding to shank Ø DCONWS

ER precision collet, sealed, for precision collet chuck – Centro-P

- Similar to DIN ISO 15488-A
- 8 times slotted
- Coloured ring as identification of precision collet
- $p_{max.}$ = 120 bar
- Coated precision collet

ER-A
2 µm



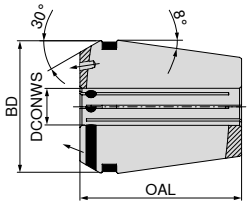


DCONWS mm	BD = 11,3 OAL = 18 425 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	84 536 ...		**84 537 ...**		**84 538 ...**		**84 539 ...**		**84 540 ...**	
	EUR Y8		EUR Y8		EUR Y8		EUR Y8		EUR Y8	
3	60,06	030	54,88	030	63,17	030	65,26	030		
4	60,06	040	54,88	040	58,00	040	60,06	040		
5	65,26	050	60,06	050	63,17	050	65,26	050		
6	60,06	060	54,88	060	58,00	060	60,06	060	68,34	060
7			60,06	070	63,17	070	65,26	070		
8			54,88	080	58,00	080	60,06	080	68,34	080
9			60,06	090	63,17	090	65,26	090		
10			54,88	100	58,00	100	60,06	100	68,34	100
11					63,17	110	65,26	110		
12					58,00	120	60,06	120	68,34	120
13					63,17	130	65,26	130		
14					58,00	140	60,06	140	68,34	140
15					63,17	150	65,26	150		
16					58,00	160	60,06	160	68,34	160
17							65,26	170		
18							60,06	180	68,34	180
19							65,26	190		
20							60,06	200	68,34	200
22									75,60	220
25									68,34	250

ER precision collet, sealed with coolant channels, for precision collet chuck – Centro-P

- Similar to DIN ISO 15488-A
- 8 times slotted
- Coloured ring as identification of precision collet
- Coated precision collet

ER-A
2 µm



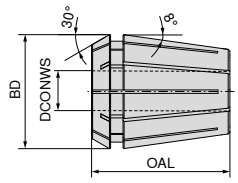


	BD = 11,3 OAL = 18 4012 E / ER11		BD = 16,7 OAL = 27,5 425 E / ER16		BD = 25,7 OAL = 34 429 E / ER25		BD = 32,7 OAL = 40 469 E / ER32		BD = 40,7 OAL = 46 471 E / ER40	
	84 547 ...		**84 548 ...**		**84 549 ...**		**84 550 ...**		**84 551 ...**	
DCONWS mm	**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8	
3	90,26	**03000**	80,75	**03000**						
4	90,26	**04000**	80,75	**040**	85,94	**040**	89,07	**040**		
6	90,26	**06000**	80,75	**060**	85,94	**060**	89,07	**060**	102,50	**06000**
8			80,75	**080**	85,94	**080**	89,07	**080**	102,50	**08000**
10			80,75	**10000**	85,94	**100**	89,07	**100**	102,50	**100**
12					85,94	**120**	89,07	**120**	102,50	**120**
14					85,94	**140**	89,07	**140**		
16					85,94	**16000**	89,07	**160**	102,50	**160**
18							89,07	**180**		
20							89,07	**200**	102,50	**200**
25									102,50	**250**

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coated collet

ER-B
5 µm





	BD = 11,5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27,5 426 E / ER16		BD = 21 OAL = 31,5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	84 576 ...		**84 578 ...**		**84 579 ...**		**84 580 ...**		**84 581 ...**		**84 582 ...**	
DCONWS mm	**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8	
1,0	25,91	**010**	25,13	**010**	25,90	**010** 1)	27,28	**010** 1)				
1,5	25,91	**015**	25,13	**015** 1)	25,90	**015** 1)	27,28	**015** 1)				
2,0	25,91	**020**	25,13	**020**	25,90	**020**	27,28	**020**	28,84	**020** 1)		
2,5	25,91	**025**	25,13	**025** 1)	25,90	**025** 1)	27,28	**025**	28,84	**025** 1)		
3,0	21,01	**030**	19,83	**030**	20,51	**030**	21,01	**030**	22,38	**030**	38,83	**030** 1)
3,5	21,01	**035**										
4,0	21,01	**040**	19,83	**040**	20,51	**040**	21,01	**040**	22,38	**040**	28,87	**040**
4,5	21,01	**045**										
5,0	21,01	**050**	19,83	**050**	20,51	**050**	21,01	**050**	22,38	**050**	28,87	**050**
5,5	21,01	**055**										
6,0	21,01	**060**	19,83	**060**	20,51	**060**	21,01	**060**	22,38	**060**	28,87	**060**
6,5	21,01	**065**										
7,0	21,01	**070**	19,83	**070**	20,51	**070**	21,01	**070**	22,38	**070**	28,87	**070**
8,0			19,83	**080**	20,51	**080**	21,01	**080**	22,38	**080**	28,87	**080**
9,0			19,83	**090**	20,51	**090**	21,01	**090**	22,38	**090**	28,87	**090**
10,0			19,83	**100**	20,51	**100**	21,01	**100**	22,38	**100**	28,87	**100**
11,0					20,51	**110**	21,01	**110**	22,38	**110**	28,87	**110**
12,0					20,51	**120**	21,01	**120**	22,38	**120**	28,87	**120**
13,0					20,51	**130**	21,01	**130**	22,38	**130**	28,87	**130**
14,0							21,01	**140**	22,38	**140**	28,87	**140**
15,0							21,01	**150**	22,38	**150**	28,87	**150**
16,0							21,01	**160**	22,38	**160**	28,87	**160**
17,0									22,38	**170**	28,87	**170**
18,0									22,38	**180**	28,87	**180**
19,0									22,38	**190**	28,87	**190**
20,0									22,38	**200**	28,87	**200**
21,0											28,87	**210**
22,0											28,87	**220**
23,0											28,87	**230**
24,0											28,87	**240**
25,0											28,87	**250**
26,0											28,87	**260**
Set in wooden box	310,70	**999**	225,80	**999**	275,50	**999**	348,00	**999**	435,00	**999**	704,20	**999**

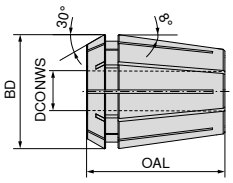
1) not included in the set

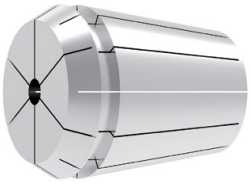
Clamping range covered: up to Ø 2 mm = 0.5 mm, from Ø 2.5 mm = 1 mm

ER collet

- DIN ISO 15488-B (alt DIN 6499-B)
- 16 times slotted
- Double taper clamping

ER-B
10 µm





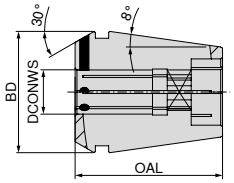
		NEW		NEW		NEW		NEW	
		BD = 8,5 OAL = 13,6 4004 E / ER08		BD = 17 OAL = 27,5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32	
		82 666 ...		**82 663 ...**		**82 664 ...**		**82 665 ...**	
DCONWS mm		**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8	
1,0		20,66	**01000**	16,42	**01000**				
1,5		20,66	**01500**						
2,0		20,66	**02000**	16,42	**02000**	17,18	**02000**		
2,5		20,66	**02500**						
3,0		20,66	**03000**	16,42	**03000**	17,18	**03000**	18,18	**03000**
3,5		20,66	**03500**						
4,0		20,66	**04000**	16,42	**04000**	17,18	**04000**	18,18	**04000**
4,5		20,66	**04500**						
5,0		20,66	**05000**	16,42	**05000**	17,18	**05000**	18,18	**05000**
6,0				16,42	**06000**	17,18	**06000**	18,18	**06000**
7,0				16,42	**07000**	17,18	**07000**	18,18	**07000**
8,0				16,42	**08000**	17,18	**08000**	18,18	**08000**
9,0				16,42	**09000**	17,18	**09000**	18,18	**09000**
10,0				16,42	**10000**	17,18	**10000**	18,18	**10000**
11,0						17,18	**11000**	18,18	**11000**
12,0						17,18	**12000**	18,18	**12000**
13,0						17,18	**13000**	18,18	**13000**
14,0						17,18	**14000**	18,18	**14000**
15,0						17,18	**15000**	18,18	**15000**
16,0						17,18	**16000**	18,18	**16000**
17,0								18,18	**17000**
18,0								18,18	**18000**
19,0								18,18	**19000**
20,0								18,18	**20000**
	Set in wooden box	205,90	**99900**	181,80	**99900**	275,00	**99900**	347,90	**99900**

Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER precision tap collet

- Similar to DIN ISO 15488-A
- 8 times slotted
- For Centro-P and standard chucks
- $p_{max.}$ = 120 bar
- Coated collet

ER-A
10 µm



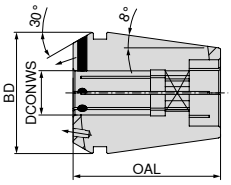


DCONWS mm	BD = 16,7 OAL = 27,5 4031 E / ER16		BD = 25,7 OAL = 34 4282 E / ER25		BD = 32,7 OAL = 40 4537 E / ER32	
	84 531 ...		**84 533 ...**		**84 534 ...**	
	EUR Y8		EUR Y8		EUR Y8	
2,8	52,22	028				
3,5	44,55	035	48,89	035		
4,0	44,55	040	48,89	040	53,77	040
4,5	44,55	045	48,89	045	53,77	045
6,0	44,55	060	48,89	060	53,77	060
7,0	44,55	070	48,89	070	53,77	070
8,0	44,55	080	48,89	080	53,77	080
9,0	44,55	090	48,89	090	53,77	090
10,0			48,89	100	53,77	100
11,0			48,89	110	53,77	110
12,0			48,89	120	53,77	120
14,0			48,89	140	53,77	140
16,0			48,89	160	53,77	160
18,0					53,77	180
20,0					53,77	200

ER precision collet, sealed with coolant channels

- Similar to DIN ISO 15488-A
- 8 times slotted
- For Centro-P and standard chucks
- Coated collet

ER-A
10 µm



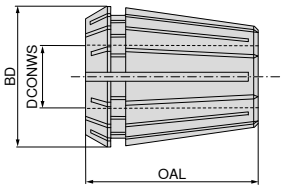


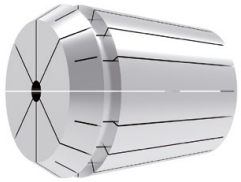
	BD = 16,7 OAL = 27,5 4537 E / ER16		BD = 25,7 OAL = 34 4537 E / ER25		BD = 32,7 OAL = 40 4537 E / ER32	
	84 567 ...		**84 568 ...**		**84 569 ...**	
DCONWS mm	**EUR** Y8		**EUR** Y8		**EUR** Y8	
3,5	71,47	**035**				
4,5	71,47	**045**	78,70	**045**	84,91	**045**
6,0	71,47	**060**	78,70	**060**	84,91	**060**
7,0	71,47	**070**	78,70	**070**	84,91	**070**
8,0	71,47	**080**	78,70	**080**	84,91	**080**
9,0	71,47	**09000**	78,70	**090**	84,91	**090**
10,0			78,70	**100**	84,91	**100**
11,0			78,70	**110**	84,91	**110**
12,0			78,70	**120**	84,91	**120**
14,0			78,70	**140**	84,91	**140**
16,0			78,70	**16000**	84,91	**160**
18,0					84,91	**180**
20,0					84,91	**200**

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ Double taper collet
- ▲ 16 times slotted

ER-B
20 µm





		NEW		NEW		NEW		NEW		NEW	
		BD = 17 OAL = 27,5 426 E / ER16		BD = 21 OAL = 31,5 428 E / ER20		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
		82 673 ...		**82 674 ...**		**82 675 ...**		**82 676 ...**		**82 677 ...**	
DCONWS mm		**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8		**EUR** Y8	
1		16,09	**01000**	16,63	**01000**[1)]						
2		16,09	**02000**	16,63	**02000**	17,27	**02000**				
3		13,07	**03000**	12,09	**03000**	12,96	**03000**	13,94	**03000**	17,60	**03000**
4		13,07	**04000**	12,09	**04000**	12,96	**04000**	13,94	**04000**	17,60	**04000**
5		13,07	**05000**	12,09	**05000**	12,96	**05000**	13,94	**05000**	17,60	**05000**
6		13,07	**06000**	12,09	**06000**	12,96	**06000**	13,94	**06000**	17,60	**06000**
7		13,07	**07000**	12,09	**07000**	12,96	**07000**	13,94	**07000**	17,60	**07000**
8		13,07	**08000**	12,09	**08000**	12,96	**08000**	13,94	**08000**	17,60	**08000**
9		13,07	**09000**	12,09	**09000**	12,96	**09000**	13,94	**09000**	17,60	**09000**
10		13,07	**10000**	12,09	**10000**	12,96	**10000**	13,94	**10000**	17,60	**10000**
11				12,09	**11000**	12,96	**11000**	13,94	**11000**	17,60	**11000**
12				12,09	**12000**	12,96	**12000**	13,94	**12000**	17,60	**12000**
13				12,09	**13000**	12,96	**13000**	13,94	**13000**	17,60	**13000**
14						12,96	**14000**	13,94	**14000**	17,60	**14000**
15						12,96	**15000**	13,94	**15000**	17,60	**15000**
16						12,96	**16000**	13,94	**16000**	17,60	**16000**
17								13,94	**17000**	17,60	**17000**
18								13,94	**18000**	17,60	**18000**
19								13,94	**19000**	17,60	**19000**
20								13,94	**20000**	17,60	**20000**
21										17,60	**21000**
22										17,60	**22000**
23										17,60	**23000**
24										17,60	**24000**
25										17,60	**25000**
26										17,60	**26000**
	Set in wooden box	144,80	**99900**	155,50	**99900**	204,20	**99900**	250,60	**99900**	423,40	**99900**

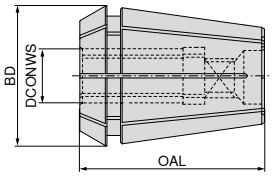
1) not included in the set

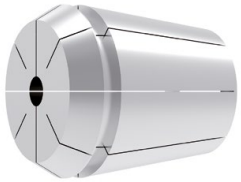
Clamping range covered: up to Ø 3 mm = 0.5 mm, from Ø 4 mm = 1 mm

ER collet with internal square

- Similar DIN ISO 15488-A (old DIN 6499-A)
- 8 times slotted
- Double taper collets for holding taps on synchronised spindle machines, without compensating lengths

ER-A
15 µm





	NEW	NEW	NEW
	BD = 25,7 OAL = 34 430 E / ER25	BD = 32,7 OAL = 40 470 E / ER32	BD = 40,7 OAL = 46 472 E / ER40
	82 650 ...	**82 651 ...**	**82 652 ...**
DCONWS mm	**EUR** Y8	**EUR** Y8	**EUR** Y8
4,5	34,24 **04500**	37,48 **04500**	
5,5	34,24 **05500**	37,48 **05500**	
6,0	34,24 **06000**	37,48 **06000**	
7,0	34,24 **07000**	37,48 **07000**	44,83 **07000**
8,0	34,24 **08000**	37,48 **08000**	44,83 **08000**
9,0	34,24 **09000**	37,48 **09000**	44,83 **09000**
10,0	34,24 **10000**	37,48 **10000**	44,83 **10000**
11,0	34,24 **11000**	37,48 **11000**	44,83 **11000**
12,0	34,24 **12000**	37,48 **12000**	44,83 **12000**
14,0		37,48 **14000**	44,83 **14000**
16,0		37,48 **16000**	44,83 **16000**
18,0			44,83 **18000**
20,0			44,83 **20000**

Wooden boxes for collets

- For collets form A+B

Scope of supply:
empty wooden box

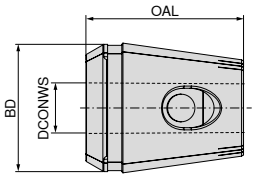


		83 689 ...
for collet	Piece	**EUR** Y8
4004E (ER08)	9	14,90 **008**
4008E (ER11)	13	14,90 **011**
426E (ER16)	10	21,39 **116**
428E (ER20)	11	23,76 **020**
430E (ER25)	14	26,68 **025**
470E (ER32)	18	26,68 **032**
472E (ER40)	24	33,59 **040**

ER wedge collet with pull out protection, for precision collet chucks – Centro-P – HDC

- Similar to DIN ISO 15488-A
- Slotted
- Double taper collet

ER
5 µm





BD = 32,7
OAL = 40
ER 32

83 629 ...

DCONWS mm	EUR Y8	
12	94,32	120
16	94,32	160



Conical spring

83 950 ...

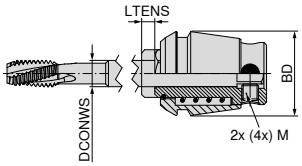
Spare parts DCONWS		EUR Y8	
12	CP 32	4,75	455
16	CP 32	4,75	455

16

Tapping Collet Form ET (ER) with length compensation

- DIN ISO 15488 (old DIN 6499)
- With pull out length compensation (LTENS)
- The spring force is adapted to the thread size
- Anti-rotation by 2 and/or 4 clamping screws on the shank square drive

ER
10 µm





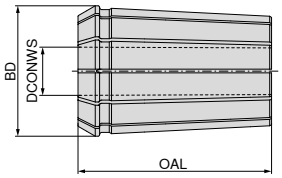
	BD = 17 LTENS = 7 426 E / ER16		BD = 21 LTENS = 7 428 E / ER20		BD = 26 LTENS = 8 430 E / ER25		BD = 33 LTENS = 10 470 E / ER32		BD = 41 LTENS = 13 472 E / ER40	
	80 661 ...		**80 662 ...**		**80 663 ...**		**80 664 ...**		**80 665 ...**	
DCONWS mm	**EUR** Y7		**EUR** Y7		**EUR** Y7		**EUR** Y7		**EUR** Y7	
2,2	90,10	**022**	90,10	**022**						
2,5	90,10	**025**	90,10	**025**	94,22	**025**				
2,8	90,10	**028**	90,10	**028**	94,22	**028**				
3,0	90,10	**030**	90,10	**030**	94,22	**030**				
3,5	90,10	**035**	90,10	**035**	94,22	**035**				
4,0	90,10	**040**	90,10	**040**	94,22	**040**				
4,5	90,10	**045**	90,10	**045**	94,22	**045**	100,40	**045**		
5,0							100,40	**050**		
5,5	90,10	**055**	90,10	**055**	94,22	**055**	100,40	**055**		
6,0	90,10	**060**	90,10	**060**	94,22	**060**	100,40	**060**	116,00	**060**
7,0			90,10	**070**	94,22	**070**	100,40	**070**	116,00	**070**
8,0					94,22	**080**	100,40	**080**	116,00	**080**
9,0					94,22	**090**	100,40	**090**	116,00	**090**
10,0					94,22	**100**	100,40	**100**	116,00	**100**
11,0							100,40	**110**	116,00	**110**
12,0							100,40	**120**	116,00	**120**
14,0									116,00	**140**
16,0									116,00	**160**

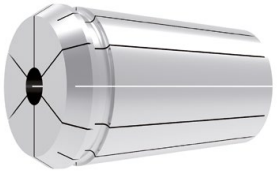
When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

OZ Precision collet for precision collet chuck – Centro-P

- DIN ISO 10897-B (old DIN 6388-B)
- Ø = 10 mm 10 slots, Ø > 10 mm 12 slots
- Double angle collets

OZ-B
3 µm





BD = 35,05
OAL = 52
462 E / OZ

83 660 ...

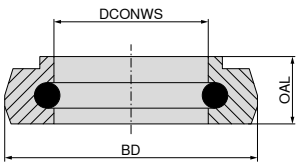
DCONWS mm	EUR Y8	
3	51,80	030
4	51,80	040
6	51,80	060
8	51,80	080
10	51,80	100
12	51,80	120
14	51,80	140
16	51,80	160
18	51,80	180
20	51,80	200
25	51,80	250

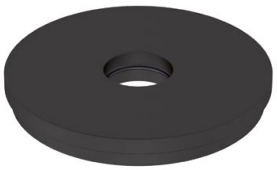
Clamping range covered: H10 corresponding to shank Ø DCONWS

Sealing ring for OZ Collet Chuck 462E – Centro-P

- For use for sealing tools with through coolant
- Seal diameter: Nominal diameter – 0.5 mm
- use up to 150 bar

OZ-B
5 µm





BD = 31
OAL = 4
462E

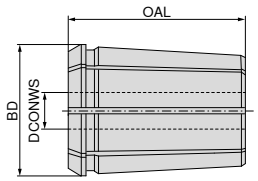
83 675 ...

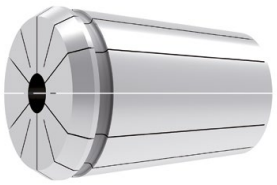
DCONWS mm	EUR Y8	
4	20,91	040
5	20,91	050
6	20,91	060
8	20,91	080
10	20,91	100
12	20,91	120
14	20,91	140
16	20,91	160
18	20,91	180
20	20,91	200
22	20,91	220
25	20,91	250

16

OZ-collets

- DIN ISO 10897-B (old DIN 6388-B)
- Ø = 10 mm 10 slots, Ø > 10 mm 12 slots





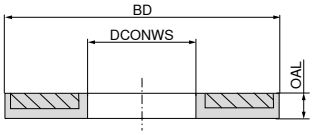
			NEW		NEW		NEW	
	OZ-B 6 µm		OZ-B 6 µm		OZ-B 10 µm		OZ-B 20 µm	
	BD = 25,5 OAL = 40 415 E / OZ		BD = 35,05 OAL = 52 462 E / OZ		BD = 43,7 OAL = 60 467 E / OZ		BD = 25,5 OAL = 40 415 E / OZ	
	83 651 ...		83 652 ...		83 653 ...		82 653 ...	
DCONWS mm	EUR Y8		EUR Y8		EUR Y8		EUR Y8	
2,0							23,23	02000
2,5							23,23	02500
3,0	23,20	030					18,58	03000
3,5							18,58	03500
4,0	23,20	040	27,30	040			18,58	04000
4,5							18,58	04500
5,0	23,20	050	27,30	050			18,58	05000
5,5							18,58	05500
6,0	23,20	060	27,30	060			18,58	06000
6,5							18,58	06500
7,0							18,58	07000
7,5							18,58	07500
8,0	23,20	080	27,30	080			18,58	08000
8,5							18,58	08500
9,0							18,58	09000
9,5							18,58	09500
10,0	23,20	100	27,30	100	35,32	100	18,58	10000
10,5							18,58	10500
11,0							18,58	11000
11,5							18,58	11500
12,0	23,20	120	27,30	120	35,32	120	18,58	12000
12,5							18,58	12500
13,0							18,58	13000
13,5							18,58	13500
14,0			27,30	140	35,32	140	18,58	14000
14,5							18,58	14500
15,0							18,58	15000
15,5							18,58	15500
16,0	23,20	160	27,30	160	35,32	160	18,58	16000
16,5								
17,0								
17,5								
18,0			27,30	180	35,32	180		
18,5								
19,0								
19,5								
20,0			27,30	200	35,32	200		
20,5								
21,0								
21,5								
22,0								
22,5								
23,0								
23,5								
24,0								
24,5								
25,0			27,30	250	35,32	250		
25,5								
26,0								
26,5								
27,0								
27,5								
28,0								
28,5								
29,0								
29,5								
30,0					35,32	300		
30,5								
31,0								
31,5								
32,0					35,32	320		

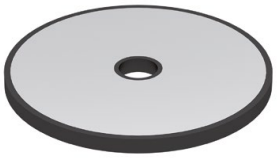
	NEW		NEW	
	OZ-B 20 µm		OZ-B 20 µm	
	BD = 35,05 OAL = 52 462 E / OZ		BD = 43,7 OAL = 60 467 E / OZ	
	82 654 ...		82 655 ...	
DCONWS mm	EUR Y8		EUR Y8	
2,0	26,46	02000		
2,5	26,46	02500		
3,0	22,25	03000		
3,5	22,25	03500		
4,0	22,25	04000	34,77	04000
4,5	22,25	04500	34,77	04500
5,0	22,25	05000	34,77	05000
5,5	22,25	05500	34,77	05500
6,0	22,25	06000	34,77	06000
6,5	22,25	06500	34,77	06500
7,0	22,25	07000	34,77	07000
7,5	22,25	07500	34,77	07500
8,0	22,25	08000	34,77	08000
8,5	22,25	08500	34,77	08500
9,0	22,25	09000	34,77	09000
9,5	22,25	09500	34,77	09500
10,0	22,25	10000	34,77	10000
10,5	22,25	10500	34,77	10500
11,0	22,25	11000	34,77	11000
11,5	22,25	11500	34,77	11500
12,0	22,25	12000	34,77	12000
12,5	22,25	12500	34,77	12500
13,0	22,25	13000	34,77	13000
13,5	22,25	13500	34,77	13500
14,0	22,25	14000	34,77	14000
14,5	22,25	14500	34,77	14500
15,0	22,25	15000	34,77	15000
15,5	22,25	15500	34,77	15500
16,0	22,25	16000	34,77	16000
16,5	22,25	16500	34,77	16500
17,0	22,25	17000	34,77	17000
17,5	22,25	17500	34,77	17500
18,0	22,25	18000	34,77	18000
18,5	22,25	18500	34,77	18500
19,0	22,25	19000	34,77	19000
19,5	22,25	19500	34,77	19500
20,0	22,25	20000	34,77	20000
20,5	22,25	20500	34,77	20500
21,0	22,25	21000	34,77	21000
21,5	22,25	21500	34,77	21500
22,0	22,25	22000	34,77	22000
22,5	22,25	22500	34,77	22500
23,0	22,25	23000	34,77	23000
23,5	22,25	23500	34,77	23500
24,0	22,25	24000	34,77	24000
24,5	22,25	24500	34,77	24500
25,0	22,25	25000	34,77	25000
25,5			34,77	25500
26,0			34,77	26000
26,5			34,77	26500
27,0			34,77	27000
27,5			34,77	27500
28,0			34,77	28000
28,5			34,77	28500
29,0			34,77	29000
29,5			34,77	29500
30,0			34,77	30000
30,5			34,77	30500
31,0			34,77	31000
31,5			34,77	31500
32,0			34,77	32000

The collet has a clamping range of 0.5 mm (+0.1 / –0.4 mm)

Sealing discs for precision collet chucks – Centro-P

- For sealing when using tools with internal cooling
- Sealing range: nominal diameter –0,1 mm / +0,4 mm
- Can be applied up to 80 bar

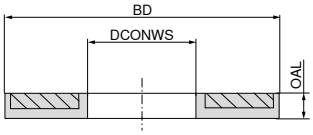




DCONWS mm	BD = 12,6 OAL = 2 426E (ER16) 83 690 ... EUR Y8		BD = 15,8 OAL = 2 428E (ER20) 83 694 ... EUR Y8		BD = 20,2 OAL = 2 430E (ER25) 83 691 ... EUR Y8		BD = 26,2 OAL = 2 444E / OZ (ER32) 83 692 ... EUR Y8		BD = 34,2 OAL = 2 472E (ER40) 83 693 ... EUR Y8	
1,0	18,86	010								
1,5	18,86	015								
2,0	18,86	020	19,57	020	18,86	020	19,57	020		
2,5	18,86	025	19,57	025	18,86	025	19,57	025		
3,0	15,43	030	16,06	030	15,43	030	16,06	030	19,57	030
3,5	15,43	035	16,06	035	15,43	035	16,06	035	19,57	035
4,0	15,43	040	16,06	040	15,43	040	16,06	040	19,57	040
4,5	15,43	045	16,06	045	15,43	045	16,06	045	19,57	045
5,0	15,43	050	16,06	050	15,43	050	16,06	050	19,57	050
5,5	15,43	055	16,06	055	15,43	055	16,06	055	19,57	055
6,0	15,43	060	16,06	060	15,43	060	16,06	060	19,57	060
6,5	15,43	065	16,06	065	15,43	065	16,06	065	19,57	065
7,0	15,43	070	16,06	070	15,43	070	16,06	070	19,57	070
7,5	15,43	075	16,06	075	15,43	075	16,06	075	19,57	075
8,0	15,43	080	16,06	080	15,43	080	16,06	080	19,57	080
8,5	15,43	085	16,06	085	15,43	085	16,06	085	19,57	085
9,0	15,43	090	16,06	090	15,43	090	16,06	090	19,57	090
9,5	15,43	095	16,06	095	15,43	095	16,06	095	19,57	095
10,0	15,43	100	16,06	100	15,43	100	16,06	100	19,57	100
10,5			16,06	105	15,43	105	16,06	105	19,57	105
11,0			16,06	110	15,43	110	16,06	110	19,57	110
11,5			16,06	115	15,43	115	16,06	115	19,57	115
12,0			16,06	120	15,43	120	16,06	120	19,57	120
12,5			16,06	125	15,43	125	16,06	125	19,57	125
13,0			16,06	130	15,43	130	16,06	130	19,57	130
13,5					15,43	135	16,06	135	19,57	135
14,0					15,43	140	16,06	140	19,57	140
14,5					15,43	145	16,06	145	19,57	145
15,0					15,43	150	16,06	150	19,57	150
15,5					15,43	155	16,06	155	19,57	155
16,0					15,43	160	16,06	160	19,57	160
16,5							16,06	165	19,57	165
17,0							16,06	170	19,57	170
17,5							16,06	175	19,57	175
18,0							16,06	180	19,57	180
18,5							16,06	185	19,57	185
19,0							16,06	190	19,57	190
19,5							16,06	195	19,57	195
20,0							16,06	200	19,57	200
20,5									19,57	205
21,0									19,57	210
21,5									19,57	215
22,0									19,57	220
22,5									19,57	225
23,0									19,57	230
23,5									19,57	235
24,0									19,57	240
24,5									19,57	245
25,0									19,57	250
25,5									19,57	255
26,0									19,57	260

Sealing rings for precision collet chucks – PCC

- For sealing when using tools with internal cooling
- Sealing range: nominal diameter –0,1 mm / +0,4 mm
- Can be applied up to 100 bar

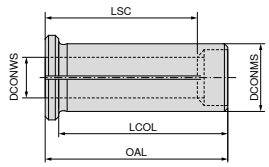




	NEW		NEW		NEW	
	BD = 13 OAL = 4 426E (ER16)		BD = 21 OAL = 4 430E (ER25)		BD = 27 OAL = 4 470E (ER32)	
	82 630 ...		**82 631 ...**		**82 632 ...**	
DCONWS mm	EUR Y8		EUR Y8		EUR Y8	
3,0	17,45	**03000**	17,45	**03000**	17,45	**03000**
3,5	17,45	**03500**	17,45	**03500**	17,45	**03500**
4,0	17,45	**04000**	17,45	**04000**	17,45	**04000**
4,5	17,45	**04500**	17,45	**04500**	17,45	**04500**
5,0	17,45	**05000**	17,45	**05000**	17,45	**05000**
5,5	17,45	**05500**	17,45	**05500**	17,45	**05500**
6,0	17,45	**06000**	17,45	**06000**	17,45	**06000**
6,5	17,45	**06500**	17,45	**06500**	17,45	**06500**
7,0	17,45	**07000**	17,45	**07000**	17,45	**07000**
7,5	17,45	**07500**	17,45	**07500**	17,45	**07500**
8,0	17,45	**08000**	17,45	**08000**	17,45	**08000**
8,5	17,45	**08500**	17,45	**08500**	17,45	**08500**
9,0	17,45	**09000**	17,45	**09000**	17,45	**09000**
9,5	17,45	**09500**	17,45	**09500**	17,45	**09500**
10,0	17,45	**10000**	17,45	**10000**	17,45	**10000**
10,5			17,45	**10500**	17,45	**10500**
11,0			17,45	**11000**	17,45	**11000**
11,5			17,45	**11500**	17,45	**11500**
12,0			17,45	**12000**	17,45	**12000**
12,5			17,45	**12500**	17,45	**12500**
13,0			17,45	**13000**	17,45	**13000**
13,5			17,45	**13500**	17,45	**13500**
14,0			17,45	**14000**	17,45	**14000**
14,5			17,45	**14500**	17,45	**14500**
15,0			17,45	**15000**	17,45	**15000**
15,5			17,45	**15500**	17,45	**15500**
16,0			17,45	**16000**	17,45	**16000**
16,5					17,45	**16500**
17,0					17,45	**17000**
17,5					17,45	**17500**
18,0					17,45	**18000**
18,5					17,45	**18500**
19,0					17,45	**19000**
19,5					17,45	**19500**
20,0					17,45	**20000**

Reducing sleeves for hydraulic and high pressure chucks

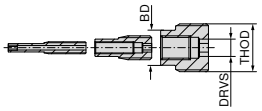
▲ Thro' coolant to 80 bar





DCONMS mm	DCONWS mm	OAL mm	LCOL mm	LSC mm	83 609 ... EUR Y8	
12	3	40	36	29	110,10	**103**
12	4	40	36	29	110,10	**104**
12	5	40	36	29	110,10	**105**
12	6	40	36	36	110,10	**106**
12	8	40	36	37	110,10	**108**
20	3	54	50	28	102,70	**203**
20	4	54	50	28	102,70	**204**
20	5	54	50	28	102,70	**205**
20	6	54	50	36	80,13	**206**
20	8	54	50	37	80,13	**208**
20	10	54	50	40	80,13	**210**
20	12	54	50	45	80,13	**212**
20	14	54	50	45	80,13	**214**
20	16	54	50	48	80,13	**216**
25	6	60	56	37	97,10	**256**
25	8	60	56	37	97,10	**258**
25	10	60	56	40	97,10	**260**
25	12	60	56	46	97,10	**262**
25	14	60	56	47	97,10	**264**
25	16	60	56	48	97,10	**266**
25	18	60	56	48	97,10	**268**
25	20	60	56	50	97,10	**270**
32	6	64	60	36	102,70	**306**
32	8	64	60	36	102,70	**308**
32	10	64	60	40	102,70	**310**
32	12	64	60	45	102,70	**312**
32	14	64	60	46	102,70	**314**
32	16	64	60	48	102,70	**316**
32	18	64	60	49	102,70	**318**
32	20	64	60	50	102,70	**320**
32	25	64	60	56	102,70	**325**

Stop screw for use with reducing sleeves in hydraulic chuck

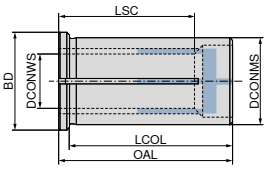




THOD	BD mm	DRVS mm	83 950 ... EUR Y7	
M4x0,5x26	2,8	2	8,52	**425**
M8x1x19	5,8	2,5	8,52	**428**
M10x1x16	5,8	3	8,52	**426**
M16x1x16	11,7	5	8,52	**427**

Reduction sleeves with coolant hole for hydraulic and high pressure chucks

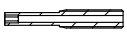
▲ with coolant holes, for flexible diameter application





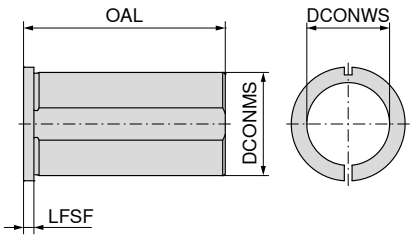
DCONMS mm	DCONWS mm	BD mm	OAL mm	LCOL mm	LSC mm	83 611 ... EUR Y8	
12	3	16	44	40	29	207,30	**10300**
12	4	16	44	40	29	207,30	**10400**
12	5	16	44	40	29	207,30	**10500**
12	6	16	44	40	36	207,30	**10600**
12	8	16	44	40	37	207,30	**10800**
20	3	25	54	50	28	130,50	**20300**
20	4	25	54	50	28	130,50	**20400**
20	5	25	54	50	28	130,50	**20500**
20	6	25	54	50	36	130,50	**20600**
20	8	25	54	50	37	130,50	**20800**
20	10	25	54	50	40	130,50	**21000**
20	12	25	54	50	45	130,50	**21200**
20	14	25	54	50	45	130,50	**21400**
20	16	25	54	50	48	130,50	**21600**
32	6	36	64	60	36	147,50	**30600**
32	8	36	64	60	36	147,50	**30800**
32	10	36	64	60	40	147,50	**31000**
32	12	36	64	60	45	147,50	**31200**
32	14	36	64	60	46	147,50	**31400**
32	16	36	64	60	48	147,50	**31600**
32	18	36	64	60	49	147,50	**31800**
32	20	36	64	60	50	147,50	**32000**
32	25	36	64	60	56	147,50	**32500**

Adaptation for the use of stop screws for reducing sleeves

DCONMS in mm			
12		83 950 425	83 950 426
20	83 950 425	83 950 428	83 950 427
25	83 950 425	83 950 428	83 950 427
32		83 950 428	83 950 427

Slotted reduction sleeves

- For cylindrical and other tool holders
- For tools with cylindrical shank

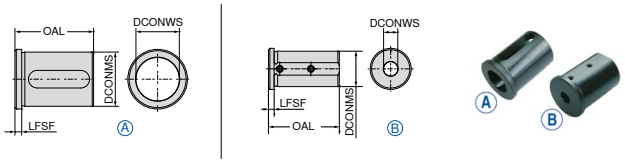




DCONMS mm	DCONWS mm	OAL mm	LFSF mm	83 271 ... EUR Y8	
20	6	30	4	58,33	206
20	8	30	4	45,68	208
20	10	30	4	45,68	210
20	12	30	4	45,68	212
20	15	30	4	45,68	215
20	16	30	4	45,68	216
25	6	40	4	62,86	256
25	8	40	4	48,93	258
25	10	40	4	48,93	260
25	12	40	4	48,93	262
25	15	40	4	64,05	265
25	16	40	4	48,93	266
25	20	40	4	48,93	270
32	6	50	4	64,36	326
32	8	50	4	48,93	328
32	10	50	4	48,93	330
32	12	50	4	48,93	332
32	15	50	4	48,93	335
32	16	50	4	48,93	336
32	20	50	4	48,93	340
40	10	78	4	59,08	410
40	12	78	4	59,08	412
40	15	78	4	59,08	415
40	16	78	4	59,08	416
40	20	78	4	59,08	420
40	25	78	4	59,08	425
40	32	78	4	59,08	432
50	20	88	4	79,27	520
50	25	88	4	79,27	525
50	32	88	4	79,27	532
50	40	88	4	79,27	540

Reduction sleeves for direct clamping

- For tools with cylindrical shank



DCONMS mm	DCONWS mm	OAL mm	LFSF mm	Fig.	83 272 ... EUR Y8	
25	6	50	4	B	65,78	256
25	8	50	4	B	50,97	258
25	10	50	4	B	50,97	260
25	12	50	4	B	50,97	262
25	14	50	4	A	65,78	264
25	16	50	4	A	50,97	266
25	20	50	4	A	50,97	270
32	6	58	5	B	67,94	326
32	8	58	5	B	67,94	328
32	10	58	5	B	52,60	330
32	12	58	5	B	52,60	332
32	16	58	5	A	52,60	336
32	20	58	5	A	52,60	340
32	25	58	5	A	52,60	345
40	8	58	5	B	82,51	408
40	10	58	5	B	67,94	410
40	12	58	5	B	73,44	412
40	16	58	5	A	73,44	416
40	20	58	5	A	73,44	420
40	25	58	5	A	73,44	425
40	32	58	5	A	73,44	432
50	12	75	5	B	76,47	512
50	16	75	5	A	76,47	516
50	20	75	5	A	76,47	520
50	25	75	5	A	76,47	525
50	32	75	5	A	76,47	532
50	40	75	5	A	76,47	540

Taper wiper

▲ Version made from hard wood with suede inserts



Adapter	83 715 ... EUR Y8	
MK 1	6,07	001
MK 2	6,28	002
MK 3	8,38	003
MK 4	9,24	004
MK 5	13,61	005
HSK 100	85,01	100
HSK 32	44,50	320
HSK 40	47,19	400
HSK 50	47,95	500
HSK 63	56,05	630
HSK 80	72,36	800
SK 30	10,12	130
SK 40	11,12	140
SK 50	13,28	150

Assembly device for ISO adapters

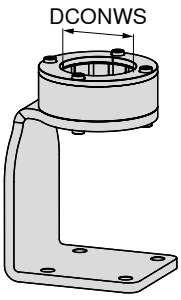
▲ Aluminium



Adapter	80 720 ... EUR Y7	
SK 30	103,50	030
SK 40	103,50	040
SK 50	172,70	050

Assembly fixture for tool holders

▲ gripping by roller
▲ secure clamping
▲ quick assembly, no additional clamping necessary

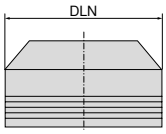




Holder Type	DCONWS mm	80 722 ... EUR Y7	
HSK 32, PSC 32	32,0	160,60	032
HSK 40, PSC 40	40,0	160,60	040
MAS-BT 30	46,0	132,70	046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50,0	132,70	050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63,0	137,80	063
ISO 7388-1 - SK 50	97,5	256,80	097
HSK 100, MAS-BT 50, ANSI-CAT 50	100,0	256,80	100

Safety Note: The clamping devices must be free of oil and grease to avoid slipping!

ER Standard lock nut for precision collet chuck – Centro-P





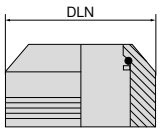


for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ... EUR Y8		84 950 ... EUR Y8	
426E (ER16)	1 - 10	30	80	28,99	001	36,25	011
430E (ER25)	2 - 16	40	90	32,09	003	39,37	013
470E (ER32)	2 - 20	50	180	34,14	005	41,44	015
472E (ER40)	3 - 26	63	200	46,61	007	55,93	017

OZ Standard lock nut for precision collet chuck – Centro-P

▲ can be used without sealing ring



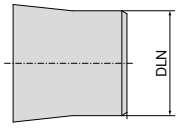




for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ... EUR Y8		84 950 ... EUR Y8	
462E (OZ)	2 - 25	50	200	36,25	009		
462E (OZ)	2 - 25	50	140			43,49	020

Tapered lock nut for precision collet chuck – Centro-P



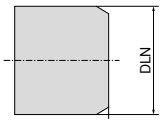




for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ... EUR Y8		84 950 ... EUR Y8	
426E (ER16)	1 - 10	24	80	34,14	031	42,47	033

Mini lock nut for precision collet chuck – Centro-P







for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ... EUR Y8		84 950 ... EUR Y8	
4004E (ER08)	1 - 5	10	5 - 8	39,34	040		
4008E (ER11)	1 - 7	16	10	34,14	041		
4008E (ER11)	Ø 3,0	16	10	65,25	042 [1]		
4008E (ER11)	Ø 4,0	16	10	65,25	043 [1]		
4008E (ER11)	Ø 5,0	16	10	65,25	044 [1]		
4008E (ER11)	Ø 6,0	16	10	65,25	045 [1]		
4008E (ER11)	Ø 7,0	16	10	65,25	046 [1]		
426E (ER16)	1 - 10	22	30	34,14	034		
426E (ER16)	1 - 10	22	28			42,46	035

1) directly sealed

Collet removal aid for Mini lock nut for precision collet chuck – Centro-P



for collet	84 950 ... EUR Y8	
4004E (ER08)	20,34	070
4008E (ER11)	28,48	072

Roll key

- Version CP = for Centro-P lock nuts
- Version STD = for standard lock nuts
- Version HDC = for HDC lock nuts



for lock nut	DLN mm	84 950 ... EUR Y8		
4004E / ER08 CP mini	10	88,02	050	
4008E / ER 11 CP mini / mini	16	62,13	080	1)
426E / ER 16 CP / ER 16 mini	22	61,96	026	
426E / ER 16 CP / CP mini	24	62,13	082	2)
426E / ER 16 CP	30	61,96	027	
426E / ER 16 STD	32	61,96	028	
428E / ER 20 STD	35	61,96	029	
430E / ER 25 CP	40	62,13	054	
430E / ER 25 STD	42	62,13	055	
470E / ER 32 CP + STD / OZ 462E CP	50	62,13	056	
470E / ER 32 HDC	53	79,31	30200	
472E / ER 40 CP + STD	63	68,35	057	

1) Special key for mini lock nuts

2) Key for tapered lock nuts / Special key for mini lock nuts

Torque key



TQX Nm	Square mm	84 435 ... EUR Y8	
5 - 30	9 x 12	150,30	030
10 - 80	9 x 12	176,70	080
20 - 200	14 x 18	179,70	200

Additional roll key device for torque key

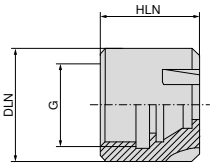
- Version CP = for Centro-P lock nuts
- Version STD = for standard lock nuts
- Version HDC = for HDC lock nuts



for lock nut	DLN mm	TQX Nm	Square mm	84 950 ... EUR Y8		
4008E / ER 11 CP	16	5 - 30	9 x 12	62,13	060	1)
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	61,96	170	
426E / ER 16 CP	24	10 - 80	9 x 12	62,13	061	1)
426E / ER 16 CP	30	20 - 200	14 x 18	61,96	171	
426E / ER 16 STD	32	20 - 200	14 x 18	61,96	172	
426E / ER 20 STD	35	20 - 200	14 x 18	61,96	173	
430E / ER 25 CP	40	20 - 200	14 x 18	62,13	065	
430E / ER 25 STD	42	20 - 200	14 x 18	62,13	066	
470E / ER 32 CP + STD / OZ 462E CP	50	20 - 200	14 x 18	62,13	067	
470E / ER 32 HDC	53	20 - 200	14 x 18	79,31	30300	
472E / ER 40 CP + STD	63	20 - 200	14 x 18	68,35	068	

1) for mini and tapered lock nuts

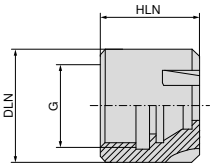
Mini ER lock nut





for collet	THSZMS	DLN mm	HLN mm	TQX Nm	62 950 ... EUR W7	
4004E (ER08)	M10x0,75	12	11.0	8	25,81	067
4008E (ER11)	M13x0,75	16	12.0	18	25,16	065
426E (ER16)	M19x1	22	18.0	28	24,62	066
428E (ER20)	M24x1	28	19.5	35	27,76	068
430E (ER25)	M30x1	35	21.0	40	30,34	069

Mini ER lock nut for sealing rings

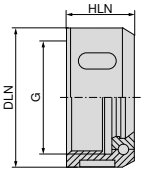




for collet	THSZMS	DLN mm	HLN mm	TQX Nm	for seals 83 950 ... EUR Y8	
426E (ER16-DS)	M19x1	22	22.0	28	37,54	058
428E (ER20-DS)	M24x1	28	23.2	35	40,04	059
430E (ER25-DS)	M30x1	35	24.7	40	41,78	060

OZ lock nut Form B + C

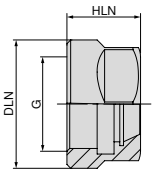
▲ with ball bearings





for collet	THSZMS	DLN mm	HLN mm	TQX Nm	62 950 ... EUR W7	
415E / 421E (OZ)	M33x1,5	43	24.0	85	32,51	050
459E / 462E (OZ)	M48x2	60	30.0	140	35,75	051
460E / 467E (OZ)	M60x2,5	72	33.5	170	44,71	052

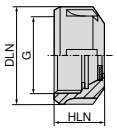
ER Lock nut





for collet	THSZMS	DRVS mm	DLN mm	HLN mm	62 950 ... EUR W7	
426E (ER16)	M22x1,5	25	28	18.0	18,35	044
428E (ER20)	M25x1,5	30	34	19.5	19,44	045

ER Lock nut







for seals

for collet	THSZMS	DLN mm	HLN mm	62 950 ... EUR W7		83 950 ... EUR Y8	
426E (ER16)	M22x1,5	32	17.0	18,35	054		
426E (ER16)	M22x1,5	32	22.0			31,54	054
428E (ER20)	M25x1,5	35	23.2			33,69	053
430E (ER25)	M32x1,5	42	20.0	20,52	055		
430E (ER25)	M32x1,5	42	24.7			35,76	055
470E (ER32)	M40x1,5	50	22.3	19,12	056		
470E (ER32)	M40x1,5	50	27.0			38,06	056
472E (ER40)	M50x1,5	63	25.3	18,58	057		
472E (ER40)	M50x1,5	63	30.7			44,88	057

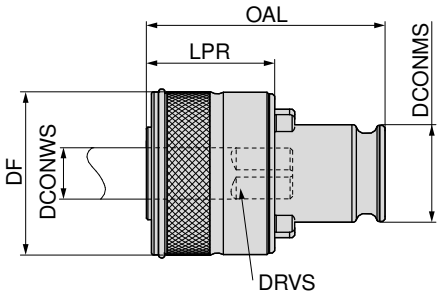
Y clamping key



for lock nut	83 357 ... EUR Y8	
ER 16	16,52	116
ER 20	17,05	12000
ER 25	18,25	125
ER 32	24,84	132
ER 40	27,33	140

Quick change tap adapter with overload clutch

▲ Adapter with adjustable overload clutch
▲ for use with taps



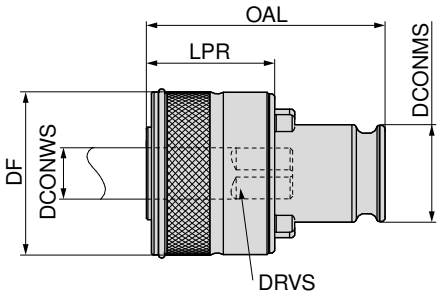




SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	83 612 ... EUR Y8	
01	2,8	2,1	M2		33	19	46,5	25	52,82	100
01	2,8	2,1	M2,5		33	19	46,5	25	52,82	101
01	3,5	2,7	M3		33	19	46,5	25	52,82	102
01	4,0	3,0	M3,5		33	19	46,5	25	52,82	103
01	4,5	3,4	M4		33	19	46,5	25	52,82	104
01	6,0	4,9	M4,5		33	19	46,5	25	52,82	105
01	6,0	4,9	M5		33	19	46,5	25	52,82	106
01	4,5	3,4		M6	33	19	46,5	25	52,82	107
01	6,0	4,9	M6		33	19	46,5	25	52,82	108
01	5,5	4,3		M7	33	19	46,5	25	52,82	109
01	7,0	5,5	M7		33	19	46,5	25	52,82	110
01	6,0	4,9		M8	33	19	46,5	25	52,82	111
01	8,0	6,2	M8		33	19	46,5	25	52,82	112
01	9,0	7,0	M9		33	19	46,5	25	52,82	113
01	7,0	5,5		M10	33	19	46,5	25	52,82	114
01	10,0	8,0	M10		33	19	46,5	25	52,82	115
01	8,0	6,2		M11	33	19	46,5	25	52,82	116
01	9,0	7,0		M12	33	19	46,5	25	52,82	117
02	6,0	4,9	M4,5 - M6		50	31	69,0	34	68,69	200
02	6,0	4,9	M7 (DIN 352)		50	31	69,0	34	68,69	201
02	7,0	5,5	M7		50	31	69,0	34	68,69	202
02	6,0	4,9		M8	50	31	69,0	34	68,69	203
02	8,0	6,2	M8		50	31	69,0	34	68,69	204
02	9,0	7,0	M9		50	31	69,0	34	68,69	205
02	7,0	5,5		M10	50	31	69,0	34	68,69	206
02	10,0	8,0	M10		50	31	69,0	34	68,69	207
02	8,0	6,2		M11	50	31	69,0	34	68,69	208
02	9,0	7,0		M12	50	31	69,0	34	68,69	209
02	11,0	9,0		M14	50	31	69,0	34	68,69	210
02	12,0	9,0		M16	50	31	69,0	34	68,69	211
02	14,0	11,0		M18	50	31	69,0	34	68,69	212
02	16,0	12,0		M20	50	31	69,0	34	68,69	213

Quick change tap adapter with overload clutch, with through coolant

- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps



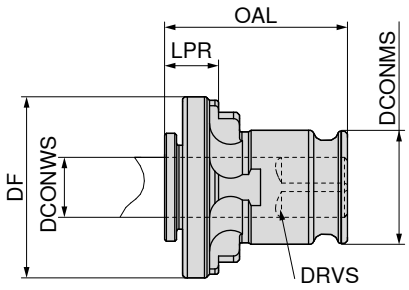




SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	83 616 ... EUR Y8	
01	3,5	2,7	M3	M4,5 - M5	33	19	46,5	25	91,14	100
01	4,5	3,4	M4	M6	33	19	46,5	25	91,14	102
01	5,5	4,3		M7	33	19	46,5	25	91,14	104
01	6,0	4,9	M4,5 - M6	M8	33	19	46,5	25	91,14	106
01	7,0	5,5	M7	M10	33	19	46,5	25	91,14	108
01	8,0	6,2	M8	M11	33	19	46,5	25	91,14	110
01	9,0	7,0	M9	M12	33	19	46,5	25	91,14	112
01	10,0	8,0	M10		33	19	46,5	25	91,14	114
01	11,0	9,0		M14	33	19	46,5	25	91,14	116
02	6,0	4,9	M4,5 - M6	M8	50	31	69,0	34	110,10	200
02	7,0	5,5	M7	M10	50	31	69,0	34	110,10	202
02	8,0	6,2	M8	M11	50	31	69,0	34	110,10	204
02	9,0	7,0	M9	M12	50	31	69,0	34	110,10	206
02	10,0	8,0	M10		50	31	69,0	34	110,10	208
02	11,0	9,0		M14	50	31	69,0	34	110,10	210
02	12,0	9,0	M12	M16	50	31	69,0	34	110,10	212
02	14,0	11,0		M18	50	31	69,0	34	110,10	214
02	16,0	12,0		M20	50	31	69,0	34	110,10	216

Quick change tap adapter

- Normal version without overload clutch
- For mounting taps
- For right-hand and left-hand threads





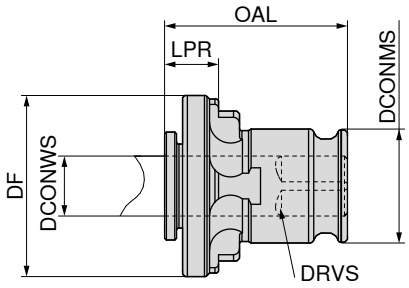


83 610 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	EUR Y8	
01	3,5	2,7	M3		30	19	28,5	7	21,17	100
01	4,5	3,4	M4		30	19	28,5	7	21,17	101
01	4,0	3,0	M3,5		30	19	28,5	7	21,17	102
01	2,8	2,1	M2 - M2,6		30	19	28,5	7	21,17	103
01	5,5	4,3		M7	30	19	28,5	7	21,17	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7	21,17	105
01	7,0	5,5	M7	M10	30	19	28,5	7	21,17	106
01	8,0	6,2	M8	M11	30	19	28,5	7	21,17	107
01	9,0	7,0	M9	M12	30	19	28,5	7	21,17	108
01	10,0	8,0	M10		30	19	28,5	7	21,17	109
01	11,0	9,0		M14	30	19	28,5	7	21,17	110
02	6,0	4,9	M4,5 - M6		46	31	46,0	11	29,26	200
02	7,0	5,5	M7		46	31	46,0	11	29,26	201
02	8,0	6,2	M8		46	31	46,0	11	29,26	202
02	9,0	7,0	M9		46	31	46,0	11	29,26	203
02	10,0	8,0	M10		46	31	46,0	11	29,26	204
02	11,0	9,0		M14	46	31	46,0	11	29,26	205
02	12,0	9,0		M16	46	31	46,0	11	29,26	206
02	14,0	11,0		M18	46	31	46,0	11	29,26	207
02	16,0	12,0		M20	46	31	46,0	11	29,26	208
02	18,0	14,5		M22 - M24	46	31	46,0	11	29,26	209

Quick change tap adapter, with through coolant

- Normal version without overload clutch
- For mounting taps
- For right-hand and left-hand threads





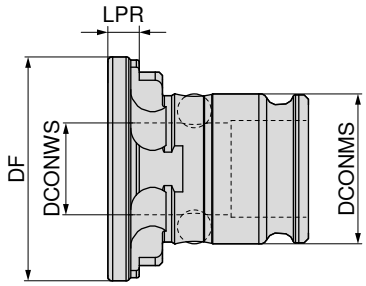


83 614 ...

SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	EUR Y8	
01	3,5	2,7		M4,5 - M5	30	19	28,5	7	41,04	100
01	4,5	3,4	M4	M6	30	19	28,5	7	41,04	102
01	5,5	4,3		M7	30	19	28,5	7	41,04	104
01	6,0	4,9	M4,5 - M6	M8	30	19	28,5	7	41,04	106
01	7,0	5,5	M7	M10	30	19	28,5	7	41,04	108
01	8,0	6,2	M8	M11	30	19	28,5	7	41,04	110
01	9,0	7,0	M9	M12	30	19	28,5	7	41,04	112
01	10,0	8,0	M10		30	19	28,5	7	41,04	114
02	6,0	4,9	M4,5 - M6	M8	46	31	46,0	11	54,21	200
02	7,0	5,5	M7	M10	46	31	46,0	11	54,21	202
02	8,0	6,2	M8	M11	46	31	46,0	11	54,21	204
02	9,0	7,0	M9	M12	46	31	46,0	11	54,21	206
02	10,0	8,0	M10		46	31	46,0	11	54,21	208
02	11,0	9,0		M14	46	31	46,0	11	54,21	210
02	12,0	9,0	M12	M16	46	31	46,0	11	54,21	212
02	14,0	11,0		M18	46	31	46,0	11	54,21	214
02	16,0	12,0		M20	46	31	46,0	11	54,21	216

Reducing adapter for quick change adapters

- Reducing adapter for reducing size 02 to 01. In this way the clamping ranges can be extended to smaller sizes.





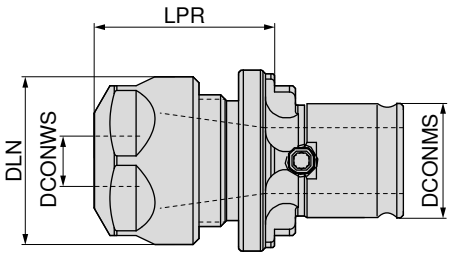


83 624 ...

SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	EUR Y8	
02	46	31	19	8,5	69,98	200

Quick change tap adapters

▲ Adapters for collets ER 16 / ER 25



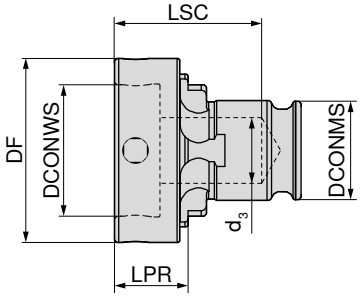




SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet	83 618 ... EUR Y8	
01	1 - 10	28	19	29,5	ER 16	88,56	010
02	2 - 16	42	31	38,5	ER 25	125,30	016

Quick change adapter for dies

▲ For mounting dies according to DIN 223





SZID	for size	cutting range	DF mm	DCONMS mm	DCONWS mm	LPR mm	d_3 mm	LSC mm	83 622 ... EUR Y8	
01	16 x 5	M1 - M4	25	19	16	9	12,5	23	97,85	116
01	20 x 5	M3 - M4	30	19	20	9	12,5	23	97,85	120
01	20 x 7	M4,5 - M6	30	19	20	11	12,5	25	97,85	121
01	25 x 9	M7 - M9	35	19	25	14	12,5	28	97,85	125
01	30 x 11	M10 - M11	40	19	30	16	12,5	30	97,85	130
01	38 x 10	M12x1 - M15x1,5	48	19	38	15	14,2	29	97,85	138
01	38 x 14	M12 - M14	48	19	38	19	14,2	33	97,85	139
02	20 x 5	M3 - M4	30	31	20	22	15,0	57	137,20	220
02	20 x 7	M4,5 - M6	30	31	20	22	15,0	57	137,20	221
02	25 x 9	M7 - M9	35	31	35	22	15,0	57	137,20	225
02	30 x 11	M10 - M11	40	31	30	22	22,0	57	137,20	230
02	38 x 10	M12x1 - M15x1,5	48	31	38	22	22,0	57	137,20	238
02	38 x 14	M12 - M14	48	31	38	25	22,0	60	137,20	239
02	45 x 14	M16x1 - M20x2	57	31	45	29	22,0	64	137,20	245
02	45 x 14	M16 - M20	57	31	45	29	22,0	64	137,20	246

16

MultiChange – Spanner



DRVS mm	TQX Nm	84 357 ... EUR Y8	
6	5	7,11	006
8	12,5	7,29	008
10	15	8,20	010
13	20	8,87	013
16	25	11,89	016
19	25	15,55	019 1)
21	25	17,07	021 1)
24	25	17,93	024 1)

1) only for MultiChange reamers

MultiChange – Spanner Head



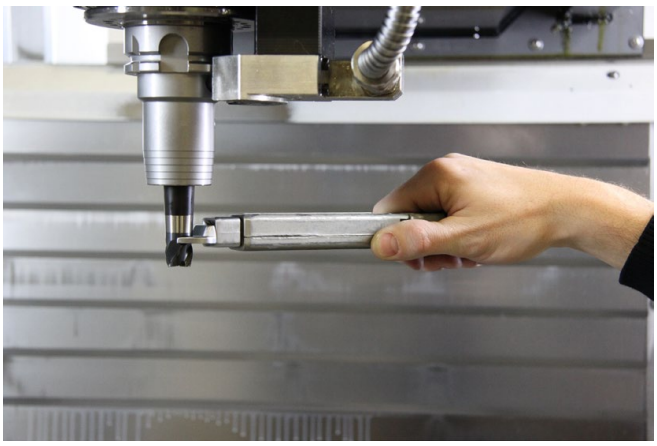
DRVS mm	TQX Nm	Square mm	84 358 ... EUR Y8	
6	5	9 x 12	51,19	006
8	12,5	9 x 12	51,19	008
10	15	9 x 12	51,19	010
13	20	9 x 12	51,19	013
16	25	9 x 12	51,19	016
19	25	9 x 12	106,90	190
19	25	14 x 18	90,94	019 1)
21	25	9 x 12	150,10	210
21	25	14 x 18	111,30	021 1)
24	25	9 x 12	150,10	240
24	25	14 x 18	111,30	024 1)

1) only for MultiChange reamers

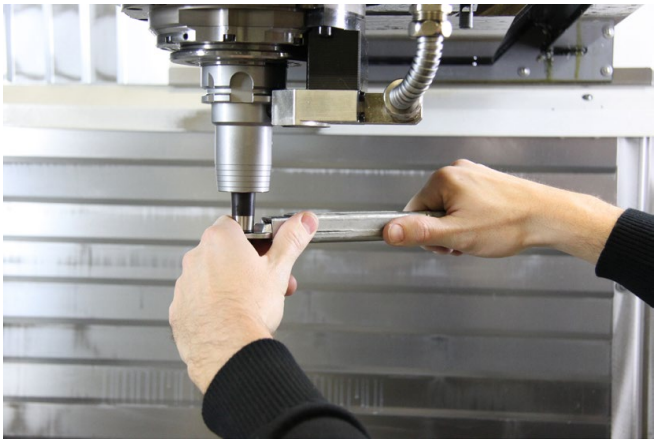
Suitable torque keys can be found on → **Page 275.**

Assembly instructions for MultiChange head

- Cleaning of cone, thread and face of the milling head
- Cleaning of cone, thread and face of the holders
- Cutter head screwed clockwise by hand into the holder (be careful if using gloves)
- Clamp the exchange milling head with the torque wrench and the correct spanner to the specified tightening torque (according to table).
- The gap between the head and holder must be closed (force and positive connection)



Torque wrench must be horizontally aligned to key area, take care not to tilt in the key area



Important for the sensitive tuning is an additional placing of the hand on the exchange milling head. This means the torque can be better maintained.

TORX® Screwdriver



Size	LB mm	TQX Nm	80 950 ... EUR Y7	
T05	35	0,5	3,98	082
T06	35	0,9	3,92	083
T07	35	1,7	3,92	084
T08	40	2,6	3,92	085
T09	40	3,4	4,27	086
T10	40	4,5	4,27	087
T15	45	7,7	4,59	088
T20	45	12,7	5,01	089

TORX® Screwdriver sets



Size	80 950 ... EUR Y7	
T06, T07, T08, T09, T10, T15, T20	38,98	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ... EUR Y7	
T05-IP	35	0,5	6,24	057
T06-IP	35	0,9	6,24	058
T07-IP	35	1,7	6,18	059
T08-IP	40	2,6	6,08	060
T09-IP	40	3,4	6,54	061
T10-IP	40	4,5	6,54	062
T15-IP	45	7,7	6,96	063
T20-IP	45	12,7	7,71	064

TORX PLUS® Screwdriver sets



Size	80 950 ... EUR Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	56,04	091

Clamping key



DRVS mm	TQX Nm	80 397 ... EUR Y7	
2	1,9	4,03	020
2,5	3,8	4,09	025
3	6,6	3,97	030
4	16	4,03	040
5	30	4,37	050
6	52	5,07	060
8	120	6,21	080
10	220	10,36	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



NEW

Size	80 397 ... EUR Y7	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	39,19	99900

16

TORX® Screwdriver



Size	LB mm	80 950 ... EUR Y7	
T06	60	6,55	100
T07	60	6,55	101
T08	60	6,55	102
T09	60	7,08	103
T10	80	7,26	104
T15	80	7,26	105
T20	100	7,75	106
T25	100	8,17	107
T30	115	9,06	092

TORX® MagicSpring®



Size	LB mm	80 950 ... EUR Y7	
MS T06	60	8,69	108
MS T07	60	8,03	109
MS T08	60	8,03	110
MS T09	60	9,15	111
MS T10	80	9,41	112
MS T15	80	9,56	113
MS T20	100	10,25	114
MS T25	100	10,53	115
MS T30	100	12,46	131

TORX PLUS® Screwdriver



Size	LB mm	80 950 ... EUR Y7	
T06-IP	60	8,35	116
T07-IP	60	8,19	117
T08-IP	60	6,47	039
T09-IP	60	8,89	118
T10-IP	80	9,18	119
T15-IP	80	9,42	120
T20-IP	100	10,09	121
T25-IP	100	10,58	122

TORX PLUS® MagicSpring®



Size	LB mm	80 950 ... EUR Y7	
MS T06-IP	60	10,70	123
MS T07-IP	60	10,53	124
MS T08-IP	60	10,51	125
MS T09-IP	60	11,58	126
MS T10-IP	80	11,91	127
MS T15-IP	80	12,25	128
MS T20-IP	100	12,92	129
MS T25-IP	100	14,94	130

A stainless steel spring holds MagicSpring® Torx® and Torx Plus® screws in place.





TorqueFix® Handle

- with fixed torque moment
- Standard: EN ISO 6798, BS EN 26789, ASME B107.14M
- Accuracy: ± 6 %, based on national standards
- Bits to be clamped in the universal holder only



NEW

TQX Nm	80 021 ... EUR Y7	
0,4	100,90	00400
0,5	100,90	00500
0,6	100,90	006
0,7	88,50	007
0,8	90,63	008
0,9	100,90	00900
1	90,63	010
1,1	99,95	01100
1,2	99,95	012
1,5	99,95	01500
1,6	99,95	016
1,8	99,95	018
2	99,95	020
2,5	99,95	02500
3	105,60	030
3,2	105,60	032
3,8	105,60	03800
4	105,60	040
5	105,60	050
5,5	117,90	055
6	117,90	060
7,2	117,90	07200

TorqueVario®-S

- Patented handle

Scope of supply:

incl. Torque-Setter setting tool



TQX Nm	80 950 ... EUR Y7	
0,4 - 1,0	131,30	046
0,5 - 2,0	122,50	191
0,8 - 5,0	132,50	192
2,0 - 7,0	135,90	193

Universal holder for Bits

- 162 mm long



for	80 950 ... EUR Y7	
DIN3126-C/E 6,3-1/4"	20,01	014

TorqueFix® key

- With fixed torque
- Ergonomic key handle, extremely easy to use thanks to compact design
- Specially designed for difficult to access screws and constricted openings
- Click signal when the set torque value is reached
- Standards: DIN EN ISO 6789
- Accuracy: ± 6%, traceable to national standards

Scope of supply:

incl. Plastic box and inspection report



NEW

TQX Nm	DRVS mm	80 392 ... EUR Y7	
0,5	4	40,14	00500
0,6	4	40,14	00600
0,9	4	40,14	00900
1,1	4	40,14	01100
1,2	4	40,14	01200
1,4	4	40,14	01400
2,0	4	40,14	02000
2,5	4	40,14	02500
3,0	4	40,14	03000
3,8	4	40,14	03800
4,0	4	40,14	04000

Interchangeable blade for Hex drive for Micro Precision Chucks



Size	TQX Nm	NEW short 75 mm 80 393 ... EUR Y7		long 175 mm 80 950 ... EUR Y7	
SW1,5	0,9	3,28	01500	5,77	151
SW2	1,8	3,28	02000	5,77	152
SW2,5	3,8	3,28	02500	5,77	153
SW3	5,5	3,28	03000	5,77	154
SW4	8,0	3,28	04000	5,77	155

Replaceable Blade for TORX®



Size	TQX Nm	NEW short 75 mm 80 394 ... EUR Y7		long 175 mm 80 950 ... EUR Y7	
T05	0,4			6,07	048
T06	0,6	3,28	00600	4,90	031
T07	0,9	3,28	00700	4,90	032
T08	1,3	3,28	00800	4,90	033
T09	2,5	3,28	00900	4,90	034
T10	3,8	3,28	01000	4,90	035
T15	5,5	3,28	01500	4,90	036
T20	8,0	3,28	02000	4,90	037
T25	8,0	3,28	02500	4,90	038

Replaceable Blade for TORX PLUS®



Size	TQX Nm	NEW short 75 mm 80 395 ... EUR Y7		long 175 mm 80 950 ... EUR Y7	
T05-IP	0,5			5,42	049
T06-IP	0,8	3,28	00600	5,42	050
T07-IP	1,3	3,28	00700	5,42	051
T08-IP	2,0	3,28	00800	4,90	043
T09-IP	3,0	3,28	00900	5,42	052
T10-IP	4,5	3,28	01000	5,42	053
T15-IP	6,6	3,28	01500	5,42	054
T20-IP	8,0	3,28	02000	5,42	055
T25-IP	8,0	3,28	02500	5,42	056

Interchangeable blade, short 75 mm, suitable for TorqueFix® Key article number 80 392 ...→ **See Page 285**.

Interchangeable blade, long 175 mm, suitable for TorqueFix® Grip article number 80 021 ... and TorqueVario®-S article number 80 950 ... → **Page 285**.

TORX® Bits short (25 mm)

▲ DIN3126-C 6,3 – 1/4“



Size	TQX Nm	80 950 ... EUR Y7	
T06	0,9	0,94	015
T07	1,7	0,94	016
T08	2,6	0,94	017
T09	3,4	0,94	018
T10	4,5	0,94	019
T15	7,7	0,94	020
T20	12,7	0,94	021
T25	19	0,94	022
T30	37,4	0,99	093

TORX® Bits long (50 mm)

▲ DIN3126-E 6,3 – 1/4“



Size	TQX Nm	80 950 ... EUR Y7	
T06	0,9	3,44	023
T07	1,7	3,44	024
T08	2,6	3,44	025
T09	3,4	3,44	026
T10	4,5	3,44	027
T15	7,7	3,44	028
T20	12,7	3,44	029
T25	19	3,44	030
T30	37,4	4,62	094

TORX PLUS® Bits short (25 mm)

▲ DIN3126-C 6,3 – 1/4“



Size	TQX Nm	80 950 ... EUR Y7	
T05-IP	0,5	2,78	065
T06-IP	0,9	2,78	066
T07-IP	1,7	2,78	067
T08-IP	2,6	2,78	068
T09-IP	3,4	2,78	069
T10-IP	4,5	2,78	070
T15-IP	7,7	2,78	071
T20-IP	12,7	2,78	072
T25-IP	19	2,78	073

TORX PLUS® Bits long (50 mm)

▲ DIN3126-E 6,3 – 1/4“



Size	TQX Nm	80 950 ... EUR Y7	
T05-IP	0,5	5,62	074
T06-IP	0,9	5,42	075
T07-IP	1,7	5,42	076
T08-IP	2,6	5,07	040
T09-IP	3,4	5,42	077
T10-IP	4,5	5,42	078
T15-IP	7,7	5,42	079
T20-IP	12,7	5,42	080
T25-IP	19	5,42	081

Bit – hexagonal



	80 398 ... EUR Y7	
SW1,5-50mm	5,25	01500
SW2,5-50mm	5,25	02500
SW2-50mm	5,25	02000
SW3,5-50mm	5,30	03500
SW3-50mm	4,77	03000
SW4,5-50mm	5,30	04500
SW4-50mm	3,91	04000
SW5-50mm	4,77	05000
SW6-50mm	3,91	06000
SW8-50mm	8,25	08000

TORX® Allen key

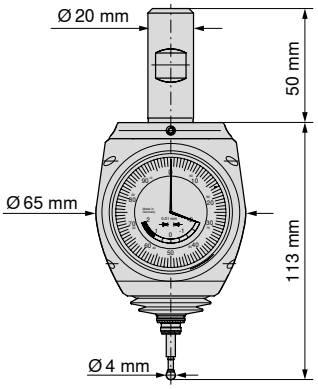


Size	OAL mm	80 951 ... EUR Y7	
T07-IP	44	6,10	00700
T08-IP	47	6,10	00800
T09-IP	51	6,10	00900
T10-IP	54	6,23	01000
T15-IP	58	6,29	01500
T20-IP	62	6,70	02000
T25-IP	67	7,05	02500
T27-IP	73	7,32	02700
T30-IP	79	7,89	03000
T40-IP	88	9,00	04000

Universal 3D-tester

- Quick and accurate positioning
- For locating and/or setting the zero point of the workpiece
- with adjustable concentricity
- Usable in all 3 axes (x, y, z)
- For all CNC and erosion machines (insulation between stylus and case)
- Reading of actual dimensions is independent of direction
- Reading precision 0.01 mm

Scope of supply:
3D tester including tracer insert and Allen key



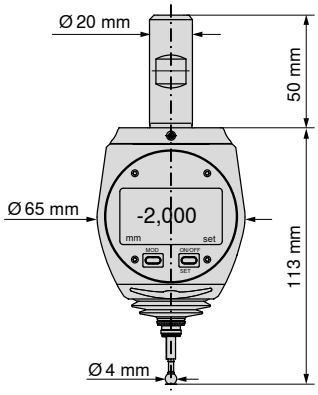


	85 290 ...	
	EUR	
	XX	
Universal-3D-Tester	359,00	**100**

Digital 3D-tester

- Quick and accurate positioning
- For locating and/or setting the zero point of the workpiece
- with adjustable concentricity
- Usable in all 3 axes (x, y, z)
- For all CNC and erosion machines (insulation between stylus and case)
- Reading of actual dimensions is independent of direction
- Reading precision 0.001 mm

Scope of supply:
3D tester including tracer insert and Allen key





	85 291 ...	
	EUR	
	XX	
Digital 3D Tester	721,00	**100**

Zero height setting gauge

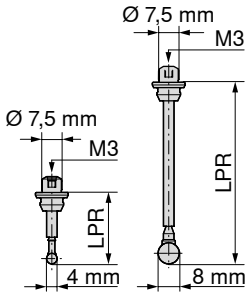
- to determine the point of reference and/or for adjusting tools “to zero”
- Plate Ø 10 mm
- Plate is hardened, non magnetic



	85 900 ...	
	EUR	
OAH mm	Y7	
100	135,00	**018**

Stylus for 3D-tester

- With movement of 2 mm beyond the zero point a break-off ceramic insert prevents damage to the unit
- If the stylus is broken remove and insert a new stylus
- Check concentricity and adjust if necessary



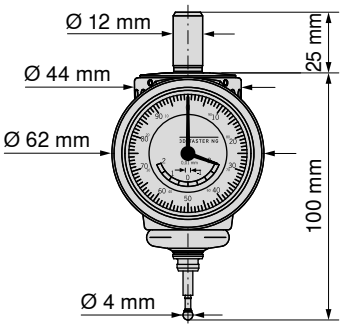


	85 290 ...	
LPR mm	EUR	
	XX	
25	28,00	**102**
65	45,20	**104**

Universal 3D-Tester HQ

- fast and accurate positioning at reference edges
- Development of the existing universal 3D-Testers
- improved mechanics
- compact size
- characterised by over travel safety
- Functionality as with 85 290 100
- Accuracy 0,01 mm

Scope of supply:
3D tester including tracer insert and Allen key



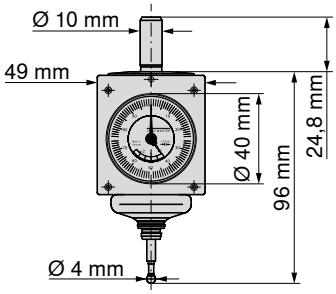


	85 292 ... EUR XX	
Universal 3D-Tester HQ	359,00	**100**

Universal 3D-Tester Mini

- fast and accurate positioning at reference edges
- very small universal 3D-Tester
- particularly suitable for machines with small spindle taper e.g. SK 30 or HSK 32
- low overhang length thanks to short housing
- characterised by over travel safety
- Functionality as with 85 290 100
- Accuracy 0,01 mm

Scope of supply:
3D tester including tracer insert and Allen key



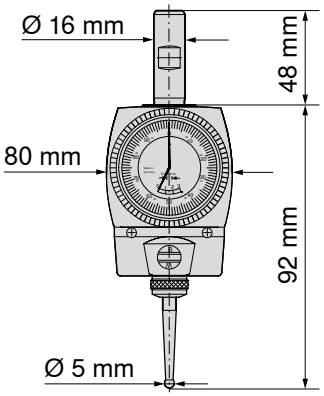


	85 295 ... EUR XX	
Universal 3D-Tester Mini	359,00	**100**

Centre finder

- Centralise holes and features quickly and accurately
- simple operation
- Dial gauge remains in the operators vision during process
- Centring accuracy 0,003 mm

Scope of supply:
3D-Tester incl. straight stylus and telescopic stop

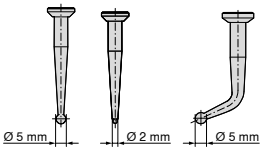




	85 299 ... EUR XX	
Centre finder	474,90	**100**

Range with probe tip Ø 5 mm holes
Ø 6–125 mm, shaft Ø 0–125 mm

Stylii for Centre Finder





	85 299 ... EUR XX	
Straight stylus / Ball-Ø 2 mm	44,10	**102**
Straight stylus / Ball-Ø 5 mm	33,10	**104**
Curved stylus / Ball Ø 5 mm	42,70	**106**

Telescopic rod for Centre Finder

DCONMS mm	OAL mm	85 299 ... EUR XX	
6	478	14,80	**111**

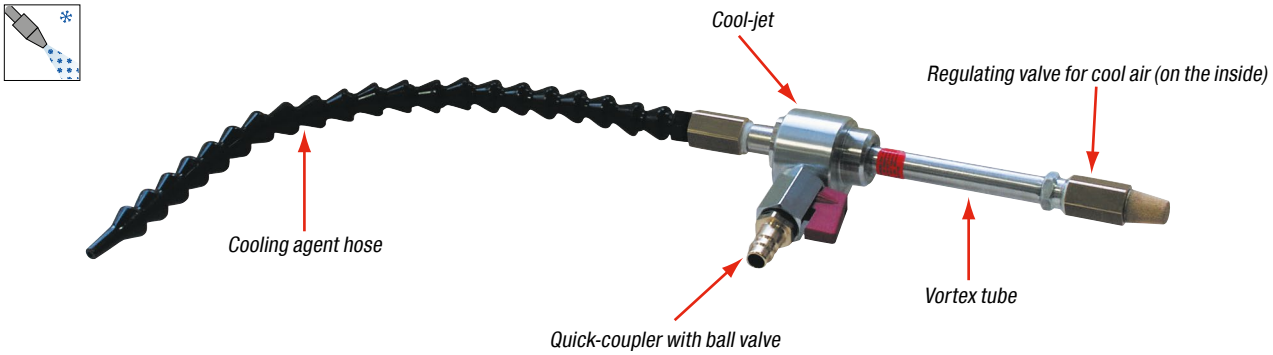
16

Advantages with the use of the cool air nozzle

The main advantages are that cooling agent disposal is not required and tool life increases up to 100% when dry machining

In order to improve the service life when dry machining, we recommend the use of our cooling nozzle, which is applicable with a normal compressed air connection from a pressure of 6 bar.

Not only for**cooling the tool and workpiece** it is primarily**for chip removal** to preventchip **jamming**.



Cool-jet	81 900 ... EUR Y7	
3–7 bar air pressure, at -46 °C	601,60	100

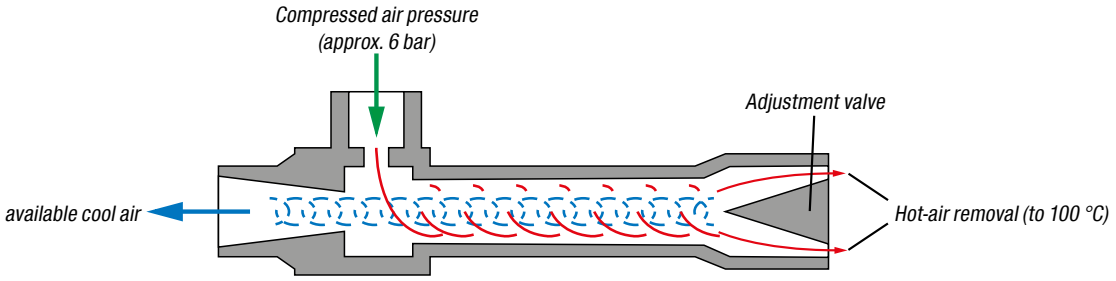
Accessories	81 900 ... EUR Y7	
Magnetic plate Ø 80 mm without clamping arm	31,96	101
Spare tube, length 300 mm	31,96	104
Jet silencer (air filter)	6,22	105
Clamping arm, length 75 mm	94,50	106
Complete set (with magnetic set and clamping arm), weight 0,4 kg	123,20	107

Technical description – operating instruction

The principle of the cold-air nozzle is based on the use of vortex tubes. Ordinary air is divided into cold and hot air streams.

Without additional power supply or moving parts the cool air nozzle can produce**cooling performance of up to 733 W** or **Temperatures of approx. -42 °C** are produced and requires only operating pressure air of approx. 6 bar.

A water trap or service unit should be mounted. A regulating valve in the hot-air outlet regulates the temperatures and currents



Utilizable air temperature measured at the effective discharge of the vortex tube (not the nozzle end)

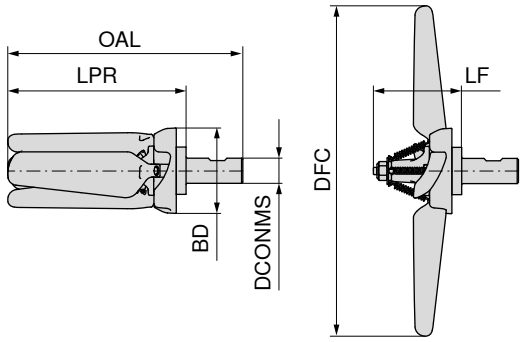
Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

Entrance pressure				
	3 bar	-31 °C	up to	-6 °C
	4 bar	-35 °C	up to	-8 °C
	5 bar	-39 °C	up to	-10 °C
	6 bar	-42 °C	up to	-11 °C
	7 bar	-46 °C	up to	-13 °C

In order to operate the regulating valve, the silencer must be unscrewed – there is a burn danger! The valve of the hot air side can reach up to 100 °C: Before contact, allow cooling!

Cleaning propeller

- Chip and emulsion removal or drying processes via the tool spindle
- Simple replacement of the rotor blades





NEW



IK central

DCONMS mm	OAL mm	LPR mm	LF mm	DFC mm	BD mm	RPMX 1/min.	80 399 ... EUR Y7	
20	186,3	141,3	69,75	254	67,68	5000 - 8000	176,70	**02000**



Rotor blade



Rotor blade kit

Spare parts for Article no.	80 399 ... EUR Y7		80 399 ... EUR Y7	
80 399 02000	21,67	**30100**	83,75	**30200**

16

Driven Tools

CERATIZIT offers a comprehensive portfolio of driven tool holders for the turrets or machines of leading manufacturers. There is almost no limit to the range of types available. You will find a small selection of our holders here.

Examples from our driven tooling range



Axial drilling and milling head



Radial drilling and milling head



Rear offset radial drilling and milling head



Double radial drilling and milling head



Double axial drilling and milling head



Offset axial drilling and milling head



Swivel head



Modular milling

Summary of machine turret manufacturers and interfaces for which CERATIZIT can supply driven tools

- Sauter
- Baruffaldi
- Duplomatic
- DIN1809
- DIN5480
- DIN5482
- Baruffaldi Toem
- Bevel gear milling
- Spline / tooth
- milling
- BMT (bolt on)

Technical Advice

Are you interested in our driven tools ? If so please contact your technical sales engineer who will be glad to assist you. Alternatively, you can contact our office based internal technical sales engineers who can be reached on our freephone number.

Enquiry Form

Should you have questions about driven tools you can find a detailed questionnaire on our website in the download area. Carefully complete the form and send it via e-mail or printed fax
→ **cutting.tools/en/download**

Modular quick-change system for driven tools

You want to optimize your setup time? CERATIZIT offers you several options! With each axial and radial driven tool you are prepared through the exchange of different modules for different machining demands.

Varia VX

The new quick change system for heavy duty machining



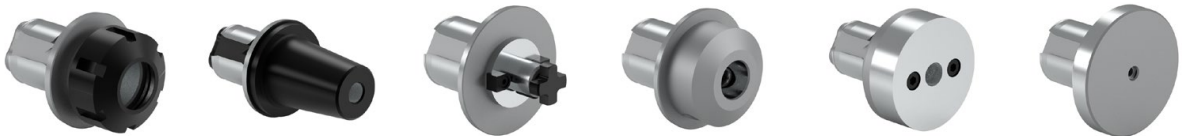


The face & taper contact interface ensures maximum concentricity.
The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

Clamping and releasing takes place via a segmented gear wheel equipped with 3 multifunctional cams. When tightened with a radially mounted clamping screw, the 3-point clamping pulls the tool evenly into its operating position. When releasing the tool force is applied mechanically via a sliding cam and the tool is released for removal from the adapter.

The advantages at a glance

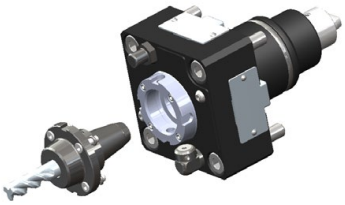
- Cutting tools are preset off the machine
- Quick change thanks to only one clamping point
- No risk of injury when changing tools
- Transverse force-free clamping of the tools
- Safe torque transmission
- No loose parts



System Preci-Flex® – The stable solution for long tool life and high surface quality

The internal cone of the driven tool is suitable for any commercial type ER collets. Through taper & face contact ≤ 0.01 mm system concentricity and ≤ 0.005 mm repeatability is achieved and four plane-side clamp screws achieve maximum system stability and rigidity.

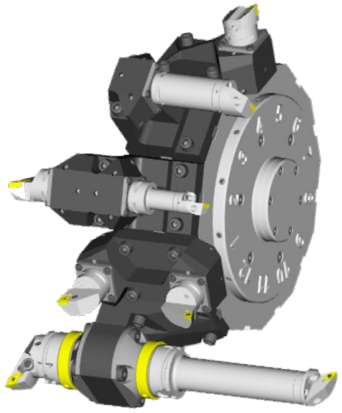






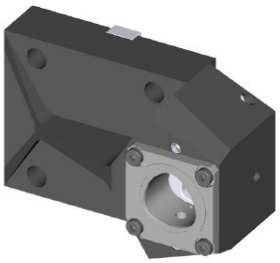
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and HSK holders.

Quick-Change

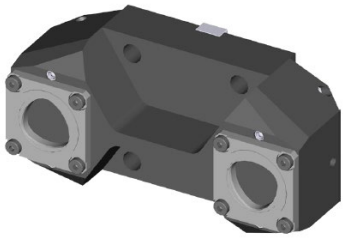


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

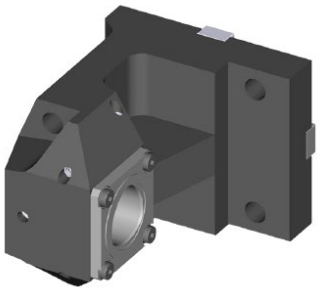
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



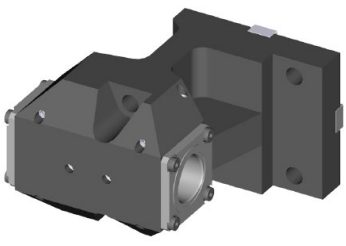
Tool holder single and straight



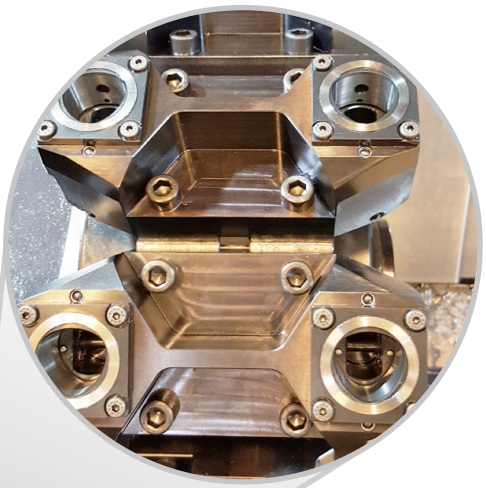
Tool holder double and straight

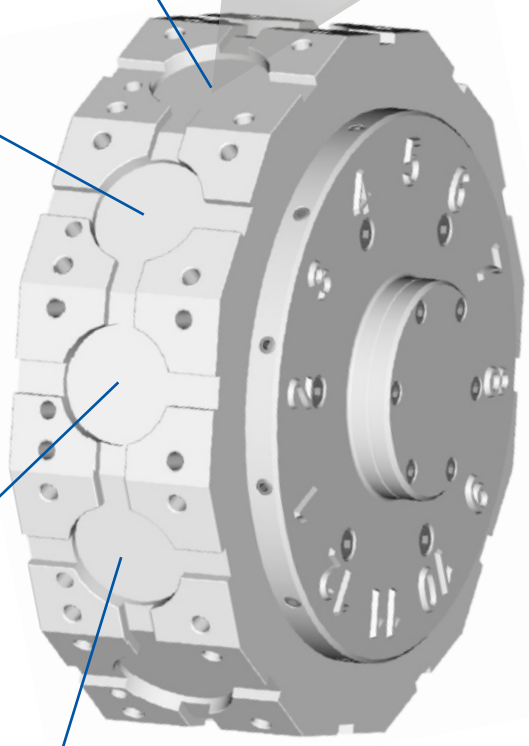


Single angle tool holder



Double angle tool holder



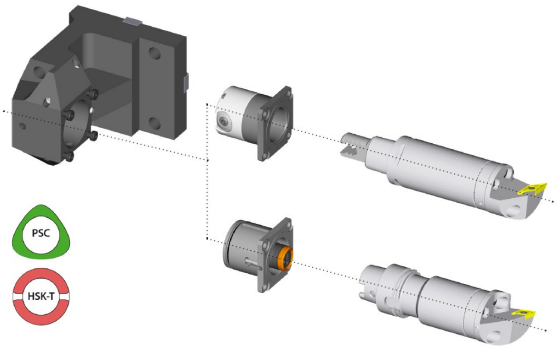


Revolverdisk BMT/VDI/...

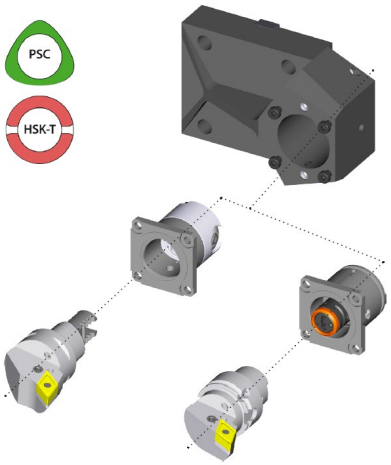
HSK/PSC clamping units

The tool holders are fitted with either an HSK or PSC clamping unit.

Clamping units are available in sizes HSK 40/63/100 and PSC 40/50/63.

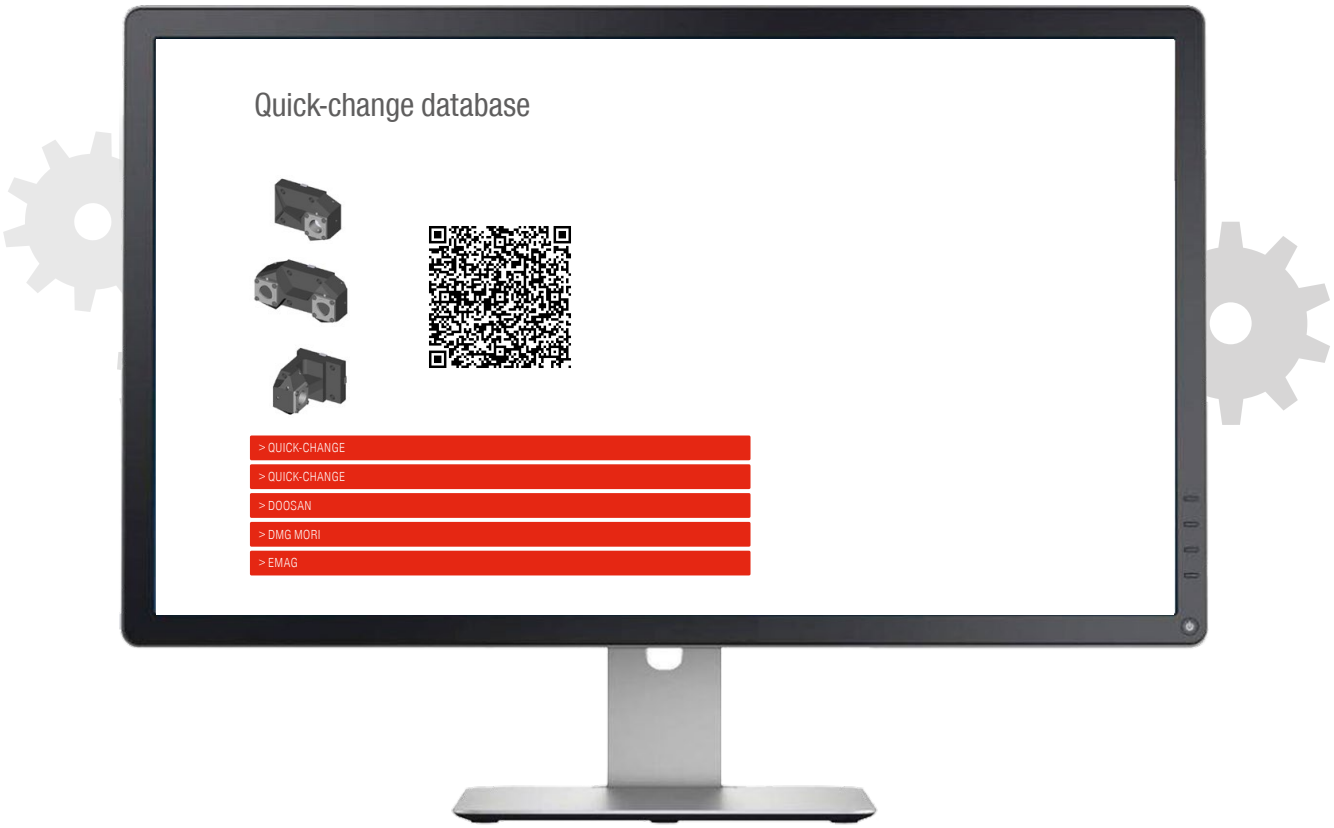


The toolholders permit the flexibility to be adapted to the customer's requirements.



Online database

Our quick-change tool holders are individually adapted to turning machines to ensure the greatest-possible levels of flexibility and efficiency. Using the online database, systems of previously specified machine types can be evaluated in order to obtain an initial overview.



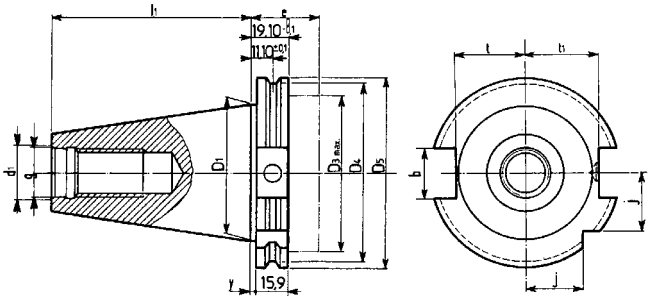
Information on enquiry process

To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.
Please fill in this form carefully and send it to us by email or fax. → **cutting.tools/en/download-quickchange**

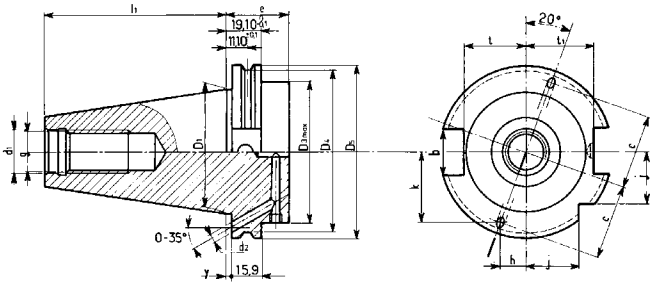
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

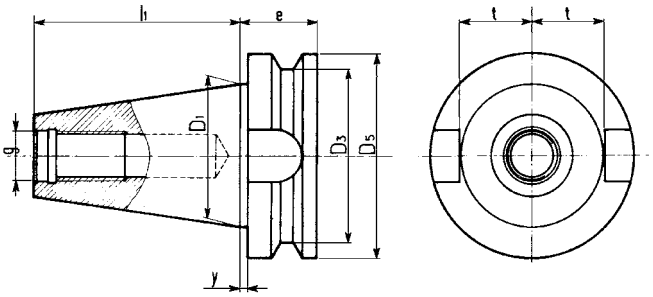


ISO 7388-1 – 871 Form B



	D_1 mm	$D_{3\,max}$ mm	D_4 mm	D_5 mm	$l_{10}^{+0,2}$ mm	g	d_1 H7 mm	e mm	y ±0,1 mm	t mm	t_1 mm	j mm	d_2 mm	h mm	k mm	c mm	b mm
SK 30	31,75	45	44,30	50	47,8	M 12	13	35	3,2	16,4	19	15					16,1
SK 40	44,45	50	56,25	63,55	68,4	M 16	17	35	3,2	22,8	25	18,5	4	9,2	25,4	27	16,1
SK 50	69,85	80	91,25	97,5	101,75	M 24	25	35	3,2	35,5	37,7	30	6	14,4	39,5	42	25,7

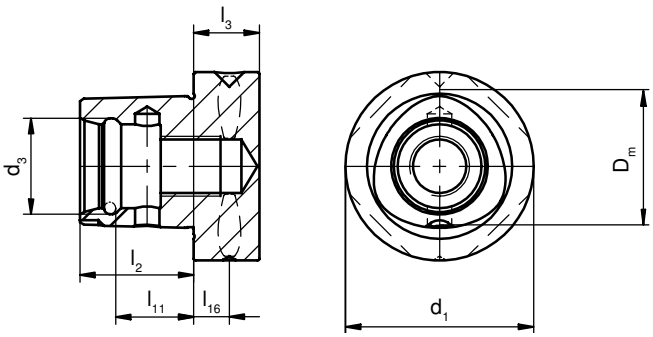
ISO 7388-2



Maximum recommended rpm
for steep taper toolholders:
SK / BT 30 to 20,000 $^1/_{min.}$
SK / BT 40 to 20,000 $^1/_{min.}$
SK / BT 50 to 16,000 $^1/_{min.}$

	D_1 mm	D_3 mm	D_5 mm	l_1 mm	g	e mm	t mm	y mm	b mm
BT 30	31,75	38	46	48,4	M 12	22	16,3	2	16,1
BT 40	44,45	53	63	65,4	M 16	27	22,5	2	16,1
BT 50	69,85	85	100	101,8	M 24	38	35,3	3,2	25,7

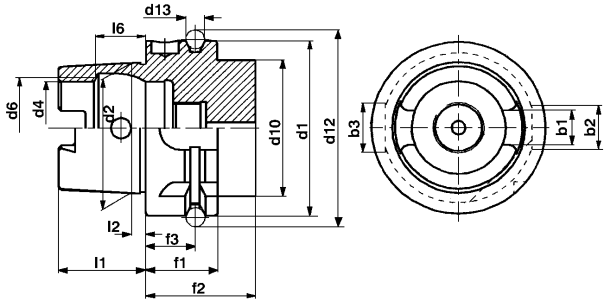
Technical Data for Polygon shank adapters



Shank size	d_1 mm	$d_3^{\pm 0,05}$ mm	$l_2^{\pm 0,1}$ mm	l_3 mm	$l_{11}^{\pm 0,1}$ mm	l_{16} mm	D_m mm
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Technical Data for HSK Adapters

HSK DIN 69893 A+C



Maximum rpm recommended for HSK adapters:

HSK-A 32 to 50.000 $^{1}/_{min.}$
HSK-A 40 to 42.000 $^{1}/_{min.}$
HSK-A 50 to 30.000 $^{1}/_{min.}$
HSK-A 63 to 25.000 $^{1}/_{min.}$
HSK-A 100 to 16.000 $^{1}/_{min.}$

	b_1 mm	b_2 mm	b_3 mm	d_1 mm	d_2 mm	d_4 mm	d_6 mm	d_{10} mm	d_{12} mm	d_{13} mm	f_1 mm	f_2 mm	f_3 mm	l_1 mm	l_2 mm	l_6 mm
HSK 32	7,05	7	9	32	24	17	19	26	37	4	20	35	16	16	3,2	8,92
HSK 40	8,05	9	11	40	30	21	23	34	45	4	20	35	16	20	4	11,42
HSK 50	10,54	12	14	50	38	26	29	42	59,3	7	26	42	18	25	5	14,13
HSK 63	12,54	16	18	63	48	34	37	53	72,3	7	26	42	18	32	6,3	18,13
HSK 100	20,02	20	22	100	75	53	58	88	109,75	7	29	45	20	50	10	28,56

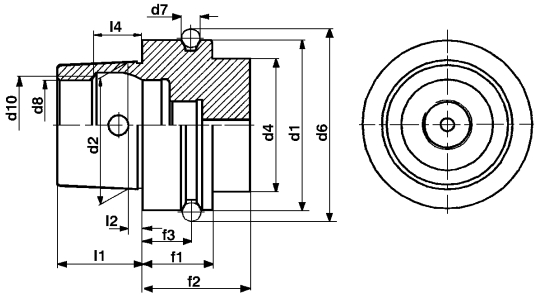
DIN 69893 Form A

- Applied for machining centres, milling and special machines with automatic tool change
- **Central axial coolant supply via the coolant pipe**
- Torque transmission via 2 driving grooves at the taper end
- 2 grooves on the flange for the tool magazine, positioning notch, bore for data storage medium DIN 69873 in the flange

DIN 69893 Form C

- Applied for machine spindles without automatic tool change as well as tool extensions and reducers
- **Central axial coolant supply via the coolant pipe**
- Torque transmission via 2 driving grooves at the taper end

HSK DIN 69893 E



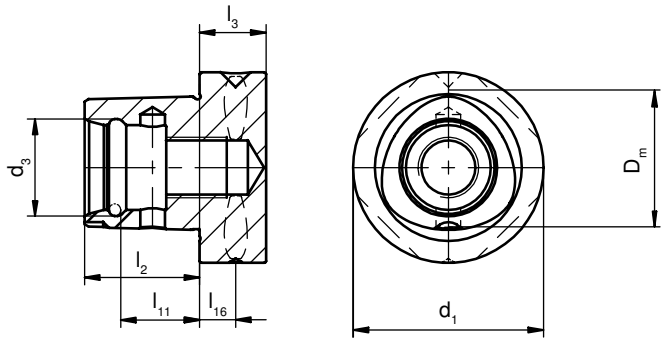
	d_1 mm	d_2 mm	d_4 mm	d_6 mm	d_7 mm	d_8 mm	d_{10} mm	f_1 mm	f_2 mm	f_3 mm	l_1 mm	l_2 mm	l_4 mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

DIN 69893 Form E

- Applied for high rpm (HSC) for high speed spindles with automatic tool change
- Rotation symmetrical, without driving grooves
- Torque transmission through friction
- **Possibility of central coolant supply via coolant pipe**

Technical Information for Polygon Shank Adapters

To dimensions of ISO 26623-1



Shank size	d_1	d_3 ± 0,05	l_2 ± 0,1	l_3	l_{11} ± 0,1	l_{16}	D_m
32	32	16,5	19	15	13,5	9	22
40	40	20	24	20	17,5	12	28
50	50	24	30	20	22	12	35
63	63	32	38	22	26	12	44
80	80	38	48	30	34	12	55

Advantages of the PSC interface

The repeatability of the PSC shank is ± 2 microns



The tapered polygon in conjunction with the tight tolerance provides backlash-free centering also acts as pull back. The PSC cone has very high rigidity and bending strength. The main advantages of this interface are the transmittable torque stability, the resistance against radial forces acting on the tool and the exact center height. This means high feed rates can be achieved on large material cross sections. The PSC interface is ideally suited for all machining operations such as drilling, turning and milling.

High Pressure Chuck

HPC milling with optimum damping

High pressure clamping with optimum damping properties was the aim in the development of the high-pressure chuck. Here, all applications over a continuous operation test were covered over thousands of machining operations. In addition, extensive continuous pressure and positive pressure tests, and vibration measurements were carried out directly on the machine spindle.

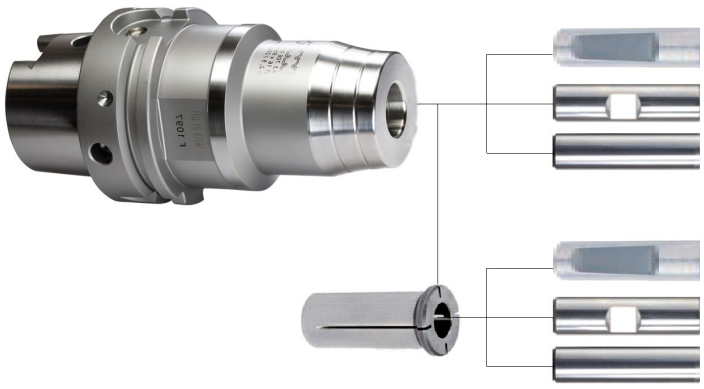
The main technical characteristics of the high-pressure Milling Chuck are

- high damping properties
- Spindle-friendly
- maximum stability and strength
- high holding force and torque transmission
- 3 µm radial run-out
- Balanced to G2,5 at $n_{max.}$ 25.000 1/min.
- short tool change time
- no additional peripherals required
- MMS suitable
- maintenance free



Clamping of shanks with flats possible with or without reduction sleeve

HSS shank DIN1835 and
Solid Carbide shank DIN6535



The main applications for Milling Chuck

- HPC Milling
- HSC Milling
- Hard Machining
- Drilling
- Reaming

Clamping Force Comparison with Different Systems

This comparison shows the higher retention forces of the Milling Chuck. Especially with larger diameters high holding force is important when HPC machining so that the tool is not pulled out of the holder.
Milling Chuck now offers this process reliability.

Key Benefits

- Increased Process Security
- Longer Tool Life
- Improved Surface Quality
- Extended spindle life

Shank diameter in mm	16	18	20	25	32
Holder Type	Maximum transmissible torque with shank tolerance h6 in Nm				
Shrink fit adapter	200	290	450	530	700
Standard hydraulic chucks	160	200	330	400	650
High Pressure Milling Chuck	280 - 380	360 - 450	550 - 650	650 - 750	800 - 890

Minimum clamping depth the same as for hydraulic chucks

Transmittable torques and static clamping torques

Static clamping moments of the CentroP collet chuck with different torque values measured at the tightening nut

Clamping diameter (d1 h6)	2	3	3,5	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	mm
ER 16 torque moment 30 Nm	2	3,5	5																						Nm
ER 16 torque moment 50 Nm				12	20	30	45	60	72	80															Nm
ER 25 torque moment 40 Nm				10	20	40																			Nm
ER 25 torque moment 75 Nm							62	75	85	95															Nm
ER 25 torque moment 90 Nm											122	145	160	175	190	200									Nm
ER 32 torque moment 60 Nm				20	30	40																			Nm
ER 32 torque moment 120 Nm							75	90	110	120	135	150	160	180	190										Nm
ER 32 torque moment 140 Nm																220	240	260	280	300					Nm
ER 40 torque moment 70 Nm				60	75	90	100																		Nm
ER 40 torque moment 110 Nm								110	125	140	150														Nm
ER 40 torque moment 150 Nm												200	220	240	260	300	350								Nm
ER 40 torque moment 200 Nm																			420	440	460	480	515	530	Nm
OZ 462 E torque moment 200 Nm				10	35	55	75	95	120	140	160	185	205	230	250	270	295	315	340						Nm

Permissible transmitted torque (Md) for Hydraulic Chucks



For direct clamping

Clamping diameter (d1 h6)	6	8	10	12	14	16	18	20	25	32	mm
Md with shank at minimum size	20	30	47	80	100	160	200	330	400	650	Nm
Md with shank at maximum size	30	45	85	140	160	230	270	400	470	730	Nm

For clamping with reduction Ø 32 mm

Clamping diameter (d1 h6)	6	8	10	12	14	16	18	20	25	mm
Md with shank at minimum size	30	45	60	120	120	180	220	250	330	Nm
Md with shank at maximum size	45	65	110	170	170	230	300	320	440	Nm

For clamping with reduction Ø 20 mm

Clamping diameter (d1 h6)	3	4	5	6	8	10	12	14	16	mm
Md with shank at minimum size	6	9	16	30	55	90	120	135	190	Nm
Md with shank at maximum size	10	12	22	40	75	120	150	170	260	Nm

For clamping with reduction Ø 12 mm

Clamping diameter (d1 h6)	3	4	5	6	8	mm
Md with shank at minimum size	3	4	7	12	18	Nm
Md with shank at maximum size	4	8	12	20	26	Nm

Minimum shank clamping depths for hydraulic chucks

Shank type & size	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	27	27	31	36	36	39	39	41	47	51	mm

Permissible transmitted torque (Md) for high pressure chuck



Minimum shank clamping depths for high pressure chuck

Shank type & size	16	18	20	25	32	mm
Minimum clamping depth	39	39	41	47	51	mm

For direct clamping

Clamping diameter (d1 h6)	16	18	20	25	32	mm
Md with shank at minimum size	280	360	550	650	800	Nm
Md with shank at maximum size	380	450	650	750	890	Nm

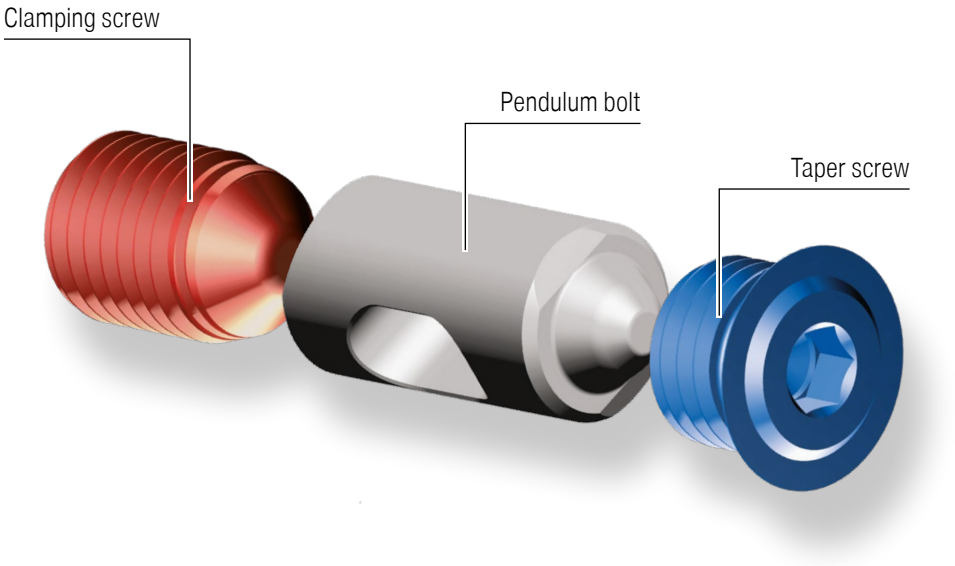
Minimum permissible shank torques and clamping depths for shrink fit holders

Shank type & size	3	4	5	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	12	16	20	26	26	31	37	37	40	40	42	48	52	mm
permissible torque moment	4	11	17	24	45	82	145	190	200	290	450	530	700	Nm

Technical information – ABS

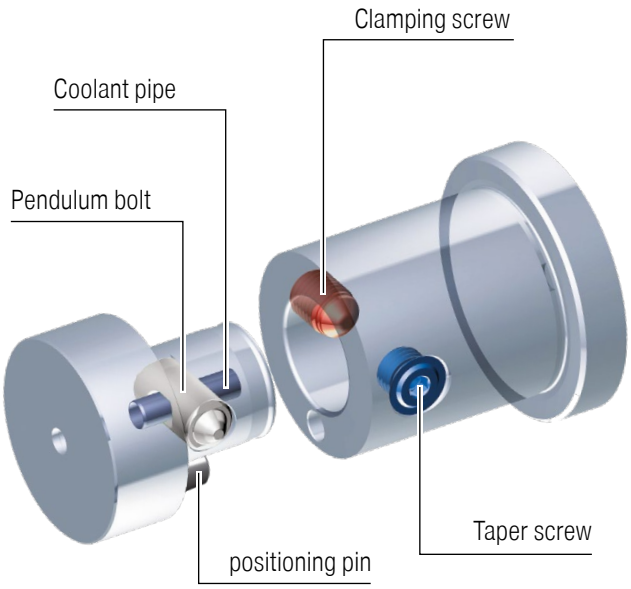
Even better connected

The extension of the proven ABS system complements the existing portfolio and continues to meet the high demands on accuracy. The adapter is an important element in tooling systems between the cutting tool and the machine. It must be able to reliably transmit the cutting forces that are produced. Adapters also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.

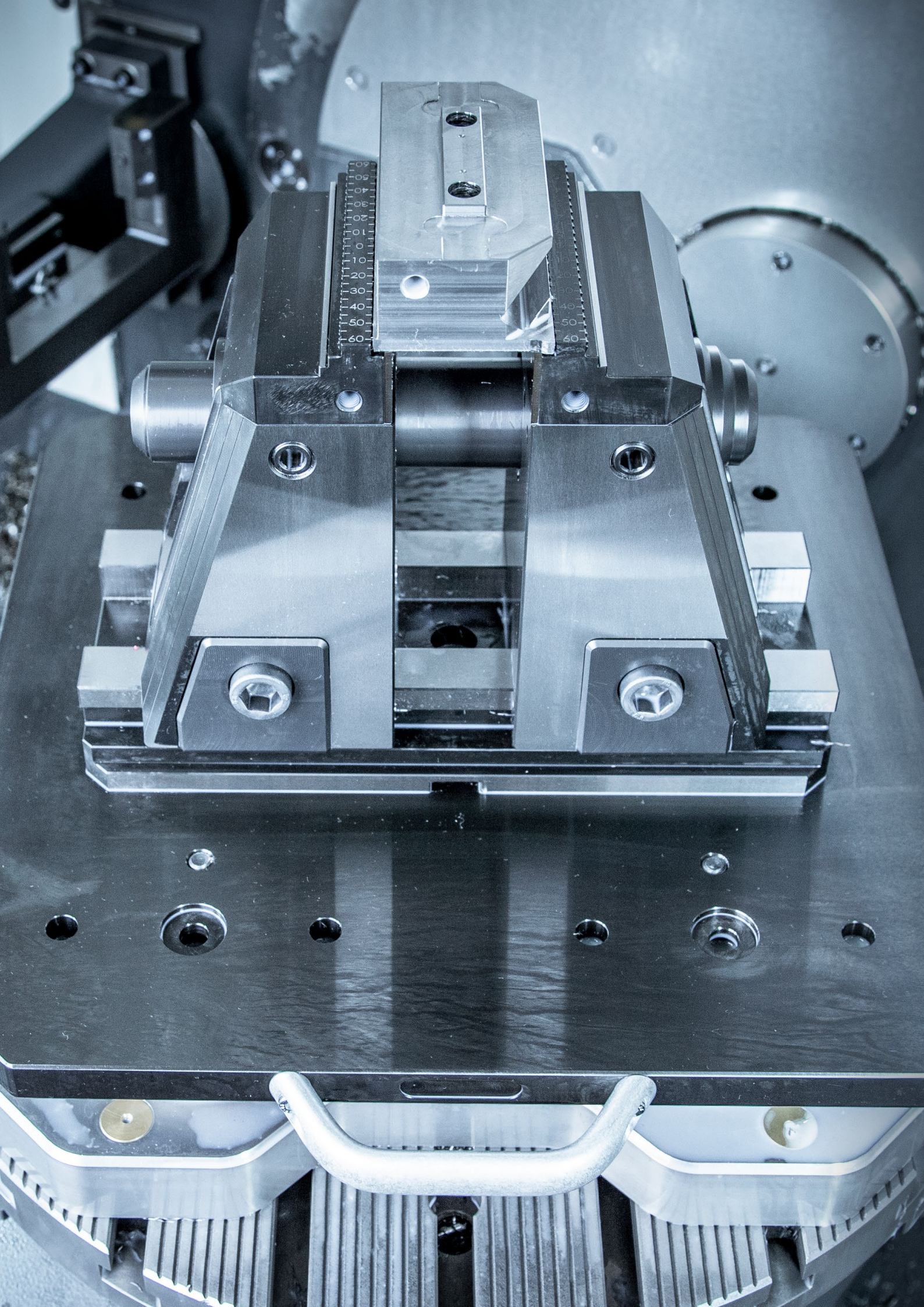


Advantages

- Improved force transmission
- Optimum machining result
- Higher cutting values possible
- Less noise pollution in production
- System fully compatible upwards and downwards
- Suitable for ABS, ABS N and ABS T



Spare parts ABS	Taper screw	Pendulum bolt	Clamping screw	Range 1	Coolant pipe	positioning pin	Range 2	Sealing ring
25	84 950 27000	84 950 26000	84 950 26800	84 950 99700	84 950 24400	84 950 23600	84 950 98900	84 950 30400
32	84 950 27100	84 950 26100	62 950 13989	84 950 99600	84 950 24500	84 950 23700	84 950 98800	84 950 30500
40	84 950 27200	84 950 26200	84 950 26900	84 950 99500	84 950 24600	84 950 23800	84 950 98700	84 950 30600
50	84 950 20400	84 950 20000	84 950 20300	84 950 99800	84 950 20100	84 950 20200	84 950 99900	84 950 30700
63	84 950 27300	84 950 26300	84 950 25500	84 950 99400	84 950 24700	84 950 23900	84 950 98600	84 950 30800
80	84 950 25100	84 950 26400	84 950 25600	84 950 99300	84 950 24800	84 950 24000	84 950 98500	84 950 30900
100	84 950 25200	84 950 26500	84 950 25700	84 950 99200	84 950 24900	84 950 24100	84 950 98400	84 950 31000
125	84 950 25300	84 950 26600	84 950 25800	84 950 99100	84 950 25000	84 950 24200	84 950 98300	
160	84 950 25400	84 950 26700	84 950 25900	84 950 99000	84 950 23500	84 950 24300	84 950 98200	



New products for clamping technology

NEW H5G-Z and H5G-Z-S single vice



→ Page 22+23

H5G -Z | H5G -Z-S

New overall lengths for the H5G-Z and H5G-Z-S.

NEW X5G-Z single vice

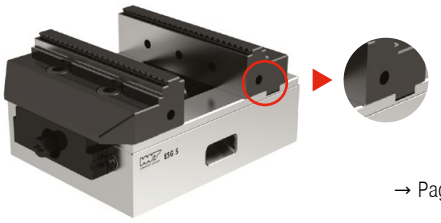


→ Page 32

X5G -Z | X5G -Z-S

All the advantages that ensure optimum and simple 5- and 6-sided machining combined in a single clamping device.

NEW Single vice ESG 5



→ Page 51

ESG 5

New version of the sealed centric vice ZSG 4 as single vice.

NEW Centric Vice ZSG 4



→ Page 74–76

ZSG 4

New overall lengths for the ZSG 4.

Solid drilling and bore machining
1 HSS drilling
2 Solid carbide drilling
3 Indexable insert drilling
4 Reaming and Countersinking
5 Spindle Tooling

Threading
6 Taps and thread formers
7 Circular and Thread Milling
8 Thread turning

Turning
9 Turning Tools
10 Multifunctional Tools – EcoCut and FreeTurn
11 Grooving Tools
12 Miniature turning tools

Milling
13 HSS Milling Cutters
14 Solid Carbide milling cutters
15 Milling tools with indexable inserts

Catalogue – Clamping technology
16 Adaptors and Accessories
17 Workpiece clamping
18 Material examples and article no. Index

Table of contents

The new X5G-Z	2
Clamping systems overview	3
Toolfinder – Vices	4+5
Toolfinder – Clamping variants and clamping towers	6
Product programme	8–149
General top jaws overview	134–140
Workpiece supports overview	141–144
Accessories General Overview	145+146
Clamping levers overview	147
Screws Overview	148+149

WNT \ Performance

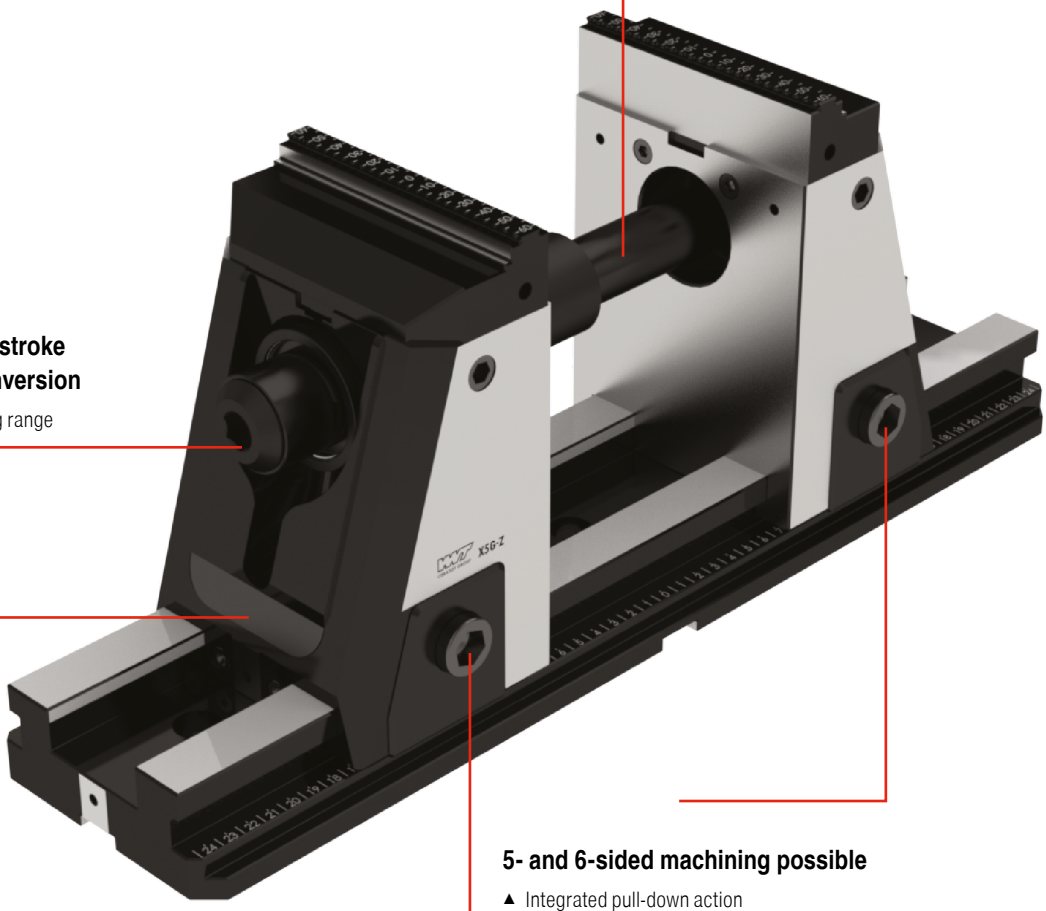
Premium quality tools for high performance.

The premium quality tools from the **WNT Performance** product line have been designed for specific applications and are distinguished by their outstanding performance. If you make high demands on the performance of your production and want to achieve the very best results, we recommend the Premium tools in this product line.

The new X5G-Z

Simple to extend up to a clamping range of 687 mm

▲ Fully encapsulated, mechanical spindle



130 mm basic clamping stroke without the need for conversion

▲ Quick adjustment of clamping range

Optimised against vibrations

▲ Integrated, internal elastomer damping

5- and 6-sided machining possible

▲ Integrated pull-down action
▲ No force transmission across the seating surface

Clamping systems overview

Single clamping vice

- Power-assisted systems NCG, HDG and H5G
- Fixed jaws as reference
- High repeatability
- Very good angular accuracy



High precision and force amplification

Centric vice

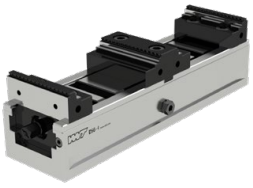
- symmetrical clamping
- very good accessibility for 5-sided machining
- part datum always centered
- high repeatability



High process security with encapsulated system

Multiple vice

- Faster set up times
- multifunctional use
- optimum utilization of the machine table
- high repeatability



Increased machine uptime

Clamping variants

- Zero point clamping system
- Zero point clamping system grid plate



Reduction in setup times

Clamping Towers

- Double sided clamping tower
- Triangular clamping tower
- Cruciform clamping tower
- Cube clamping tower

A variety of clamping towers can be found in our online shop at cuttingtools.ceratizit.com



Automation made easy

17

Toolfinder clamping systems – Vices

	Type		Description	3 axis	5 axis
Single clamping vice	NCG		▲ 160° quick clamping ▲ rapid installation and removal of the spindle assembly ▲ quick span adjustment	✓	
	NCG 5A		▲ 160° quick clamping ▲ for 5 axis machining ▲ quick span adjustment	✓	✓
	H5G		▲ fast handle clamping ▲ 5 axis high power vice ▲ 100% encapsulated	✓	✓
	H5G -Z		▲ Fast handle clamping ▲ 5-axis high power vice ▲ 100% encapsulated ▲ With movable fixed jaw	✓	✓
	X5G -Z		▲ 100% encapsulated ▲ Optimum accessibility ▲ 5- and 6-sided machining possible ▲ Fast jaw changeover without tools	✓	✓
	ESG 4		▲ 100 % encapsulated ▲ Precision base body ▲ High clamping force ▲ Large clamping range	✓	✓
	ESG 5		▲ New version of the sealed centric vice ZSG 4 as single vice ▲ Identical dimensions and function as the ZSG 4	✓	✓
	ESG mini		▲ 100% encapsulated ▲ Compact and precise ▲ Fixed zero point ▲ Hydraulic versions also available	✓	✓
	HDG 2		▲ mechanical power transmission ▲ clamping force with only one turn of the handle ▲ infinitely variable clamping force setting	✓	
Centric vice	ZSG 4		▲ ball bearing, backlash free spindle ▲ high precision, clamping force and process security ▲ repeatability ±0.01 mm	✓	✓
Multiple vice	DSG 4		▲ Quick assembly and disassembly ▲ Flexible clamping system ▲ Can be converted into single vice	✓	✓
	MSG 2		▲ internal serration ▲ variable use	✓	✓

Jaw width in mm	Body length in mm	max. clamping range in mm	cubic workpieces	assymetrical workpieces	round workpieces	max. clamping force in kN	Page No.
100 125 160	305 390 530	245 343 506	✓	✓	✓	30 40 40	8–18
100 125	305 390	199 269	✓		✓	18 24	11–18
125	300	274	✓	✓	✓	40	19–29
125	430 500 630	396 466 596	✓	✓	✓	40	23–29
125	330 430 500 630 800	80-210 80-310 80-380 80-510 80-680	✓	✓	✓	40	30–39
80 125 160	214 362 480	192 308 324	✓	✓	✓	25 40 50	40–48
80 125 160	130+190 160+235+300 280+480	63-171 84-281 125-448	✓	✓	✓	35	49–55
40 65 100	132 180 240	122 174 243	✓	✓	✓	12 20 40	56–66
100 125 160	342 400 544	278 338 470	✓		✓	30 40 60	67–70
80 125 160	130+190 160+235+300 280+480	121–185 163–303 134–465	✓	✓	✓	25 35 50	71–86
80 125	300 320+390+460 530+600+670+740	122 114+149+184 219+254+289+324	✓	✓	✓	25 40	87–95
65 90	220–650 400–650	538 538	✓		✓	25–50	96–103

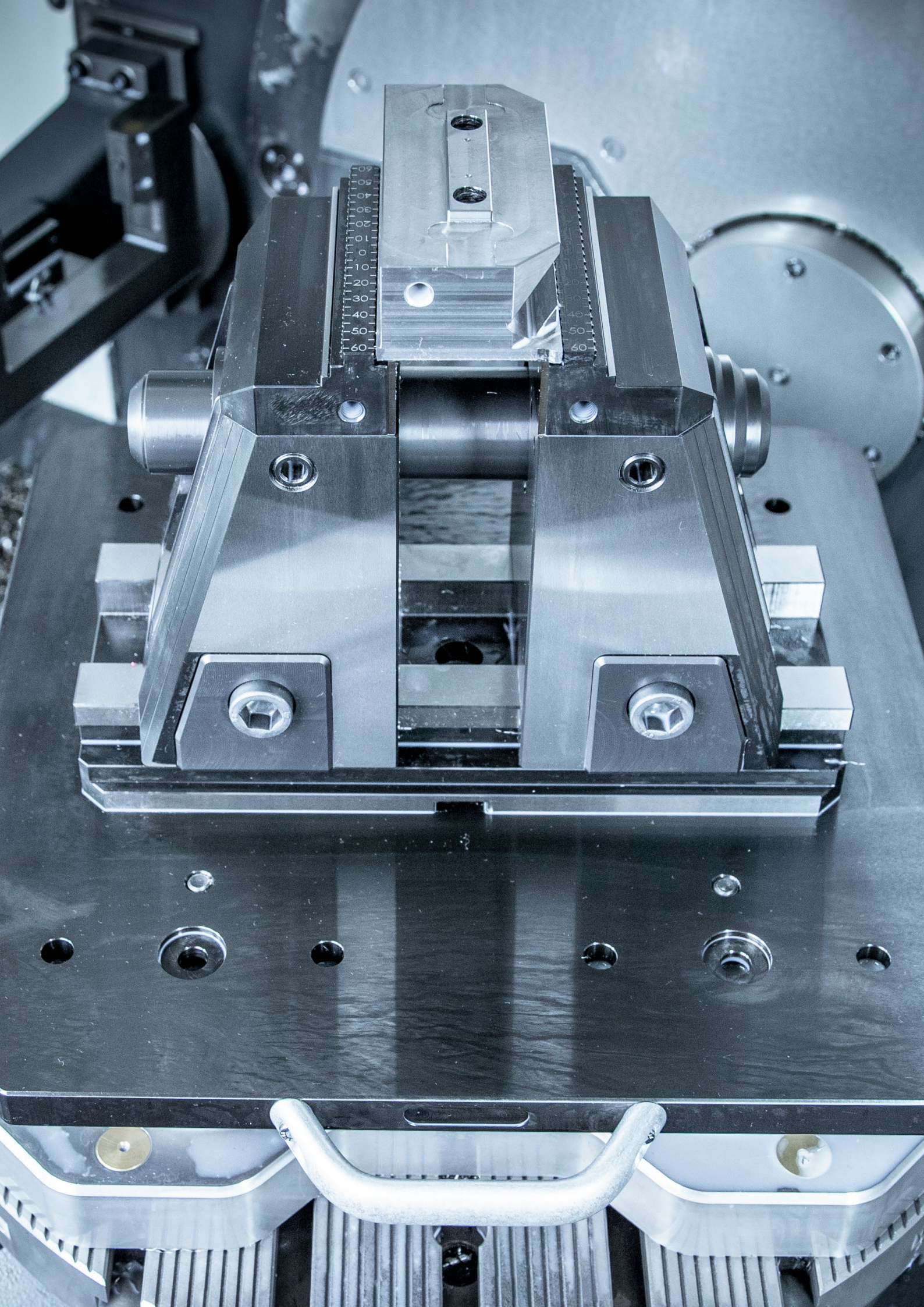
Toolfinder clamping systems – Clamping variants and clamping towers

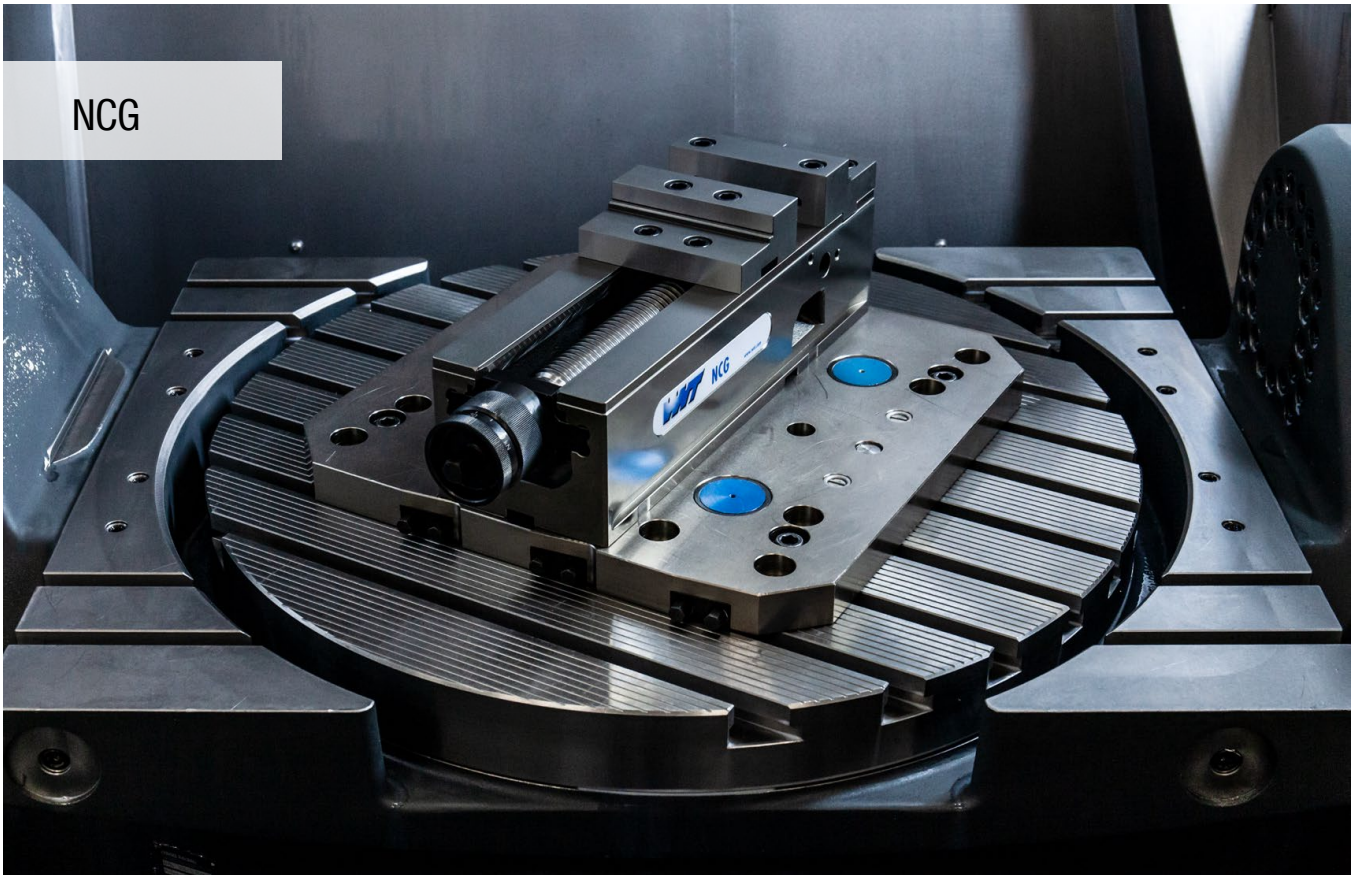
	Type		mechanical	pneumatic	Comments	Page No.
Zero point clamping system grid plate	**MNG**		✓		All round plate for all machine tables	107–121
Multi-adapter pallets	**PNG**			✓	Process security thanks to self-locking mechanism	122–133
Clamping Towers			✓		Increased machine uptime	

Manual machine vice

	Type		mechanical	pneumatic	Comments	Page No.
Drilling machine vice	**HSG**		✓		fast jaw adjustment, compact and precise	104–106

This article can be found in our online shop at cuttingtools.ceratizit.com





Systematic clamping

Modular machine vice as system with clamping under tension. Unique, patented fast handle clamping with mechanical power assist and minimum setup times.

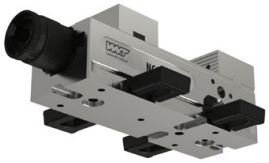
Your benefits:

- Quick adjustment using a crank handle
- Quick positioning with MNG on the machine table without an intermediate pallet
- Clamping force can be continuously adjusted 4 – 40 kN
- 160° quick clamping
- Quick and easy jaw change with 4 screws
- Easy cleaning thanks to rapid disassembly of the entire spindle unit
- Extensive modular jaw range

Clamping/aligning:



Clamping with two dowel screws
dia. 12_{f7} / M12 (NCG 100) **Article no. 80 890 313** or
dia. 16_{g5} / M16 (NCG 125 / 160) **Article no. 80 890 314**



Alignment through 20^{H7} precision slot nuts in the base body and clamping with clamping claws



Alignment and clamping with MNG zero point clamping system (2 – 3 mounting bolts)

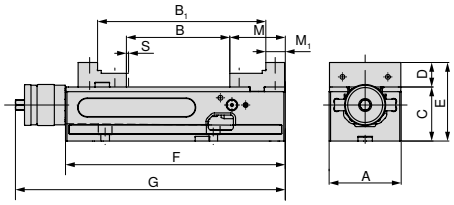
NC-quick clamping vice with combi reversible jaw plus

▲ Thanks to additional threads, top jaws with heights of 18 mm and 40 mm can be used.

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 combi reversible jaw plus, clamping lever, without clamping screws.







NEW

A mm	B mm	B_1 mm	C -0.02 mm	D mm	E mm	F mm	G mm	M mm	M_1 mm	S mm	MXC kN	WT kg	80 890 ... EUR Y4	
125	0 - 212	96 - 307	100	39	139	390	457	89	39	3	4 - 40	34	2.774,00	12500

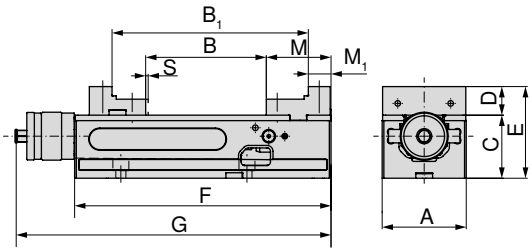
NC-quick clamping vice with combination jaw

▲ Fast 160° handle clamping
▲ Rapid installation and removal of the spindle assembly
▲ S = powerstroke

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 combi reversible jaws (one side stepped, one side smooth), clamping lever, without clamping screws.







A mm	B mm	B_1 mm	C -0.02 mm	D mm	E mm	F mm	G mm	M mm	M_1 mm	S mm	MXC kN	WT kg	80 890 ... EUR Y4	
100	0 - 155	91 - 245	75	34	109	305	374	77	27	2,5	4 - 30	19	2.374,00	602
125	0 - 212	96 - 307	100	39	139	390	457	89	39	3	4 - 40	34	2.748,00	627
160	0 - 314	113 - 426	115	49	164	530	600	108	52	3	4 - 40	68	3.608,00	662

Vice guide

Underside Dimensions	12	System accessories	14–18
MNG-/PNG zero point clamping system	107–126	General accessories	134–149

17

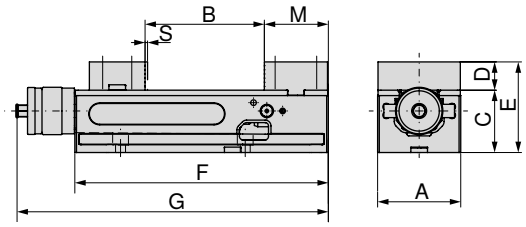
NC-quick clamping vice with standard jaw

- Fast 160° handle clamping
- Rapid installation and removal of the spindle assembly
- S = powerstroke

Scope of supply:

NC-quick vice, including 4 clamping claws, 2 standard reversible jaws (one side smooth, one side serrated), clamping lever, without clamping screws.

NCG





A mm	B mm	C -0.02 mm	D mm	E mm	F mm	G mm	M mm	S mm	MXC kN	WT kg	80 890 ... EUR Y4	
100	0 - 155	75	34	109	305	374	77	2,5	4 - 30	19,5	2.306,00	600
125	0 - 212	100	39	139	390	457	89	3	4 - 40	35,0	2.681,00	625
160	0 - 314	115	49	164	530	600	108	3	4 - 40	70,0	3.540,00	660

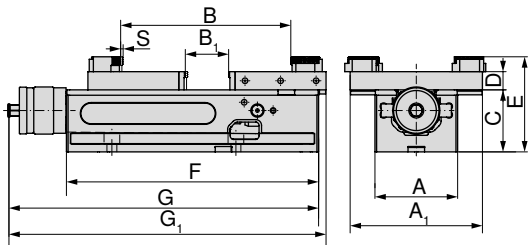
NC-quick clamping vice with adapter and pendulum jaws

- fast 160° lever clamping
- rapid installation and removal of the spindle assembly
- S = powerstroke
- simple raw part clamping
- free positioning of the 6-face reversible jaw which can be found in the accessories

Scope of supply:

NC-quick vice (type NCG base body) with 1 fixed adapter plate and 1 pendulum jaw, clamping lever, 4 clamping claws, without 6-face indexable jaws

NCG





A mm	A1 mm	B mm	B1 mm	C -0.02 mm	D mm	E mm	F mm	G mm	G1 mm	S mm	MXC kN	WT kg	80 890 ... EUR Y4	
100	160	10 - 230	0 - 77	75	22	115	305	374	383	2,5	4 - 30	19	2.470,00	636
125	192	16 - 343	0 - 152	100	22	140	390	457	478	3	4 - 40	34	2.875,00	637
160	256	15 - 506	0 - 237	115	22	155	530	600	631	3	4 - 40	68	3.793,00	638

Vice guide

Underside Dimensions	12	System accessories	14–18
MNG-/PNG zero point clamping system	107–126	General accessories	134–149

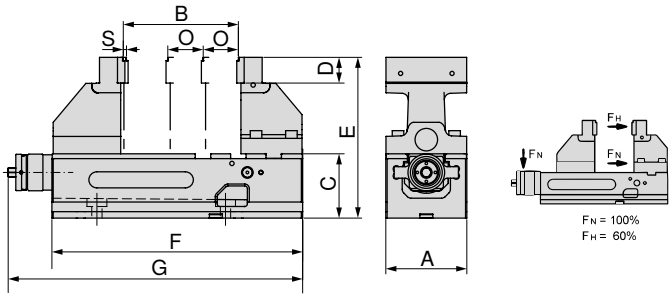
NC quick vice 5A with high support jaws

- Fast 160° handle clamping
- Rapid installation and removal of the spindle assembly
- S = powerstroke
- Ideally suited to 5-axis machining due to optimum accessibility
- Reversible jaws for clamping range extension
- 100 mm base body has 2 slots for moving the fixed jaw
- 125 mm base body has 3 slots for moving the fixed jaw

Scope of supply:

NC quick clamping vice incl. 2 high base jaws, 2 'grip' stepped jaws 5 mm, 1 clamping lever, 4 clamping claws, without clamping screws.

NCG 5A





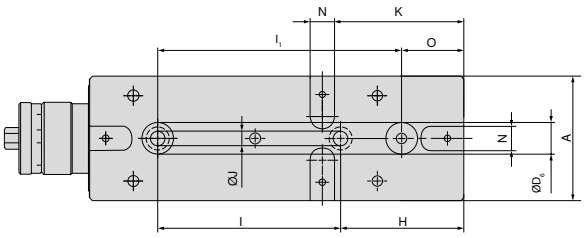
A mm	B mm	C mm	D mm	E mm	F mm	G mm	O mm	S mm	MXC kN	WT kg	80 890 ... EUR Y4	
100	6 - 127	75	35	200	305	374	50	2,5	4 - 18 (30)	21,5	2.873,00	**605**
125	6 - 179	100	40	250	390	457	55	3	4 - 24 (40)	42,0	3.315,00	**635**

Vice guide

Underside Dimensions	12	Structural dimension tables for the different jaws	13
System accessories	14–18	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

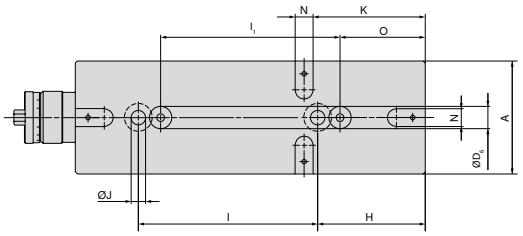
NCG underside dimensions

Base width 100 mm



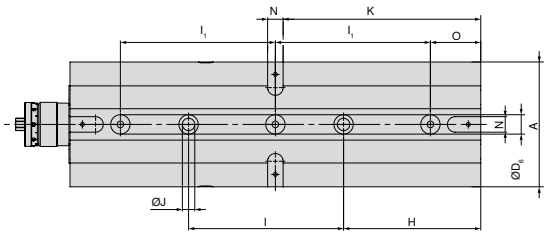
A mm	H mm	$l_{\pm 0,015}$ mm	J_{F7} mm	K mm	N_{H7} mm	O mm	$l_{1\ \pm 0,015}$ mm	$D_{6\ H7}$ mm
100	100	150	12	105	20	50	200	25

Base width 125 mm



A mm	H mm	$l_{\pm 0,015}$ mm	J_{F7} mm	K mm	N_{H7} mm	O mm	$l_{1\ \pm 0,015}$ mm	$D_{6\ H7}$ mm
125	120	200	16	125	20	95	200	25

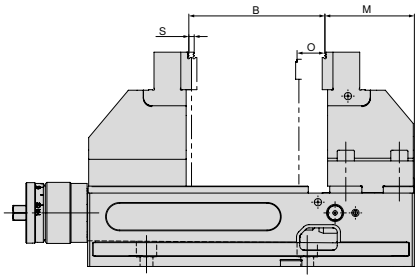
Base width 160 mm



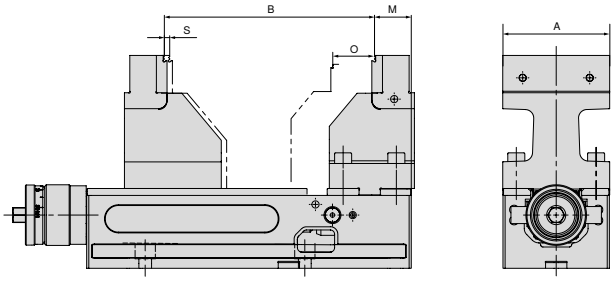
A mm	H mm	$l_{\pm 0,015}$ mm	J_{F7} mm	K mm	N_{H7} mm	O mm	$l_{1\ \pm 0,015}$ mm	$D_{6\ H7}$ mm
160	177	200	16	255	20	65	200	25

NCG 5A structural dimension table for different jaw positions

NCG 5A 100 mm

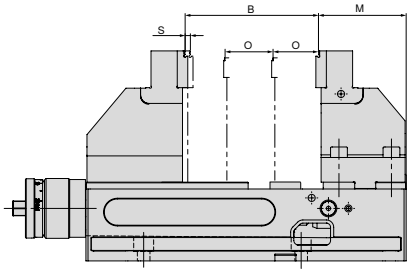


A mm	B mm	M mm	O mm	S mm
100	6 - 127	84,5	50	2,5

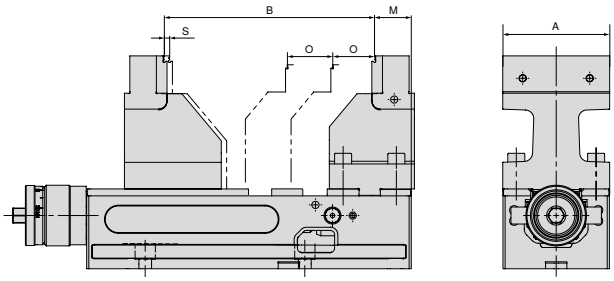


A mm	B mm	M mm	O mm	S mm
100	97 - 199	34,5	50	2,5

NCG 5A 125 mm



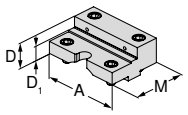
A mm	B mm	M mm	O mm	S mm
125	6 - 182	91	55	3



A mm	B mm	M mm	O mm	S mm
125	117 - 269	36	55	3

System jaws overview

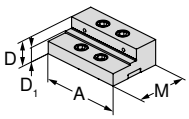
Combi reversible jaw plus, fixed



- For the extension of the clamping range
- Jaws hardened
- includes fixing bolts
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association									
							NEW										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125	39,8	22	88		337,00	80 890 35100	●									

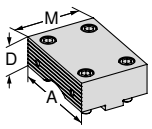
Combi reversible jaw plus, movable



- For the extension of the clamping range
- Jaws hardened
- includes fixing bolts
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association									
							NEW										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125	39,8	22	82		337,00	80 890 35200	●									

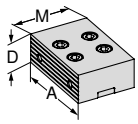
Standard reversible jaw, fixed



- 1 side smooth, 1 side grooved
- includes fixing bolts
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	100	34		76		220,00	80 890 323	●									
	125	39		88		289,00	80 890 324	●									
	160	49		108		364,00	80 890 325	●									

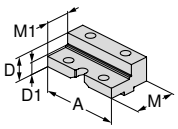
Standard reversible jaw, movable



- 1 side smooth, 1 side grooved
- includes fixing bolts
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	100	34		67		220,00	80 890 327	●									
	125	39		82		289,00	80 890 328	●									
	160	49		108		364,00	80 890 329	●									

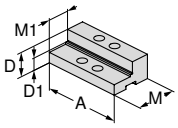
Combi reversible jaw, fixed



- For the extension of the clamping range
- Jaws hardened
- includes fixing bolts
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	100	34	23	76	50	254,00	80 890 343	●					●				
	125	39	25	88	50	324,00	80 890 344	●									
	160	49	28	108	56	398,00	80 890 342	●									

Combi reversible jaw, movable

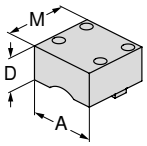


- For the extension of the clamping range
- Jaws hardened
- includes fixing bolts
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	100	34	23	67	40	254,00	80 890 347	●					●				
	125	39	25	82	45	324,00	80 890 348	●									
	160	49	28	108	56	398,00	80 890 346	●									

System jaws overview

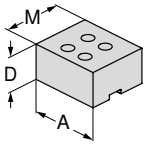
Soft jaw, steel, fixed



- For producing shaped jaws (hardenable)
- Without fixing screws
- Price per piece

Description	A	A_1	D	E	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		50		95	120,90	80 890 763	●										
125		50		110	126,20	80 890 764	●										

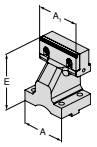
Soft jaw, steel, movable



- For producing shaped jaws (hardenable)
- Without fixing screws
- Price per piece

Description	A	A_1	D	E	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		50		85	121,30	80 890 767	●										
125		50		100	127,40	80 890 768	●										

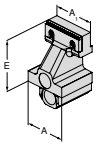
5A carrier jaw, fixed



- Price per piece
- With stepped grip jaw, 5 mm

Description	A	A_1	D	E	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	100		125		496,00	80 890 364	●										
125	125		150		596,00	80 890 366	●										

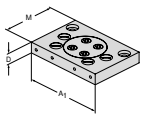
5A carrier jaw, movable



- Price per piece
- With stepped grip jaw, 5 mm

Description	A	A_1	D	E	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	100		125		528,00	80 890 365	●										
125	125		150		653,00	80 890 367	●										

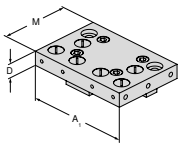
Pendulum jaw, movable



- for holding 6-way reversible jaws
- price per piece
- incl. 6 cover screws (with A = 100 mm, 4 pieces)

Description	A	A_1	D	E	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	160	22		110	358,00	80 890 322	●						●				
125	192	22		130	422,00	80 890 338	●										
160	256	22		170	521,00	80 890 340	●										

Fixed adaptor jaw

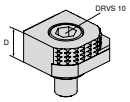


- for holding 6-way reversible jaws
- price per piece
- incl. 6 cover screws

Description	A	A_1	D	E	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	160	22		110	248,00	80 890 321	●										
125	192	22		130	355,00	80 890 337	●										
160	256	22		170	466,00	80 890 339	●										

System jaws overview

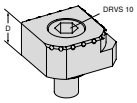
6 function indexable jaw



- 1 = Smooth, carbide coated
- 2 = Grip with 3 mm step
- 3 = Grip with 8 mm step
- 4 = Grip with 18 mm step
- 5 = Rough grip with 8 mm step
- 6 = Round grip
- M_{max} = 60 Nm
- Including fixation screws

Description	A	A_1	D	M	M_1	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
			18			70,00	80 892 246	●	●	●	●		●		●	●	

6x indexable jaw, carbide grip



- 1 = Smooth
- 2 = Carbide grip
- 3 = Carbide grip with 3 mm step
- 4 = Carbide grip with 8 mm step
- 5 = Round carbide grip with 8 mm step
- 6 = Round carbide grip
- Incl. fixing screws

Description	A	A_1	D	M	M_1	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							NEW										
						EUR	Y4										
			18			100,00	80 890 35300	●	●	●	●		●		●	●	

System accessories overview

Spindle body

▲ For the conversion of the NCG 5AC into an NCG vice

NCG | NCG 5A



for width mm	80 890 ... EUR Y4	
100	150,00	385
125	176,00	387
160	200,00	389

Spring Loaded Locator

NCG

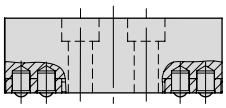


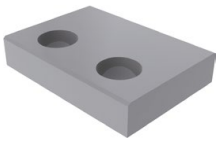
for width mm	80 890 ... EUR Y4	
100/125	2,00	008
160	2,00	014

Protection plate

▲ For standard moving and combi reversible jaw

NCG

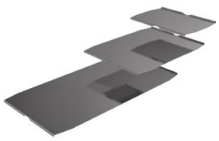




for width mm	80 890 ... EUR Y4	
100	2,00	010
125	3,00	012
160	19,00	013

Cover plate set

NCG | NCG 5AC



for width mm	80 890 ... EUR Y4	
100	24,00	442
125	25,00	443
160	29,00	444

Drawbar extension

▲ For connecting 2 NCG vices

NCG | NCG 5A



for width mm	B mm	80 890 ... EUR Y4	
100	305 - 460	284,00	460
125	390 - 602	312,00	470

Carrying handle

▲ for simple and safe transporting

Scope of supply:
1 piece Hand grip including fixing bolts

NCG | NCG 5AC



for width mm	80 890 ... EUR Y4	
100/125	11,50	685

System accessories overview

Clamping lever

▲ including control accessories

NCG | H5G | NCG 5A



for width mm	DRVS mm	80 890 ... EUR Y4	
100/125/160	14	114,00	501

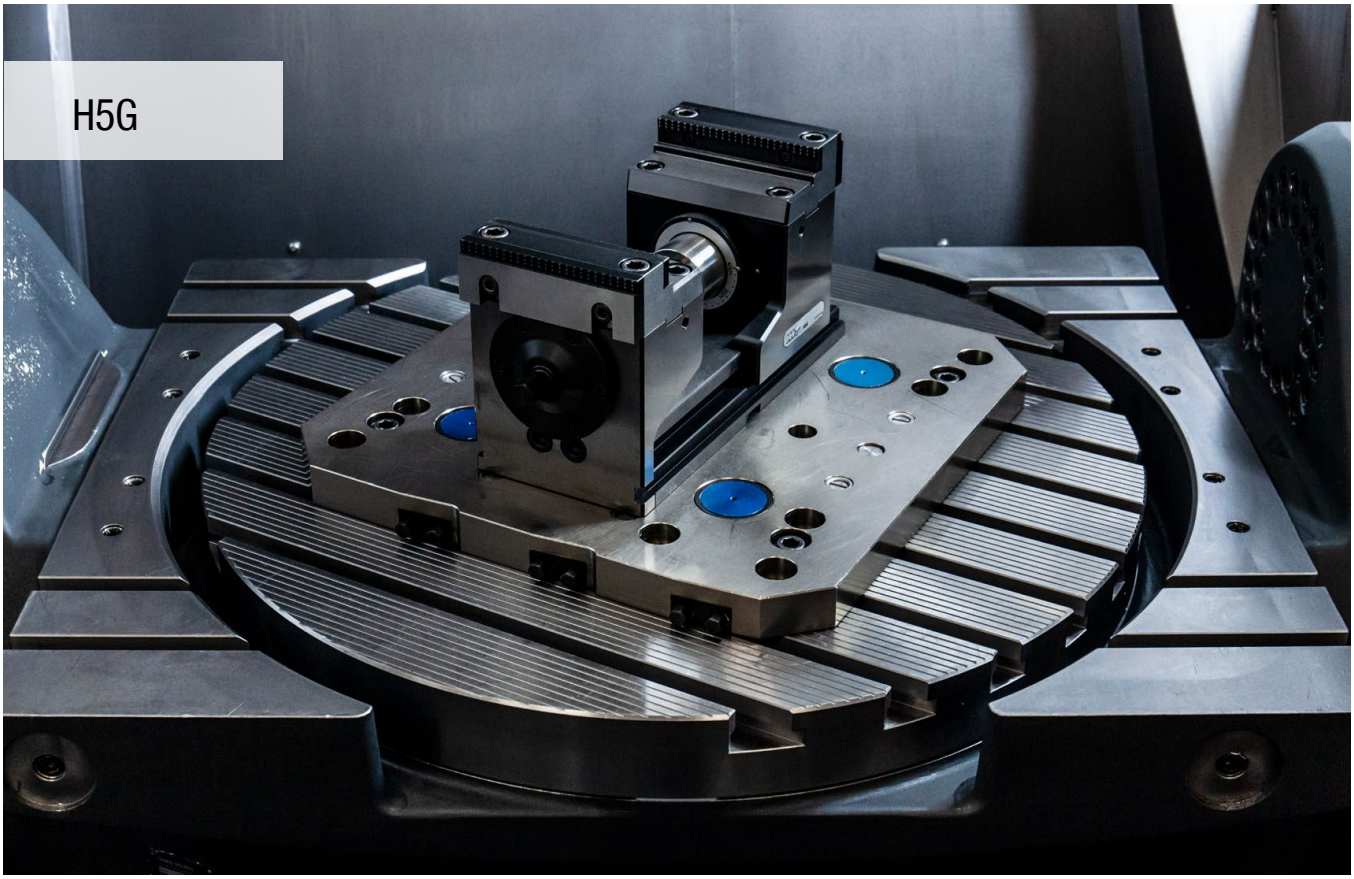
High-speed operation device

▲ For faster span adjustment with removable grip

NCG | NCG 5AC



for width mm	80 890 ... EUR Y4	
100	51,00	550
125/160	61,00	551



5-axis-optimised clamping system

The power-assisted clamping system for 'real' 5-axis complete and simultaneous machining.
1 and 2-sided machining with clamping under tension and 40 kN directly on the workpiece.

Your benefits:

- Quick conversion – adjustment of entire clamping range in just a few seconds
- Quick positioning with MNG on the machine table without an intermediate plate
- Clamping force can be continuously adjusted 4 – 40 kN
- 160° quick clamping
- Rotate jaws – quick and easy jaw change with 4 screws
- Easy cleaning, spindle fully protected
- Extensive modular jaw range

Clamping/aligning:



Clamping with two dowel screws dia. 12_{f7} / M12
Article no. 80 895 019



Alignment through 20^{H7} precision slot nuts in the base body (H5G) and alignment sets 14 / 16 / 18 in the machine table's T-slot. Clamping with clamping claws.



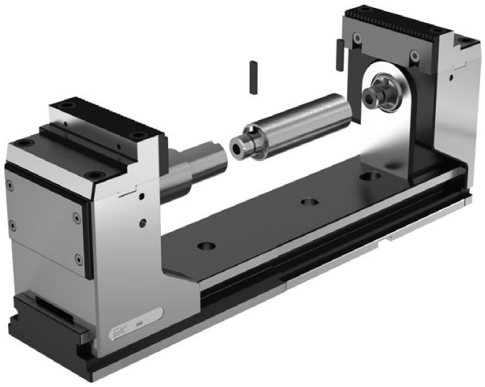
Alignment and clamping with MNG zero point clamping system (2 – 3 mounting bolts).
Optional: Positioning and fixing holes at the customer's request.

Alignment of extension base body:



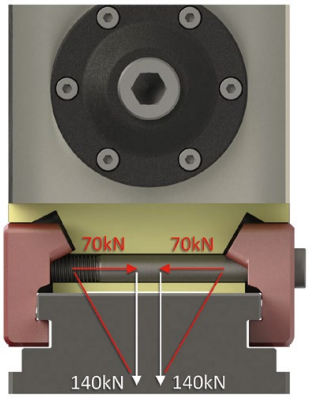
- Loosely mount the extension base body
- Distance to basic base body 0.2 – 10 mm
- Slide movable supporting jaw overlapping onto both base bodies
- Align the extension base body so it is parallel with the basic base body
- Secure the extension base body

Fitting the drawbar extension:



- Fit the extension base body (see alignment above)
- Screw the drawbar extension onto the spindle
- Insert the first anti-twist protection
- Slide the movable supporting jaw onto the extension base body
- Connect the extended drawbar to the fixed supporting jaw
- Insert the second anti-twist protection

Movable fixed jaw functional principle:



Double-acting screw = double the force
angled surfaces = double the force

In the case of the H5G-Z and H5G-Z-S, both supporting jaws can be moved as desired. The movable fixed jaw can be clamped on any position on the base body via 1 or 2 screws (1 = H5G-Z / 2 = H5G-Z-S) (tighten screw with 90 Nm). The clamping force of the fixed jaw is almost identical to that of the H5G which is secured with four screws.

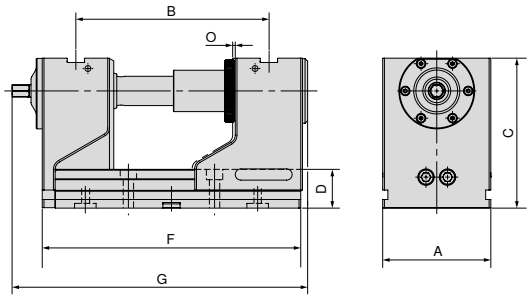
5-axis vice with quick adjustment, 174 mm height

- Crank handle quick clamping
- Vice with quick span adjustment
- 100 % encapsulated
- Vice with longitudinal and transverse grooves 20^{H7} and alignment holes Ø 12^{F7}

Scope of supply:

Vice incl. 4 clamping claws, hand crank and clamping wrench, without system jaws.

H5G

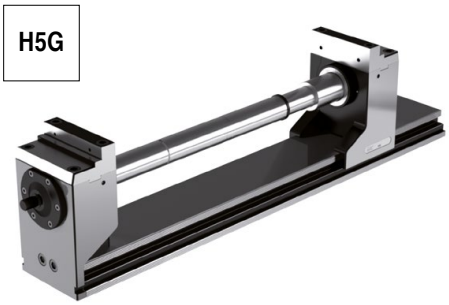


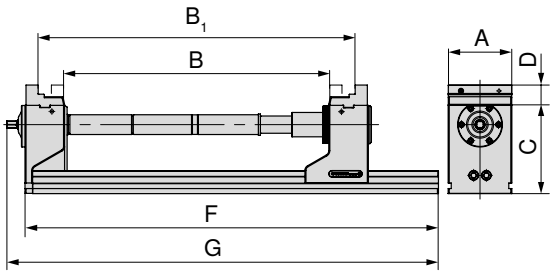


A mm	B mm	C mm	D mm	F mm	G mm	O mm	MXC kN	WT kg	80 898 ... EUR Y4	
125	97 - 223	174	45	300	336,5	1	40	30,2	2.842,00	125

5 axis high power vice, long version, 174 mm height

H5G





A mm	C mm	D mm	F mm	G mm	Clamping force kN
125	174	40	815	851	40

B	B_1	Article no.
0 – 126	123 – 251	80 898 125
125 – 252	248 – 374	80 898 125 + 80 898 826 + 80 898 725
250 – 376	372 – 499	80 898 125 + 80 898 827 + 80 898 725
375 – 501	498 – 624	80 898 125 + 80 898 826 + 80 898 827 + 80 898 725
500 – 626	622 – 749	80 898 125 + 2 x 80 898 827 + 80 898 725

The H5G 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10% loss of clamping force.
Base plate available in long version with the desired hole pattern **on request**.

Vice guide

Underside Dimensions	24	Structural dimension tables for the different jaws	25
System accessories	27–29	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

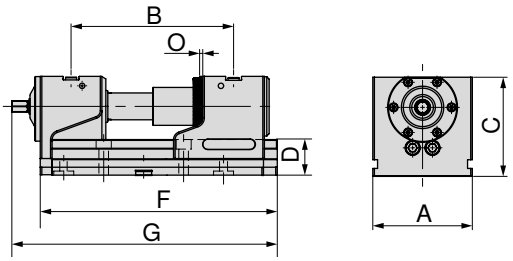
5-Axis vice with quick adjustment, 125 mm height

- Crank handle quick clamping
- Vice with quick span adjustment
- 100 % encapsulated
- Length F = 300 mm with Ø 25^{H7} centering
- Length F = 265 mm with Ø 32^{H6}
- Vice with longitudinal and transverse grooves 20^{H7} and alignment holes Ø 12^{F7}

Scope of supply:

Vice incl. 4 clamping claws, hand crank and clamping wrench, without system jaws.

H5G -S





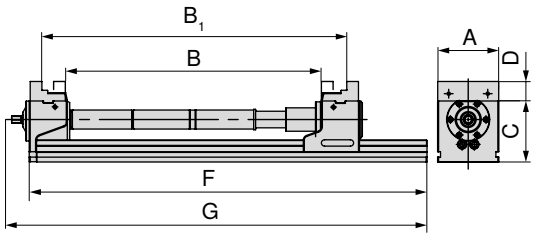
A mm	B mm	C mm	D mm	F mm	G mm	O mm	MXC kN	WT kg	80 898 ... EUR Y4	
125	97 - 186	125	45	265	301,5	1	40	21,0	2.598,00	123 [1]
125	97 - 223	125	45	300	336,5	1	40	22,6	2.653,00	124

1) not standardised

5 axis high power vice, long version, 125 mm height

H5G -S





A mm	C mm	D mm	F mm	G mm	Clamping force kN
125	125	40	815	851	40

B	B_1	Article no.
0 – 126	123 – 250	80 898 124
125 – 251	248 – 374	80 898 124 + 80 898 826 + 80 898 725
250 – 376	372 – 499	80 898 124 + 80 898 827 + 80 898 725
375 – 501	498 – 624	80 898 124 + 80 898 826 + 80 898 827 + 80 898 725
500 – 626	622 – 749	80 898 124 + 2 x 80 898 827 + 80 898 725

The H5G-S 125 mm can be extended by a maximum of 250 mm with 2 extensions. The extension results in approximately 10% loss of clamping force.
Base plate available in long version with the desired hole pattern **on request**.

Vice guide

Underside Dimensions	24	Structural dimension tables for the different jaws	25
System accessories	27–29	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

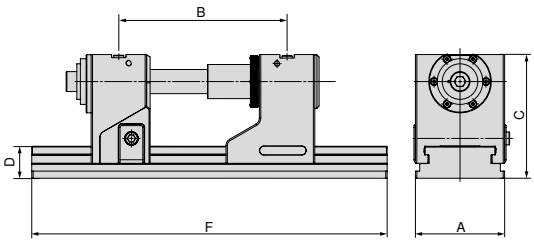
5-Axis vice with movable fixed jaw, 174 mm height

- Crank handle quick clamping
- Vice with quick span adjustment
- 100 % encapsulated
- Clamping on the machine table is possible with MNG/PNG, directly through the base body or with T-nuts using an alignment set

Scope of supply:

Incl. clamping key with hexagonal pin insert, without clamping claws and drawbar extension

H5G -Z





NEW

A mm	B ±0,015 mm	C mm	D mm	F mm	DRVS mm	MXC kN	WT kg	80 907 ... EUR Y4	
125	131 - 246	174	45	330	14	40	32,5	3.206,00	12800
125	131 - 352	174	45	430	14	40	36,0	3.257,00	125
125	131 - 422	174	45	500	14	40	38,5	3.411,00	126
125	131 - 552	174	45	630	14	40	43,0	3.698,00	127

Maximum clamping ranges only possible with the use of additional drawbar extensions, see → **Page 29.**

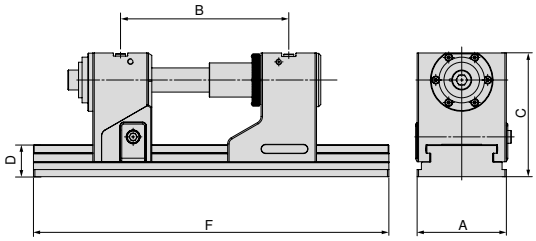
5-axis vice with movable fixed jaw, 125 mm height

- Crank handle quick clamping
- Vice with quick span adjustment
- 100 % encapsulated
- Clamping on the machine table is possible with MNG/PNG, directly through the base body or with T-nuts using an alignment set

Scope of supply:

Incl. clamping key with hexagonal pin insert, without clamping claws and drawbar extension

H5G -Z-S



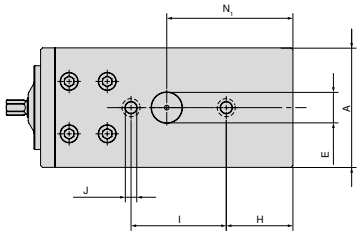


NEW

A mm	B ±0,015 mm	C mm	D mm	F mm	DRVS mm	MXC kN	WT kg	80 907 ... EUR Y4	
125	131 - 246	125	45	330	14	40	24,5	3.018,00	22500
125	131 - 352	125	45	430	14	40	28,5	3.069,00	22600
125	131 - 422	125	45	500	14	40	30,5	3.223,00	22700
125	131 - 552	125	45	630	14	40	35,5	3.509,00	22800

H5G/H5G-Z underside dimensions

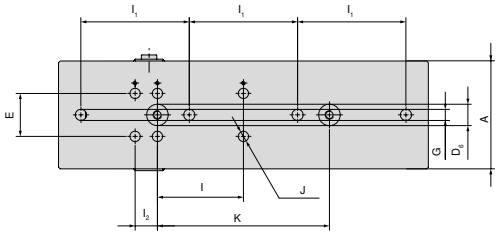
Base width 125 mm and 265 mm length



A mm	E mm	H mm	I ±0,015 mm	J F7 mm	N1 mm
125	32	70	100	12	132,5

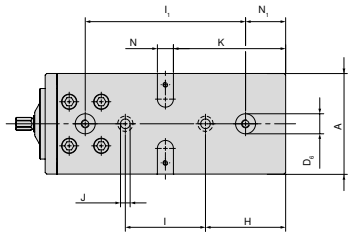
H5G with 265 mm length is not compatible with MNG

Base width 125 mm and 430 mm length



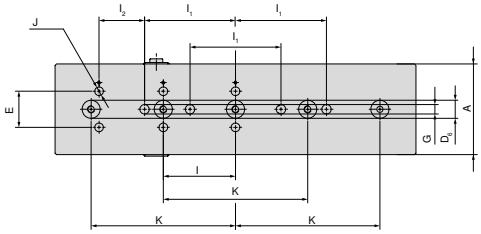
A mm	E ±0,01 mm	I1 ±0,3 mm	I2 mm	I ±0,015 mm	K ±0,015 mm	J H7 mm	G mm	D6 H6 mm
125	50	126	26	100	200	12	13	25

Base width 125 mm and 300 mm length



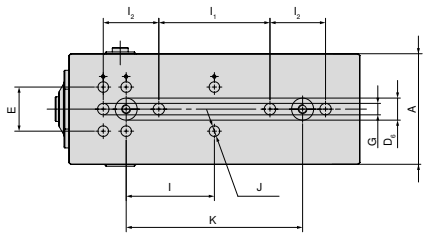
A mm	D6 H7 mm	H mm	I ±0,015 mm	J F7 mm	K mm	N H7 mm	I1 ±0,015 mm	N1 mm
125	25	100	100	12	140	20	200	50

Base width 125 mm and 500 mm length



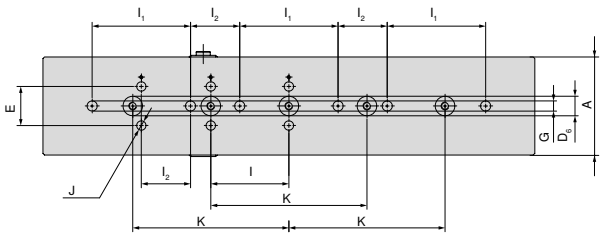
A mm	E ±0,01 mm	I1 ±0,3 mm	I ±0,015 mm	K ±0,015 mm	I2 mm	G mm	D6 H6 mm	J H7 mm
125	50	126	100	200	63	13	25	12

Base width 125 mm and 330 mm length



A mm	E ±0,01 mm	I ±0,015 mm	I2 mm	I1 ±0,3 mm	D6 H6 mm	J H7 mm	K ±0,015 mm	G mm
125	50	100	26	126	25	12	200	13

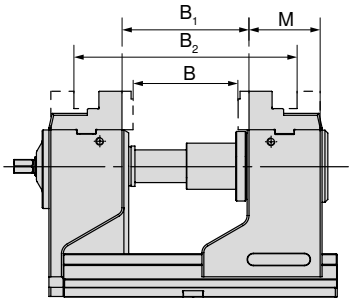
Base width 125 mm and 630 mm length



A mm	E ±0,01 mm	I1 ±0,3 mm	I2 mm	I ±0,015 mm	K ±0,015 mm	G mm	D6 H6 mm	J H7 mm
125	50	126	63	100	200	13	25	12

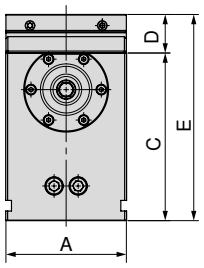
H5G/H5G-S – Structural dimension table for the different jaws

with combi jaws



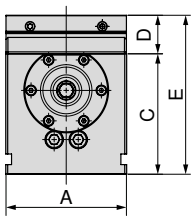
B mm	B_1 mm	B_2 mm	M mm	Article no. System jaws
0 - 126	22 - 149	123 - 249	76	80 898 225

H5G



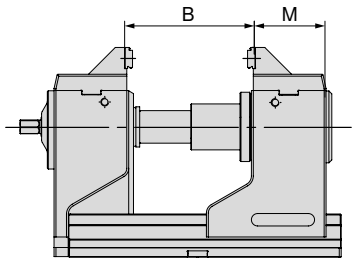
A mm	C mm	D mm	E mm
125	174	40	214

H5G-S



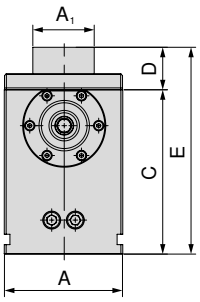
A mm	C mm	D mm	E mm
125	125	40	165

with 5A – Top jaws



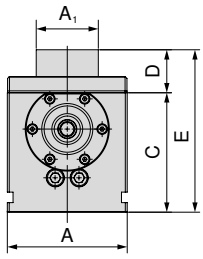
B mm	M mm	Article no. System jaws
27 - 153	74	80 898 325

H5G



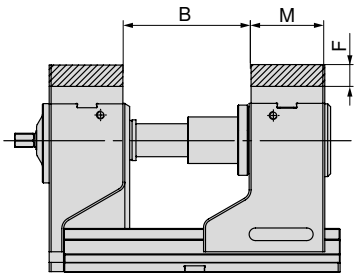
A mm	A_1 mm	C mm	D mm	E mm
125	65	174	45	219

H5G-S



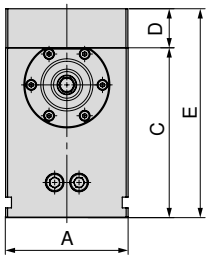
A mm	A_1 mm	C mm	D mm	E mm
125	65	125	45	170

with soft jaws



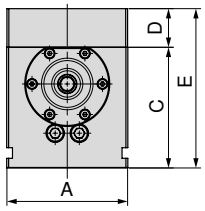
B mm	F mm	M mm	Article no. System jaws
27 - 153	22	76	80 898 625

H5G



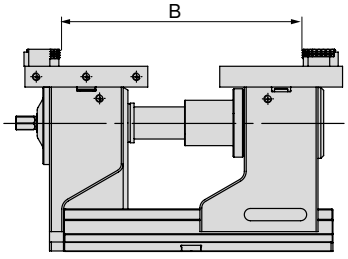
A mm	C mm	D mm	E mm
125	174	40	214

H5G-S



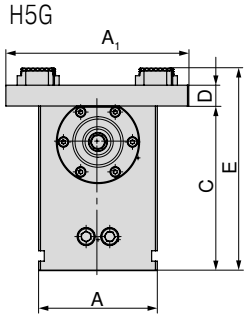
A mm	C mm	D mm	E mm
125	125	40	165

with pendulum and adapter plate



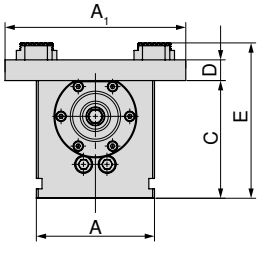
B mm	Article no. System jaws
17 - 274	80 898 525 + 80 898 425

H5G



A mm	A_1 mm	C mm	D mm	E mm
125	192	174	22	214

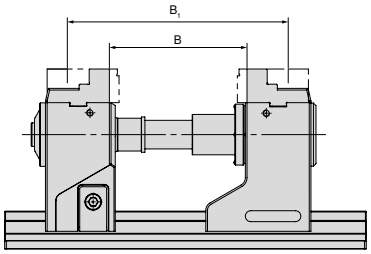
H5G-S



A mm	A_1 mm	C mm	D mm	E mm
125	192	125	22	165

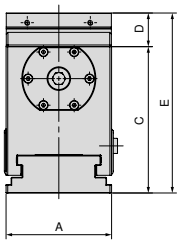
H5G-Z/-S structural dimension table for the different jaws

with combi jaws



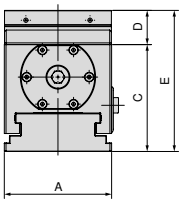
B mm	B_1 mm	Article no. System jaws
14 - 139	157 - 282	80 898 225

H5G-Z



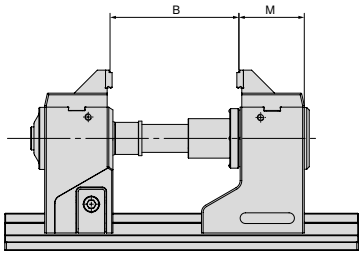
A mm	C mm	D mm	E mm
125	174	40	214

H5G-Z-S



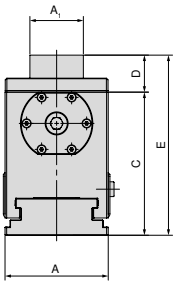
A mm	C mm	D mm	E mm
125	125	40	165

with 5A – Top jaws



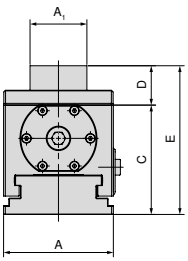
B mm	M mm	Article no. System jaws
27 - 153	74	80 898 325

H5G-Z



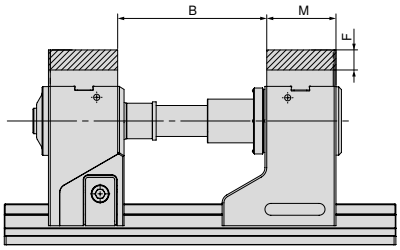
A mm	A_1 mm	C mm	D mm	E mm
125	65	125	45	170

H5G-Z-S



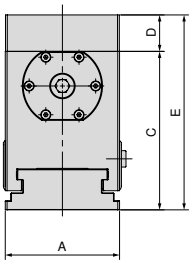
A mm	A_1 mm	C mm	D mm	E mm
125	65	125	45	165

with soft jaws



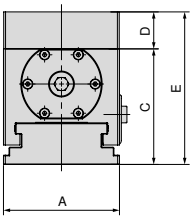
B mm	F mm	M mm	Article no. System jaws
27 - 153	22	76	80 898 625

H5G-Z



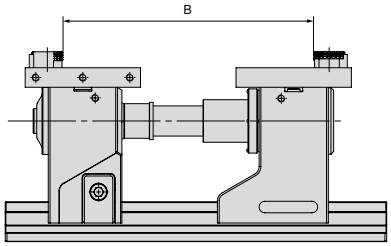
A mm	C mm	D mm	E mm
125	125	40	165

H5G-Z-S



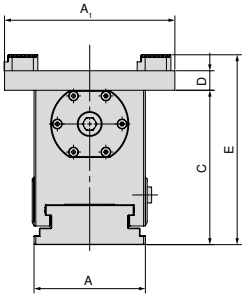
A mm	C mm	D mm	E mm
125	125	40	165

with pendulum and adapter plate



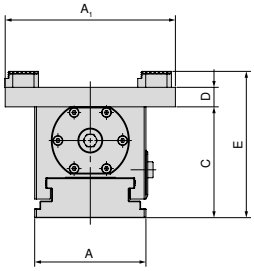
B mm	Article no. System jaws
17 - 274	80 898 525 + 80 898 425

H5G-Z



A mm	A_1 mm	C mm	D mm	E mm
125	192	174	22	214

H5G-Z-S

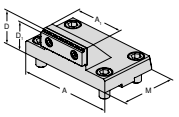


A mm	A_1 mm	C mm	D mm	E mm
125	192	125	22	165

Clamping ranges also apply to 500 mm and 630 mm base bodies. Extended clamping ranges with drawbar extension possible.

System jaws overview

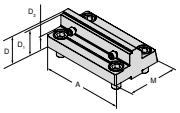
5A stepped top jaw



- ▲ including 125/65 mm attachment and 3 mm grip step
- ▲ price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125	65	45	42	76	337,00	80 898 325		●								

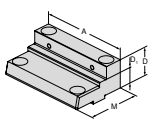
5A - Top jaw



- ▲ Improved accessibility through tapered rear section
- ▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		40	37	78	317,00	80 907 300		●								

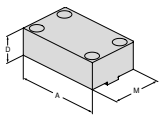
Combi reversable jaw



- ▲ to extend the clamping range
- ▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		40	22	76	337,00	80 898 225		●								

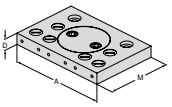
Soft Alu-jaw



- ▲ for producing shaped jaws
- ▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		40		76	99,00	80 898 625		●								

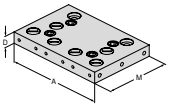
Pendulum jaw, movable



- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	192		22		130	439,00	80 898 525		●								

Adapter plate

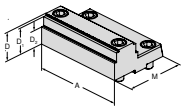


- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	192		22		130	370,00	80 898 425		●								

System jaws overview

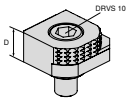
Indexable jaw, grip 3 mm, 16 mm smooth step, on both sides



- ▲ Price per piece

Description	A	D	D_1	D_2	M	price	Article no.	Type association									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	**40**	**37**	**24**	**82,5**		357,00	**80 898 35000**		●								

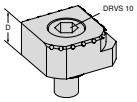
6 function indexable jaw



- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws

						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	18					70,00	**80 892 246**	●	●	●	●		●		●	●	

6x indexable jaw, carbide grip



- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws

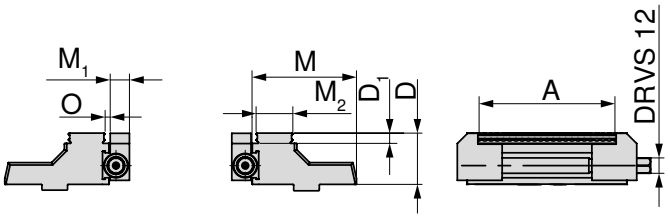
							NEW										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	18					100,00	**80 890 35300**	●	●	●	●		●		●	●	

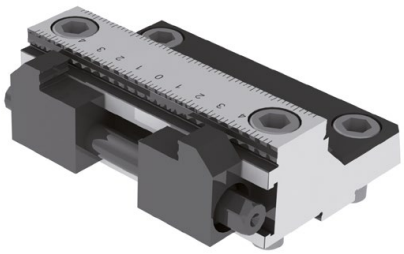
6 face jaw system for 125 mm jaw width

Scope of supply:

2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws

H5G	H5G -S	H5G -Z





for width mm	A mm	D mm	D_1 mm	M mm	M_1 mm	M_2 mm	O mm	WT kg	80 898 ... EUR Y4	
125	37 - 101	40	8	81,5	15	28,7	3,2	4,5	1.571,00	**230**

System accessories overview

Protection plugs

▲ Price per piece

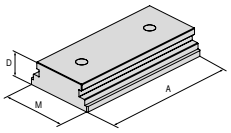
H5G -Z

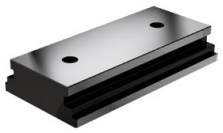


D_1 mm	80 907 ... EUR Y4	
19	0,55	501

Base plate to extend

H5G

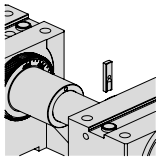




A mm	D mm	M mm	80 898 ... EUR Y4	
250	45	125,5	576,00	725

Anti-twist plate

H5G





80 898 ... EUR Y4	
11,00	024

Clamping lever

▲ including control accessories

NCG 5A | H5G -Z | NCG | H5G

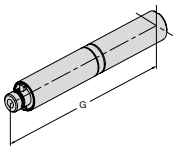


DRVS mm	80 890 ... EUR Y4	
14	114,00	501

Drawbar

▲ Incl. anti-rotation

H5G -Z | H5G -S | H5G





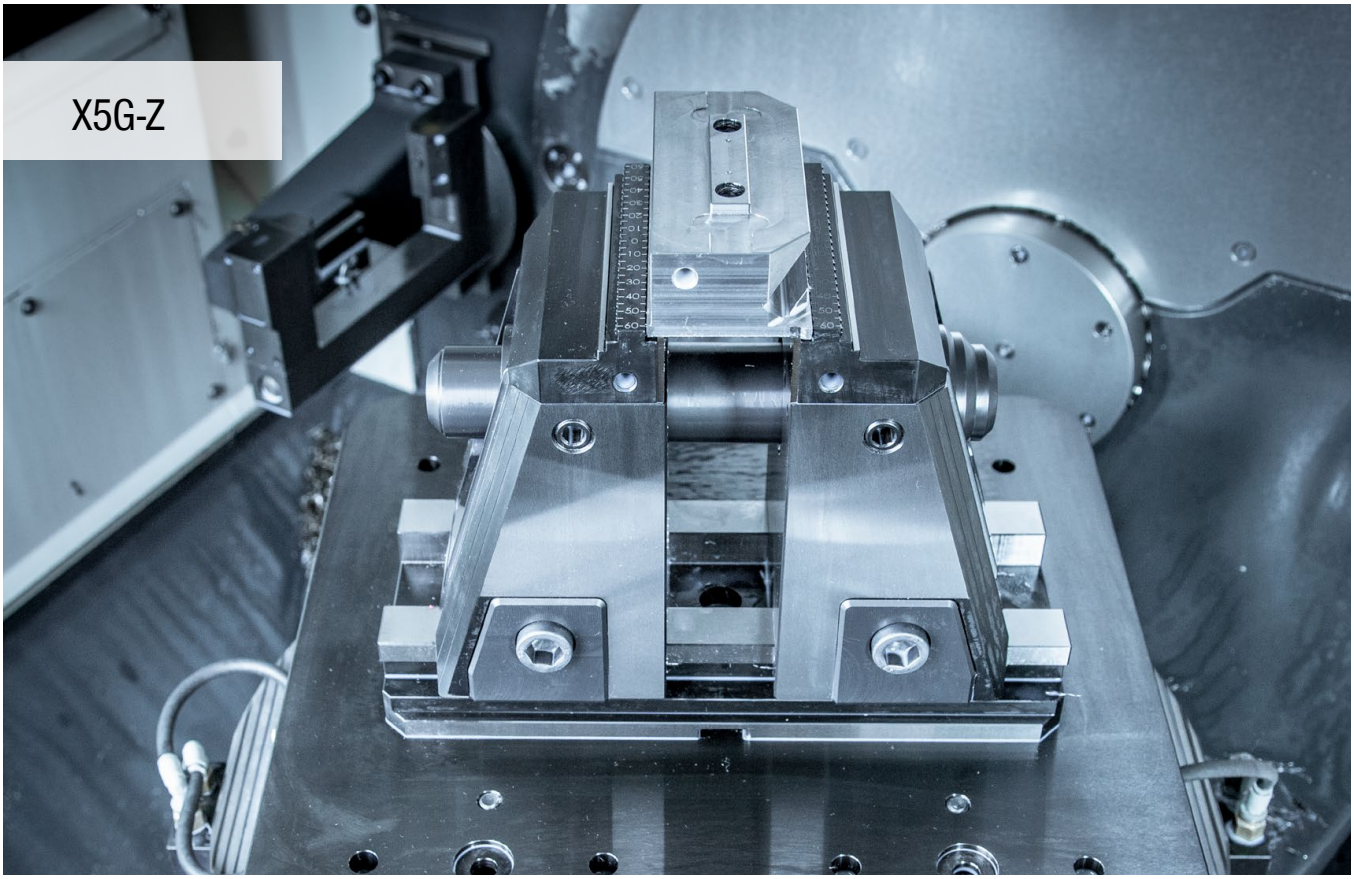
G mm	80 898 ... EUR Y4	
125	322,00	826
250	365,00	827

Hand crank

▲ for fast adjustment



DRVS mm	H5G-Z 80 907 ... EUR Y4		H5G-S 80 898 ... EUR Y4		H5G 80 898 ... EUR Y4	
14	72,00	500	72,00	026	72,00	025



5-axis machining to perfection

Maximum ease of handling and integrated pull-down action for 6-sided machining. X5G-Z is the new 5-axis vice from CERATIZIT. All the advantages that ensure optimum and simple 5- and 6-sided machining combined in a single clamping device.

Your benefits:

- Either 5 and 6-axis machining thanks to clamping of one or both supporting jaws
- Fast jaw changeover without tools
- Optimum accessibility from all sides and large base clamping stroke of 130 mm
- Fully encapsulated, mechanical spindle
- Integrated, internal elastomer damping to minimise vibrations
- Extensive modular jaw range

Clamping/aligning:



Clamping with two dowel screws dia. 12_{f7} / M12 and clamping screws **Article no. 80 895 019**



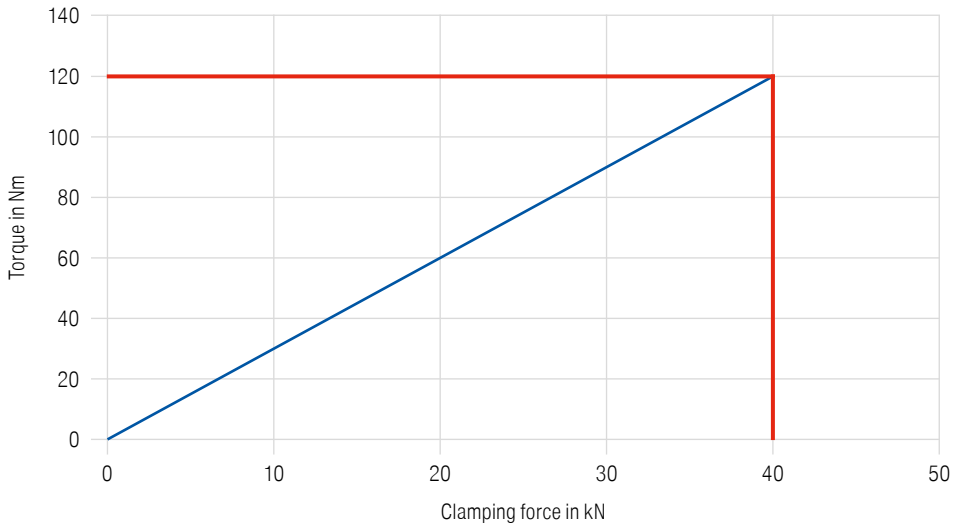
Alignment through 20^{H7} precision slot nuts in the base body in the machine table's T-slot. Clamping with clamping claws.



Alignment and clamping with MNG zero point clamping system (2 – 3 mounting bolts). **Optional:** Positioning and fixing holes at the customer's request.

Clamping force:

X5G-Z tightening torque/clamping force



17

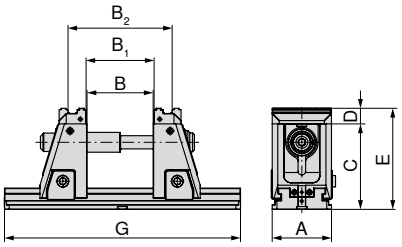
Mechanical 5-axis vice with movable fixed jaw, 181 mm height

- Optimum accessibility
- 5- and 6-sided machining possible
- Fast jaw changeover without tools
- Clamping on the machine table is possible with MNG/PNG, or directly through the base body with precision T-nuts

Scope of supply:

incl. 2 x quick-change jaws (grip, step 3 mm, width 125 mm), without operator key or clamping claws

X5G -Z





NEW

A mm	B ±0,015 mm	B1 mm	B2 mm	C mm	D mm	E ±0,01 mm	G mm	DRVS mm	MXC kN	WT kg	80 908 ... EUR Y4	
125	4 - 134	12 - 141	80 - 210	181	33	214	330	14	40	33,2	3.412,00	12500
125	4 - 234	12 - 241	80 - 310	181	33	214	430	14	40	36,1	3.613,00	12600
125	4 - 304	12 - 311	80 - 380	181	33	214	500	14	40	38,1	3.744,00	12700
125	4 - 434	12 - 441	80 - 510	181	33	214	630	14	40	41,8	3.980,00	12800
125	4 - 604	12 - 611	80 - 680	181	33	214	800	14	40	46,6	4.287,00	12900 1)

1) Not ex-stock

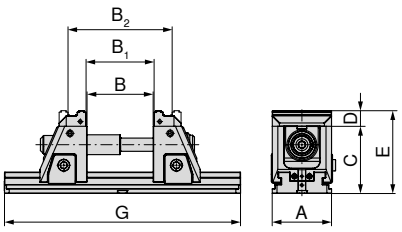
Mechanical 5-axis vice with movable fixed jaw, 142 mm height

- Optimum accessibility
- 5- and 6-sided machining possible
- Fast jaw changeover without tools
- Clamping on the machine table is possible with MNG/PNG, or directly through the base body with precision T-nuts

Scope of supply:

incl. 2 x quick-change jaws (grip, step 3 mm, width 125 mm), without operator key or clamping claws

X5G -Z-S





NEW

A mm	B ±0,015 mm	B1 mm	B2 mm	C mm	D mm	E ±0,01 mm	G mm	DRVS mm	MXC kN	WT kg	80 908 ... EUR Y4	
125	4 - 144	12 - 151	80 - 220	142	33	175	330	14	40	27,3	3.153,00	22500
125	4 - 234	12 - 241	80 - 310	142	33	175	430	14	40	30,2	3.354,00	22600
125	4 - 304	12 - 311	80 - 380	142	33	175	500	14	40	32,2	3.485,00	22700
125	4 - 434	12 - 441	80 - 510	142	33	175	630	14	40	35,9	3.722,00	22800
125	4 - 604	12 - 611	80 - 680	142	33	175	800	14	40	40,7	4.028,00	22900 1)

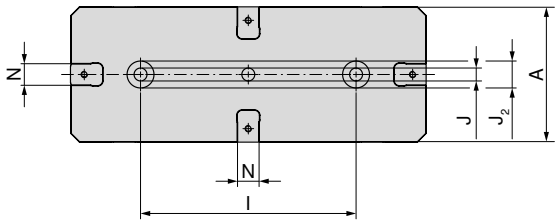
1) Not ex-stock

Vice guide

Underside Dimensions	33	Spindle extensions	37
System accessories	35–39	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

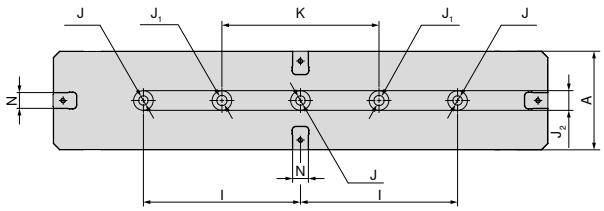
X5G-Z/-S underside dimensions

Base width 125 mm and 330 mm length



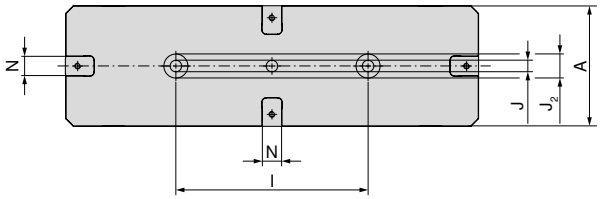
A mm	l ±0,02 mm	J H7 mm	J2 H6 mm	N H7 mm
125	200	12	25	20

Base width 125 mm and 630 mm length



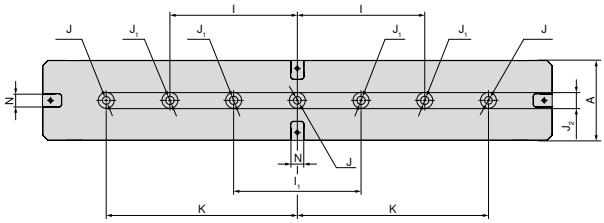
A mm	l ±0,02 mm	J H7 mm	J1 mm	J2 H6 mm	K ±0,02 mm	N H7 mm
125	200	12	13	25	200	20

Base width 125 mm and 430 mm length



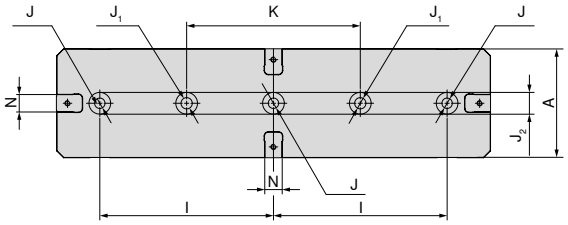
A mm	l ±0,02 mm	J H7 mm	J2 H6 mm	N H7 mm
125	200	12	25	20

Base width 125 mm and 800 mm length



A mm	l ±0,02 mm	l1 ±0,02 mm	J H7 mm	J1 mm	J2 H6 mm	K ±0,02 mm	N H7 mm
125	200	200	12	13	25	300	20

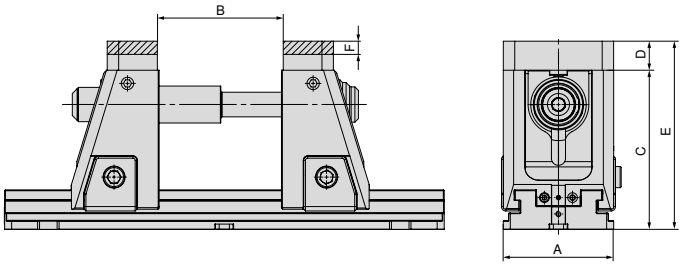
Base width 125 mm and 500 mm length



A mm	l ±0,02 mm	J H7 mm	J1 mm	J2 H6 mm	N H7 mm	K ±0,02 mm
125	200	12	13	25	20	200

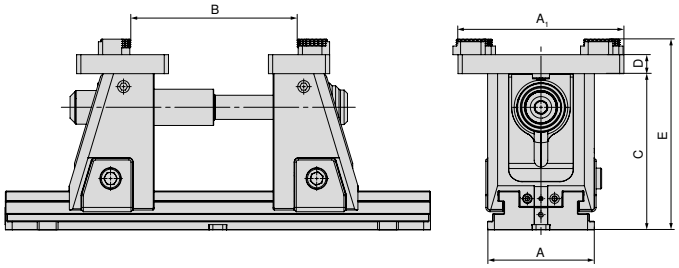
X5G-Z/-S structural dimension table for the different jaws

with soft jaws



A mm	B mm	C mm	D mm	E mm	F mm	Article no. System jaws
125	4 - 146	142 - 181	33	175 - 214	15	80 909 31200

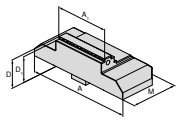
with pendulum and adapter plate



A mm	A_1 mm	B mm	C mm	D mm	E mm	Article no. System jaws
125	195	8 - 193	142 - 181	22	175 - 214	80 909 31500 + 80 909 31300

System jaws overview

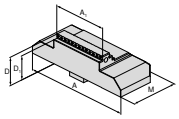
Indexable grip jaw, 3 mm



▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
						EUR	NEW Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	40	33	30	57		270,00	80 909 30300			●							
125	65	33	30	57		280,00	80 909 30200			●							
125	80	33	30	57		280,00	80 909 30100			●							
125	125	33	30	57		290,00	80 909 30000			●							

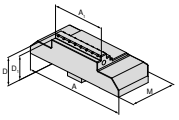
Indexable grip jaw, 5 mm



▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
						EUR	NEW Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	40	33	28	57		270,00	80 909 30700			●							
125	65	33	28	57		280,00	80 909 30600			●							
125	80	33	28	57		280,00	80 909 30500			●							
125	125	33	28	57		290,00	80 909 30400			●							

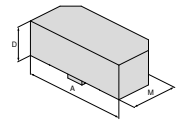
Stepped jaw, carbide grip 5 mm



▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
						EUR	NEW Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	40	33	28	57		320,00	80 909 31100			●							
125	65	33	28	57		330,00	80 909 31000			●							
125	80	33	28	57		340,00	80 909 30900			●							
125	125	33	28	57		350,00	80 909 30800			●							

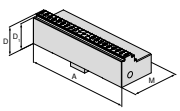
Soft jaws, steel



▲ Price per piece

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
						EUR	NEW Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125		33		57		125,00	80 909 31200			●							

Indexable jaw embossed profile

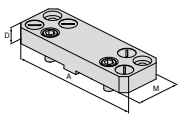


▲ Price per piece
▲ suitable for LANG embossed profile

Description	A	A_1	D	D_1	M	price	Article no.	Type association									
						EUR	NEW Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125		33	30	57		290,00	80 909 31400			●							

System jaws overview

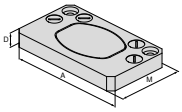
Adapter plate



- for holding 6-function indexable jaws
- Price per piece
- incl. cover screws

Description	for width	A	D	D_1	M	price	Article no.	Type association								
							NEW									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125	180	22		104	370,00	80 909 31500			●							

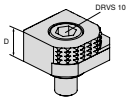
Floating jaw



- for holding 6-function indexable jaws
- Price per piece
- incl. cover screws

Description	for width	A	D	D_1	M	price	Article no.	Type association								
							NEW									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125	180	22		62	495,00	80 909 31300			●							

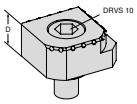
6 function indexable jaw



- 1 = Smooth, carbide coated
- 2 = Grip with 3 mm step
- 3 = Grip with 8 mm step
- 4 = Grip with 18 mm step
- 5 = Rough grip with 8 mm step
- 6 = Round grip
- M_{max} = 60 Nm
- Including fixation screws

Description	for width	A	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
			18			70,00	80 892 246	●	●	●	●		●		●	●	

6x indexable jaw, carbide grip

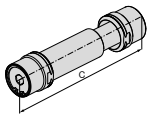


- 1 = Smooth
- 2 = Carbide grip
- 3 = Carbide grip with 3 mm step
- 4 = Carbide grip with 8mm step
- 5 = Round carbide grip with 8 mm step
- 6 = Round carbide grip
- Incl. fixing screws

Description	for width	A	D	D_1	M	price	Article no.	Type association								
							NEW									
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
			18			100,00	80 890 35300	●	●	●	●		●		●	●	

System accessories overview

Spindle unit X5G-Z





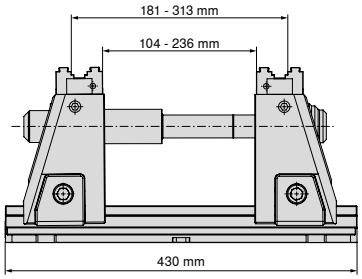
NEW

C mm	WT kg	80 908 ... EUR Y4	
227,5	2,5	350,00	**50100**

Drawbar





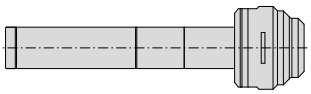


Base body G = 430 mm,
stroke 140 mm, with extension,
total clamping range 4–310 mm

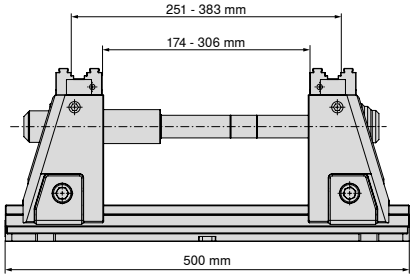
NEW

for width mm	G mm	80 908 ... EUR Y4	
125	430	146,00	**80000**

Drawbar







Base body G = 500 mm,
stroke 140 mm, with extension,
total clamping range 4–380 mm

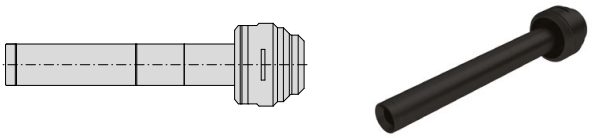
NEW

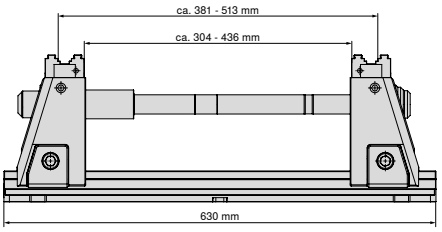
for width mm	G mm	80 908 ... EUR Y4	
125	500	158,00	**80100**

17

System accessories overview

Drawbar



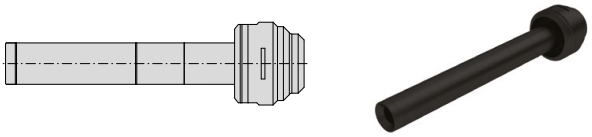


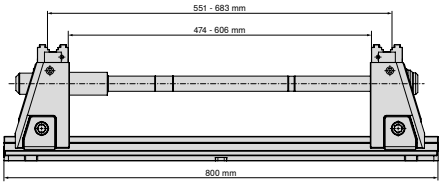
Base body G = 630 mm,
stroke 140 mm, with extension,
total clamping range 4–510 mm

NEW

for width mm	G mm	80 908 ... EUR Y4	
125	630	184,00	80200

Drawbar





Base body G = 800 mm,
stroke 140 mm, with extension,
total clamping range 4–680 mm

NEW

for width mm	G mm	80 908 ... EUR Y4	
125	800	210,00	80300

System accessories overview

Torque Wrench

▲ without socket



Square	TQX Nm	80 884 ... EUR Y4	
1/2"	20 - 200	242,00	504

Socket



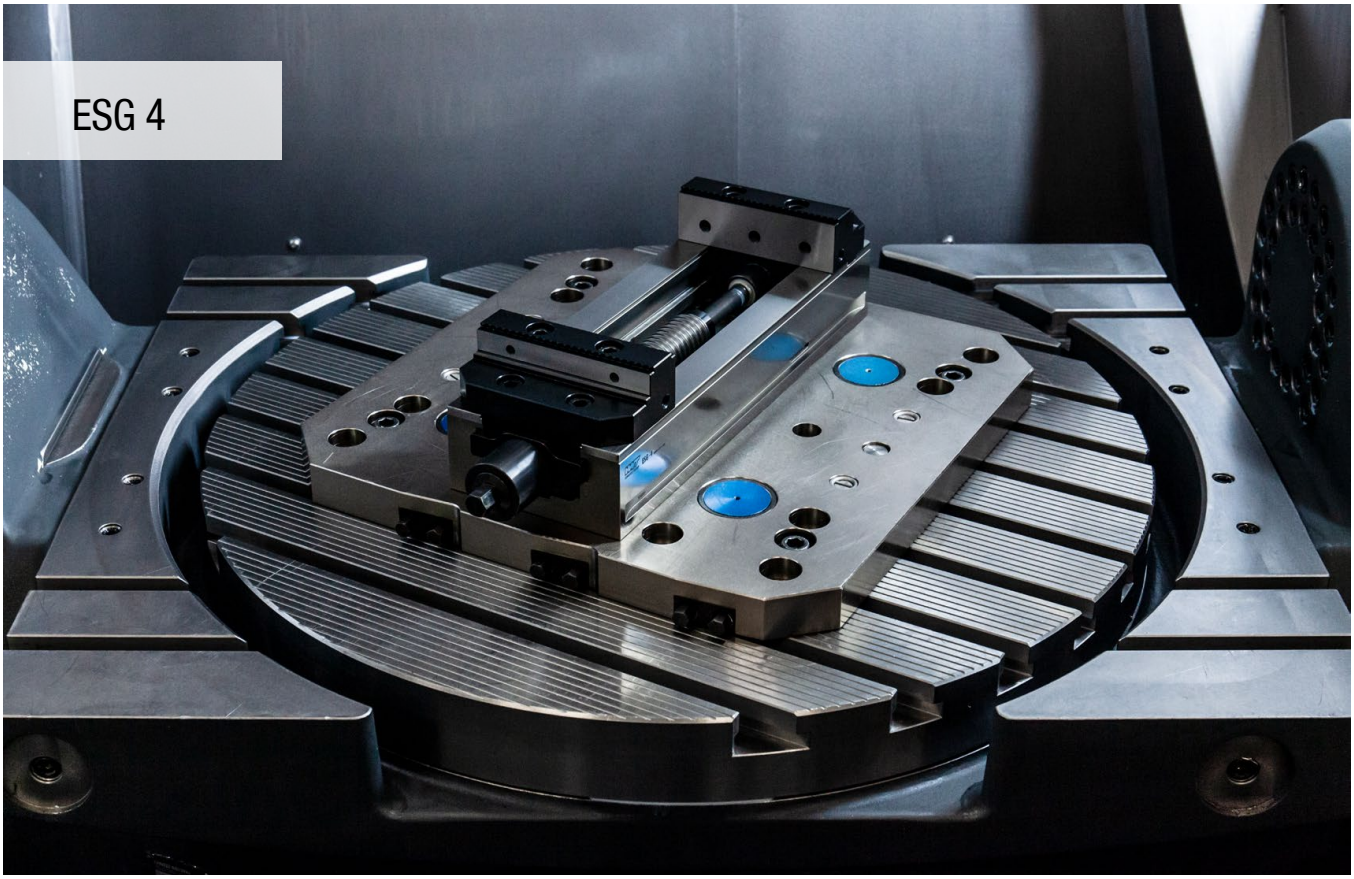
Square	DRVS mm	80 877 ... EUR Y4	
1/2"	14	14,70	214

Hand crank

▲ Version with external hex
▲ For quick adjustment



for width mm	DRVS mm	H5G-Z 80 907 ... EUR Y4	
125	14	72,00	500



Highly-efficient all-rounder for machining unfinished and finished parts

The ESG 4 single vice impresses with fast handle clamping, quick setting of the clamping range, a flat design and low weight.

Your benefits:

- Several cooling lubricant flows for problem-free working and controlled outflow
- Quick and easy positioning on the MNG zero point clamping system
- High clamping force between 5 – 50 kN with low tightening torque
- Quick and easy jaw change with 2 screws
- Quick, simple disassembly of the spindle unit
- Extensive modular jaw range

Clamping/aligning:



ESG 4 – 80 mm = mounting with M8 screws through the base body
ESG 4 – 125 mm / 160 mm = mounting with M12 screws and dowel screws through the base body



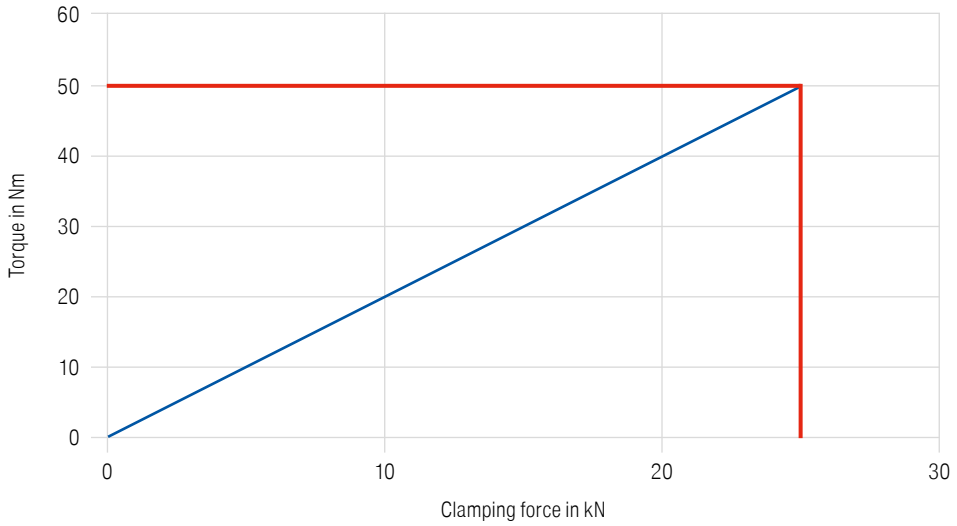
Mounting with 4 clamping claws
Article no. 80 890 315



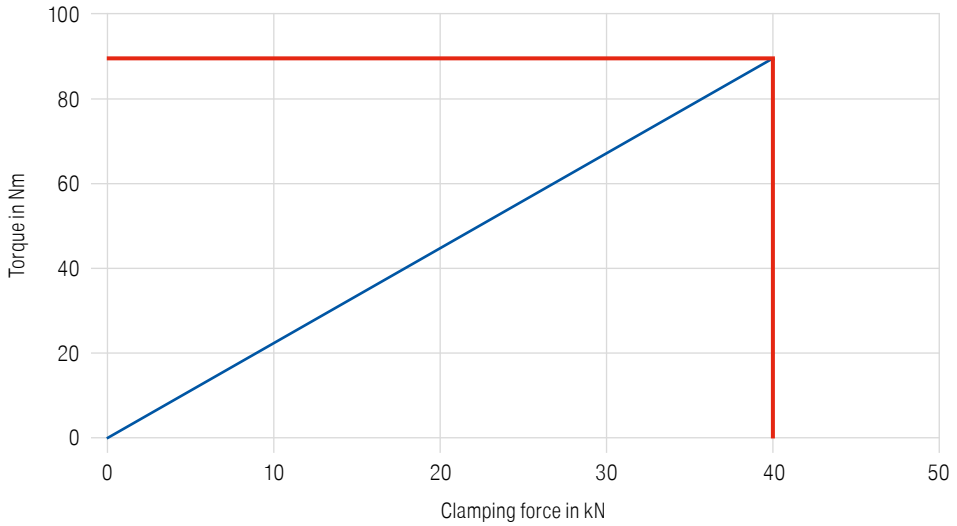
Mounting with zero point clamping systems
ESG 4 – 80 mm = 1 mounting bolt + anti-twist protection
ESG 4 – 125 / 160 mm = 2 mounting bolts, centre distance 200 mm

Clamping force:

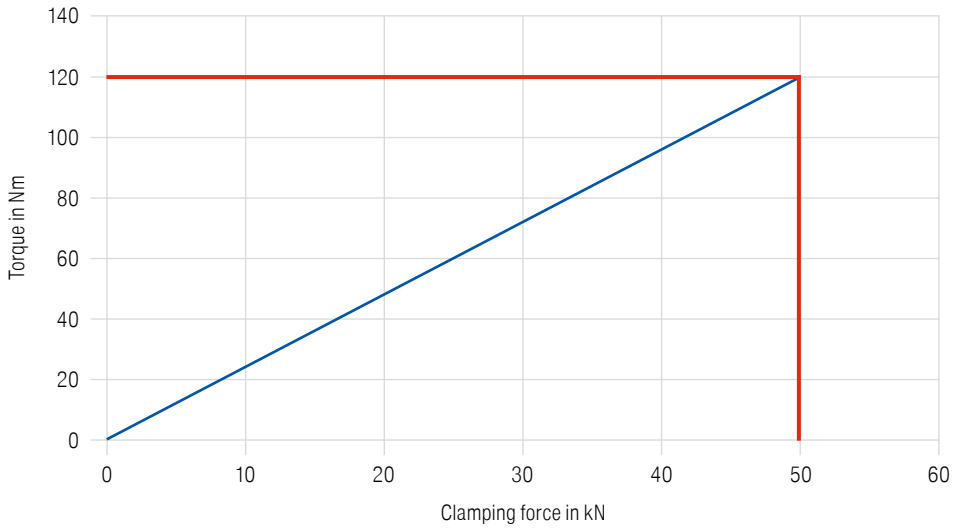
ESG 4 – 80 mm tightening torque/clamping force



ESG 4 – 125 mm tightening torque/clamping force



ESG 4 – 160 mm tightening torque/clamping force



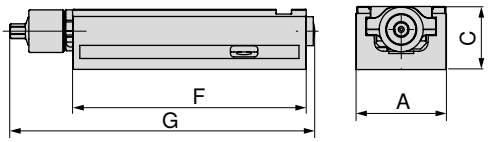
Single vice without system jaws

- Fast 160° handle clamping with torque key
- Rapid installation and removal of the spindle assembly
- ±0.01 mm repeatability (±0.015 mm when A = 160 mm)

Scope of supply:

- ESG 4 single vice without system jaws and clamping key

ESG 4





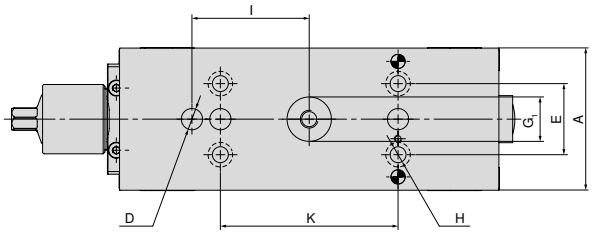
A mm	C -0.02 mm	F mm	G mm	MXC kN	WT kg	DRVS mm	clamping range mm	80 901 ... EUR Y4	
80	55	214	284	25	5,0	12	0-192	1.088,00	080
125	60	362	433	40	15,0	14	0-308	1.350,00	125
160	70	480	559	50	28,5	14	0-434	1.978,00	160

Vice guide

Underside Dimensions	43	Structural dimension tables for the different jaws	44+45
System accessories	46–48	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

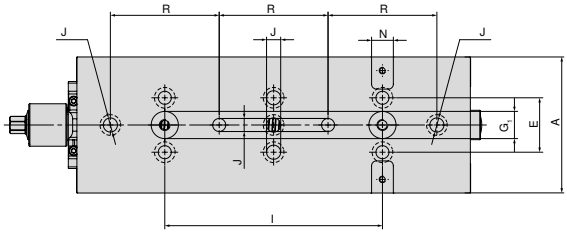
ESG 4 underside dimensions

Base width 80 mm and length 214 mm



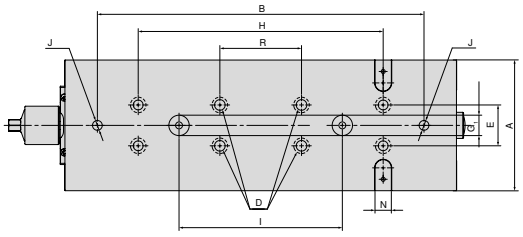
A mm	D mm	E mm	G_1 mm	H mm	I mm	K mm
80	12	40	25	9	66	100

Base width 125 mm and length 362 mm



A mm	E mm	G_1 mm	I mm	J mm	N_{H7} mm	R mm
125	50	25	200	13	12	100

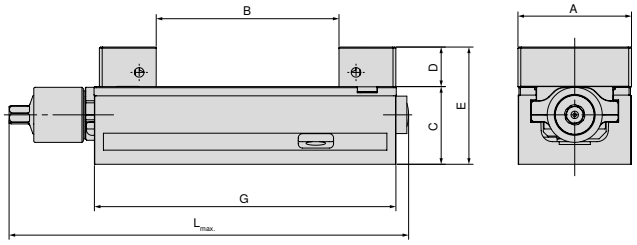
Base width 160 mm and length 480 mm



A mm	B mm	D mm	E mm	G_1 mm	H mm	I mm	J mm	N_{H7} mm	R mm
160	400	13	50	25	300	200	12	20	100

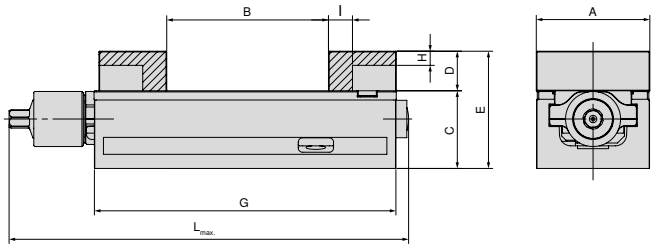
ESG 4 structural dimension table for the different jaws

With block jaws



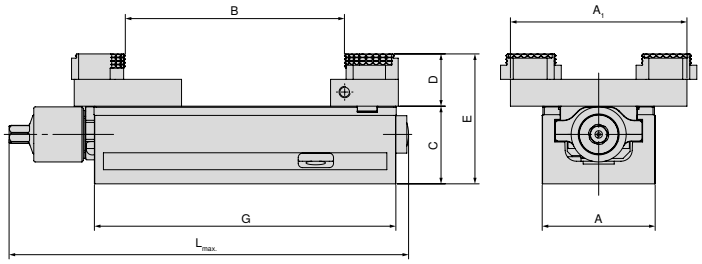
A mm	B mm	C mm	D mm	E mm	G mm	$L_{max.}$ mm	Article no. System jaws
80	0 - 130	55	28	83	214	308	80 901 31200 + 80 901 31300
125	0 - 231	60	40	100	362	432	80 901 3140 + 80 901 31500
160	0 - 312	70	50	120	480	559	80 901 31600 + 80 901 31700

With soft alu jaws



A mm	B mm	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	0 - 115	55	28	83	214	10	17	284	80 901 307 + 80 878 850
125	0 - 219	60	40	100	362	23	27	432	80 901 304 + 80 878 550
160	0 - 309	70	50	120	480	23	30	559	80 901 301 + 80 878 305

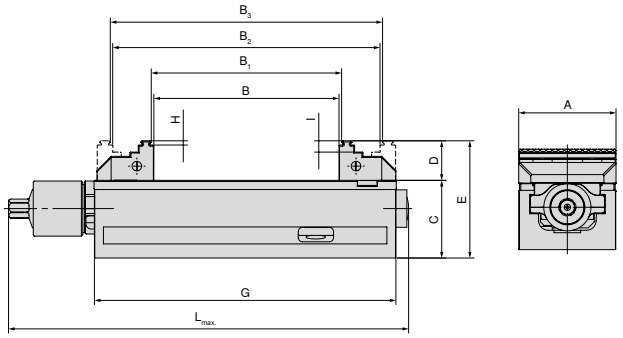
with pendulum and adapter plate



A mm	A_1 mm	B mm	C mm	D mm	E mm	G mm	$L_{max.}$ mm	Article no. System jaws
80	125	5 - 155	55	19	92	214	284	80 878 870 + 80 901 501
125	180	4 - 306	60	22	100	362	432	80 878 570 + 80 901 502
160	256	11 - 463	70	22	110	480	559	80 878 670 + 80 901 503

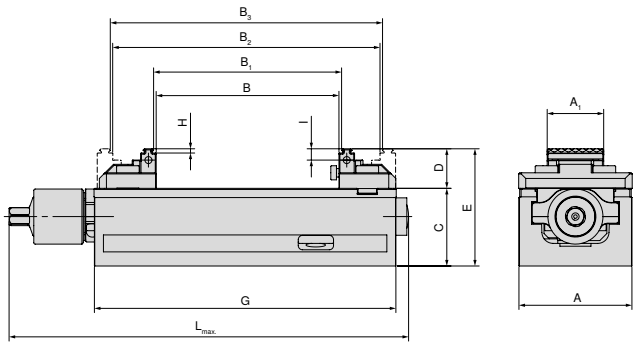
ESG 4 structural dimension table for the different jaws

With indexable jaws, grip 3 mm



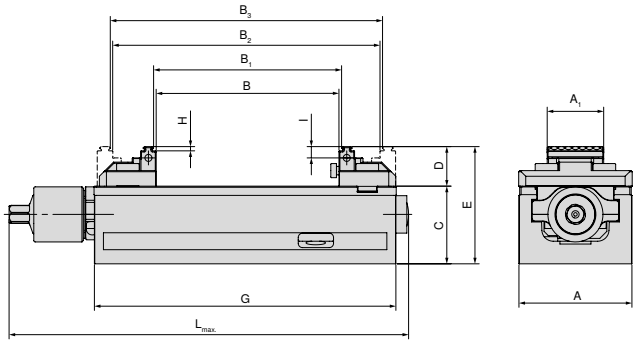
A mm	B mm	B_1 mm	B_2 mm	B_3 mm	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	0 - 130	4 - 134	59 - 188	63 - 192	55	28	83	214	3	8	284	80 901 306 + 80 878 810
125	0 - 231	8 - 238	71 - 301	78 - 308	60	40	100	362	3	18	433	80 901 302 + 80 901 303
160	0 - 310	8 - 317	117 - 427	125 - 434	70	50	120	480	3	10	559	80 901 300 + 80 878 610

With indexable jaws, grip 40 mm



A mm	A_1 mm	B mm	B_1 mm	B_2 mm	B_3 mm	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	40	0 - 130	4 - 134	59 - 188	63 - 192	55	28	83	214	3	8	284	80 901 308 + 80 878 840

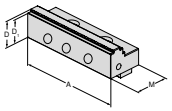
With indexable jaws, grip 65 mm



A mm	A_1 mm	B mm	B_1 mm	B_2 mm	B_3 mm	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
125	65	0 - 240	8 - 247	77 - 317	84 - 324	60	33	93	362	3	9	432	80 901 305 + 0 878 565

System jaws overview

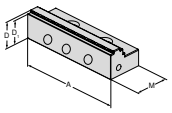
Indexable jaw, grip 3 mm, fixed



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
80	28	25	40		145,00	80 901 306				●	●					
125	40	37	66		200,00	80 901 302				●					●	
160	50	47	81		361,00	80 901 300				●	●					

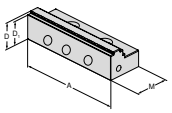
Indexable jaw, grip 3 mm, movable



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
125	40	37	66		200,00	80 901 303				●				●	●	

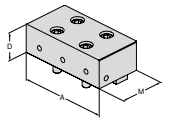
Indexable jaw, grip 3 mm, movable



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
80	28	25	40		120,00	80 878 810				●	●			●	●	
160	50	47	81		361,00	80 878 610				●	●			●		

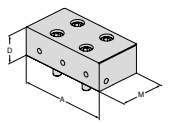
Block jaw, fixed



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
80	28		40		224,00	80 901 31200				●						
125	40		66		312,00	80 901 31400				●						
160	50		81		394,00	80 901 31600				●						

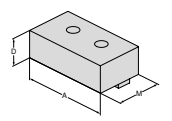
Block jaw, movable



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
80	28		40		217,00	80 901 31300				●				●	●	
125	40		66		305,00	80 901 31500				●				●	●	
160	50		81		385,00	80 901 31700				●				●		

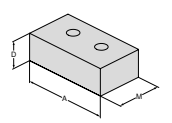
Alu jaw, fixed



▲ for producing shaped jaws
▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
80	28		48		90,00	80 901 307				●						
125	40		68		98,00	80 901 304				●						
160	50		85		110,00	80 901 301				●						

Alu jaw, movable

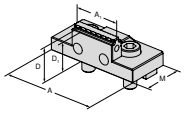


▲ for producing shaped jaws
▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
80	28		48		77,00	80 878 850				●				●	●	
125	40		68		88,00	80 878 550				●				●	●	
160	50		85		110,00	80 878 305				●				●		

System jaws overview

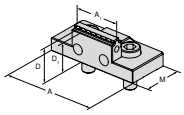
Reversible grip jaw, width 40 mm, fixed



▲ Price per piece
▲ Double-sided grip step

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80	80	40	28	25	40	175,00	80 901 308				●						

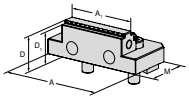
Indexable grip jaw 3 mm, width 40 mm, movable



▲ Price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80	80	40	28	25	40	160,00	80 878 840				●				●		

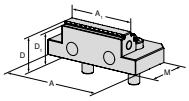
5-axis reversible grip jaw, width 65 mm, fixed



▲ price per piece
▲ double sided grip step

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125	125	65	33	30	57	190,00	80 901 305				●						

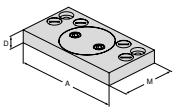
5-axis indexable jaw, grip 3 mm, width 65 mm, movable



▲ double sided grip step
▲ price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125	95	65	33	30	57	175,00	80 878 565				●				●		

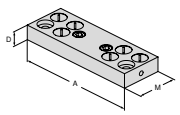
Pendulum jaw, movable



▲ Price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80	125		19		76	366,00	80 878 870				●				●	●	
	125	180		22		95	381,00	80 878 570				●				●	●	
	160	256		22		170	649,00	80 878 670				●				●		

Adapter jaw

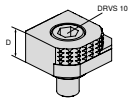


▲ Price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80	125		19		48	260,00	80 901 501				●						
	125	180		22		62	309,00	80 901 502				●						
	160	256		22		125	433,00	80 901 503				●						

System jaws overview

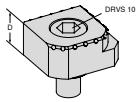
6 function indexable jaw



- 1 = Smooth, carbide coated
- 2 = Grip with 3 mm step
- 3 = Grip with 8 mm step
- 4 = Grip with 18 mm step
- 5 = Rough grip with 8 mm step
- 6 = Round grip
- M_{max} = 60 Nm
- Including fixation screws

Description	A	D	D_1	M	price	Article no.	Type association								
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
		18			70,00	80 892 246	●	●	●	●		●		●	●	

6x indexable jaw, carbide grip



- 1 = Smooth
- 2 = Carbide grip
- 3 = Carbide grip with 3 mm step
- 4 = Carbide grip with 8mm step
- 5 = Round carbide grip with 8 mm step
- 6 = Round carbide grip
- Incl. fixing screws

Description	A	D	D_1	M	price	Article no.	Type association								
						NEW									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
		18			100,00	80 890 35300	●	●	●	●		●		●	●	



Maximum precision and process security

ESG 5 single vice, mechanical version with high precision and clamping force.
Closed system with optimised chip flow for high process security.

Your benefits:

- High process security
- Compact design with ideal accessibility
- High clamping force, so pre-stamping is not necessary
- Quick and easy jaw change with 2 screws
- Extensive modular jaw range

Clamping/aligning:



Mounting with zero point clamping system
ESG 5 – 80 mm L-130 mm + L-190 mm
ESG 5 – 125 mm L-160 mm + L-235 mm

1 mounting bolt + MNG-indexing bolt



Mounting with zero point clamping system
ESG 5 – 125 mm + L-300 mm
ESG 5 – 160 mm + L-280 mm + L-480 mm

2 mounting bolts



Dia. 12^{H7} precision holes are present in all variants for positioning the ESG 5 with precision. All variants can be mounted with screws from above through the base body.

Clamping/aligning:

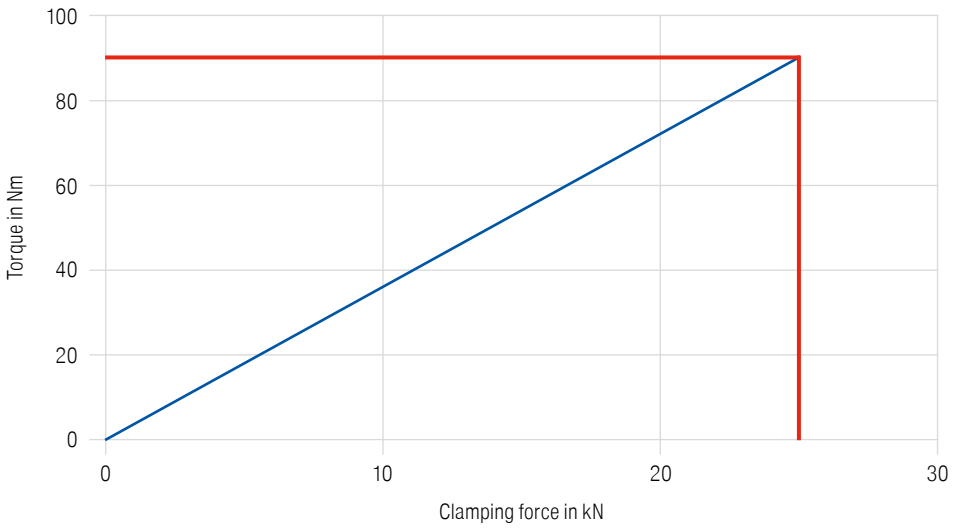


ESG 5 – 125 mm L-235 mm + L-300 mm
ESG 5 – 160 mm L-280 mm + L-480 mm

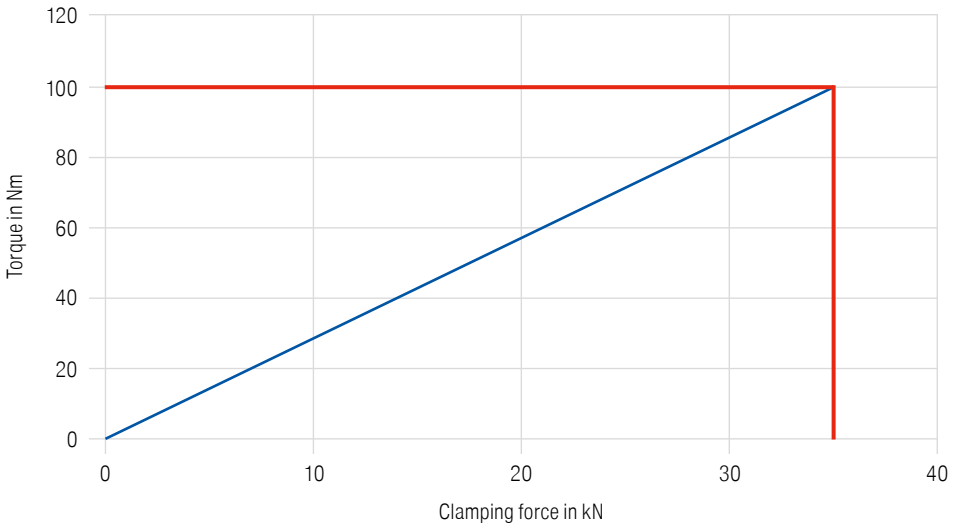
These 4 variants can also be clamped with clamping claws as an alternative.

Clamping force:

ESG 5 – 80 mm tightening torque / clamping force

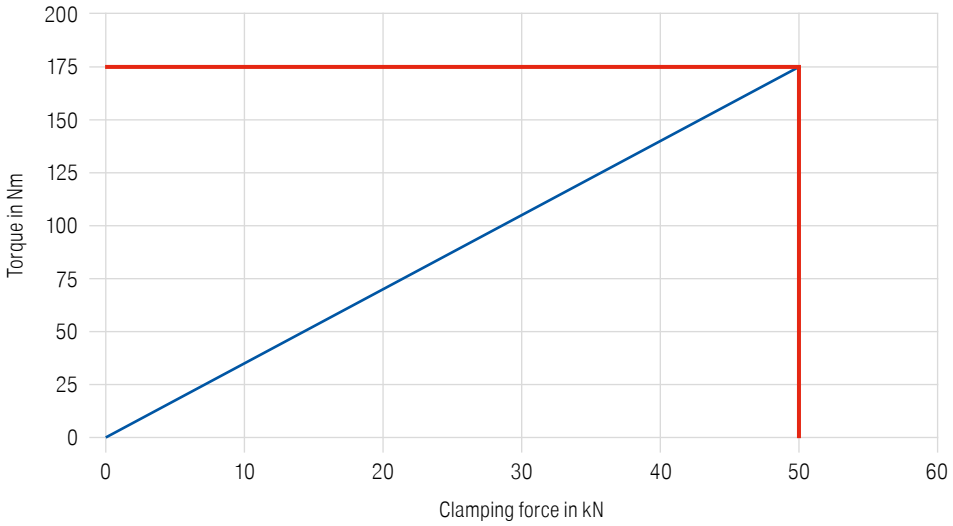


ESG 5 – 125 mm tightening torque / clamping force



Clamping force:

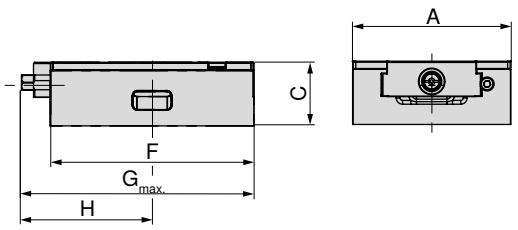
ESG 5 – 160 mm tightening torque / clamping force



Single vice without system jaws

- Without system jaws
- High angular accuracy thanks to fixed jaw with transverse slot
- ± 0.01 mm repeatability

ESG 5





NEW

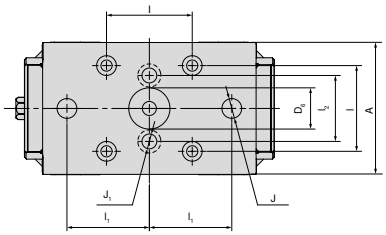
A mm	C ±0,01 mm	F mm	G max. mm	H mm	MXC kN	DRVS mm	WT kg	80 857 ... EUR Y4	
80	50	130	155	82	25	12	2,9	495,00	08000
80	50	190	205	102	25	12	4,4	595,00	08100
125	50	160	183	103	35	12	6,0	649,00	12500
125	50	235	250	132	35	12	8,4	829,00	12600
125	50	300	320	170	35	12	10,5	1.009,00	12700
160	70	280	328	169	50	14	17,0	1.530,00	16000
160	70	480	506	267	50	14	30,0	1.825,00	16100

Vice guide

Underside Dimensions	52+53	Structural dimension tables for the different jaws	54
System accessories	55	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

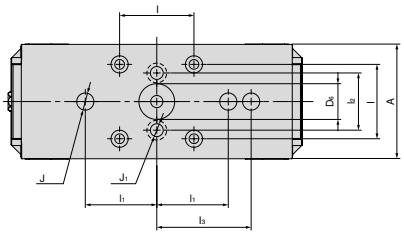
ESG 5 underside dimensions

Base width 80 mm and 130 mm length



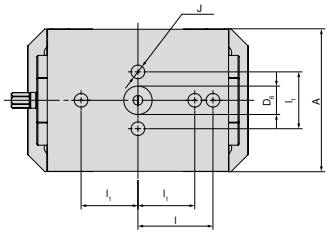
A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	l_2 mm	J_{H7} mm	J_1 mm
80	25	52	50	40	12	9

Base width 80 mm and length 190 mm



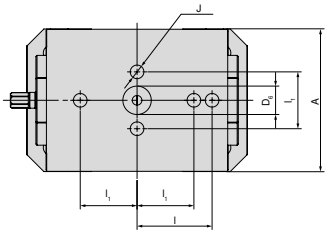
A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	l_2 mm	J_{H7} mm	J_1 mm
80	25	52	50	40	12	9

Base width 125 mm and length 160 mm



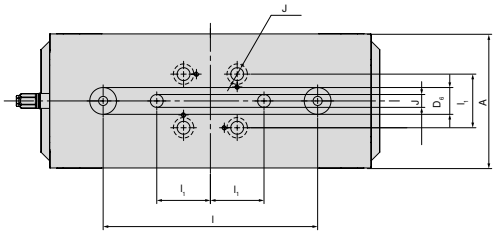
A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	J_{H7} mm
125	25	66	50	12

Base width 125 mm and length 235 mm



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	l_1 mm	J mm
125	25	200	50	12

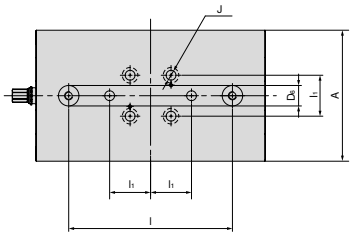
Base width 125 mm and 300 mm length



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	J_{H7} mm
125	25	200	50	12

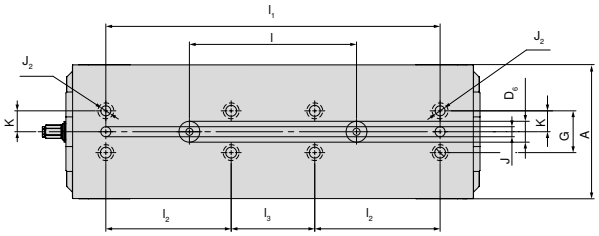
ESG 5 underside dimensions

Base width 160 mm and length 280 mm



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	J_{H7} mm
160	25	200	50	12

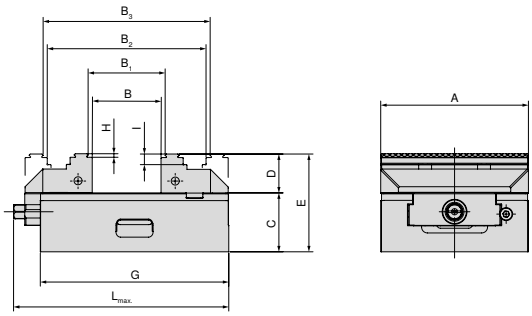
Base width 160 mm and length 480 mm



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	l_2 mm	$l_{3\ \pm0,015}$ mm	J_{H7} mm	$J_{2\ F7}$ mm	$K_{\pm0,02}$ mm	G mm
160	25	200	400	150	100	12	12	25	50

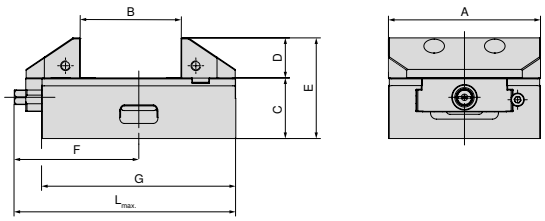
ESG 5 structural dimension table for the different jaws

With indexable jaw grip 3 mm, fixed and movable



A mm	B mm	B_1 mm	B_2 mm	B_3 mm	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	0 - 49	4 - 53	59 - 107	63 - 111	50	28	78	130	3	8	155	80 901 306 + 80 878 810
80	0 - 109	4 - 113	59 - 167	63 - 171	50	28	78	190	3	8	206	80 901 306 + 80 878 810
125	0 - 57	8 - 64	77 - 134	84 - 141	50	33	83	160	3	9	183	80 857 30000 + 80 878 510
125	0 - 127	8 - 134	77 - 204	84 - 211	50	33	83	235	3	9	250	80 857 30000 + 80 878 510
125	0 - 197	8 - 204	77 - 274	84 - 281	50	33	83	300	3	9	320	80 857 30000 + 80 878 510
160	0 - 121	8 - 128	118 - 238	125 - 245	70	50	120	280	3	10	328	80 901 300 + 80 878 610
160	0 - 324	8 - 331	118 - 441	125 - 448	70	50	120	480	3	10	506	80 901 300 + 80 878 610

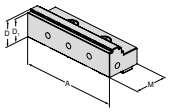
With 5-axis jaws



A mm	B mm	C mm	D mm	E mm	F mm	G mm	$L_{max.}$ mm	Article no. System jaws
125	25 - 82	50	33	83	103	160	183	80 857 30200 + 80 857 30100
125	25 - 152	50	33	83	132	235	250	80 857 30200 + 80 857 30100
125	25 - 222	50	33	83	170	300	320	80 857 30200 + 80 857 30100

System jaws overview

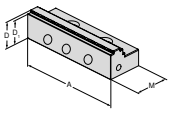
Indexable jaw, grip 3 mm, fixed



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	33	30	66	198,00	80 857 30000				●	●				●	

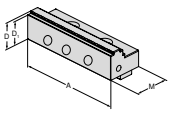
Indexable jaw, grip 3 mm, movable



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	33	30	57	134,00	80 878 510						●			●		

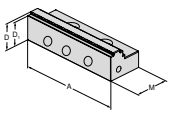
Indexable jaw, grip 3 mm, fixed



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	28	25	40	145,00	80 901 306					●	●					
160	50	47	81	361,00	80 901 300					●	●					

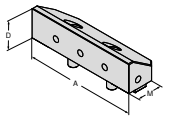
Indexable jaw, grip 3 mm, movable



▲ Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	28	25	40	120,00	80 878 810					●	●			●	●	
160	50	47	81	361,00	80 878 610					●	●			●		

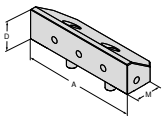
5-axis indexable jaw, fixed



▲ price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	33		44,5	200,00	80 857 30100						●			●	●	

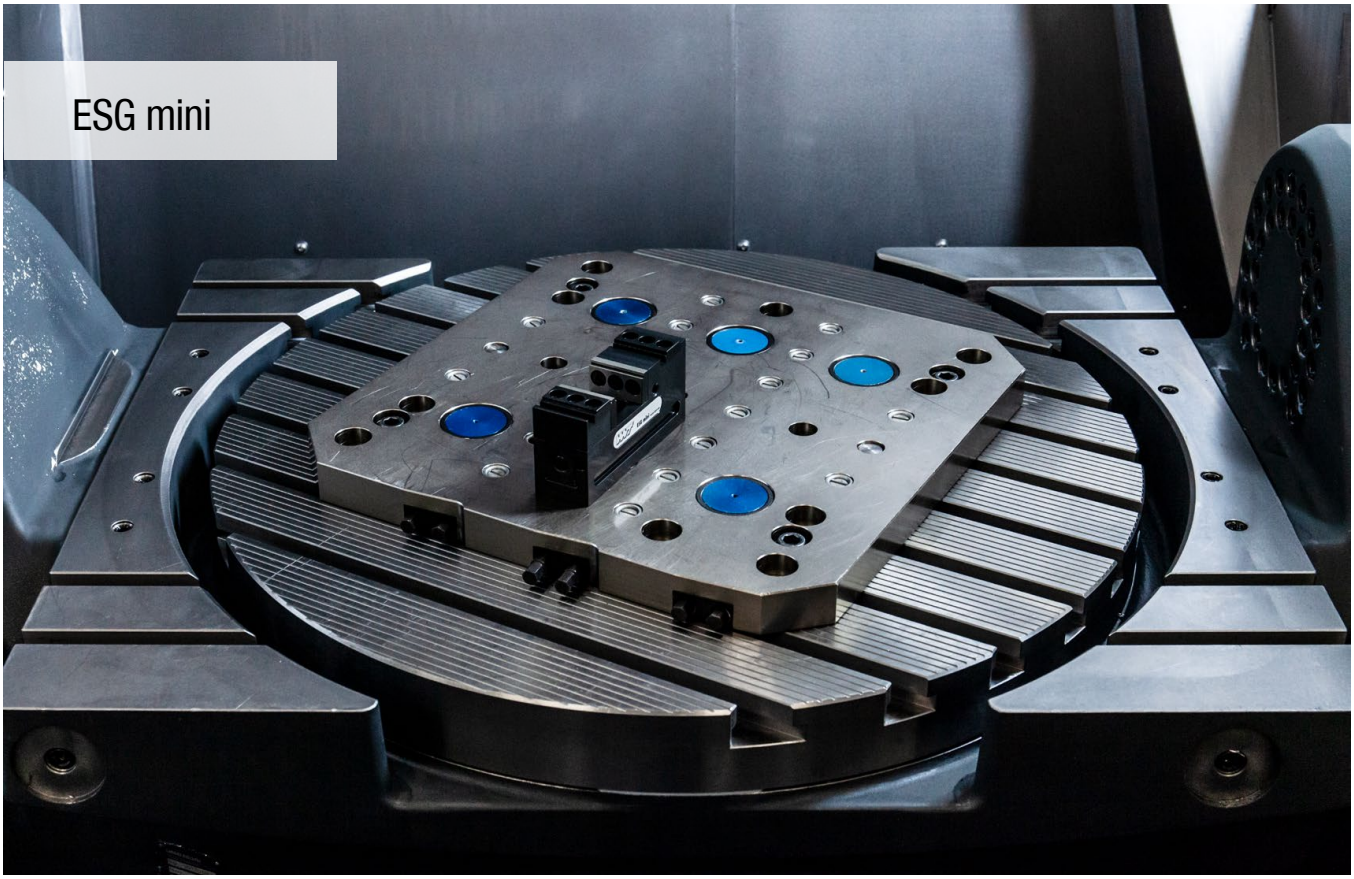
5-axis indexable jaw, movable



▲ price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	33		44,5	200,00	80 857 30200						●					

17



Small, light and flexible clamping system

Small part single clamping system in mechanical version with complete encapsulation and modular top jaws.
Ideal for small parts, multiple clamping operations and automation on pallet storage units.

Your benefits:

- Increased machine uptime
- Compact and precise
- 100% encapsulated

Clamping/aligning:

ESG mini 40 mm



In the basic version, 2 dia. 8^{H7} positioning holes are used for positioning. These can be used to align the ESG mini 40 mm on grid plates **(Article no. 80 897 944 and 80 897 946)** and machine tables with T-slot. The ESG mini 40 mm can be mounted from above with 2 M8 fixing screws.
Alternatively: Mount from below with 4 M6 fixing screws.



Alternatively, the ESG mini 40 mm can also be clamped laterally with clamping claws.



The ESG mini 40 mm can be placed on the MNG zero point clamping system in conjunction with an intermediate plate.

Clamping/aligning:

ESG mini 65 mm



In the basic version, 2 x dia. 8^{H7} precision and positioning holes and 4 x M8 threaded holes are provided for mounting from below.



Alternatively, the ESG mini 65 mm can also be clamped laterally with clamping claws.



The ESG mini 65 can be placed on the MNG zero point clamping system in conjunction with an intermediate plate.

ESG mini 100 mm



The ESG mini 100 mm can be aligned in the machine table's T-slot with the alignment sets for T-slot (12 / 14 / 16 / 18).



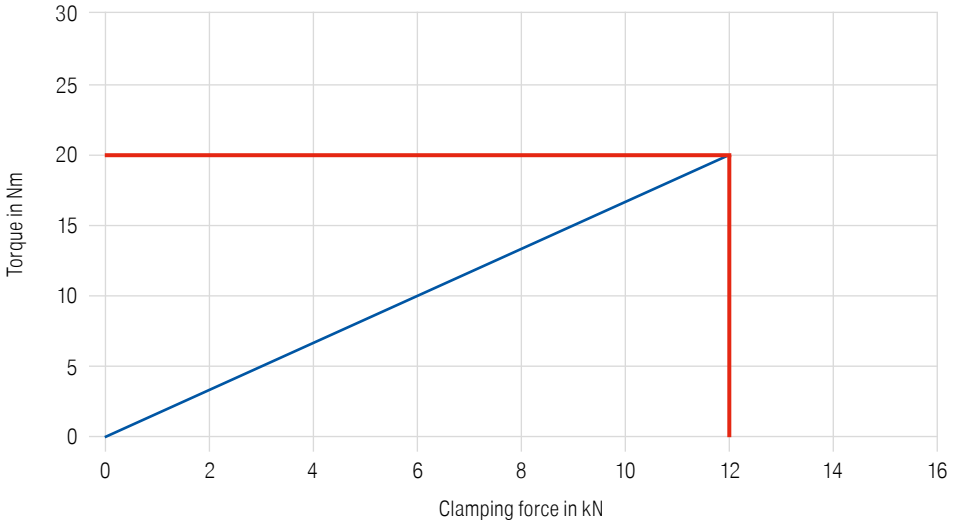
With clamping claws, the ESG mini 100 mm can be directly clamped on grid plates (50 mm x 50 mm) in a grid dimension of 100 mm x 100 mm or T-slot tables with 100 mm spacing.



An MNG mounting hole is integrated in the ESG mini 100 mm base body for the MNG zero point clamping system.

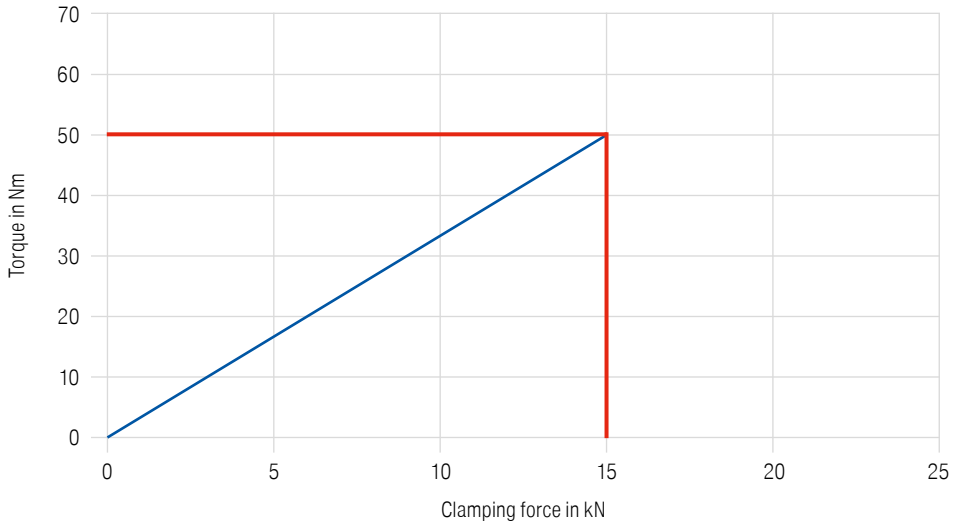
Clamping force:

ESG mini – 40 mm tightening torque/clamping force

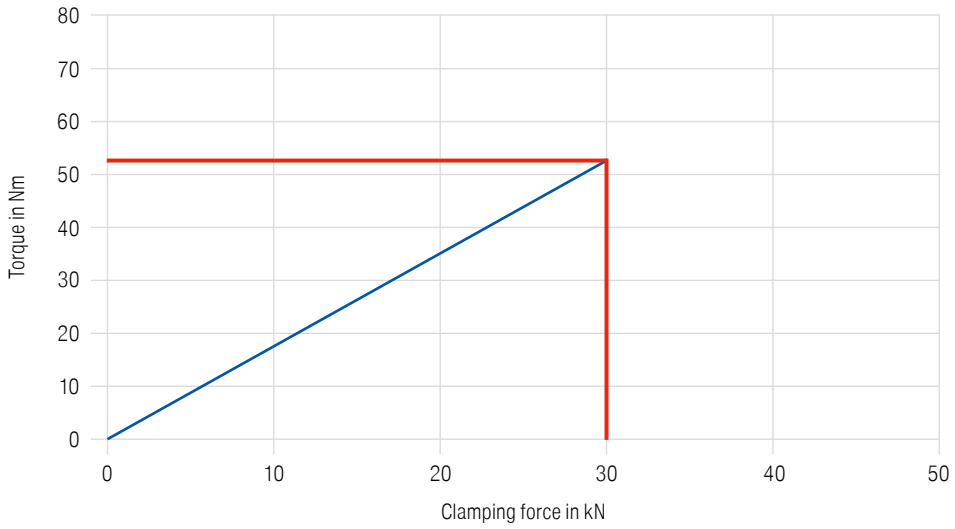


Clamping force:

ESG mini – 65 mm tightening torque/clamping force



ESG mini – 100 mm tightening torque/clamping force



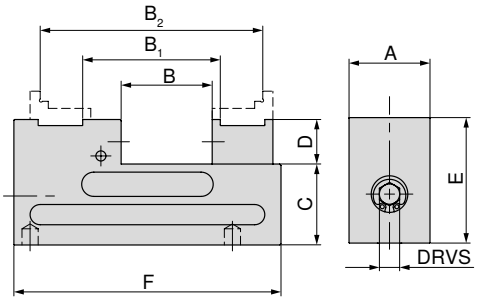
Sealed single small parts vice, 40 mm

- Clamping range from 0–122 mm
- Torque wrench 80 899 400 (8–50 Nm) required

Scope of supply:

ESG mini 40 without clamping screws

ESG mini





A mm	B mm	B1 mm	B2 mm	C ±0,01 mm	D mm	E mm	F mm	TQX Nm	MXC kN	DRVS mm	WT kg	80 897 ... EUR Y4	
40	0 - 58	40 - 81	83 - 122	40	22	62	132	20	12	8	1,7	540,00	040

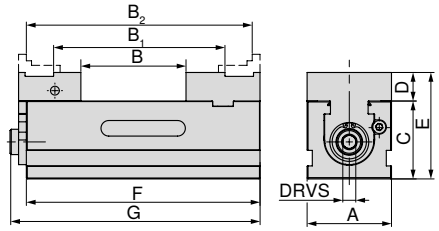
Sealed small parts single vice, 65 mm

- Adapter plate for mounting with MNG possible

Scope of supply:

ESG mini incl. base jaws

ESG mini





A mm	B mm	B1 mm	B2 mm	C +0/-0,02 mm	D mm	E mm	F mm	G mm	TQX Nm	MXC kN	DRVS mm	WT kg	80 897 ... EUR Y4	
65	17 - 80	68 - 131	111 - 174	60	22	82	180	193	65	20	10	5,5	930,00	067

Vice guide

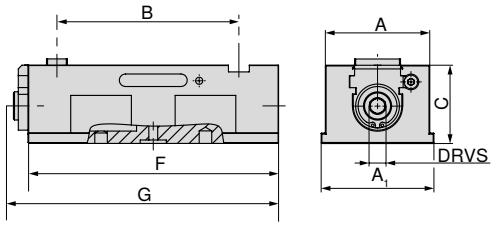
Underside Dimensions	61	Structural dimension tables for the different jaws	62
System accessories	63–66	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

Sealed single vice, 100 mm

Scope of supply:

▲ ESG 100 single vice without base jaws and wrench

ESG mini





A mm	A_1 mm	B mm	$C_{+0/-0,02}$ mm	F mm	G mm	TQX Nm	MXC kN	DRVS mm	WT kg	80 897 ... EUR Y4	
100	100	91 - 189	75	240	269	70	40	14	11,3	1.395,00	100

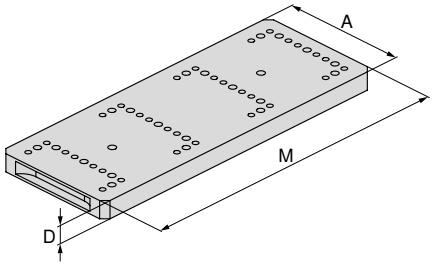
Adapter plate

▲ for mounting 4 or 6 ESG mini 40 vices

Scope of supply:

Plate with mounting parts for ESG mini-40 small parts vice, without MSG pullstud

ESG mini



Picture shows 4 location design



for	A mm	D mm	M mm	80 897 ... EUR Y4	
4 x ESG mini 40	140	20	360	607,00	944 1)
6 x ESG mini 40	140	20	560	939,00	946 1)

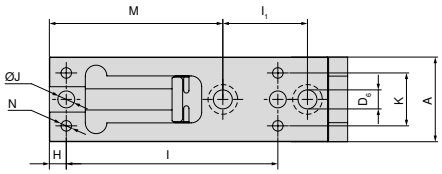
1) Not ex-stock

Vice guide

Underside Dimensions	61	Structural dimension tables for the different jaws	62
System accessories	63–66	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

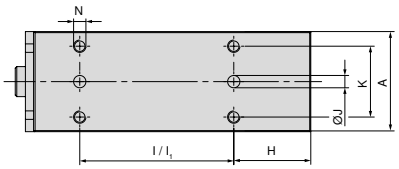
ESG mini underside dimensions

Base width 40 mm



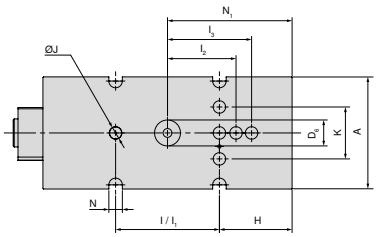
A mm	H mm	$l_{\pm 0,02}$ mm	l_1 mm	J_{H7} mm	M mm	K mm	N
40	8	100	40	8	82	25	M6

Base width 65 mm



A mm	l mm	$l_{1\ \pm 0,015}$ mm	K mm	J_{H7} mm	H mm	N
65	100	100	46	8	50	M8

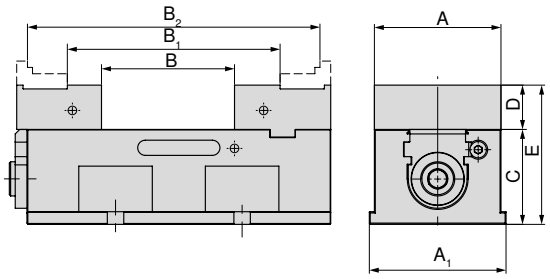
Base width 100 mm



A mm	$D_{6\ H7}$ mm	$l_{1\ \pm 0,015}$ mm	$l_{2\ \pm 0,015}$ mm	$l_{3\ \pm 0,015}$ mm	H mm	$l_{\pm 0,015}$ mm	K mm	J_{H7} mm	N_1 mm	N mm
100	25	100	66	81	70	100	50	12	120	13

ESG mini 100 structural dimension table for the different jaws

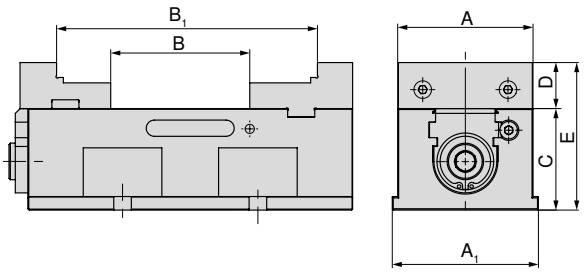
with standard base jaws and smooth jaw VS



A mm	A_1 mm	B mm	B_1 mm	B_2 mm	C mm	D mm	E mm
100	108	21 - 117	84 - 180	147 - 243	75	35	110

Article no. System jaws
80 897 900 + 80 897 901, 2 x 80 895 349

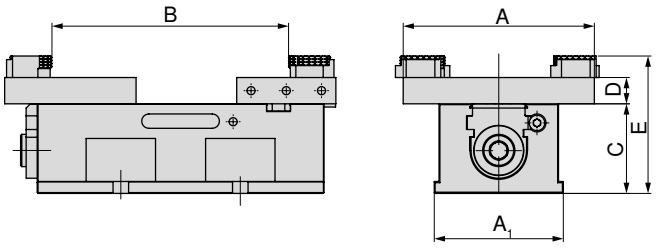
with combi jaws from the NCG 100 system



A mm	A_1 mm	B mm	B_1 mm	C mm	D mm	E mm
100	108	21 - 117	111 - 207	75	34	109

Article no. System jaws
80 890 343 + 80 890 347

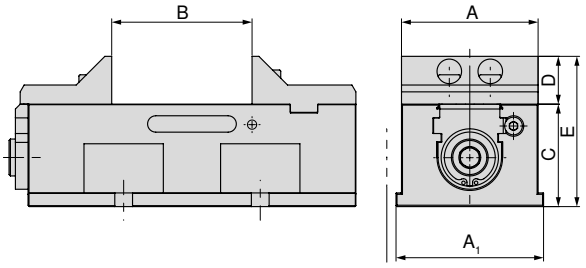
with pendulum jaws from the NCG system and adapter jaws, fixed



A mm	A_1 mm	B mm	C mm	D mm	E mm
160	108	24 - 212	75	22	115

Article no. System jaws
80 890 322 + 80 897 920

with 5-axis base jaws

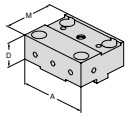


A mm	A_1 mm	B mm	C mm	D mm	E mm
100	108	21 - 117	75	35	110

Article no. System jaws
80 897 916 + 80 897 917

System jaws overview

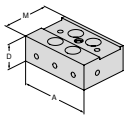
Standard base jaws, fixed



▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		35		76		212,00	80 897 900							●				

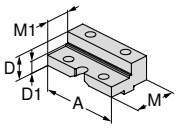
Standard base jaw, movable



▲ Price per piece

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		35		67		212,00	80 897 901							●				

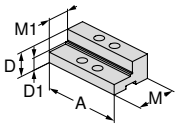
Combi reversible jaw, fixed



▲ For the extension of the clamping range
▲ Jaws hardened
▲ includes fixing bolts
▲ price per piece

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		34	23	76	50	254,00	80 890 343		●					●				

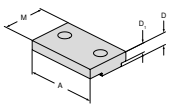
Combi reversible jaw, movable



▲ For the extension of the clamping range
▲ Jaws hardened
▲ includes fixing bolts
▲ price per piece

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		34	23	67	40	254,00	80 890 347		●					●				

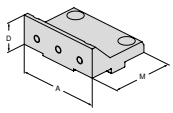
Soft jaw, horizontal



▲ for producing shaped jaws
▲ Price per piece

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
65		11,5	8,6	40		34,00	80 895 338							●				
100		13,5	10,6	50		41,00	80 895 348							●				

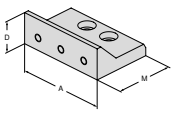
5 axis base jaws, fixed



▲ Price per piece

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		35		76		212,00	80 897 916							●				

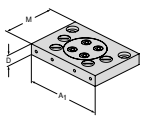
5 axis base jaws, movable



▲ Price per piece

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100		35		67		212,00	80 897 917							●				

Pendulum jaw, movable

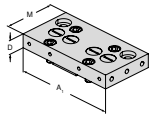


▲ for holding 6-way reversible jaws
▲ price per piece
▲ incl. 6 cover screws (with A = 100 mm, 4 pieces)

							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	160	22		110		358,00	80 890 322		●					●				

System jaws overview

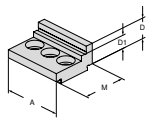
Adapter jaws, fixed



- for holding 6-way reversible jaws
- price per piece
- incl. 6 cover screws (with A = 100 mm, 4 pieces)

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	160	22		83		255,00	80 897 920							●				

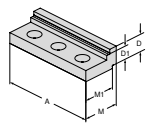
Jaw, smooth VS, carbide coated



- increased clamping range for finishing and 2 sided
- Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
40		14	9	30		137,00	80 895 341							●				

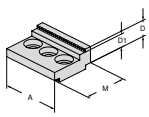
Jaw, smooth VS, carbide coated



- Increased clamping range for finish machining and 2nd operation
- Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
65		16,7	11,7	32	27	137,00	80 895 347							●				
100		19	14	40	35	147,00	80 895 349							●				

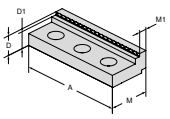
Jaw, grip, VS



- increased clamping range for clamping of unmachined parts
- Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
40		14	9	30		44,00	80 895 334							●				

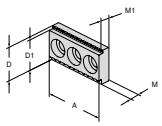
Jaw, grip, VS



- Increased clamping range for clamping of blanks
- Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
65		11,5	8,5	27	8,5	36,00	80 895 336							●				
100		20	17	40	8,5	72,00	80 895 346							●				

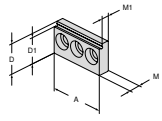
Grip stepped jaw, reversible



- for vertical and horizontal application
- Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
40		22	20	8	5,5	33,00	80 895 320							●				

Stepped jaw, smooth

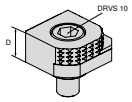


- can be used as smooth jaw or stepped jaw horizontally or vertically
- Hardened and ground jaws
- Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
40		22	19	8	5,5	65,00	80 895 318							●				

System jaws overview

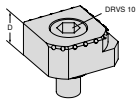
6 function indexable jaw



- 1 = Smooth, carbide coated
- 2 = Grip with 3 mm step
- 3 = Grip with 8 mm step
- 4 = Grip with 18 mm step
- 5 = Rough grip with 8 mm step
- 6 = Round grip
- M_{max} = 60 Nm
- Including fixation screws

Description	A	D	D_1	M	price	Article no.	Type association									
							NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
		18			70,00	80 892 246	●		●	●		●		●	●	

6x indexable jaw, carbide grip



- 1 = Smooth
- 2 = Carbide grip
- 3 = Carbide grip with 3 mm step
- 4 = Carbide grip with 8mm step
- 5 = Round carbide grip with 8 mm step
- 6 = Round carbide grip
- Incl. fixing screws

Description	A	D	D_1	M	price	Article no.	Type association									
						NEW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
					EUR	Y4										
		18			100,00	80 890 35300	●	●	●	●		●		●	●	

System accessories overview

Cover for combi reversible jaws, fixed

▲ Price per piece

Scope of supply:
including 2 fixing screws

ESG mini



for width mm	80 897 ... EUR Y4	
100	55,00	911

Clamping claws set

▲ Spacing for 50 mm or 100 mm and 100 mm T-slot distance
▲ Price per set of 2 pieces

Scope of supply:
including 2 screws M12

ESG mini

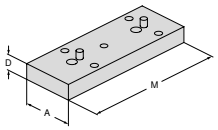


for width mm	G	80 897 ... EUR Y4	
100	M12	49,50	121

MNG-Adapter plate for ESG mini

Scope of supply:
Plate including mounting accessories

ESG mini





for width mm	A mm	D mm	M mm	80 897 ... EUR Y4	
40	65	17	132	304,00	904
65	65	20	180	409,00	906

Clamping screw for top jaws

▲ price per piece

ZSG mini | ESG mini



G	80 895 ... EUR Y4	
M6x8	1,50	013

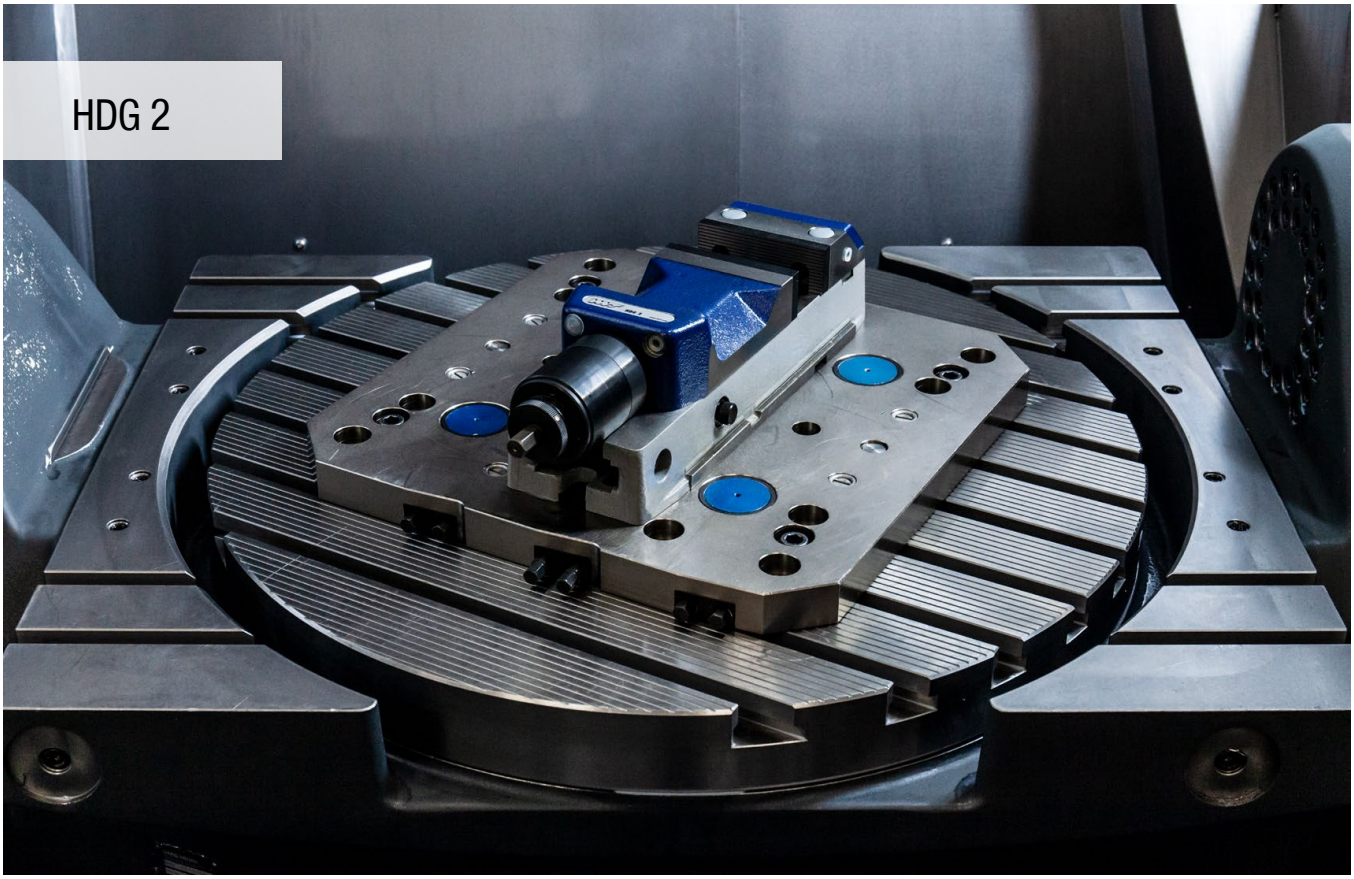
Fixing set for mounting through the body

▲ price per set

Scope of supply:
▲ 2 screws M8
▲ 2 straight pins Ø 8 mm



G	J mm	80 897 ... EUR Y4	
M8	8	13,50	019



Tried-and-tested high pressure clamping system

Mechanical machine vice with continuous force adjustment from 10% to 100% of the clamping force with just one crank turn and always the same final crank position. Quick clamping range adjustment via locking pins.

Your benefits:

- Save time and effort – just one crank turn
- Clamping time of less than one second
- Easy handling
- Can be continuously adjusted without tools
- High machining precision

Clamping/aligning:



Alignment through precision slot nuts on the slot table with 20^{H7} longitudinal/transverse slot in the base body



Clamp with screws through the base body or laterally with clamping claws

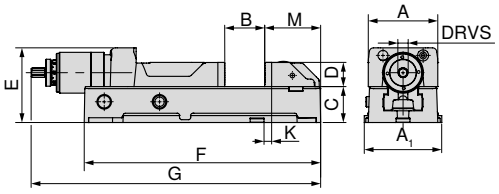
High pressure vice

- ▲ stepless power adjustment
- ▲ mechanical power transmission
- ▲ clamping force with only a single turn of the handle
- ▲ flexible Jaws, pre-machined to accommodate jaws for clamping range extension

Scope of supply:

High pressure vice incl. 4 clamping jaws, hand crank, 2 top jaws profiled and hardened, without clamping screws

HDG 2





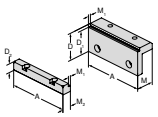
A mm	A_1 mm	B mm	C +0/-0,02 mm	D mm	E mm	F mm	$G_{max.}$ mm	K ±0,015 mm	M mm	DRVS mm	MXC kN	WT kg	80 892 ... EUR Y4	
100	112	0 - 159	52	35	108	342	521	11	81	12	4 - 30	20	1.829,00	**100**
125	140	0 - 201	62	40	118	400	584	28	85	12	4 - 40	27	2.089,00	**125**
160	176	0 - 300	78	50	149	544	784	40	112	12	5 - 60	55	2.815,00	**160**

Vice guide

Underside Dimensions	70	System accessories	69–70
General accessories	134–149		

System jaws overview

Jaws for clamping range extension



▲ Price per set (1 fixed and 1 movable jaw)

Description	A	D	D_1	D_2	M	M_1	M_2	price EUR	Article no. Y4	Type association: NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100	**56**	**50**	**22**	**37**	**5**	**19**		327,00	**80 892 225**							●			
125	**56**	**50**	**22**	**37**	**5**	**19**		442,00	**80 892 226**							●			
160	**71**	**65**	**23**	**47**	**5**	**23,5**		480,00	**80 892 227**							●			

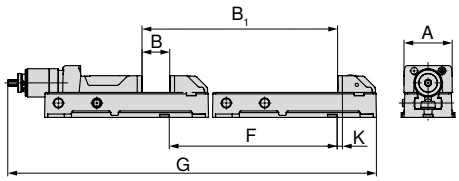
Illustration with extended clamping range



A	B	D	Vice Article Number	Jaw Article Number
100	118 - 278	56	80 892 100	80 892 225
125	137 - 338	56	80 892 125	80 892 226
160	169 - 470	71	80 892 160	80 892 227

Base body extension

HDG 2





A mm	B mm	B_1 mm	F mm	G mm	K mm	80 892 ... EUR Y4	
100	0-159	350-509	450	871,3	11	1.033,00	51000
125	0-201	410-611	410	994,1	28	1.132,00	51100
160	0-300	550-850	550	1334,15	40	1.555,00	51200

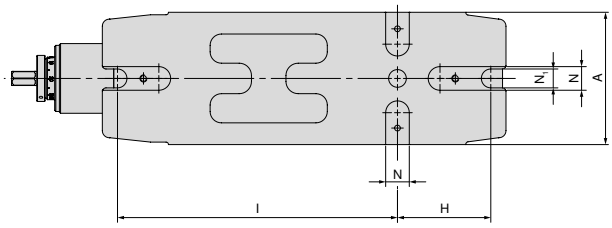
Shown with base body extension



A	B	D	Vice Article Number	Extension article number
100	350 - 509	35	80 892 100	80 892 51000
125	410 - 611	40	80 892 125	80 892 51100
160	550 - 850	50	80 892 160	80 892 51200

HDG 2 underside dimensions

Base width 100 mm, 125 mm, 160 mm



A mm	H mm	I mm	N_{H7} mm	N_1 mm
100	80	240	20	15
125	100	280	20	18
160	130	380	20	22

System accessories overview

Angular drive

HDG 2



for width mm		80 892 ... EUR Y4	
100/125		373,00	**314**
160		405,00	**315**

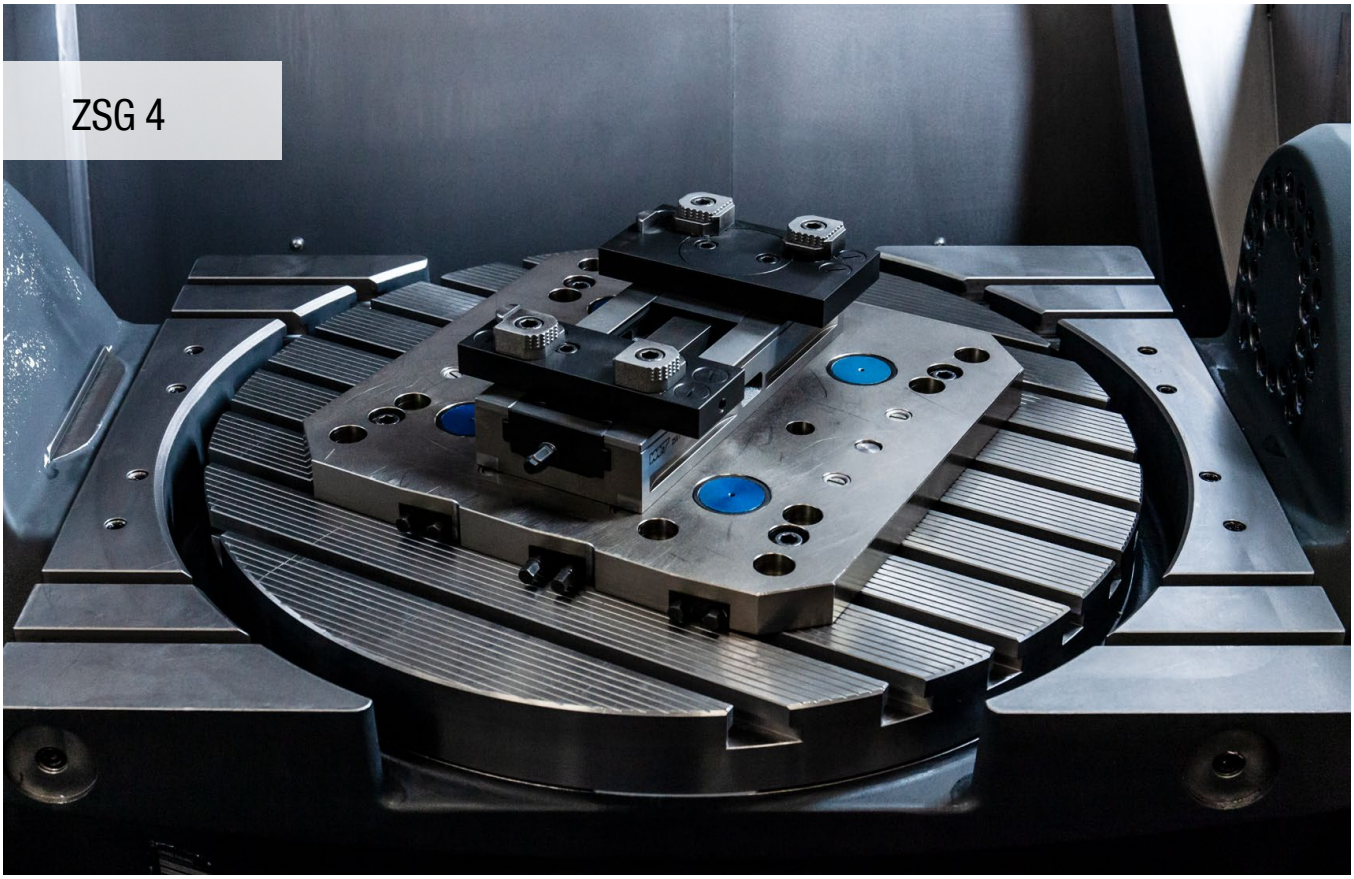
Hand crank

▲ for fast adjustment

HDG 2



for width mm	DRVS mm	80 892 ... EUR Y4	
100/125	12	69,00	**124**
160	12	85,00	**164**



Maximum precision and process security

ZSG 4 centric vice, mechanical version with high precision and clamping force.
Closed system with optimised chip flow for high process security.

Your benefits:

- High process security
- Compact design with ideal accessibility
- High clamping force, so pre-stamping is not necessary
- Quick and easy jaw change with 2 screws
- Extensive modular jaw range

Clamping/aligning:



Mounting with zero point clamping system
ZSG 4 – 80 mm L-130 mm + L-190 mm
ZSG 4 – 125 mm L-160 mm + L-235 mm

1 mounting bolt + MNG-indexing bolt



Mounting with zero point clamping system
ZSG 4 – 125 mm + L-300 mm
ZSG 4 – 160 mm + L-280 mm + L-480 mm

2 mounting bolts



Dia. 12^{H7} precision holes are present in all variants for positioning the ZSG 4 with precision. All variants can be mounted with screws from above through the base body.

17

Clamping/aligning:



ZSG 4 – 125 mm L-235 mm + L-300 mm
ZSG 4 – 160 mm L-280 mm + L-480 mm

These 4 variants can also be clamped with clamping claws as an alternative.

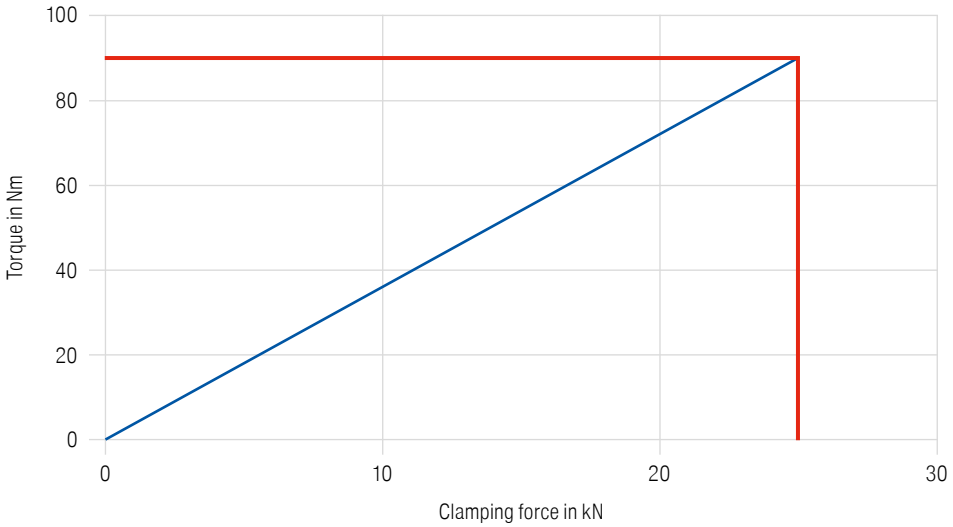


ZSG 4 – 80 mm L-130 mm + L-190 mm
ZSG 4 – 125 mm L-160 mm + L-235 mm + L-300 mm

All 5 variants are also available with mounting holes for the LANG zero point clamping system.

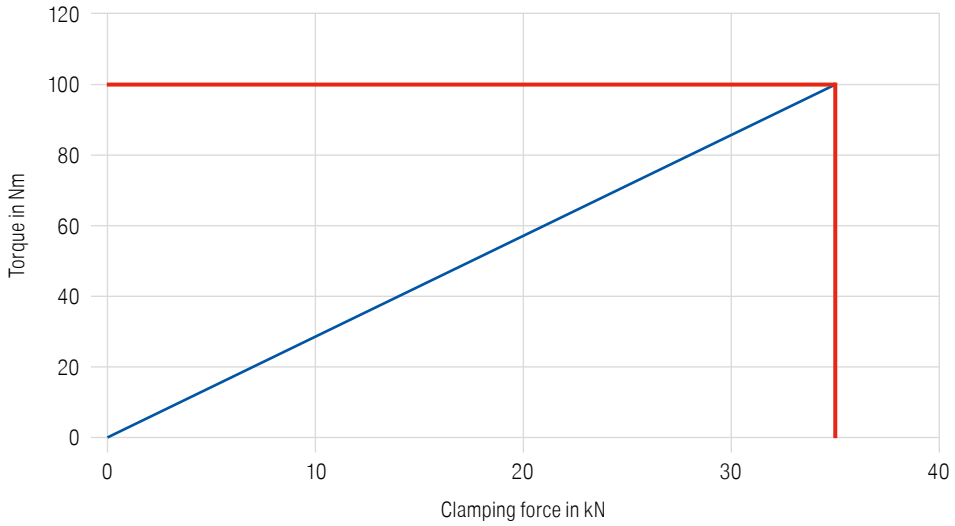
Clamping force:

ZSG 4 – 80 mm tightening torque/clamping force

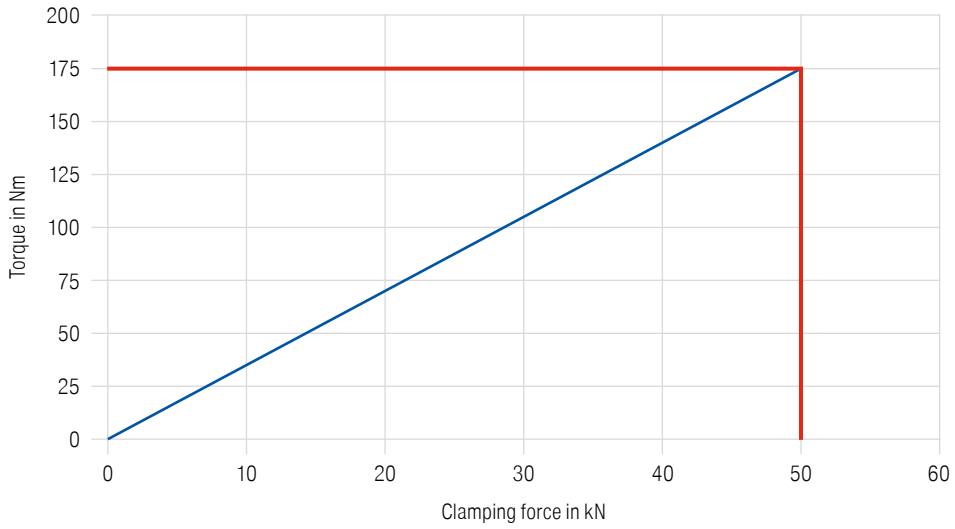


Clamping force:

ZSG 4 – 125 mm tightening torque/clamping force



ZSG 4 – 160 mm tightening torque/clamping force

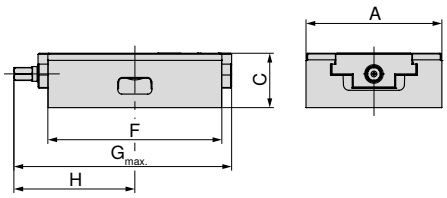


17

Sealed Centric Vice

- without system jaws
- ball bearing mounted spindle
- ±0.01 mm repeatability

ZSG 4





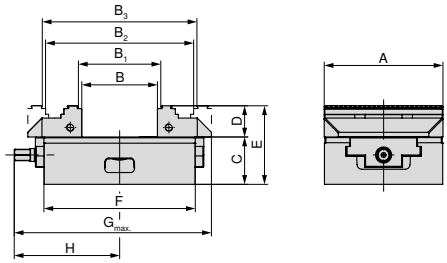
NEW

A mm	C ±0,01 mm	F mm	G max. mm	H mm	MXC kN	WT kg	80 878 ... EUR Y4	
80	50	130	157	81	25	3,0	495,00	081
80	50	190	206	104	25	4,5	595,00	08400
125	50	160	200	111,5	35	6,4	649,00	225
125	50	235	272	143,5	35	9,0	829,00	12900
125	50	300	340	181	35	11,8	1.009,00	226
160	70	280	315	172	50	21,0	1.530,00	160
160	70	480	524	276	50	35,0	2.889,00	260

Sealed Centric vice

- with 2 reversible grip jaws
- ball bearing mounted spindle
- ±0.01 mm repeatability

ZSG 4





NEW

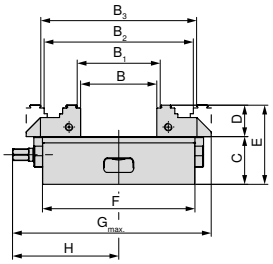
A mm	B mm	B1 mm	B2 mm	B3 mm	C ±0,01 mm	D mm	E mm	F mm	G max. mm	H mm	MXC kN	WT kg	80 878 ... EUR Y4	
80	0 - 59	4 - 63	59 - 117	63 - 121	50	28	78	130	157	81	25	4,0	695,00	080
80	0 - 123	4 - 127	59 - 181	63 - 185	50	28	78	190	206	104	25	5,5	795,00	08300
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111,5	35	8,7	876,00	025
125	0 - 155	8 - 162	77 - 218	84 - 225	50	33	83	235	272	143,5	35	9,5	1.056,00	12800
125	0 - 220	8 - 227	77 - 296	84 - 303	50	33	83	300	348	181	35	14,0	1.236,00	026

It is not possible to fit top jaws with a height of 40 mm, if this height is required, please use the reversible jaws with D = 40 mm (Article No. 80 878 520).

Sealed centric vice suitable for PNG, MNG and Lang zero point clamping systems

- with 2 reversible grip jaws
- ball bearing mounted spindle
- ±0.01 mm repeatability

ZSG 4





A mm	B mm	B1 mm	B2 mm	B3 mm	C ±0,01 mm	D mm	E mm	F mm	Gmax. mm	H mm	MXC kN	WT kg	80 878 ... EUR Y4	
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111,5	35	8,7	906,00	125


WNT MNG


Schunk VERO-S / WNT – PNG

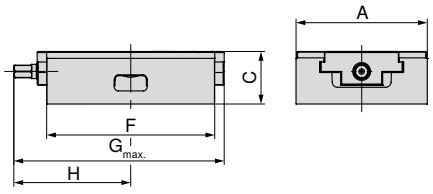

Lang Quick Point 96 x 96


Lang Quick Point 52 x 52

Sealed centric vice also suitable for PNG, MNG and Lang zero point clamping systems

- without system jaws
- ball bearing mounted spindle
- ±0.01 mm repeatability

ZSG 4





NEW

A mm	C mm	F mm	Gmax. mm	H mm	MXC kN	WT kg	80 878 ... EUR Y4	
125	50	235	272	143,5	35	9,0	860,00	13000
125	50	160	200	111,5	35	6,3	680,00	325
125	50	300	348	181	35	11,8	1.040,00	12600


WNT MNG


Schunk VERO-S / WNT – PNG

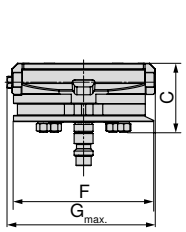

Lang Quick Point 96 x 96

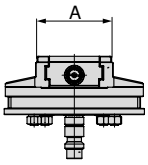

Lang Quick Point 52 x 52

Sealed centric vice for Erowa ITS 148

- ▲ without system jaws
- ▲ ball bearing mounted spindle
- ▲ ±0.01 mm repeatability

ZSG 4







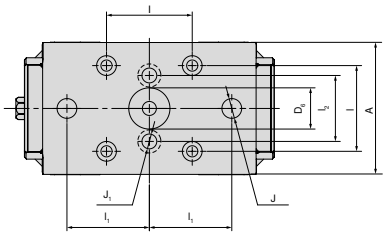
A mm	C mm	F mm	$G_{max.}$ mm	MXC kN	WT kg	80 878 ... EUR Y4	
80	73	148	157	25	5,6	1.215,00	082

Vice guide

Underside Dimensions	77+78	Structural dimension tables for the different jaws	79–82
System accessories	83–86	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

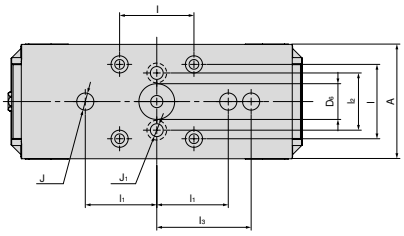
ZSG 4 underside dimensions

Base width 80 mm and 130 mm length



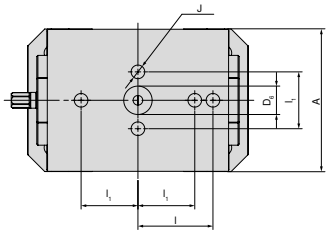
A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	l_2 mm	J_{H7} mm	J_1 mm
80	25	52	50	40	12	9

Base width 80 mm and length 190 mm



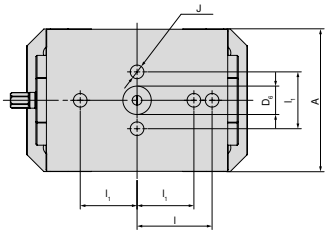
A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	l_2 mm	J_{H7} mm	J_1 mm
80	25	52	50	40	12	9

Base width 125 mm and length 160 mm



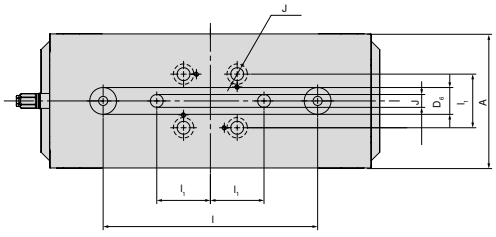
A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	J_{H7} mm
125	25	66	50	12

Base width 125 mm and length 235 mm



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	l_1 mm	J mm
125	25	66	50	12

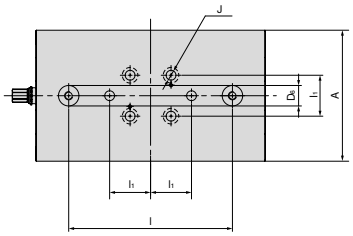
Base width 125 mm and 300 mm length



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	J_{H7} mm
125	25	200	50	12

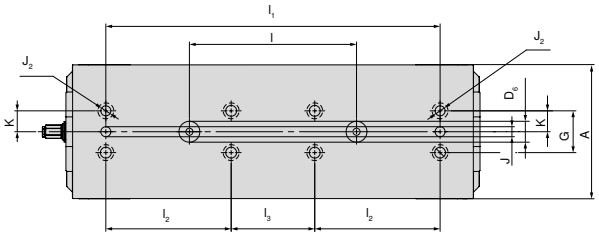
ZSG 4 underside dimensions

Base width 160 mm and length 280 mm



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	J_{H7} mm
160	25	200	50	12

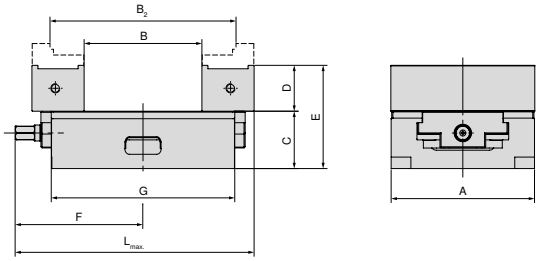
Base width 160 mm and length 480 mm



A mm	$D_{6\ H6}$ mm	$l_{\pm0,015}$ mm	$l_{1\ \pm0,015}$ mm	l_2 mm	$l_{3\ \pm0,015}$ mm	J_{H7} mm	$J_{2\ F7}$ mm	$K_{\pm0,02}$ mm	G mm
160	25	200	400	150	100	12	12	25	50

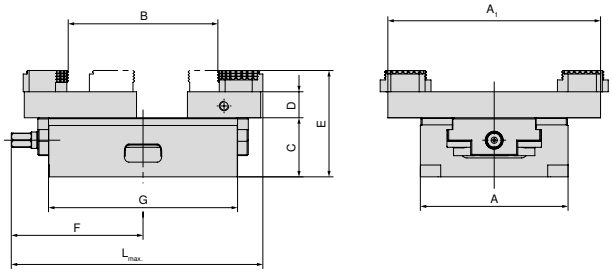
ZSG 4 structural dimension table for the different jaws

with combi jaws



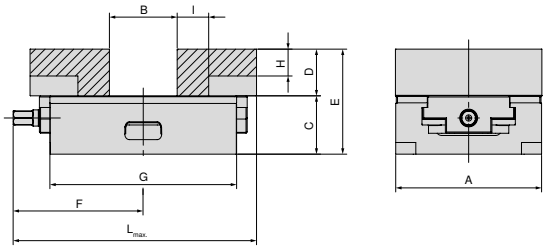
A mm	B mm	B_2 mm	C mm	D mm	E mm	F mm	G mm	$L_{max.}$ mm	Article no. System jaws
125	10,5 - 113	60 - 161	50	40	90	111,5	160	208	2 x 80 878 530
125	10,5 - 188	60 - 237	50	40	90	143,5	235	272	2 x 80 878 530
125	10,5 - 253	60 - 302	50	40	90	181	300	348	2 x 80 878 530

with pendulum and adapter plate



A mm	A_1 mm	B mm	C mm	D mm	E mm	F mm	G mm	$L_{max.}$ mm	Article no. System jaws
80	125	3 - 84	50	28	78	81	130	157	80 878 890 + 80 878 870
80	125	3 - 145	50	28	78	104	190	206	80 878 890 + 80 878 870
125	180	35 - 126	50	22	90	111,5	160	212	80 878 590 + 80 878 570
125	180	35 - 201	50	22	90	143,5	235	272	80 878 590 + 80 878 570
125	180	35 - 250	50	22	90	181	300	352	80 878 590 + 80 878 570
160	256	16 - 292	70	22	110	170	280	315	80 878 690 + 80 878 670
160	256	16 - 406	70	22	110	276	480	524	80 878 690 + 80 878 670

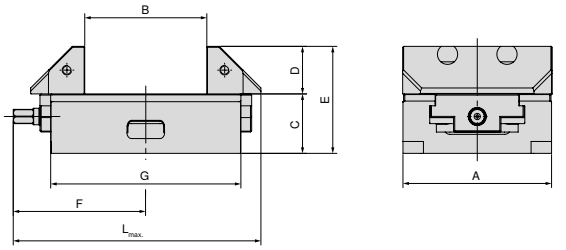
With aluminium jaws



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	0 - 44	50	28	78	81	130	10	17	157	2 x 80 878 850
80	0 - 108	50	28	78	104	190	10	17	206	2 x 80 878 850
125	0 - 58	50	40	90	111,5	160	17	27	208	2 x 80 878 550
125	0 - 133	50	40	90	143,5	235	17	27	272	2 x 80 878 550
125	0 - 198	50	40	90	181	300	17	27	348	2 x 80 878 550
160	0 - 123	70	50	120	170	280	26	25	315	2 x 80 878 305
160	10 - 336	70	50	120	276	480	26	25	524	2 x 80 878 305

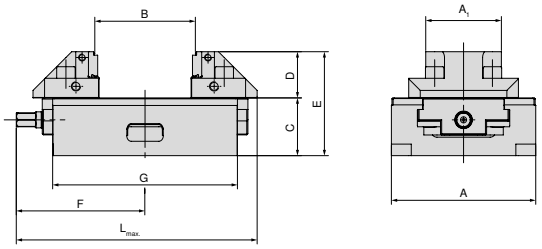
ZSG 4 structural dimension table for the different jaws

With 5-axis jaws



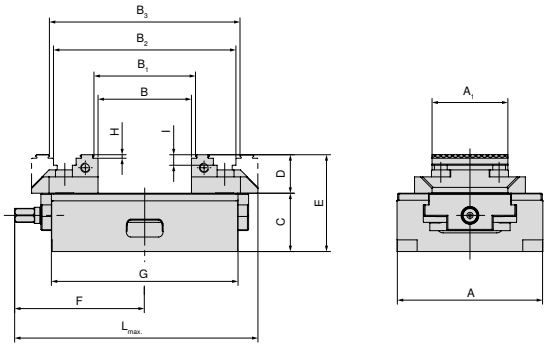
A mm	B mm	C mm	D mm	E mm	F mm	G mm	$L_{max.}$ mm	Article no. System jaws
125	22 - 102	50	40	90	115,5	160	208	2 x 80 878 625
125	22 - 177	50	40	90	143,5	235	272	2 x 80 878 625
125	22 - 242	50	40	90	181	300	348	2 x 80 878 625
160	15 - 140	70	50	120	170	280	315	2 x 80 878 660
160	28 - 354	70	50	120	276	480	524	2 x 80 878 660

With 5 axis jaws, grip 3 mm, width 65 mm



A mm	A_1 mm	B mm	C mm	D mm	E mm	F mm	G mm	$L_{max.}$ mm	Article no. System jaws
125	65	8 - 87	50	40	90	115,5	160	208	2 x 80 878 665
125	65	8 - 162	50	40	90	143,5	235	272	2 x 80 878 665
125	65	8 - 227	50	40	90	181	300	348	2 x 80 878 665

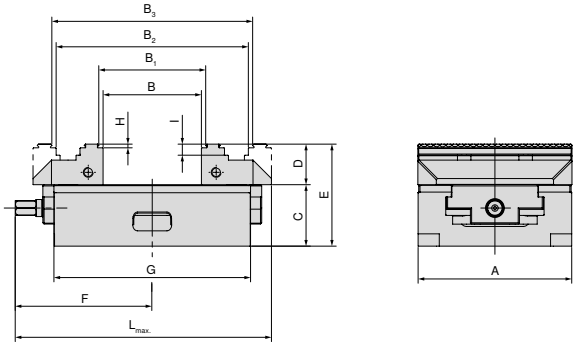
With indexable jaws, grip 3 mm, height 65 mm



A mm	A_1 mm	B mm	B_1 mm	B_2 mm	B_3 mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
125	65	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	111,5	160	3	9	208	2 x 80 878 565
125	65	0 - 142	8 - 149	77 - 218	84 - 225	50	33	83	143,5	235	3	9	272	2 x 80 878 565
125	65	0 - 220	8 - 227	77 - 296	84 - 303	50	33	83	181	300	3	9	348	2 x 80 878 565

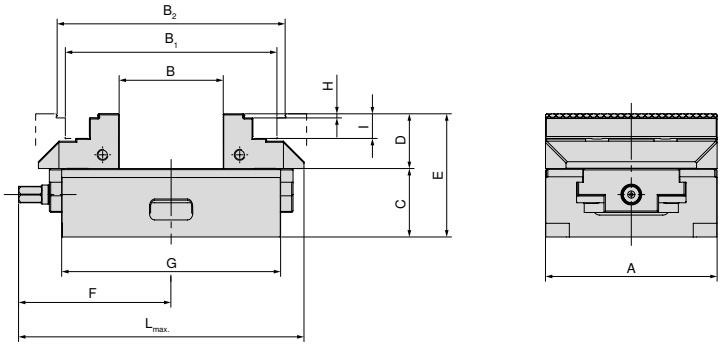
ZSG 4 structural dimension table for the different jaws

With indexable jaws, grip 3 mm



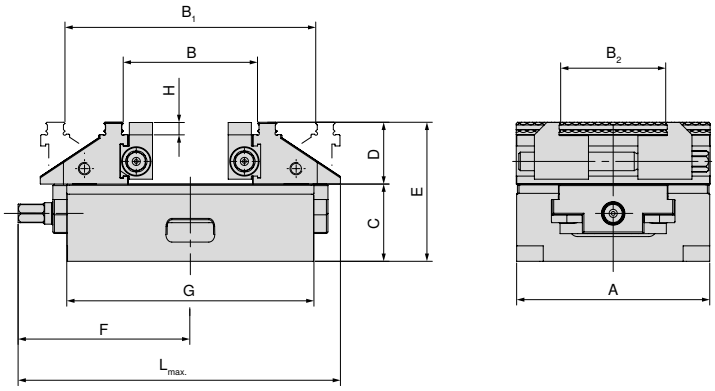
A mm	B mm	B_1 mm	B_2 mm	B_3 mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
160	0 - 127	8 - 134	118 - 244	125 - 251	70	50	120	170	280	3	10	315	2 x 80 878 610
160	15 - 341	22 - 348	132 - 458	139 - 465	70	50	120	276	480	3	10	524	2 x 80 878 610

With indexable jaws, grip, height 40 mm



A mm	B mm	B_1 mm	B_2 mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
125	0 - 75	75 - 154	88 - 166	50	40	90	111,5	160	3	9	208	2 x 80 878 520
125	0 - 230	75 - 229	88 - 241	50	40	90	143,5	235	3	9	272	2 x 80 878 520
125	0 - 215	75 - 294	88 - 306	50	40	90	181	300	3	9	348	2 x 80 878 520

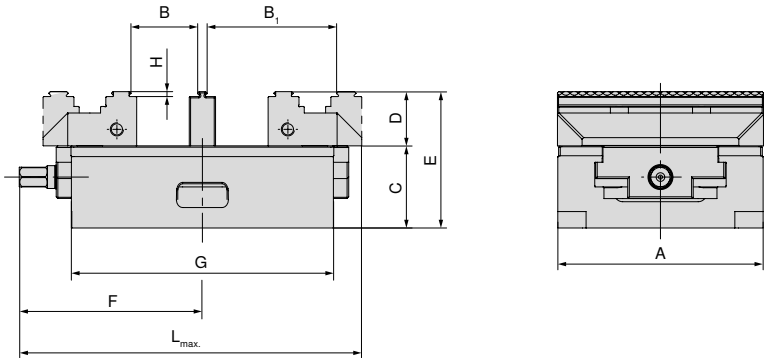
With 6 face jaw system for 125 mm jaw width



A mm	B mm	B_1 mm	B_2 mm	C mm	D mm	E mm	F mm	G mm	H mm	$L_{max.}$ mm	Article no. System jaws
125	39 - 86	83 - 161	37 - 101	50	40	90	111,5	160	8	209	2 x 80 878 525
125	39 - 161	83 - 236	37 - 101	50	40	90	143,5	235	8	272	2 x 80 878 525
125	39 - 226	83 - 301	37 - 101	50	40	90	181	300	8	349	2 x 80 878 525

ZSG 4 structural dimension table for the different jaws

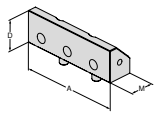
with middle jaw, grip 3 mm (width 28 mm / 33 mm) for jaw width 125 mm



A mm	B mm	B_1 mm	C mm	D mm	E mm	F mm	G mm	H mm	$L_{max.}$ mm	Article no. System jaws
80	8 - 28	37 - 57	50	28	78	81	130	3	157	2 x 80 878 810 + 80 878 31200
80	14 - 22	31 - 51	50	28	78	81	130	3	157	2 x 80 878 810 + 80 878 33400
80	8 - 58	37 - 87	50	28	78	104	190	3	206	2 x 80 878 810 + 80 878 31200
80	14 - 52	31 - 81	50	28	78	104	190	3	206	2 x 80 878 810 + 80 878 33400
125	9 - 40	47 - 78	50	33	83	111,5	160	3	208	2 x 80 878 510 + 80 878 31300
125	15 - 34	41 - 72	50	33	83	111,5	160	3	208	2 x 80 878 510 + 80 878 33500
125	9 - 72	47 - 110	50	33	83	143,5	235	3	272	2 x 80 878 510 + 80 878 31300
125	15 - 66	41 - 104	50	33	83	143,5	235	3	272	2 x 80 878 510 + 80 878 33500
125	9 - 110	47 - 148	50	33	83	181	300	3	348	2 x 80 878 510 + 80 878 31300
125	15 - 104	41 - 142	50	33	83	181	300	3	348	2 x 80 878 510 + 80 878 33500

System jaws overview

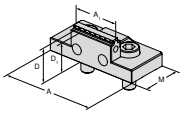
5-axis jaw, movable



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125		40		45,5	201,00	80 878 625								●		
	160		50		73	247,00	80 878 660								●		

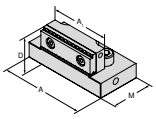
Indexable grip jaw 3 mm, width 40 mm, movable



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	80	40	28	25	40	160,00	80 878 840				●				●		

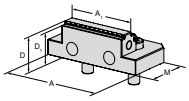
5-axis jaw, grip 3 mm, width 65 mm, movable



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	95	65,5	40		57	232,00	80 878 665								●		

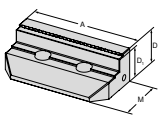
5-axis indexable jaw, grip 3 mm, width 65 mm, movable



▲ double sided grip step
▲ price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125	95	65	33	30	57	175,00	80 878 565				●				●		

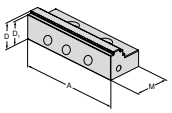
Indexable jaw, grip 3 mm, height 40 mm, movable



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125		40	37	59	252,00	80 878 520								●		

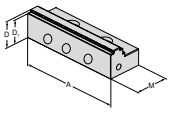
Indexable jaw, grip 3 mm, movable



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80		28	25	40	120,00	80 878 810				●	●			●	●	
	125		33	30	57	134,00	80 878 510					●			●		
	160		50	47	81	361,00	80 878 610				●	●			●		

Indexable jaw, grip 5 mm, movable

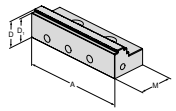


▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80		28	23	41	142,00	80 878 81100								●		
	125		33	28	57	158,00	80 878 51100								●		

System jaws overview

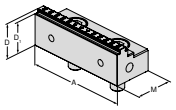
Indexable grip jaw, for aluminium and plastic



▲ Price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
	80		28		40	170,00	80 878 81200									●		
	125		33	28	57	186,00	80 878 51200									●		

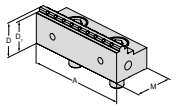
Indexable jaw embossed profile



▲ Price per piece
▲ suitable for LANG embossed profile

							NEW											
Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
	80		28	25	40	152,00	80 878 31000									●		
	125		33	30	57	208,00	80 878 31100									●		

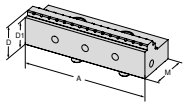
Indexable jaw, carbide, grip 3 mm, movable



▲ Price per piece

							NEW											
Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
	80		28	25	40	215,00	80 878 31500									●		
	125		33	30	57	305,00	80 878 31600									●		
	160		50	47	81	480,00	80 878 31700									●		

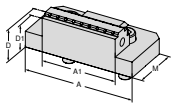
Indexable jaw, carbide, grip 5 mm, movable



▲ Price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
	80		28	23	40	215,00	80 878 33100									●		
	125		33	28	57	305,00	80 878 33000									●		

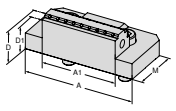
Indexable jaw, carbide grip 5 mm, width 40 mm, movable



▲ price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80	80	40	28	25	40	200,00	80 878 33200									●		

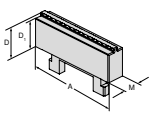
Indexable jaw, carbide grip 5 mm, width 65 mm, movable



▲ price per piece

Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
125	125	65	33	28	57	290,00	80 878 33300									●		

Centre jaw, grip 3 mm

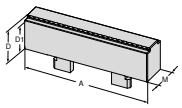


▲ price per piece

							NEW											
Description	for width	A	A_1	D	D_1	M	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
	80		28	25	16	98,00	80 878 31200									●		
	125		33	30	16	138,00	80 878 31300									●		

System jaws overview

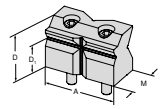
Centre jaw, grip 3 mm



▲ price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
							NEW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	80		28	25	24	98,00	80 878 33400								●		
	125		33	30	26	138,00	80 878 33500								●		

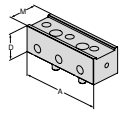
Prismatic jaw



▲ Prism jaw with horizontal and vertical prism
▲ price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
							NEW	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
10 - 60	80		52	32	38,5	285,00	80 878 31800								●		
10 - 80	125		67	42	57	435,00	80 878 31900								●		

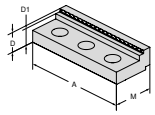
Combi jaw



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		40		45,5	155,00	80 878 530								●		

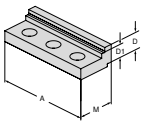
Jaw, grip, VS



▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		22	17	45	89,00	80 892 245								●		

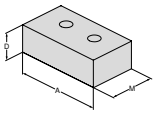
Jaw, smooth VS, carbide coated



▲ Increased clamping range for finish machining and 2nd operation
▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		19	14	45	213,00	80 892 240								●		

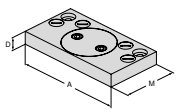
Alu jaw, movable



▲ for producing shaped jaws
▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	80		28		48	77,00	80 878 850				●				●	●	
	125		40		68	88,00	80 878 550				●				●	●	
	160		50		85	110,00	80 878 305				●				●		

Pendulum jaw, movable

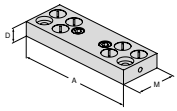


▲ Price per piece

for width	A	A_1	D	D_1	M	price	Article no.	Type association								
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						EUR	Y4										
	125		19		76	366,00	80 878 870				●				●	●	
	180		22		95	381,00	80 878 570				●				●	●	
	256		22		170	649,00	80 878 670				●				●		

System jaws overview

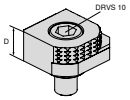
Adapter Jaw



▲ Price per piece

Description	for width	A	D	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80	125	19	39	260,00	80 878 890								●		
	125	180	22	62	309,00	80 878 590								●		
	160	256	22	125	433,00	80 878 690								●		

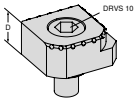
6 function indexable jaw



▲ 1 = Smooth, carbide coated
▲ 2 = Grip with 3 mm step
▲ 3 = Grip with 8 mm step
▲ 4 = Grip with 18 mm step
▲ 5 = Rough grip with 8 mm step
▲ 6 = Round grip
▲ M_{max} = 60 Nm
▲ Including fixation screws

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
			18		70,00	80 892 246	●	●	●	●		●		●	●	

6x indexable jaw, carbide grip



▲ 1 = Smooth
▲ 2 = Carbide grip
▲ 3 = Carbide grip with 3 mm step
▲ 4 = Carbide grip with 8mm step
▲ 5 = Round carbide grip with 8 mm step
▲ 6 = Round carbide grip
▲ Incl. fixing screws

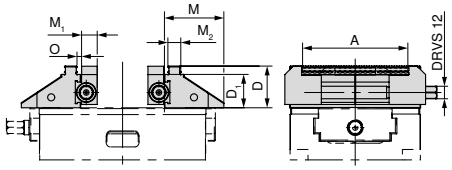
						NEW											
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
			18		100,00	80 890 35300	●	●	●	●		●		●	●	

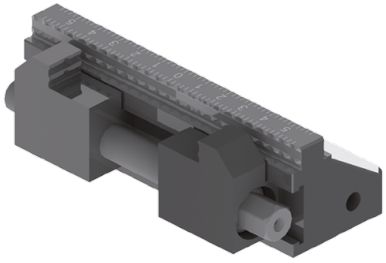
6 face jaw system for 125 mm jaw width

Scope of supply:

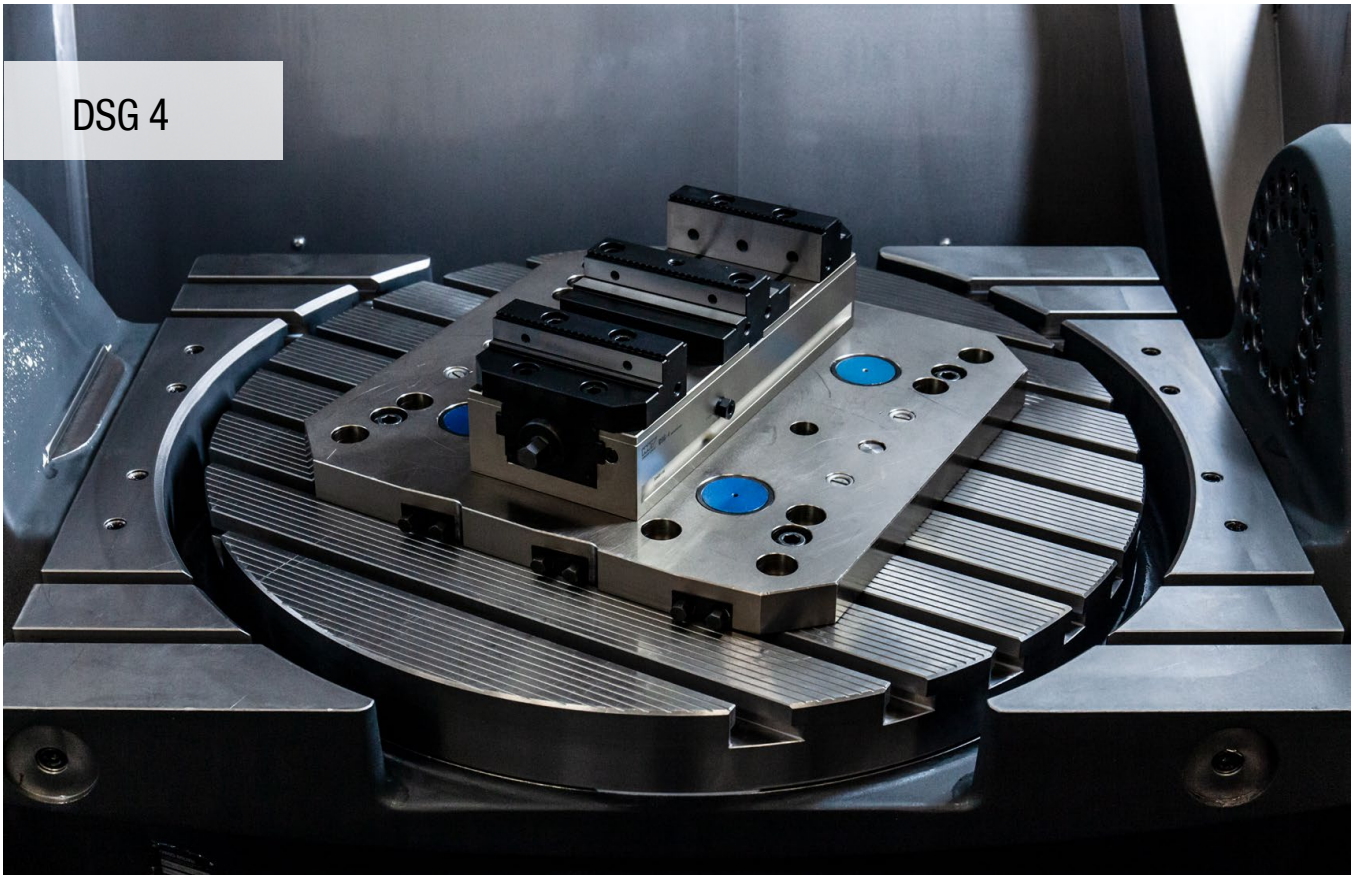
2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws

ZSG 4





for width mm	A mm	D mm	D_1 mm	M mm	M_1 mm	M_2 mm	O mm	WT kg	80 878 ...	EUR Y4
125	37 - 101	40	32	57	15	12,4	3,3	3,8	525	1.540,00



High accuracy and efficiency

The user-friendly DSG 4 clamping system guarantees consistently high precision and a wide application range.

Your benefits:

- Straightforward, stable third-hand function
- Quick and easy positioning on the MNG zero point clamping system
- High clamping force between 5 – 40 kN with low tightening torque
- Quick and easy jaw change with 2 screws
- Extensive modular jaw range

Clamping/aligning:



Mounting with MNG zero point clamping system (2 – 3 mounting bolts)



Mounting through the base body with four M8 screws



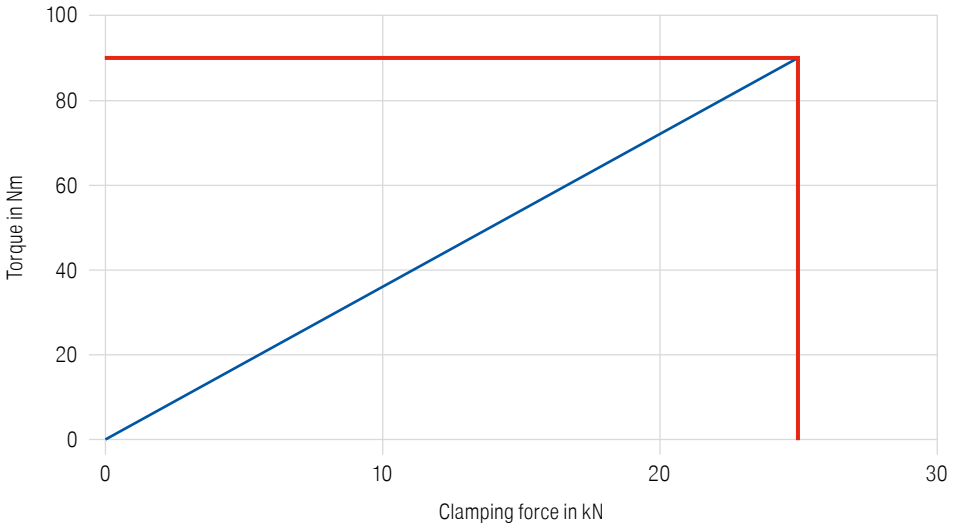
Mounting through the base body with two dowel screws **Article no. 80 895 019**



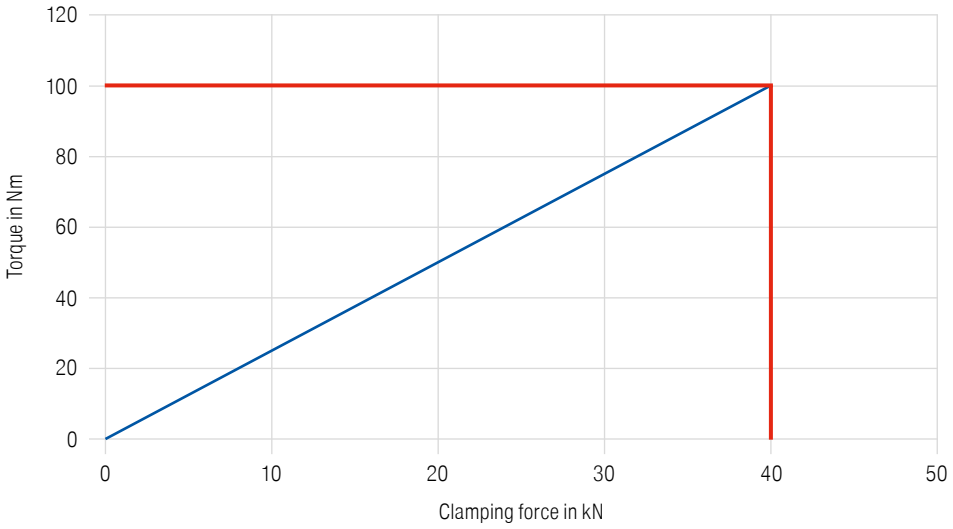
Mounting with 4 – 6 clamping claws **Article no. 80 890 315**

Clamping force:

DSG 4 – 80 mm tightening torque/clamping force



DSG 4 – 125 mm tightening torque/clamping force



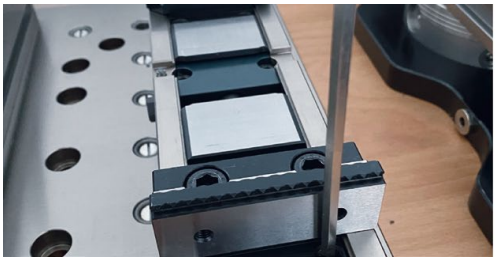
'Third hand' operation

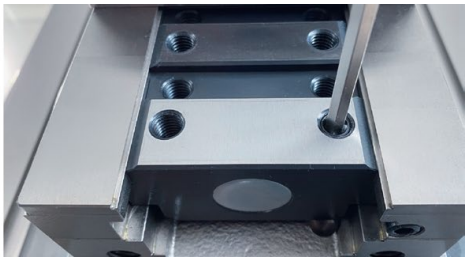
The third-hand operation function on the DSG 4 is ensured by pre-loading the rear slide with compression springs.



The lateral clamping screw A is not tightened, instead it is open approx. 1/2 turn. When the vice is fully open, the movable jaws B and C are to be placed in the appropriate slots of slides D and E and secured according to the workpiece size. Two workpieces of different sizes can also be clamped.

Conversion to single vice



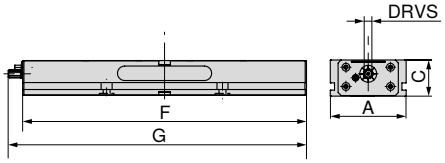


The rear slide is blocked via the hexagon socket grub screw and the DSG 4 can also be used as a single vice. **Important note:** Not suitable for using several vices as single vice next to one another. In this case, we advise modification with additional transverse slot in the base body and suitable fixed jaw.

Double vice without jaws

- 100 % encapsulated
- fast assembly and disassembly
- flexible clamping system

DSG 4





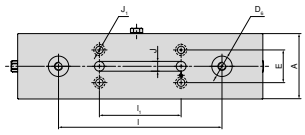
A mm	C mm	F mm	G mm	DRVS mm	TQX Nm	MXC kN	WT kg	80 906 ... EUR Y4	
80	55	300	308	12	90	0 - 25	8	1.390,00	080
125	60	320	347	14	100	0 - 40	14	1.646,00	125
125	60	390	417	14	100	0 - 40	17	1.825,00	12700
125	60	460	487	14	100	0 - 40	20	2.054,00	12800
125	60	530	557	14	100	0 - 40	24	2.238,00	12900
125	60	600	627	14	100	0 - 40	27	2.420,00	13000
125	60	670	697	14	100	0 - 40	30	2.534,00	13100
125	60	740	767	14	100	0 - 40	34	2.641,00	126

Vice guide

Structural dimension tables for the different jaws	91–93	System accessories	94+95
'Third hand' operation	88	MNG-/PNG zero point clamping system	107–126
General accessories	134–149		

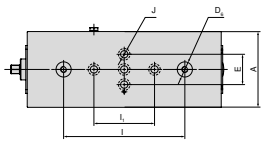
DSG 4 underside dimensions

Base width 80 mm and length 300 mm



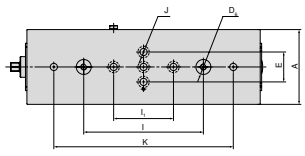
A mm	D_6 H6 mm	E ±0,015 mm	l ±0,01 mm	l_1 ±0,01 mm	J H7 mm	J_1 mm
80	25	40	200	100	12	9

Base width 125 mm and length 320 mm



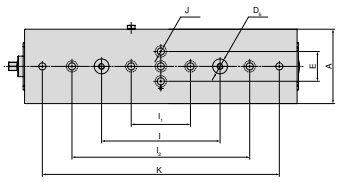
A mm	D_6 H6 mm	E ±0,015 mm	l ±0,01 mm	l_1 ±0,01 mm	J H7 mm
125	25	50	200	100	12

Base width 125 mm and length 390 mm



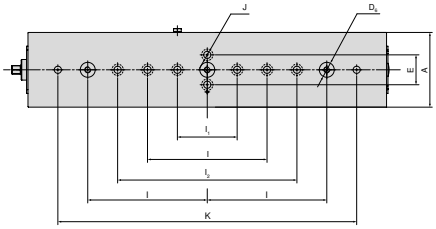
A mm	D_6 H6 mm	E ±0,015 mm	l ±0,01 mm	l_1 ±0,01 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	12	300

Base width 125 mm and length 460 mm, 530 mm



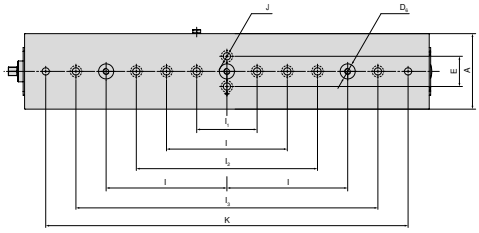
A mm	D_6 H6 mm	E ±0,015 mm	l ±0,01 mm	l_1 ±0,01 mm	l_2 ±0,002 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	300	12	400
125	25	50	200	100	300	12	500

Base width 125 mm and length 600 mm



A mm	D_6 H6 mm	E ±0,015 mm	l ±0,01 mm	l_1 ±0,01 mm	l_2 ±0,002 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	300	12	500

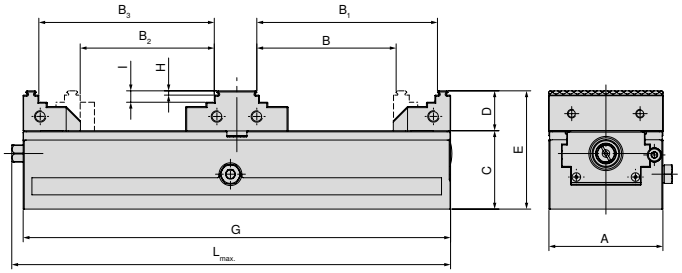
Base width 125 mm and length 670 mm, 740 mm



A mm	D_6 H6 mm	E ±0,015 mm	l ±0,01 mm	l_1 ±0,01 mm	l_2 ±0,002 mm	l_3 ±0,025 mm	J H7 mm	K ±0,002 mm
125	25	50	200	100	300	500	12	600
125	25	50	200	100	300	500	12	700

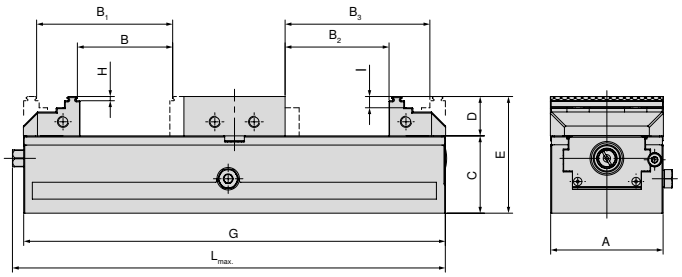
DSG 4 structural dimension table for the different jaws

With indexable jaws, grip and centre jaw, grip



A mm	B mm	B_1 mm	B_2 mm	B_3	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	25 - 97	54 - 126	31 - 93	51 - 122	55	28	83	300	3	8	308	2 x 80 878 810 + 80 906 300
125	40 - 86	75 - 121	42 - 79	68 - 114	60	40	100	320	3	18	347	2 x 80 901 303 + 80 906 304
125	40 - 121	75 - 156	42 - 114	68 - 149	60	40	100	390	3	18	417	2 x 80 901 303 + 80 906 304
125	40 - 156	75 - 191	42 - 149	68 - 184	60	40	100	460	3	18	487	2 x 80 901 303 + 80 906 304
125	40 - 191	75 - 226	42 - 184	68 - 219	60	40	100	530	3	18	557	2 x 80 901 303 + 80 906 304
125	40 - 226	75 - 261	42 - 219	68 - 254	60	40	100	600	3	18	627	2 x 80 901 303 + 80 906 304
125	40 - 261	75 - 296	42 - 254	68 - 289	60	40	100	670	3	18	697	2 x 80 901 303 + 80 906 304
125	40 - 296	75 - 331	42 - 289	68 - 324	60	40	100	740	3	18	767	2 x 80 901 303 + 80 906 304

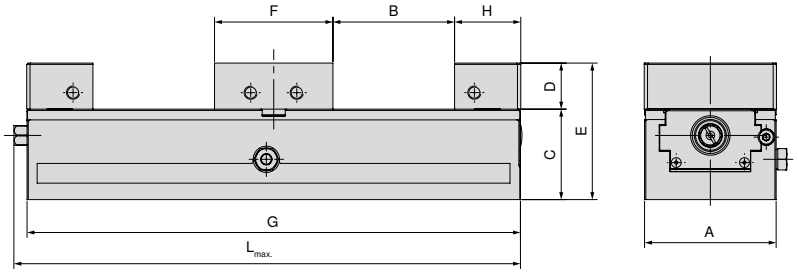
With indexable jaws, grip and centre jaw, smooth



A mm	B mm	B_1 mm	B_2 mm	B_3	C mm	D mm	E mm	G mm	H mm	I mm	$L_{max.}$ mm	Article no. System jaws
80	5 - 67	34 - 96	0 - 73	40 - 102	55	28	83	300	3	8	308	2 x 80 878 810 + 80 906 301
125	7 - 44	42 - 77	0 - 47	46 - 82	60	40	100	320	3	18	347	2 x 80 901 303 + 80 906 305
125	7 - 79	42 - 112	0 - 82	46 - 117	60	40	100	390	3	18	417	2 x 80 901 303 + 80 906 305
125	7 - 114	42 - 149	0 - 117	46 - 152	60	40	100	460	3	18	487	2 x 80 901 303 + 80 906 305
125	7 - 147	42 - 182	0 - 152	46 - 187	60	40	100	530	3	18	557	2 x 80 901 303 + 80 906 305
125	7 - 184	42 - 217	0 - 187	46 - 222	60	40	100	600	3	18	627	2 x 80 901 303 + 80 906 305
125	7 - 219	42 - 252	0 - 222	46 - 257	60	40	100	670	3	18	697	2 x 80 901 303 + 80 906 305
125	7 - 254	42 - 287	0 - 257	46 - 292	60	40	100	740	3	18	767	2 x 80 901 303 + 80 906 305

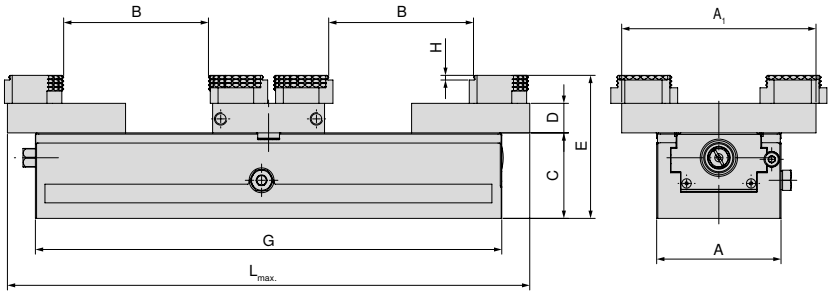
DSG 4 structural dimension table for the different jaws

With block jaws and centre jaw smooth



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	$L_{max.}$ mm	Article no. System jaws
80	0 - 73	55	28	83	72	300	40	308	2 x 80 901 31300 + 80 906 301
125	0 - 46	60	40	100	98	320	66	347	2 x 80 901 31500 + 80 906 305
125	0 - 81	60	40	100	98	390	66	417	2 x 80 901 31500 + 80 906 305
125	0 - 116	60	40	100	98	460	66	487	2 x 80 901 31500 + 80 906 305
125	0 - 151	60	40	100	98	530	66	557	2 x 80 901 31500 + 80 906 305
125	0 - 186	60	40	100	98	600	66	627	2 x 80 901 31500 + 80 906 305
125	0 - 221	60	40	100	98	670	66	697	2 x 80 901 31500 + 80 906 305
125	0 - 256	60	40	100	98	740	66	767	2 x 80 901 31500 + 80 906 305

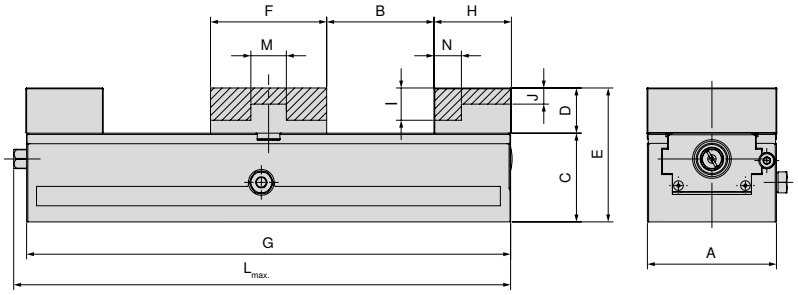
With pendulum and adapter plate



A mm	A_1 mm	B mm	C mm	D mm	E mm	G mm	H mm	$L_{max.}$ mm	Article no. System jaws
80	125	0 - 92	55	19	92	300	3	308	2 x 80 878 870 + 80 906 303
125	180	7 - 92	60	22	100	320	3	365	2 x 80 878 570 + 80 906 307
125	180	7 - 133	60	22	100	390	3	435	2 x 80 878 570 + 80 906 307
125	180	7 - 168	60	22	100	460	3	505	2 x 80 878 570 + 80 906 307
125	180	7 - 203	60	22	100	530	3	575	2 x 80 878 570 + 80 906 307
125	180	7 - 238	60	22	100	600	3	645	2 x 80 878 570 + 80 906 307
125	180	7 - 273	60	22	100	670	3	715	2 x 80 878 570 + 80 906 307
125	180	7 - 308	60	22	100	740	3	785	2 x 80 878 570 + 80 906 307

DSG 4 structural dimension table for the different jaws

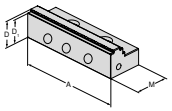
With aluminium jaws and aluminium centre jaw



A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	$L_{max.}$ mm	M mm	N mm	Article no. System jaws
80	0 - 66	55	28	83	72	300	40	20	10	308	22	17	2 x 80 878 850 + 80 906 302
125	0 - 42	60	40	100	98	320	68		17	347	38	28	2 x 80 878 550 + 80 906 306
125	0 - 77	60	40	100	98	390	68		17	417	38	28	2 x 80 878 550 + 80 906 306
125	0 - 112	60	40	100	98	460	68		17	487	38	28	2 x 80 878 550 + 80 906 306
125	0 - 147	60	40	100	98	530	68		17	557	38	28	2 x 80 878 550 + 80 906 306
125	0 - 182	60	40	100	98	600	68		17	627	38	28	2 x 80 878 550 + 80 906 306
125	0 - 217	60	40	100	98	670	68		17	697	38	28	2 x 80 878 550 + 80 906 306
125	0 - 252	60	40	100	98	740	68		17	767	38	28	2 x 80 878 550 + 80 906 306

System jaws overview

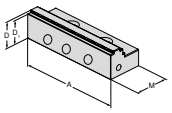
Indexable jaw, grip 3 mm, movable



▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
125		40	37	66		200,00	80 901 303					●				●	●	

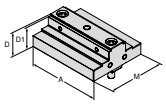
Indexable jaw, grip 3 mm, movable



▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80		28	25	40		120,00	80 878 810					●	●			●	●	

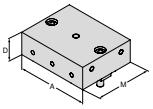
Centre jaw, grip



▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80		28	25	72		248,00	80 906 300										●	
125		40	37	98		324,00	80 906 304										●	

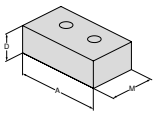
Centre jaw, smooth



▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80		28		72		190,00	80 906 301										●	
125		40		98		283,00	80 906 305										●	

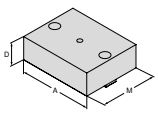
Alu jaw, movable



▲ for producing shaped jaws
▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80		28		48		77,00	80 878 850					●				●	●	
125		40		68		88,00	80 878 550					●				●	●	

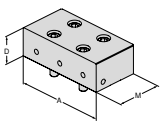
Centre jaw, Alu



▲ for producing shaped jaws
▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80		28		72		70,00	80 906 302										●	
125		40		98		93,00	80 906 306										●	

Block jaw, movable

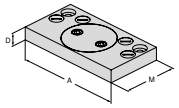


▲ Price per piece

Description	A	A_1	D	D_1	M	M_1	price	Article no.	Type association									
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							EUR	Y4										
80		28		40		217,00	80 901 31300					●				●	●	
125		40		66		305,00	80 901 31500					●				●	●	

System jaws overview

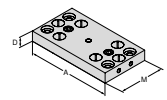
Pendulum jaw, movable



▲ Price per piece

for width	A	D	M	price	Article no.	Type association									
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	**125**	**19**	**76**	366,00	**80 878 870**				●				●	●	
125	**180**	**22**	**95**	381,00	**80 878 570**				●				●	●	

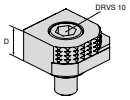
Centre jaw adapter plate, fixed



▲ Price per piece

for width	A	D	M	price	Article no.	Type association									
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	**125**	**19**	**72**	260,00	**80 906 303**									●	
125	**180**	**22**	**98**	309,00	**80 906 307**									●	

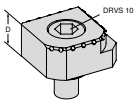
6 function indexable jaw



▲ 1 = Smooth, carbide coated
▲ 2 = Grip with 3 mm step
▲ 3 = Grip with 8 mm step
▲ 4 = Grip with 18 mm step
▲ 5 = Rough grip with 8 mm step
▲ 6 = Round grip
▲ M_{max} = 60 Nm
▲ Including fixation screws

for width	A	D	M	price	Article no.	Type association									
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
		18		70,00	**80 892 246**	●	●	●	●		●		●	●	

6x indexable jaw, carbide grip



▲ 1 = Smooth
▲ 2 = Carbide grip
▲ 3 = Carbide grip with 3 mm step
▲ 4 = Carbide grip with 8mm step
▲ 5 = Round carbide grip with 8 mm step
▲ 6 = Round carbide grip
▲ Incl. fixing screws

for width	A	D	M	price	NEW Article no.	Type association									
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
		18		100,00	**80 890 35300**	●	●	●	●		●		●	●	

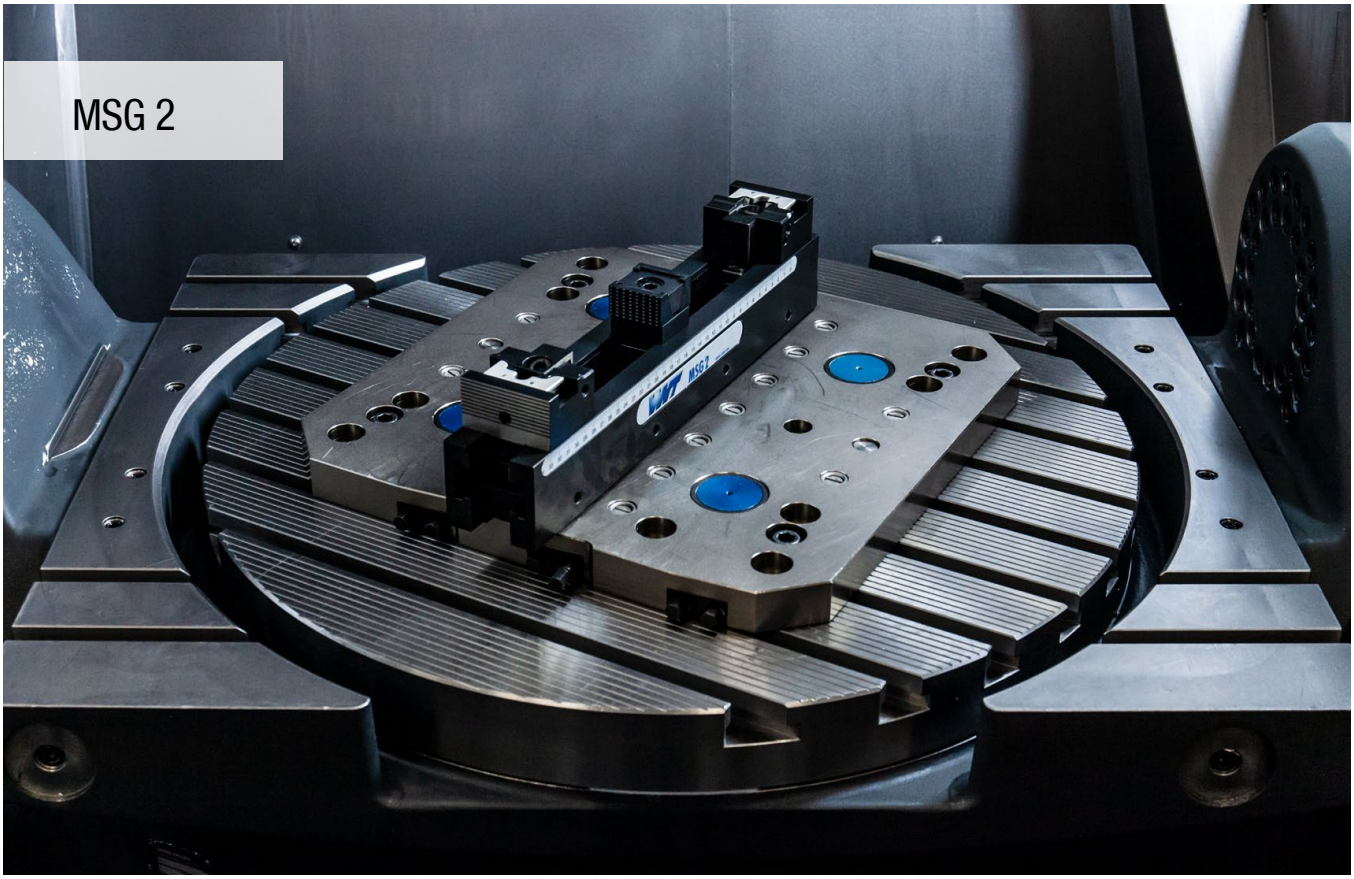
System accessories overview

Plastic protection plugs

DSG 4



G	80 906 ... EUR Y4	
M10x12	1,50	**500**



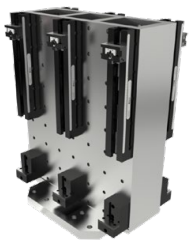
Single and multiple vices

Vertical, internal teeth as protection against damage. Smooth workpiece support. Optimum utilisation of the machine capacity. Modular principle, also suitable for plate clamping up to 50 kN.

Your benefits:

- Plate and large part clamping
- Workpiece support on smooth surface
- Ergonomic adjustable jaws
- Quick changeover
- Clamping rails can be extended with overarching connecting element

MSG 2 – Fast setup and easy clamping for large workpieces



Using stop jaws and MSG 2 base bodies with reversible-adjusting jaws workpieces which are approximately the size of the table can be clamped with up to 50 kN clamping force quickly and safely.

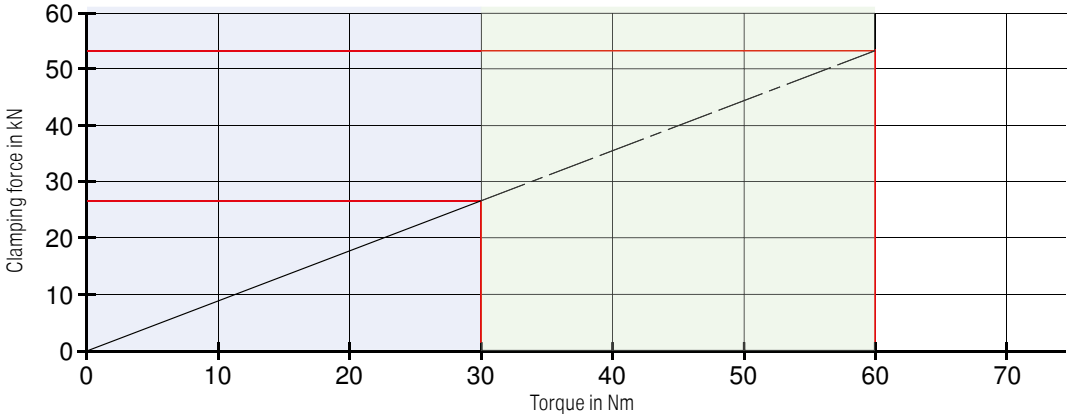
Clamping force:

Standard multiple vice range



Extended range only for single vice





Maximum clamping force with **Multi vice** for MSG 2 40, 60 and 90 mm. 27 kN per tie point corresponding to 30 Nm tightening force.

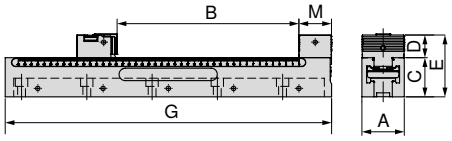
Maximum clamping force with **single vice** for MSG 2 40, 60 and 90 mm. 50 kN corresponding to 60 Nm tightening force.

Multiple clamping base body 65 mm

- with internal teeth
- for single and multi-clamping
- Adapter plate for MNG available on request

Scope of supply:
Body without jaws

MSG 2





A mm	B mm	C -0.01 mm	D mm	E mm	G mm	M mm	MXC kN	WT kg	80 887 ... EUR Y4	
65	7 - 108	60	34,8	94,8	220	50	0 - 50	4,1	775,00	**226**
65	7 - 208	60	34,8	94,8	320	50	0 - 50	5,7	881,00	**326**
65	7 - 288	60	34,8	94,8	400	50	0 - 50	7,3	1.042,00	**406**
65	7 - 388	60	34,8	94,8	500	50	0 - 50	9,2	1.168,00	**506**
65	7 - 538	60	34,8	94,8	650	50	0 - 50	11,8	1.646,00	**656**

Vice guide

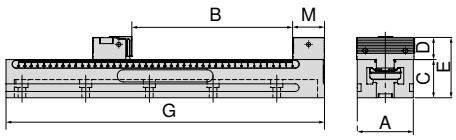
Underside Dimensions	99	Structural dimension tables for the different jaws	100
System accessories	101–103	General accessories	134–149

Multiple clamping base body 90 mm

- with internal teeth
- for single and multi-clamping
- Adapter plate for MNG available on request

Scope of supply:
Body without jaws

MSG 2



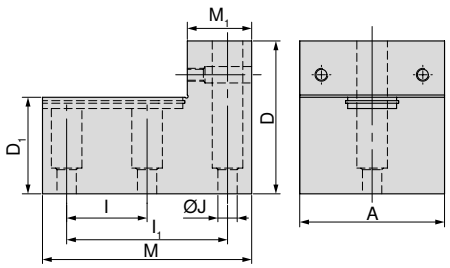


A mm	B mm	C -0.01 mm	D mm	E mm	G mm	M mm	MXC kN	WT kg	80 887 ... EUR Y4	
90	7 - 288	60	34,8	94,8	400	50	0 - 50	10,5	1.146,00	409
90	7 - 388	60	34,8	94,8	500	50	0 - 50	13,2	1.308,00	509
90	7 - 488	60	34,8	94,8	600	50	0 - 50	15,9	1.478,00	609
90	7 - 538	60	34,8	94,8	650	50	0 - 50	16,9	1.646,00	659

Stop jaw, fixed

- for clamping of large plates and workpieces
- Price per piece

MSG 2





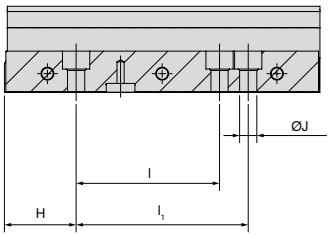
A mm	D mm	D1 mm	I ±0,015 mm	I1 ±0,015 mm	J F7 mm	M mm	M1 mm	80 888 ... EUR Y4	
65	95	60	50	100	12	130	40	526,00	655
90	95	60	50	100	12	130	40	579,00	905

Vice guide

Underside Dimensions	99	Structural dimension tables for the different jaws	100
System accessories	101–103	General accessories	134–149

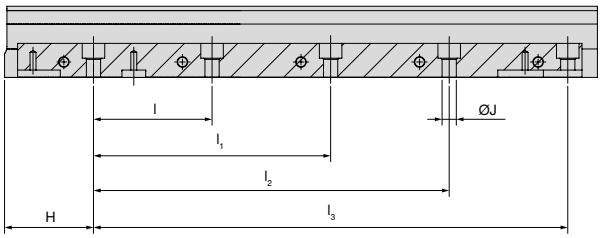
MSG 2 underside dimensions

Base width 65 mm and length 220 mm



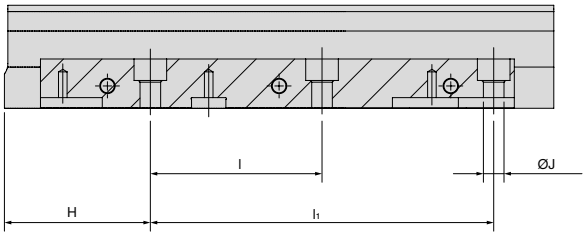
H ±0,02 mm	l ±0,02 mm	l1 ±0,02 mm	J F7 mm
50	100	120	12

Base width 65 mm and 90 mm, length 500 mm



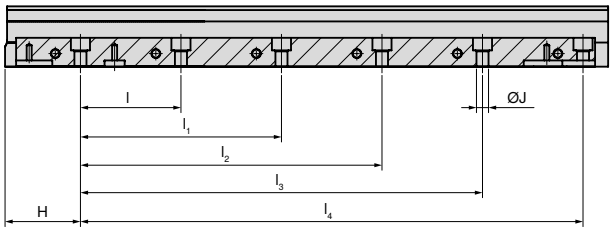
H ±0,02 mm	l ±0,02 mm	l1 ±0,02 mm	l2 ±0,02 mm	l3 ±0,02 mm	J F7 mm
75	100	200	300	400	12

Base width 65 mm and length 320 mm



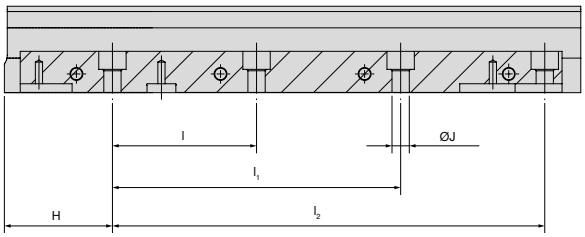
H ±0,02 mm	l ±0,02 mm	l1 ±0,02 mm	J F7 mm
85	100	200	12

Base width 90 mm and length 600 mm



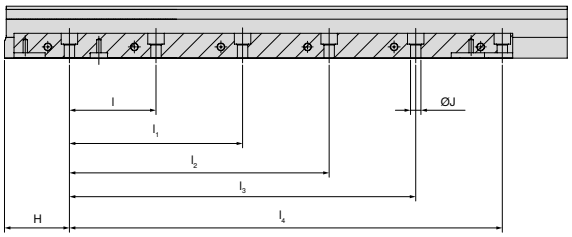
H ±0,02 mm	l ±0,02 mm	l1 ±0,02 mm	l2 ±0,02 mm	l3 ±0,02 mm	l4 ±0,02 mm	J F7 mm
75	100	200	300	400	500	12

Base width 65 mm and 90 mm, length 400 mm



H ±0,02 mm	l ±0,02 mm	l1 ±0,02 mm	l2 ±0,02 mm	J F7 mm
75	100	200	300	12

Base width 65 mm and 90 mm, length 650 mm

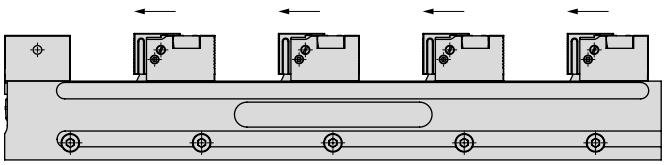


H ±0,02 mm	l ±0,02 mm	l1 ±0,02 mm	l2 ±0,02 mm	l3 ±0,02 mm	l4 ±0,02 mm	J F7 mm
75	100	200	300	400	500	12

MSG 2 structural dimension table for the different jaws

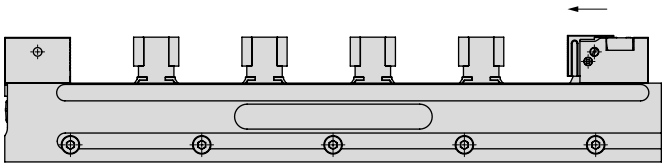
The spans are valid for use when using adjustment jaws without jaws and can therefore be reduced depending on the application.

Clamping with fixed and adjustable jaws



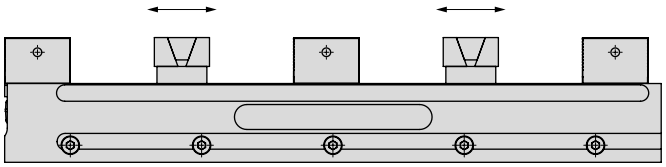
MSG 2	Standard multiple vice range							
	1	2	3	4	5	6	7	8
220	108	23						
320	208	73	28	5				
400	288	113	54	25	8			
500	388	163	88	50	28	13		
600	488	213	121	75	48	29	16	
650	538	238	138	88	58	38	23	

Clamping with fixed jaw, intermediate jaws incl. top jaws and one adjustable jaw



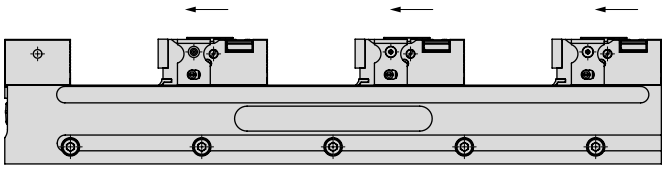
MSG 2	Standard multiple vice range									
	1	2	3	4	5	6	7	8	9	10
220	108	36	12							
320	208	87	45	25	13	5				
400	288	126	72	45	29	18	11	5		
500	388	176	106	70	49	35	25	17	11	7
600	488	226	139	95	69	52	39	30	23	17
650	538	251	155	108	79	60	46	36	28	22

Clamping with fixed and wedge jaws



MSG 2	Standard multiple vice range				
	2	4	6	8	10
220	39	-	-	-	-
320	89	22	-	-	-
400	129	42	12	-	-
500	179	67	29	10	-
600	229	92	46	23	9
650	254	104	54	29	14

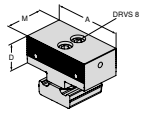
Clamping with fixed, adjustable and base jaws with guide



MSG 2	Standard multiple vice range					
	1	2	3	4	5	6
220	86	-	-	-	-	-
320	186	51	6	-	-	-
400	266	91	33	4	-	-
500	366	141	66	29	6	-
600	466	191	99	54	26	8
650	516	216	116	66	36	16

System jaws overview

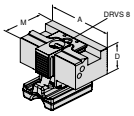
Reversible jaw set, short



- with indexing teeth
- profiled clamping surfaces
- Price per piece

Description	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	34,8		50	261,00	80 888 401										●
	65	34,8		50	261,00	80 888 651										●
	90	34,8		50	284,00	80 888 901										●

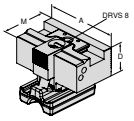
Reversible adjustable jaw profiled



- for workpiece clamping and positioning of the next workpiece
- 4 mm stroke
- suitable for 65 and 90 mm width
- price per piece

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	34,8		61,5	363,00	80 888 403										●
	65	34,8		61,5	363,00	80 888 653										●
	90	34,8		61,5	394,00	80 888 903										●

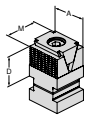
Reversible adjustable jaw with a pyramid profile



- for workpiece clamping and positioning of the next workpiece
- 4 mm stroke
- suitable for 65 and 90 mm width
- price per piece

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	34,8		61,5	415,00	80 888 404										●
	65	34,8		61,5	415,00	80 888 654										●
	90	34,8		61,5	446,00	80 888 904										●

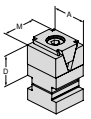
Wedge jaw



- with grip clamping surface
- 5.5 mm stroke
- including support and clamp
- Price per piece

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	35		40	178,00	80 888 408										●

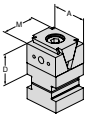
Wedge jaw



- with a smooth clamping surface
- 5.5 mm stroke
- including support and clamp
- Price per piece

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	35		40	178,00	80 888 405										●

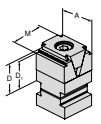
Wedge jaw



- with a smooth clamping surface and 2 M4 + 1x M6 threaded holes
- 5.5 mm stroke
- including support and clamp
- Price per piece

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	35		40	178,00	80 888 407										●

Wedge grip jaw, 3 mm

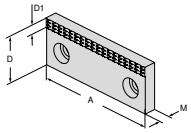


- including support and clamp
- Price per piece

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	35	32	40	178,00	80 888 51000										●

System jaws overview

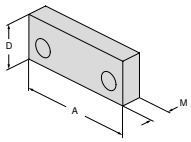
Jaw, grip



▲ Price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	35	7	10	33,00	80 889 406										●
	65	35	7	10	37,00	80 889 656										●
	90	35	7	10	42,00	80 889 906										●

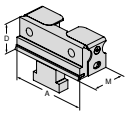
Jaw, soft



▲ Price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	35		16	34,00	80 889 407										●
	65	35		16	37,00	80 889 657										●
	90	35		16	44,00	80 889 907										●

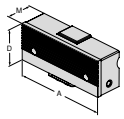
Top jaw with guide



▲ for clamping without pull down effect
▲ minimum clamping depth of 2.5 mm
▲ Price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	40	34,8		39	139,00	80 888 406										●
	65	34,8		39	139,00	80 888 656										●
	90	34,8		39	153,00	80 888 906										●

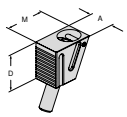
Top jaw with spring



▲ One click location
▲ for clamping without pull down effect
▲ minimum clamping depth of 10 mm
▲ Price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
65	66	35,8		26	115,00	80 888 607										●
90	92	35,8		26	119,00	80 888 907										●

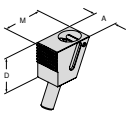
Jaw, narrow profiled



▲ price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
40 / 65 / 90	22	31		35,3	108,00	80 888 002										●

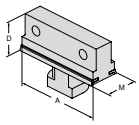
Jaw, narrow with pyramid profile



▲ Price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
40 / 65 / 90	22	31		36,3	157,00	80 888 004										●

Central jaw for clamping multiples and single piece machining



▲ hardened, pivoting
▲ for holding various top jaws
▲ price per piece

for width	A	D	D_1	M	price	Article no.	Type association									
					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	65	35		27	131,00	80 888 658										●
	90	35		27	146,00	80 888 908										●

System accessories overview

Joint

▲ to connect 2 basic bodies

MSG 2

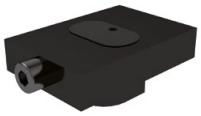


80 889 ...	
EUR Y4	
69,00	002

Adjustable stop with basic body

▲ for vibration damping

MSG 2

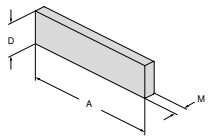


H mm	80 888 ... EUR Y4	
16	220,00	51100

Cover

▲ Stainless steel, cut to size

MSG 2



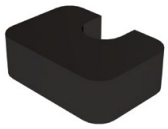


A mm	D mm	M mm	80 889 ... EUR Y4	
440	32	0,7	8,50	001

Support

▲ for vibration damping

MSG 2

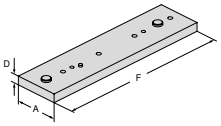


H mm	80 888 ... EUR Y4	
9 (25)	54,00	51200
14 (30)	54,00	51300

MNG-Adapter plate for MSG 2

Scope of supply:
Plate including mounting accessories

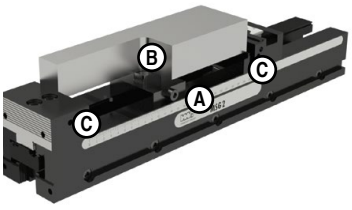
MSG 2





for width mm	A mm	D mm	F mm	80 887 ... EUR Y4	
65 / 90	100	20	400	596,00	400
65 / 90	100	20	500	670,00	500
90	100	20	600	744,00	600
65 / 90	100	20	650	781,00	650

Adjustable support



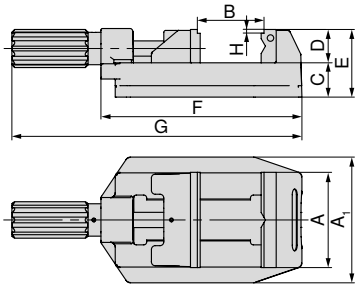
The adjustable support is used for stabilisation and vibration damping of large and also long workpieces. The workpiece is placed on workpiece supports and also supported with the adjustable support which damps vibrations. The adjustable support is available in a height of 16 mm. Overall heights of 25 mm and 30 mm can be reached with additional supports of height 9 mm and 14 mm.

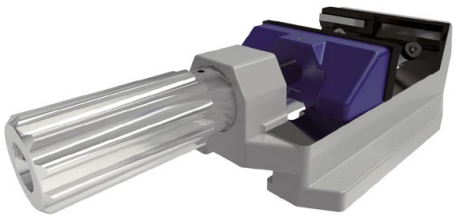
Adjustable support **A** with support H = 9 mm **B** (total H = 25 mm). The workpiece rests on the workpiece supports **C** with H = 25 mm and is also supported with the adjustable support (total H = 25 mm) which damps vibrations.

Manual machine vice

- handy, universal vice with large clamping range
- Stepped jaws with horizontal and vertical 120° prism
- Optional material stop can be used on both sides

HSG



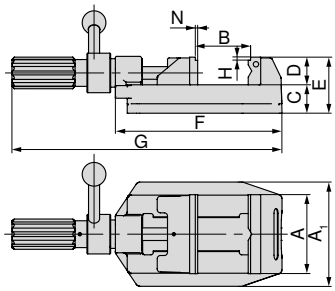


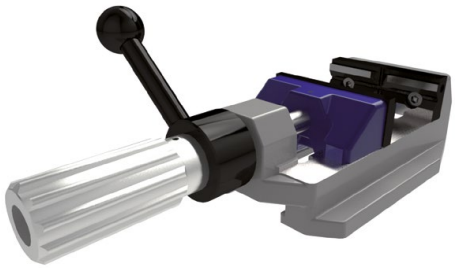
A mm	A_1 mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	WT kg	80 893 ... EUR Y4	
80	112	0 - 81	36	35	71	194	286,5	4	4,5	224,00	080
100	132	0 - 100	36	35	71	211	304,5	4	5,6	245,00	100
125	156	0 - 131	40	40	84	274	386	4	11,2	411,00	125

Manual machine vice with clamping aid

- Quick and accurate workpiece clamping using the clamping aid
- handy, universal vice with large clamping range
- Stepped jaws with horizontal and vertical 120° prism
- Optional material stop can be used on both sides
- N = Stroke with handle clamping

HSG





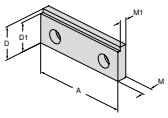
A mm	A_1 mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	N mm	WT kg	80 893 ... EUR Y4	
100	132	0 - 100	36	35	71	211	342	4	1,5	6,1	398,00	101
125	156	0 - 133	44	40	84	274	405	4	1,5	11,7	571,00	126

Vice guide

System accessories 105+106
General accessories 134–149

Top jaws overview

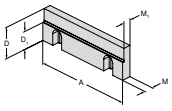
Stepped jaw, smooth



▲ Price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	Type association										
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
	71,6	35	31	10,2	7,2		30,00	80 893 081											●
	80	35	31	10,2	7,2		40,00	80 893 082											●
	100	35	31	10,2	7,2		37,00	80 893 102											●
	125	40	36	11,8	8,8		47,00	80 893 127											●

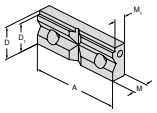
Stepped jaw, 17 mm



▲ Price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	Type association										
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
	125	40	23	11,5	9,5		109,00	80 892 244											●

Prismatic jaw



▲ Prism jaw with horizontal and vertical prism
▲ price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	Type association										
									NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
9 - 31	80	35	31	15,8	12,8		47,00	80 893 083											●
9 - 31	100	35	31	15,8	12,8		60,00	80 893 103											●
11 - 41	125	40	36	17,8	14,8		104,00	80 893 128											●
9 - 31	72	35	31	15,8	12,8		47,00	80 893 093											●

You can find other matching top jaws from. → **Page 134**

System accessories overview

Workpiece stop

- Fixed to the top section, either on the left, the right, or at both ends. The length adjustment can be performed quickly and accurately using a clamping screw.

HSG

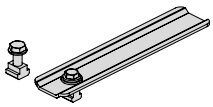


for width mm	80 893 ... EUR Y4	
80/100/125	38,00	265

Guide rail

- Helps prevent accidents
- Prevents unwanted movement, lifting and dragging

HSG





for width mm	80 893 ... EUR Y4	
80/100/125	41,00	260

Clamping set

- A movable support with an eccentric swivel plate allows any clamping position to be adopted on machine tables with different T-slot arrangements. The inside slot of the vice body provides an additional fixing option, just as with the 80 893 260 guide rail.
- Price per Set

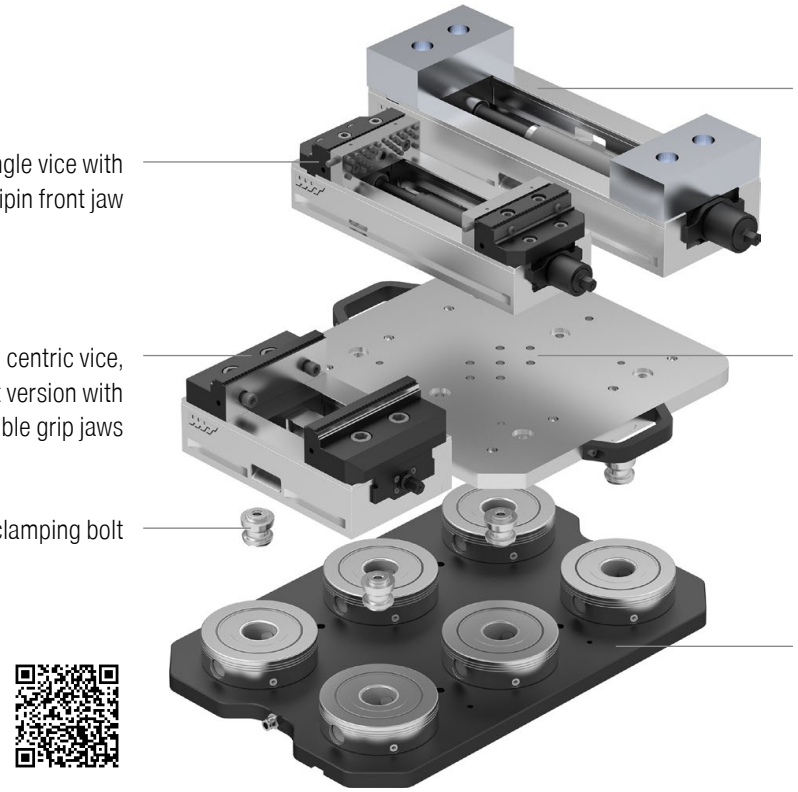
Scope of supply:
2 positioning clamps incl. clamping accessories.

HSG



for width mm	for slot width mm	80 893 ... EUR Y4	
80/100/125	12/14	106,00	250

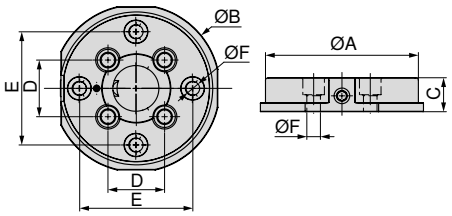
Overview of MNG and PNG zero point clamping system



Base plate, round

- hardened and ground
- Repeatability ≤ 0.01 mm
- Insertion force 20 kN
- Torque 30 Nm

MNG





A mm	B mm	C ±0,005 mm	D mm	E mm	F H7 mm	WT kg	80 899 ... EUR Y4	
135	148	30	50	100	12	3.5	510,00	125

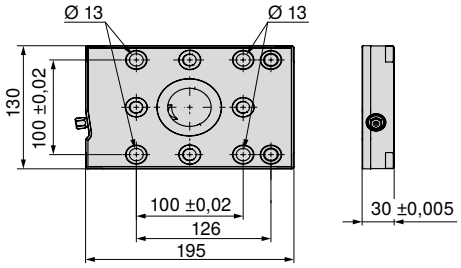
Vice guide

System accessories 117+118 General accessories 134–149

Base plate, rectangular

- Insertion force 20 kN on the clamping bolt
- Stainless and vacuum-hardened
- Repeatability ≤ 0.01 mm
- Tightening torque 30 Nm

MNG



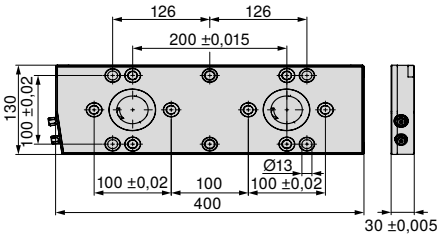


Size	WT kg	80 899 ... EUR Y4	
195x130 mm	5,2	628,00	65000

Base plate, rectangular 2-location

- Insertion force 20 kN on the clamping bolt
- Stainless and vacuum-hardened
- Repeatability ≤ 0.01 mm
- Tightening torque 30 Nm

MNG





Size	WT kg	80 899 ... EUR Y4	
400x130 mm	11	1.291,00	65100

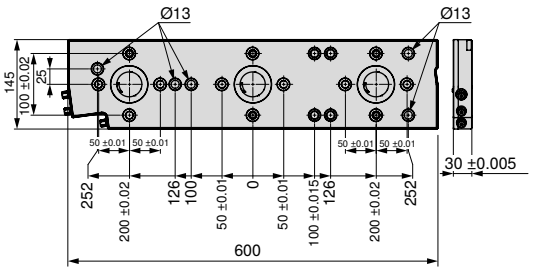
Vice guide

System accessories	117+118	General accessories	134–149
MNG clamping options	119–121		

Base plate, rectangular 3-location

- Insertion force 20 kN on the clamping bolt
- Stainless and vacuum-hardened
- Repeatability ≤ 0.01 mm
- Tightening torque 30 Nm

MNG



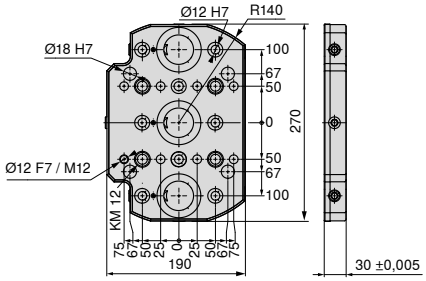


Size	WT kg	80 899 ... EUR Y4	
600x145 mm	18	2.091,00	65200

3 location base plate, 270 x 190 mm

- Clamping force 20 kN on each location bolt
- 4 x M12 mounting holes for T-slot nuts 50 mm spread
- 8 x dowel bushes Ø12 F7 / M12
- 4 x dowel holes Ø18 H7 for positioning

MNG





Size	WT kg	80 899 ... EUR Y4	
270x190 mm	9	1.881,00	230

Vice guide

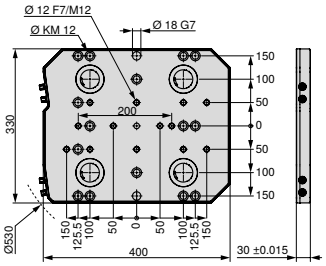
System accessories	117+118	General accessories	134–149
MNG clamping options	119–121		

17

4 location base plate, 330 x 400 mm

- Stainless and vacuum-hardened
- Insertion force 20 kN on the clamping bolt
- 15 x mounting holes for M12, for T-slot spacing 50, 63, 100, 125 mm
- 13 x mating holes Ø12 F7/M12
- 2 x mating holes Ø18 G7 for positioning
- 1 x mating holes Ø12 F7 for positioning

MNG





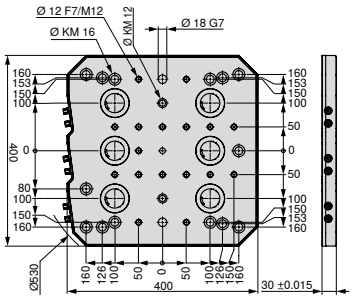
Size	WT kg	80 899 ... EUR Y4	
330x400 mm	28	2.937,00	63000 1)

1) Not ex-stock

6 location base plate, 400 x 400 mm

- Stainless and vacuum-hardened
- Insertion force 20 kN on the clamping bolt
- 14 x mounting holes for M16, for T-slot spacing 63, 80, 100, 125 mm
- 2 x mounting holes for M12
- 17 x mating holes Ø12 F7/M12
- 2 x mating holes Ø18 G7 for positioning
- 1 x mating holes Ø12 F7 for positioning

MNG





Size	WT kg	80 899 ... EUR Y4	
400x400 mm	33	3.665,00	63100 1)

1) Not ex-stock

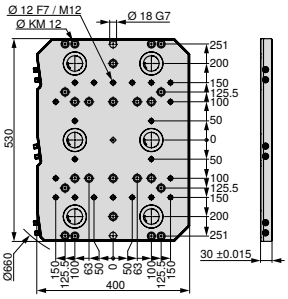
Vice guide

System accessories 117+118 General accessories 134–149

6 location base plate, 400 x 530 mm

- Stainless and vacuum-hardened
- Insertion force 20 kN on the clamping bolt
- 24 x mounting holes for M12, for T-slot spacing 63, 100, 125 mm
- 21 x mating holes Ø12 F7/M12
- 2 x mating holes Ø18 G7 for positioning
- 1 x mating holes Ø12 F7 for positioning

MNG





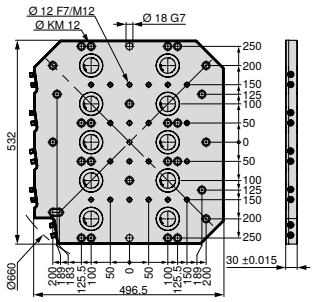
Size	WT kg	80 899 ... EUR Y4	
400x530 mm	45	4.366,00	63200 1)

1) Not ex-stock

10 location base plate, 496.5 x 532 mm

- Stainless and vacuum-hardened
- Insertion force 20 kN on the clamping bolt
- 27 x mounting holes M12 for T-slot spacing 50, 63, 100, 125 mm and star slots 45°
- 20 x mating holes Ø12 F7/M12
- 2 x mating holes Ø18 G7 for positioning
- 1 x mating holes Ø12 F7 for positioning

MNG





Size	WT kg	80 899 ... EUR Y4	
497x532 mm	54	6.194,00	63300 1)

1) Not ex-stock

Vice guide

System accessories 117+118 General accessories 134–149

Centering Pin

MNG



NEW

$D_{1\ n6}$ mm	$D_{2\ h6}$ mm	80 899 ... EUR Y4	
12	30	50,00	61700
12	32	37,00	61800
12	50	35,00	61900

Alignment Pin

MNG



$D_{1\ n6}$ mm	$D_{2\ h6}$ mm	80 899 ... EUR Y4	
18	14	38,00	607
18	18	38,00	608
18	20	55,00	609
18	22	55,00	610

Clamping Screw Set for T-slot for MNG

Scope of supply:
Clamping screw and T-Nuts

MNG



for slot width mm	G	80 899 ... EUR Y4	
12	M8	17,50	63800
12	M10	10,20	63400
14	M12	12,25	63500 [1]
14	M8	17,50	63900
16	M12	12,25	63600 [1]
16	M8	17,50	64000
18	M12	12,25	63700 [1]
18	M8	17,50	64100

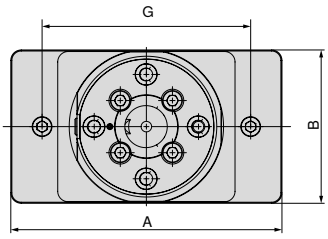
1) With low head screws

Console with zero point clamping module

- universal application on all machine tables
- Clamping force 20 kN

Scope of supply:
Plate incl. MNG round clamping module

MNG

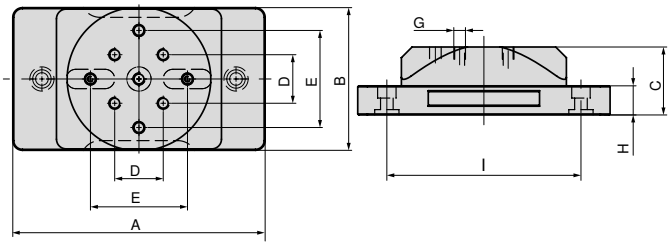




A mm	B mm	C mm	D mm	E mm	F mm	G mm	WT kg	80 899 ... EUR Y4	
260	147	70	30	100	135	200	8,9	927,00	425

Console

- universal application on all machine tables
- Material: Aluminum, hard anodized





A mm	B mm	C mm	D mm	E ±0,02 mm	G	H mm	I mm	WT kg	80 899 ... EUR Y4	
260	147	70	50	100	M12	30	200	5,5	407,00	420

Vice guide

System accessories 117+118
General accessories 134–149

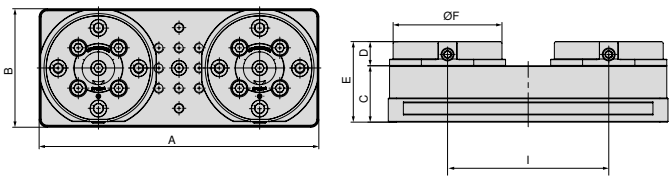
Double console with zero point clamping module

- universally applicable on all machine tables
- Material: Aluminium Hard Anodised

Scope of supply:

Console including MNG round clamping module



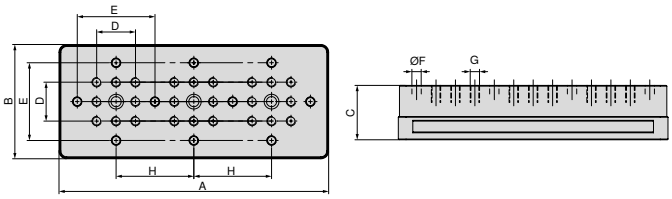




A mm	B mm	C mm	D mm	E mm	F mm	I mm	WT kg	80 899 ... EUR Y4	
347	147	70	30	100	135	200	16,5	1.673,00	435

Double console

- universally applicable on all machine tables
- Material: Aluminium Hard Anodised





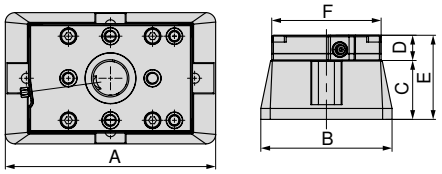
A mm	B mm	C mm	D mm	E ±0,02 mm	F F7 mm	G	H mm	WT kg	80 899 ... EUR Y4	
347	147	70	50	100	12	M12	100	9,3	613,00	430

Vice guide

System accessories 117+118
General accessories 134–149

Console with zero point clamping module

MNG

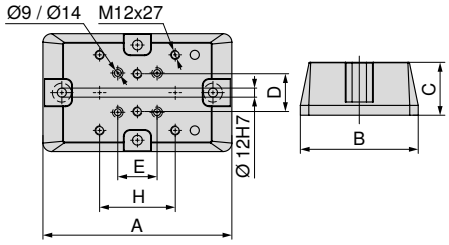




A mm	B mm	C mm	D mm	E mm	F mm	80 878 ... EUR Y4	
250	156	70	30	100	130	1.110,00	54000

Console

ZSG 4





A mm	B mm	C mm	D mm	E mm	H mm	for	80 878 ... EUR Y4	
250	156	70	50	52	100	ZSG 4 - 80 L = 130 mm + 190 mm / ZSG 4 - 125 L = 160 mm	495,00	54100
320	197	100	50	50	100	ZSG 4 - 160 L = 280 mm	780,00	54400
340	162	100	50	50	100	ZSG 4 - 125 L = 235 mm / 300 mm	755,00	54300

Assembly set for console



for	80 878 ... EUR Y4	
ZSG-4.125/160.L235-L280	10,00	54500
ZSG-4.80.L130-L190	10,00	54200

Vice guide

System accessories 117+118 General accessories 134–149

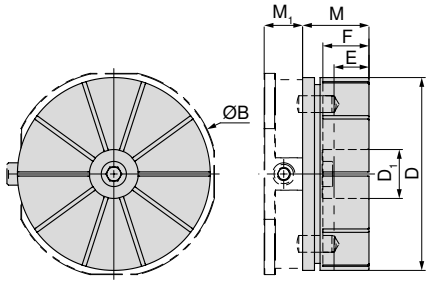
Aluminum form chuck for MNG

▲ for incorporation of forms for 2nd op machining

Scope of supply:

Collet with positioning pins, without locating bolts







B mm	D mm	D_1 mm	E mm	F mm	M mm	M_1 mm	80 899 ... EUR Y4	
148	138	35	22	33	47,5	27,5	171,00	500



Machineable Alu chuck to suit round MNG



Machineable Alu chuck to suit round MNG with clamped workpiece

Available on request



Grid plate



Blank plate

The maximum cutting depth E is 22 mm

Adjustable ring for MNG form collet

MNG



80 899 ... EUR Y4	
52,00	510

Vice guide

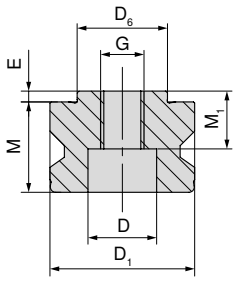
System accessories 117+118
General accessories 134–149

MNG pull studs

▲ Centering stud Ø 25 H7

Scope of supply:
with clamping screws

MNG

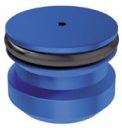




$D_{6\ h6}$ mm	$D_{1\ h6}$ mm	M mm	M_1 mm	E mm	D mm	G	80 899 ... EUR Y4	
25	40	27	17	3	19	M12	43,00	025

Bungs

MNG

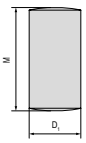


D_1 mm	80 899 ... EUR Y4	
40	12,75	040

MNG Dowel Set

▲ for ESG mini 4V tower and direct workpiece clamping
▲ Price per 2 Pieces

MNG





$D_{1\ m6}$ mm	M mm	80 899 ... EUR Y4	
12	24	2,00	120

Sealing plug with O-ring

MNG

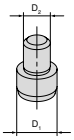


G	80 899 ... EUR Y4	
M12	2,00	126

MNG positioning pin set

▲ for ESG mini and direct workpiece clamping
▲ Price per 2 Pieces

MNG



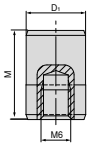


for width mm	D_1 mm	D_2 mm	80 899 ... EUR Y4	
65	12	8	30,00	128

17

MNG indexing bolt

MNG





D_1 mm	M mm	80 899 ... EUR Y4	
12	18	14,90	51500

Clamping Screw Set for T-slot for MNG

Scope of supply:
Clamping screw and T-Nuts

MNG



for slot width mm	G	80 899 ... EUR Y4	
12	M8	17,50	63800
12	M10	10,20	63400
14	M12	12,25	63500 1)
14	M8	17,50	63900
16	M12	12,25	63600 1)
16	M8	17,50	64000
18	M12	12,25	63700 1)
18	M8	17,50	64100

1) With low head screws

Clamping set for 14 mm T-slot

- T-nuts are modified for 63 mm slot pitch
- Price per 2 Pieces

MNG



for slot width mm	A mm	80 899 ... EUR Y4	
14	63	86,00	614

Alignment/centering set for T-slots

- A = groove spacing

Scope of supply:
1 Terminal block, 2 T-nuts, 2 screws, 2 washers
for width 12 mm, without clamping strip!

MNG



A mm	for slot width mm	80 899 ... EUR Y4	
50	12	64,00	012 1)
50	14	64,00	014
50	16	64,00	016
50	18	64,00	018
100	12	84,50	81200
100	14	84,50	81400
100	16	84,50	81600
100	18	84,50	81800

1) For 12 mm width excluding clamping strip

Round claw

- for MNG clamping system
- Price includes 2 pieces

MNG



80 899 ... EUR Y4	
72,00	300

Replacement clamping unit

- 3-Piece Set
- for MNG round

MNG



80 899 ... EUR Y4	
MNG 57,00	026

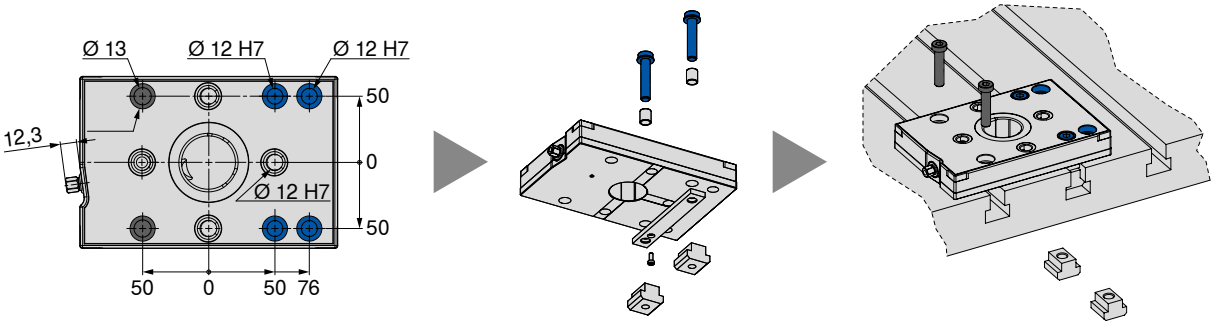
MNG clamping options

Base plate, rectangular

Mounting:

- 2 x M12 low head screws
- 1 x Alignment and centring set

You can find the suitable screws on → **Page 121**

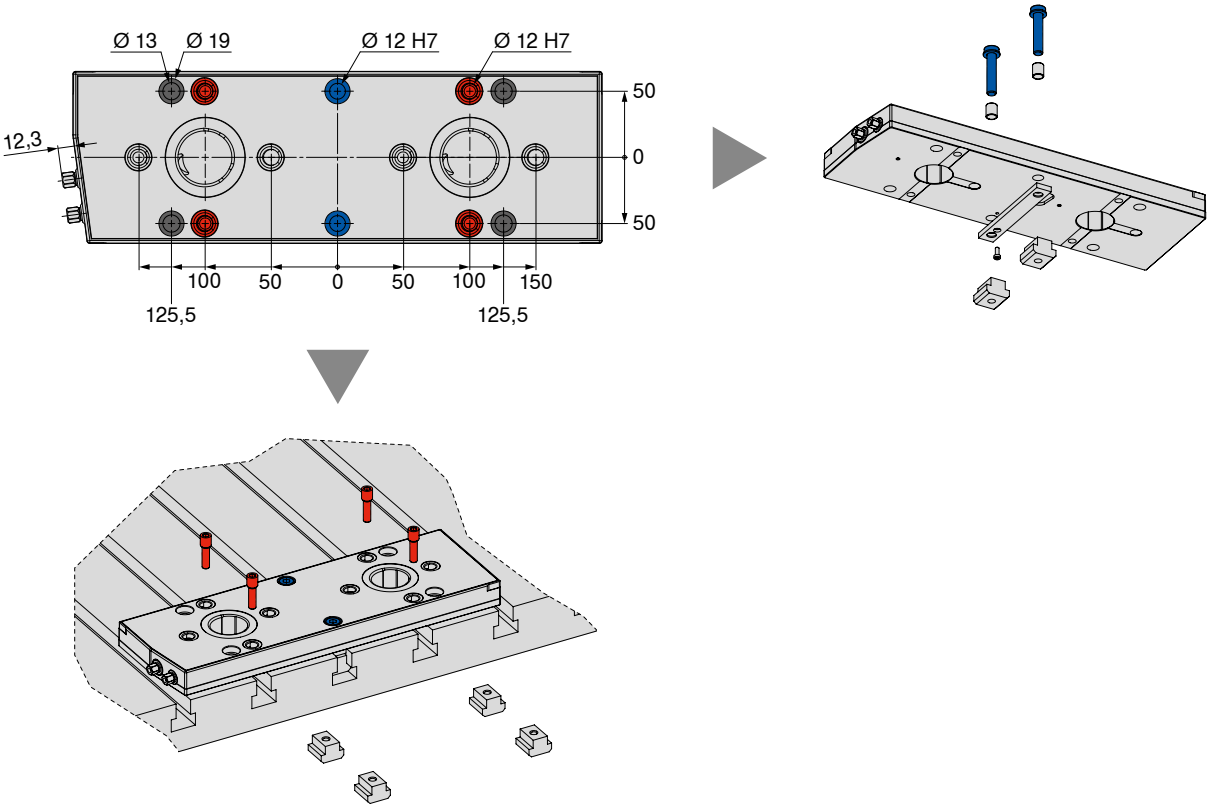


Base plate, rectangular 2-location

Mounting:

- 4 x M12 low head screws
- 1 x Alignment and centring set
- 4 x M8 MNG special screws

You can find the suitable screws on → **Page 121**



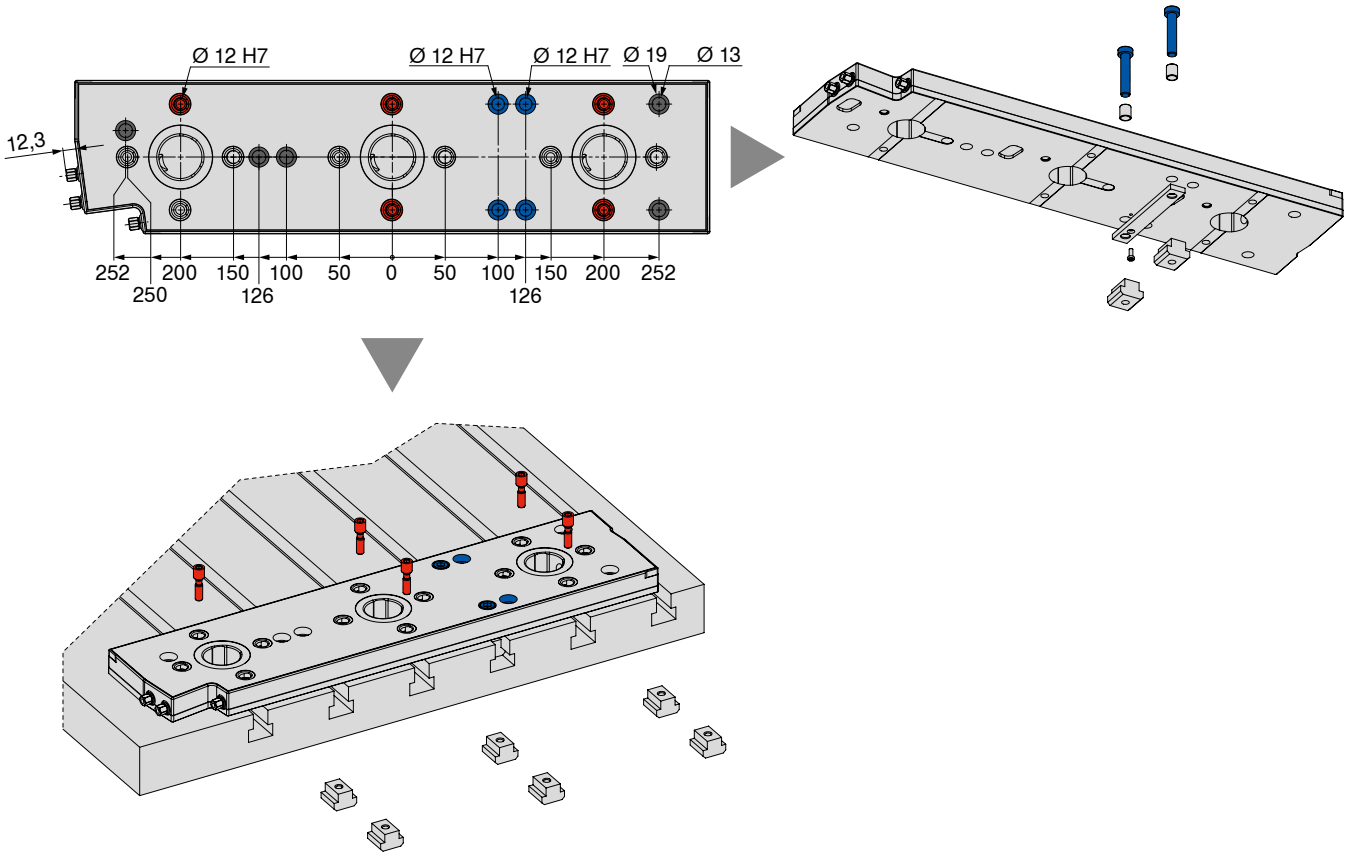
MNG clamping options

Base plate, rectangular 3-location

Mounting:

- 5 x M12 low head screws
- 1 x Alignment and centring set
- 5 x M8 MNG special screws

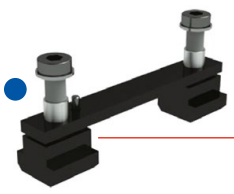
You can find the suitable screws on → **Page 121**



MNG clamping options

	T-slot table – spacing of 126 mm / 63 mm											
	12 mm			14 mm			16 mm			18 mm		
	Alignment and centring set spacing 100 mm 80 899 81200	Clamping set with M10 low head screws 80 899 63400	Clamping set with M8 MNG special screws 80 899 63800	Alignment and centring set spacing 100 mm 80 899 81400	Clamping set with M12 low head screws 80 899 63500	Clamping set with M8 MNG special screws 80 899 63900	Alignment and centring set spacing 100 mm 80 899 81600	Clamping set with M12 low head screws 80 899 63600	Clamping set with M8 MNG special screws 80 899 64000	Alignment and centring set spacing 100 mm 80 899 81800	Clamping set with M12 low head screws 80 899 63700	Clamping set with M8 MNG special screws 80 899 64100
Base plate, rectangular	1 x	2 x	--	1 x	2 x	--	1 x	2 x	--	1 x	2 x	--
Base plate, rectangular 2-location	1 x	4 x	--	1 x	4 x	--	1 x	4 x	--	1 x	4 x	--
Base plate, rectangular 3-location	1 x	4 x	2 x	1 x	4 x	2 x	1 x	4 x	2 x	1 x	4 x	2 x

	T-slot table – spacing of 100 mm / 50 mm											
	12 mm			14 mm			16 mm			18 mm		
	Alignment and centring set spacing 100 mm 80 899 81200	Clamping set with M10 low head screws 80 899 63400	Clamping set with M8 MNG special screws 80 899 63800	Alignment and centring set spacing 100 mm 80 899 81400	Clamping set with M12 low head screws 80 899 63500	Clamping set with M8 MNG special screws 80 899 63900	Alignment and centring set spacing 100 mm 80 899 81600	Clamping set with M12 low head screws 80 899 63600	Clamping set with M8 MNG special screws 80 899 64000	Alignment and centring set spacing 100 mm 80 899 81800	Clamping set with M12 low head screws 80 899 63700	Clamping set with M8 MNG special screws 80 899 64100
Base plate, rectangular	1 x	2 x	--	1 x	2 x	--	1 x	2 x	--	1 x	2 x	--
Base plate, rectangular 2-location	1 x	--	4 x	1 x	--	4 x	1 x	--	4 x	1 x	--	4 x
Base plate, rectangular 3-location	1 x	1 x	5 x	1 x	1 x	5 x	1 x	1 x	5 x	1 x	1 x	5 x


Alignment and centring set spacing 100 mm


Clamping set with M8 MNG special screws


Clamping set with M10 or M12 low head screws


M16 cylinder low head screw only base plate 6-face, 400 x 400 mm


Cylinder head screw for M12 grid holes

You can find these articles on. → **Pages 148+149**

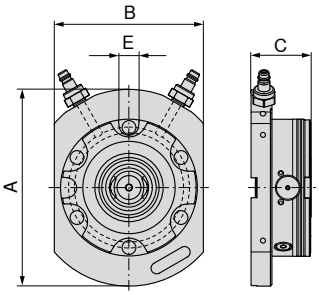
17

1-position clamping station

- Insertion force 8 kN
- Insertion force with turbo 28 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG





NEW

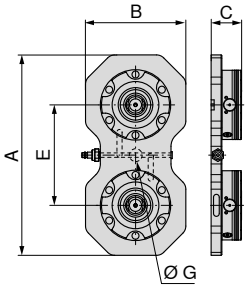
A mm	B mm	C mm	E_{H7} mm	WT kg	80 809 ... EUR Y4	
198	150	60	20	7	1.309,00	01100

2-position clamping station, 399 x 199 mm

- Insertion force 16 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG





NEW

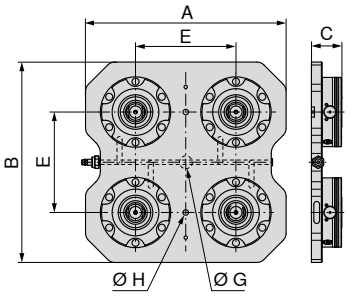
A mm	B mm	C mm	E mm	G_{H7} mm	WT kg	80 809 ... EUR Y4	
399	199	60	200	25	16,9	2.134,00	02100

4-position clamping station, 399 x 399 mm

- Insertion force 32 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG





NEW

80 809 ...

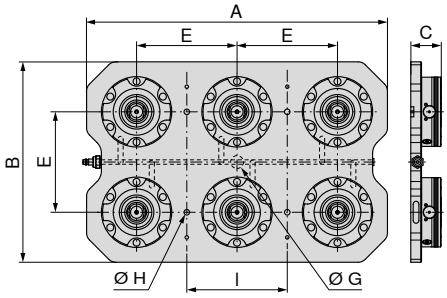
A mm	B mm	C mm	E mm	G H7 mm	H mm	WT kg	EUR Y4	
399	399	60	200	25	11	35,7	4.124,00	04100

6-position clamping station, 599 x 399 mm

- Insertion force 48 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:
Clamping station, fixing clamps, sealing nipple, pneumatic plug connections, dust covers, operating instructions; without clamping bolt, without indexing bolt

PNG





NEW

80 809 ...

A mm	B mm	C mm	E mm	G H7 mm	H mm	I mm	WT kg	EUR Y4	
599	399	60	200	25	11	200	54,4	5.722,00	06100

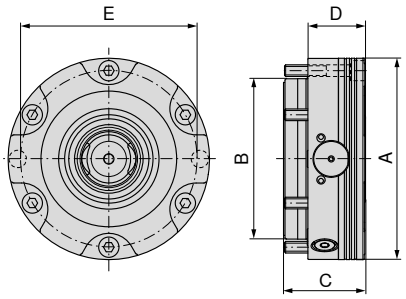
17

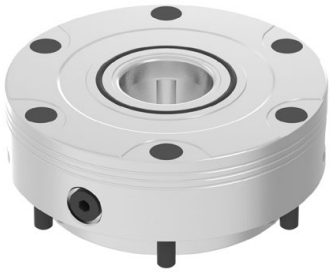
Zero point clamping module PNG.SM.138

- Insertion force 8 kN
- Insertion force with turbo 28 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:
Clamping module, fixing screws, O-rings, cover caps, operating instructions; without clamping bolts

PNG





NEW

80 809 ...

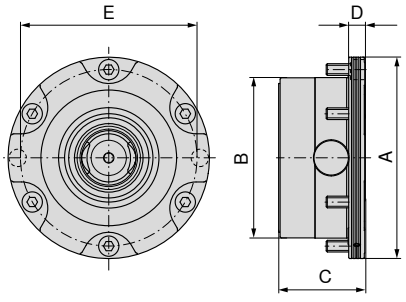
A mm	B mm	C mm	D mm	E mm	G	WT kg	EUR Y4	
138	110	55,7	39	121	G1/8"	4,4	865,00	**10100**

Zero point clamping system PNG.SM.T.138

- Insertion force 7 kN
- Insertion force with turbo 24 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:
Clamping module, fixing screws, O-rings, cover caps, operating instructions; without clamping bolts

PNG





NEW

80 809 ...

A mm	B mm	C mm	D mm	E mm	G	WT kg	EUR Y4	
138	110	59	11	121	G1/8"	3,5	937,20	**12100**

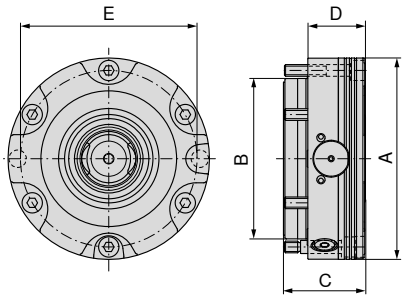
Zero point clamping module PNG.SM.V.138

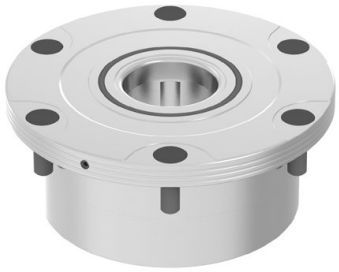
- Insertion force 8 kN
- Insertion force with turbo 28 kN
- Unlocking pressure 6 bar
- Air connection G 1/8

Scope of supply:

Clamping module, fixing screws, dowel screw, O-rings, cover caps, operating instructions; without clamping bolts, without indexing bolt

PNG





NEW

A mm	B mm	C mm	D mm	E mm	G	WT kg	80 809 ... EUR Y4	
138	110	55,7	39	121	G1/8"	4,4	926,90	11100

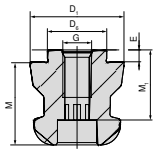
PNG clamping bolt

- Three bolt types – ZB (centring bolt), PB (positioning bolt), HB (clamping bolt)
- Precision location bolts ensuring accuracy and repeatability
- Clamping force 50 kN

Scope of supply:

Incl. M12 fixing screw

PNG

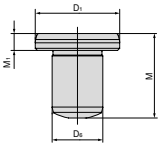




Type	$D_{6\ H6}$ mm	$D_{1\ h6}$ mm	M mm	M_1 mm	E mm	G	80 809 ... EUR Y4	
ZB	25	40	35	27	5	M12	51,55	070
PB	25	40	35	27	5	M12	61,86	071
HB	25	40	35	27	5	M12	46,40	072

PNG indexing bolt

PNG





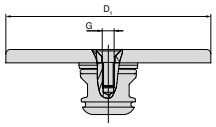
$D_{1\ h5}$ mm	M mm	M_1 mm	$D_{6\ m6}$ mm	80 809 ... EUR Y4	
20	20	4	12	44,33	073

17

PNG protective cover

▲ Protective cover for the interchangeable interface

PNG



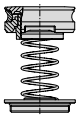


D1 mm	G	80 809 ... EUR Y4	
138	M8	80,42	074

Cone seal

▲ Protective cover for the interchangeable interface

PNG





NEW

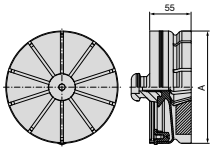
WT kg	80 809 ... EUR Y4	
0,11	105,20	07500

Aluminium form collet

▲ Max. clamping force 50 kN
▲ Clamping stroke 0.5 mm
▲ Aluminium

Scope of supply:
Aluminium form collet, adjustment ring, clamping bolt, indexing bolt, operating instructions

PNG





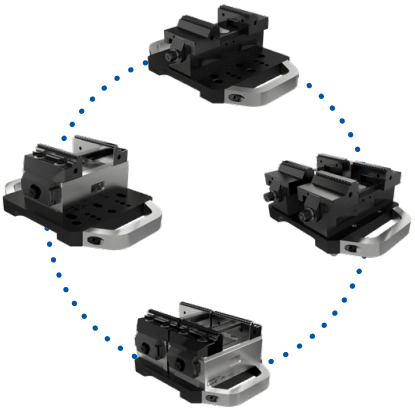
NEW

A mm	WT kg	80 809 ... EUR Y4	
149	1,5	269,10	07600

Overview of multi-adapter pallets



Multi-adapter pallet 159x159 mm



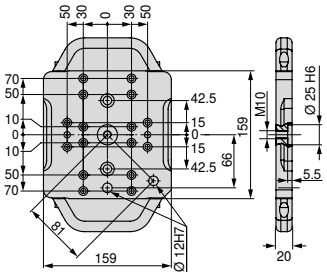
Application examples

Multi-adapter pallet 159 x 159 mm

▲ Multi-adapter pallet for mounting PNG and MNG

Scope of supply:

Incl. clamping bolts and screws
without pull studs





Size	WT kg	80 809 ... EUR Y4	
159x159 mm	4	449,00	500

Mounting set – multi-adapter pallet, 159 x 159 mm

▲ price per set



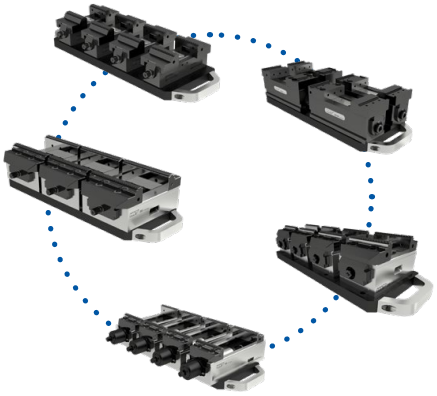
for	80 878 ... EUR Y4	
ZSG-4.80	15,00	503

17

Overview of multi-adapter pallets



Multi-adapter pallet 399x159 mm



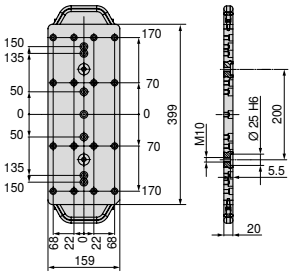
Application examples

Multi-adapter pallet 399 x 159 mm

▲ Multi-adapter pallet for mounting PNG and MNG

Scope of supply:

Incl. clamping bolts and screws
without pull studs





Size	WT kg	80 809 ... EUR Y4	
399x159 mm	10	660,00	501

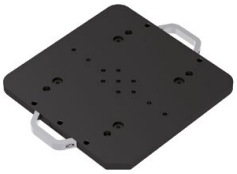
Mounting set – multi-adapter pallet 399 x 159 mm

▲ price per set

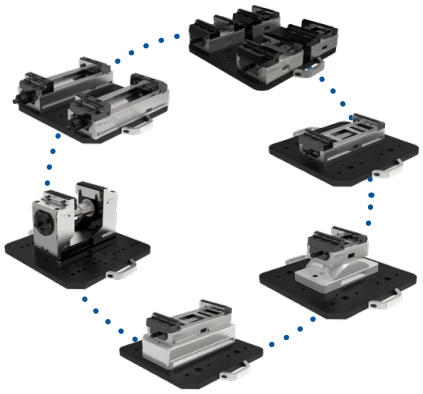


for	80 897 ... EUR Y4		80 884 ... EUR Y4	
ESGMINI.65	15,00	500		
ZSG-3.65/ZSG-4.80/125L160/ESG-4.80			35,00	503

Overview of multi-adapter pallets



Multi-adapter pallet 399x399 mm

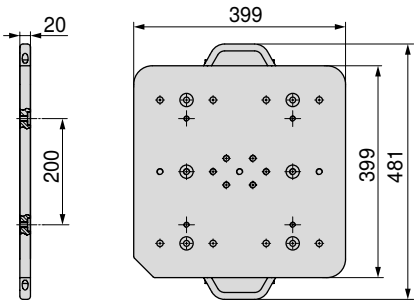


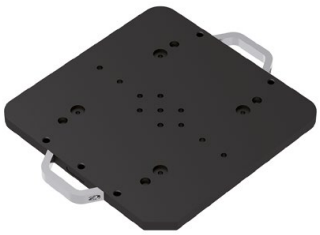
Application examples

Multi-adapter pallet 399 x 399 mm

▲ Multi-adapter pallet for mounting PNG and MNG

Scope of supply:
Incl. clamping bolts and screws
without pull studs





Size	WT kg	80 809 ... EUR Y4	
399x399 mm	25	1.229,00	502

Mounting set – multi-adapter pallet 399 x 399 mm

▲ price per set



for	80 901 ... EUR Y4		80 898 ... EUR Y4		80 878 ... EUR Y4	
ESG4.125	49,00	500				
H5G.125			49,00	500		
ZSG-4.125.L160					15,00	500
ZSG-4.125.L160.K					49,00	502
ZSG-4.125.L300					49,00	501
ZSG-4.125.L300-DK					49,00	504

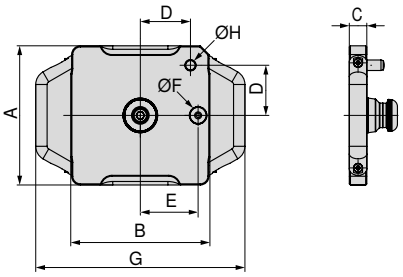
17

Steel clamping pallet, 159 x 159 mm

- Clamping pallet for mounting PNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





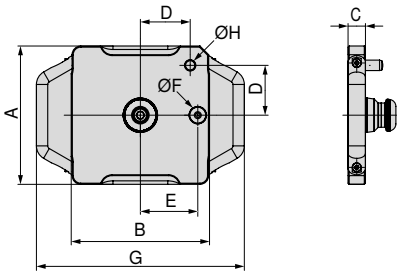
Size	A mm	B mm	C mm	D mm	E mm	F_{h5} mm	G mm	H_{m6} mm	WT kg	80 809 ... EUR Y4	
159x159 mm	159	159	20	58	66	20	239	12	4,2	287,70	080

Aluminium clamping pallet, 159 x 159 mm

- Clamping pallet for mounting PNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





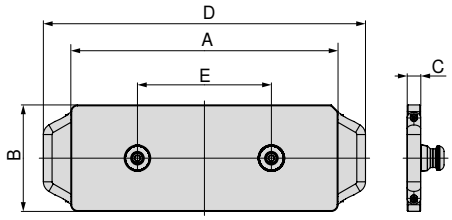
Size	A mm	B mm	C mm	D mm	E mm	F_{h5} mm	G mm	H_{m6} mm	WT kg	80 809 ... EUR Y4	
159x159 mm	159	159	25	58	66	20	239	12	2,2	324,80	081

Steel clamping pallet, 399 x 159 mm

- Clamping pallet for mounting PNG and MNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





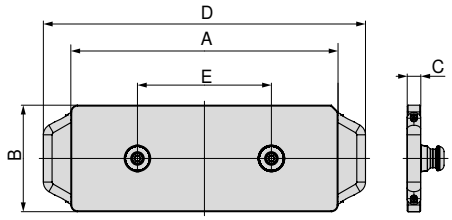
Size	A mm	B mm	C mm	D mm	E mm	WT kg	80 809 ... EUR Y4	
399x159 mm	399	159	20	481	200	10,6	577,40	082

Aluminium clamping pallet, 399 x 159 mm

- Clamping pallet for mounting PNG and MNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





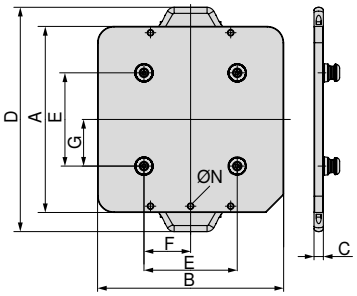
Size	A mm	B mm	C mm	D mm	E mm	WT kg	80 809 ... EUR Y4	
399x159 mm	399	159	25	481	200	5,1	505,20	083

Steel clamping pallet, 399 x 399 mm

- Clamping pallet for mounting PNG and MNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





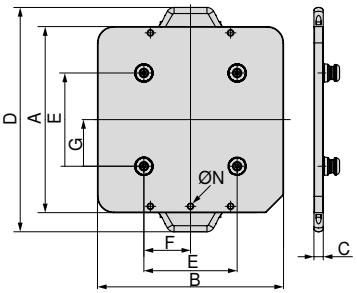
Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	N	WT kg	80 809 ... EUR Y4	
399x399 mm	399	399	20	481	200	100	100	M10	28	1.268,00	084

Aluminium clamping pallet, 399 x 399 mm

- Clamping pallet for mounting PNG and MNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





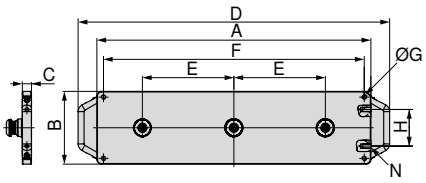
Size	A mm	B mm	C mm	D mm	E mm	F mm	G mm	N	WT kg	80 809 ... EUR Y4	
399x399 mm	399	399	25	481	200	100	100	M10	12	912,40	085

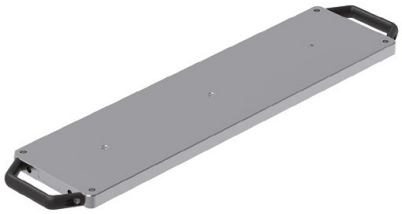
Steel clamping pallet, 599 x 159 mm

- Clamping pallet for mounting PNG and MNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin





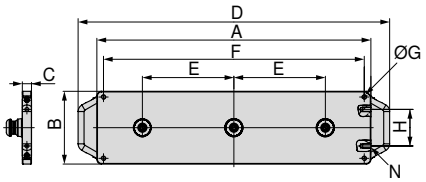
Size	A mm	B mm	C mm	D mm	E mm	F mm	G	H mm	N	WT kg	80 809 ... EUR Y4	
599x159 mm	599	159	20	681	200	570	M10	80	M10	15,6	809,30	086

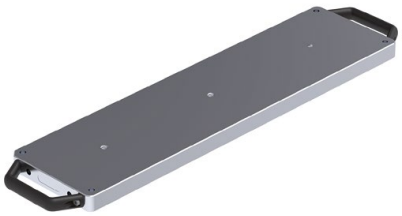
Aluminium clamping pallet, 599 x 159 mm

- Clamping pallet for mounting PNG and MNG
- Without hole pattern

Scope of supply:

Unmachined clamping pallet, PNG clamping bolt and positioning pin

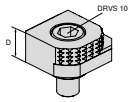




Size	A mm	B mm	C mm	D mm	E mm	F mm	G	H mm	N	WT kg	80 809 ... EUR Y4	
599x159 mm	599	159	25	681	200	570	M10	80	M10	7,4	876,40	087

General top jaws overview

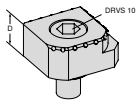
6 function indexable jaw



- 1 = Smooth, carbide coated
- 2 = Grip with 3 mm step
- 3 = Grip with 8 mm step
- 4 = Grip with 18 mm step
- 5 = Rough grip with 8 mm step
- 6 = Round grip
- M_{max} = 60 Nm
- Including fixation screws

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
	18					70,00	80 892 246	●	●	●	●		●		●	●		

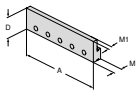
6x indexable jaw, carbide grip



- 1 = Smooth
- 2 = Carbide grip
- 3 = Carbide grip with 3 mm step
- 4 = Carbide grip with 8mm step
- 5 = Round carbide grip with 8 mm step
- 6 = Round carbide grip
- Incl. fixing screws

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	NEW Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
	18					100,00	80 890 35300	●	●	●	●		●		●	●		

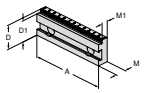
Positioning bar



- for stepped jaw with T-slot
- different clamping depths achievable through milling
- by milling the bar can be used as stop strip
- Material 1.7131 can be hardened if required
- Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	32			13,5	7	40,00	80 892 338	●					●	●				●
125	32			13,5	7	42,00	80 892 339	●	●		●			●	●	●		●
160	32			13,5	7	44,00	80 892 340	●			●			●	●			

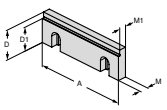
Stepped jaw, grip with T-slot



- T-slot for accommodating a positioning bar
- with 6.5 mm wide contact surface suitable for workpieces with rough edges
- laser etched graduation marks (2 mm) as a positioning aid
- Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	35	32	17,5	11,5		116,00	80 892 341	●					●	●				●
100	35	30	17,5	11,5		116,00	80 892 342	●					●	●				●
100	35	27	17,5	11,5		116,00	80 892 343	●					●	●				●
125	40	37	17,5	11,5		126,00	80 892 344	●	●		●			●	●	●		●
125	40	35	17,5	11,5		126,00	80 892 345	●	●		●			●	●	●		●
125	40	32	17,5	11,5		126,00	80 892 346	●	●		●			●	●	●		●
160	50	45	20	13,5		140,00	80 892 348	●			●			●	●			
160	50	42	20	13,5		140,00	80 892 349	●			●			●	●			

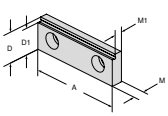
Stepped jaw, smooth



- Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	35	30	10	7,5		77,00	80 892 21400	●					●	●				●
125	40	32	11,5	9,5		92,00	80 892 21500	●	●		●			●	●	●		●
160	50	42	13,5	10,5		165,00	80 892 21600	●			●			●	●			

Stepped jaw, smooth

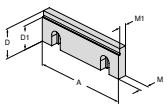


- Can be used as smooth or stepped jaw
- Jaw hardened and ground
- price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
65	22	19	8	5,5		65,00	80 895 332		●				●				●	

General top jaws overview

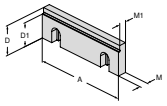
Stepped jaw, coated 5 mm



▲ Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
						EUR	Y4											
80	28	23	10	7,5		138,00	80 878 31400				●				●	●		

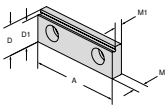
Stepped jaw, coated 5 mm



▲ Price per piece

						EUR	Y4											
100	35	30	10	7,5		153,00	80 892 36300	●					●	●				
125	40	35	11,5	9,5		134,00	80 892 250	●	●		●			●	●	●		●
160	50	45	13,5	10,5		189,00	80 892 36400	●			●			●	●			

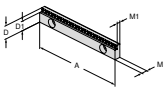
Stepped jaw, 5 mm



▲ Price per piece

						EUR	Y4											
80	28	23	10	7,5		114,00	80 878 830				●				●	●		

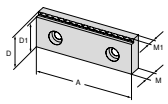
Stepped jaw, Grip



▲ Price per piece

						EUR	Y4											
125	18	13	8	5,5		120,00	80 898 252		●		●					●		
125	18	15	8	5,5		120,00	80 898 250		●		●					●		

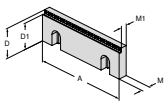
Stepped jaw, grip, 3 mm



▲ Price per piece

						EUR	Y4											
80	28	25	10	7		82,00	80 906 30900				●				●	●		

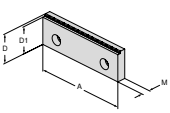
Stepped jaw, grip 3, 5 and 8 mm



▲ Price per piece

						EUR	Y4											
100	35	27	10	7,5		96,00	80 892 29200	●					●	●				●
100	35	30	10	7,5		96,00	80 892 29000	●					●	●				●
100	35	32	10	7,5		96,00	80 892 29400	●					●	●				●
125	40	32	11,5	9		110,00	80 892 29300	●	●		●			●	●	●		●
125	40	35	11,5	9		110,00	80 892 29100	●	●		●			●	●	●		●
125	40	37	11,5	9		110,00	80 892 29500	●	●		●			●	●	●		●
160	50	42	13,5	11		123,00	80 892 29900	●			●			●	●			
160	50	45	13,5	11		123,00	80 892 29800	●			●			●	●			
160	50	47	13,5	11		123,00	80 892 29700	●			●			●	●			

Stepped jaw, carbide grip 3 mm

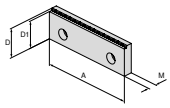


▲ price per piece

						EUR	Y4											
100	35	32	7,5			138,00	80 892 37600	●	●		●			●	●	●		
125	40	37	11,5			153,00	80 892 36500	●	●		●			●	●	●		
160	50	47	13,5			174,00	80 892 37400	●	●		●			●	●	●		

General top jaws overview

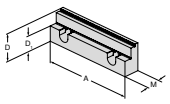
Stepped jaw, carbide grip 5 mm



▲ price per piece

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
		100	35	30		7,5		138,00	80 892 37700	●	●		●			●	●	●		
		125	40	35		11,5		153,00	80 892 37500	●	●		●			●	●	●		
		160	50	45		13,5		174,00	80 892 37300	●	●		●			●	●	●		

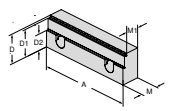
Stepped jaw, 18 mm with 3 mm Grip Step



▲ Price per piece

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
		125	40	22		21,5		198,00	80 892 288	●	●		●			●	●	●		●

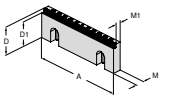
Stepped jaw, 18 mm with 3 mm grip step



▲ Price per piece

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
		125	40	37	22	24	19	210,00	80 907 302	●	●		●			●	●	●		●

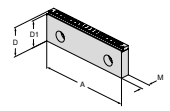
Stepped jaw, grip 5 mm for aluminium and plastic



▲ Price per piece

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
		125	40	35		11,5	8	128,00	80 892 36100	●	●		●			●	●	●		

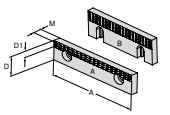
Stepped jaw embossed profile



▲ Price per piece
▲ suitable for LANG embossed profile

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
		125	40	37		11,5		123,00	80 892 36200	●	●		●			●	●	●		

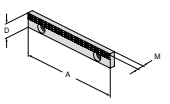
Jaw, grip



▲ Price per piece

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
A		40	22	7		7,8		30,00	80 892 279						●				●	
A		65	22	7		7,8		34,00	80 892 280						●				●	
A		90	22	7		7,8		37,00	80 892 284										●	
B		100	35	12		10		46,00	80 892 21700	●					●	●				●
B		125	40	14,5		11,5		54,00	80 892 21800	●			●			●		●		●
B		160	50	14,5		13,5		74,00	80 892 21900	●			●			●	●			

Top jaw, grip

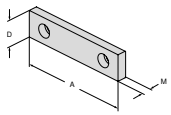


▲ Price per piece

Description	Illustration	A	D	D_1	D_2	M	M_1	price	Article no.	Type association										
										NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
								EUR	Y4											
		125	18			7,8		60,00	80 898 253		●		●					●		

General top jaws overview

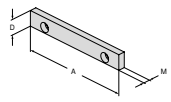
Ground top jaw



▲ Price per piece

Description	A	D	M	price	Article no.	Type association										
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
	40	22	7,7	30,00	80 889 401						●				●	
	40	35	10	34,00	80 889 405										●	
	65	22	7,7	34,00	80 889 651						●				●	
	65	35	10	37,00	80 889 655										●	
	90	22	7,7	37,00	80 889 901										●	
	90	35	10	44,00	80 889 905										●	

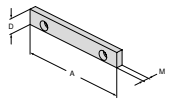
Ground top jaw



▲ price per piece

			EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
125	18	7,6	45,00	80 898 251		●		●					●		

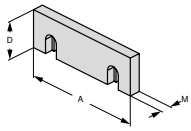
Top jaw, carbide coated



▲ with carbide coating
▲ Price per piece

			EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
125	18	7,6	82,00	80 898 254		●		●					●		

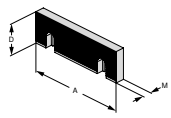
Smooth jaw



▲ Price per piece

			EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	35	10	36,00	80 892 20400	●					●	●				●
125	40	11,5	43,00	80 892 20500	●			●			●	●	●		●
160	50	13,5	50,00	80 892 20600	●			●			●	●			

Jaw, profiled

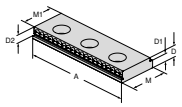


▲ Price per piece

			EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	35	10	41,00	80 892 20700	●					●	●				●
125	40	11,5	49,00	80 892 20800	●			●			●	●	●		●
160	50	13,5	57,00	80 892 20900	●			●			●	●			

General top jaws overview

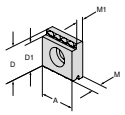
Grip jaw, indexable



▲ For vertical and horizontal application
▲ Price per piece

Description	A	D	D_1	D_2	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	10,5	8	5	35	32		46,00	80 895 343	●					●	●				●
65	8	5,5	5	22	19		33,00	80 895 340		●				●		●		●	

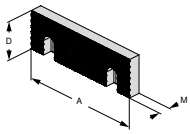
Grip jaw, indexable



▲ For vertical and horizontal application
▲ 3 point clamping
▲ Price per piece

Description	A	D	D_1	D_2	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
22	22	19		8	5,5		17,00	80 895 335		●				●		●		●	
35	35	32		10,5	8		28,00	80 895 345	●					●	●			●	

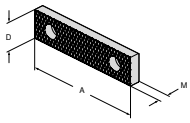
Jaw, cut



▲ Price per piece

Description	A	D	D_1	D_2	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	35			11			48,00	80 892 20100	●					●	●				●
125	40			12,5			59,00	80 892 20200	●			●			●	●	●		●
160	50			14,5			69,00	80 892 20300	●			●			●	●			

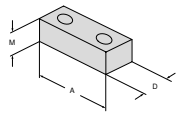
Jaw, cut



▲ Price per piece

Description	A	D	D_1	D_2	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
40	22			8			30,00	80 889 404						●				●	
40	35			11			34,00	80 889 408										●	
65	22			8			34,00	80 889 654						●				●	
65	35			11			37,00	80 889 658										●	
90	22			8			37,00	80 889 904										●	
90	35			11			44,00	80 889 908										●	

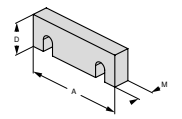
Jaw, soft



▲ Only for vertical application
▲ Price per piece

Description	A	D	D_1	D_2	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
40	22			20			30,00	80 895 244						●				●	
65	22			20			34,00	80 895 245		●		●		●		●		●	
90	22			20			37,00	80 895 246										●	

Soft jaws

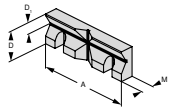


▲ for the preparation of formed jaws
▲ Price per piece

Description	A	D	D_1	D_2	M	M_1	price	Article no.	Type association									
							EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	35			16			39,00	80 892 24700	●					●	●				●
125	40			20			45,00	80 892 24800	●	●		●			●	●	●		●
160	50			20			52,00	80 892 24900	●			●			●	●			

General top jaws overview

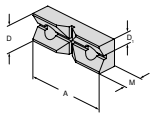
Prismatic jaw



- with horizontal and vertical prism
- prism horizontally and vertically ground for parallelism
- Price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
	11 - 41	100	35	13	15,5		115,00	80 892 26100	●					●	●				●
	14 - 48	125	40	16	17,5		128,00	80 892 26200	●	●		●			●	●	●		●
	16 - 60	160	50	20	19,5		190,00	80 892 26300	●			●			●	●			

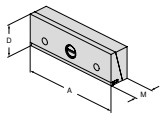
Prismatic jaw



- with horizontal and vertical prism
- price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
	11 - 22	65	22	11	15		116,00	80 895 337		●				●		●		●	

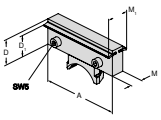
Precision pull down jaw



- Pull down jaw is only for use on the movable jaw
- Price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
		90	35		25		207,00	80 892 356										●	
		100	35		25		231,00	80 892 370	●					●					●
		125	40		25		239,00	80 892 371	●	●		●			●	●	●		●
		160	50		27,5		366,00	80 892 372	●			●			●	●			

Adapter jaws with pull down



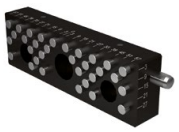
- for the types NCG, NCG2, and HDG2
- with reciprocal pull down feather/spring jaws
- price per piece

Description	Clamping Ø	A	D	D_1	M	M_1	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
							EUR	Y4											
		100	35	28	28	45	258,00	80 892 258	●										
		125	40	32,5	20	35	253,00	80 892 259	●						●				
		160	50	42	20	35	300,00	80 892 260	●						●				

Multipin front jaw

- price per piece

NCG	DSG
HDG 2	H5G
ZSG 4	ESG 4



NEW

	A mm	D mm	M mm	80 890 ... EUR Y4	
Left-hand	125	40	20	281,00	301
Right-hand	125	40	20	281,00	300

Multipin stop pin

- Price per piece
- Replacement PIN – multipin front jaw

Scope of supply:
Including O ring and circlip

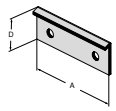


NEW

D_1 mm	M mm	80 877 ... EUR Y4	
6	11,2	2,70	500

General top jaws overview

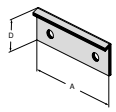
Pull down jaw with spring plate



▲ for finish machining
▲ Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
80	**24**					60,00	**80 901 309**				●				●	●		
125	**35**					78,00	**80 901 310**				●				●	●		
160	**45**					89,00	**80 901 311**				●				●			

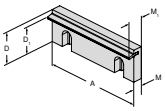
Pull down jaw with spring plate



▲ for finish machining
▲ Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
65	**23**					51,00	**80 898 923**						●				●	
100	**36**					66,00	**80 898 924**	●					●	●				●
125	**41**					78,00	**80 898 925**	●						●				●
160	**51**					89,00	**80 898 926**	●						●				

Spring leaf pull down jaw

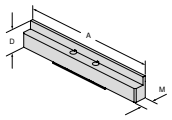


▲ Price per piece

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
						EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	**35**	**28**	**10**	**18,5**		53,00	**80 892 22800**	●					●	●				●
125	**40**	**32,5**	**11,5**	**19**		62,00	**80 892 22900**	●			●			●	●	●		●
160	**50**	**42**	**13,5**	**21**		80,00	**80 892 23000**	●			●			●	●			

Workpiece supports overview

Workpiece supports, offset



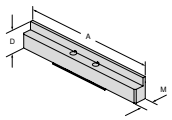
- ▲ hardened and ground
- ▲ held by means of spring wedge in the baseplate
- ▲ Price for 2 pieces

A	D	D_1	M	M_1	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
					EUR	Y4											
100	11		10,5		116,00	80 890 400	●										
100	16		10,5		116,00	80 890 401	●										
100	23		10,5		116,00	80 890 409	●										
100	25,5		10,5		116,00	80 890 411	●										
100	29,5		10,5		116,00	80 890 421	●										
125	11		10,5		139,00	80 890 390	●										
125	16		10,5		139,00	80 890 391	●										
125	21		10,5		139,00	80 890 392	●										
125	25		10,5		139,00	80 890 422	●										
125	26		10,5		139,00	80 890 393	●										
125	29		10,5		139,00	80 890 394	●										
125	32,5		10,5		139,00	80 890 395	●										
125	36		10,5		139,00	80 890 396	●										
160	26		10,5		169,00	80 890 452	●										
160	39		10,5		179,00	80 890 454	●										
160	42,5		10,5		190,00	80 890 456	●										

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
125			10,5		917,00	80 890 399	●										

80 890 399: Set of 7 workpiece supports of 2 pieces in a wooden box (exclusive 80 890 422)

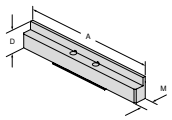
Workpiece supports, offset



- ▲ Price for 2 pieces

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
65	11		10,5		110,00	80 897 011						●					
65	16		10,5		110,00	80 897 016						●					

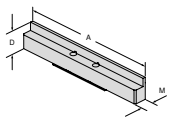
Workpiece supports, offset



- ▲ Price for 2 pieces

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
40	11		10,5		110,00	80 897 004						●					
40	16		10,5		110,00	80 897 005						●					

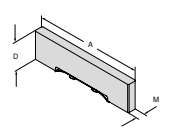
Workpiece supports, offset



- ▲ Hardened and ground
- ▲ Held by means of clamping springs in the base plate
- ▲ 2 pieces contained in set
- ▲ Price per set

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
125	11		10,5		136,00	80 901 703				●							
125	21		10,5		136,00	80 901 704				●							
125	25		10,5		136,00	80 901 705				●							
125	32,5		10,5		136,00	80 901 706				●							
160	26		10,5		165,00	80 901 700				●							
160	39		10,5		175,00	80 901 701				●							
160	42,5		10,5		186,00	80 901 702				●							

Workpiece supports, offset

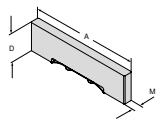


- ▲ Hardened and ground
- ▲ Held by means of clamping springs in the base plate
- ▲ Two pieces contained in set
- ▲ Price per set

					EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
80	15		10,5		113,00	80 901 707				●							
80	20		10,5		113,00	80 901 708				●							

Workpiece supports overview

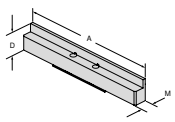
Workpiece supports, offset



- Hardened and ground
- Held by means of clamping springs in the base plate
- Two pieces contained in set
- Price per set

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
						EUR	Y4											
125	15		10,5			136,00	80 906 715									●		
125	21		10,5			136,00	80 906 721									●		
125	25		10,5			136,00	80 906 725									●		
125	32,5		10,5			136,00	80 906 732									●		
125	22		10,5			136,00	80 906 722									●		

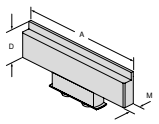
Workpiece surface, offset



- hardened and ground
- price for 2 pieces

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
						EUR	Y4											
40	11		10,5			110,00	80 889 411										●	
40	16		10,5			110,00	80 889 416										●	
40	21		10,5			110,00	80 889 421										●	
40	25		10,5			110,00	80 889 425										●	
40	28		10,5			110,00	80 889 428										●	
40	30		10,5			110,00	80 889 430										●	
40	32,5		10,5			110,00	80 889 432										●	
65	11		10,5			110,00	80 889 611										●	
65	16		10,5			110,00	80 889 616										●	
65	21		10,5			110,00	80 889 622										●	
65	25		10,5			110,00	80 889 625										●	
65	28		10,5			110,00	80 889 628										●	
65	30		10,5			110,00	80 889 630										●	
65	32,5		10,5			110,00	80 889 632										●	
90	11		10,5			127,00	80 889 911										●	
90	16		10,5			127,00	80 889 916										●	
90	21		10,5			127,00	80 889 921										●	
90	25		10,5			127,00	80 889 925										●	
90	28		10,5			127,00	80 889 928										●	
90	30		10,5			127,00	80 889 930										●	
90	32,5		10,5			127,00	80 889 932										●	

Workpiece supports



- hardened and ground
- held by spring clips in the baseplate
- Price for 2 pieces

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
						EUR	Y4											
100	16		10,5			116,00	80 892 401							●				
100	25,5		10,5			116,00	80 892 411							●				
100	29,5		10,5			116,00	80 892 421							●				
125	11		10,5			139,00	80 892 390							●				
125	16		10,5			139,00	80 892 391							●				
125	21		10,5			139,00	80 892 392							●				
125	26		10,5			139,00	80 892 393							●				
125	29		10,5			139,00	80 892 394							●				
125	32,5		10,5			139,00	80 892 395							●				
125	36		10,5			139,00	80 892 396							●				
160	26		10,5			169,00	80 892 403							●				
160	39		10,5			179,00	80 892 413							●				
160	42,5		10,5			190,00	80 892 423							●				

Description	A	D	D_1	M	M_1	price	Article no.	Type association										
								NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
						EUR	Y4											
125			10,5			917,00	80 892 399							●				

80 892 399: Set of 7 workpiece supports of 2 pieces in a wooden box

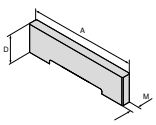
Magnet workpiece supports, set



- With clearance on the underside
- Flexible and rational clamping
- Height accuracy +/- 0.01 mm
- Quick and easy to install thanks to magnetic adhesion

Workpiece supports overview

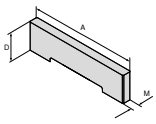
Magnet workpiece supports, set



- Stainless spring steel
- Pressed magnets
- Delivered in set: 5 pairs of 2 pieces
- Price per set

Description	A	D	M	price	Article no.	Type association											
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
80	**5 / 10 / 15 / 20 / 22**	**2,5**		265,00	**80 878 79800**				●				●	●		
125	**8 / 12 / 20 / 25 / 27**	**2,5**		299,00	**80 878 79900**	●			●			●	●	●		

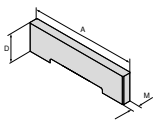
Magnet workpiece supports, set



- Stainless spring steel
- Pressed magnets
- Delivered in set: 5 pairs of 2 pieces
- Price per set

Description	A	D	M	price	Article no.	Type association											
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	**12 / 20 / 25 / 30 / 32**	**2,5**		291,00	**80 892 79700**	●					●	●	●				
125	**12 / 25 / 30 / 35 / 37**	**2,5**		305,00	**80 892 79800**	●						●	●	●			
160	**15 / 30 / 40 / 45 / 47**	**2,5**		322,00	**80 892 79900**	●			●			●	●				

Magnet workpiece supports, set

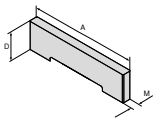


- Stainless spring steel
- Pressed magnets
- Delivered in set: 5 pairs of 2 pieces
- Price per set

Description	A	D	M	price	Article no.	Type association											
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
125	**9 / 22 / 27 / 32 / 34**	**2,5**		299,00	**80 901 79900**	●						●	●	●		

Workpiece supports overview

Magnet workpiece supports



▲ Price per pair

Description	A	D	M	price	Article no.	Type association									
				EUR	Y4	NCG	HSG / -S / -Z	XSG-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
80	5	2,5		60,50	80 892 79600				●				●	●		
80	10	2,5		60,50	80 892 79500	●			●			●	●	●		
80	15	2,5		60,50	80 892 79400				●				●	●		
80	20	2,5		60,50	80 892 79300				●			●	●	●		
80	22	2,5		60,50	80 892 79200				●				●	●		
100	12	2,5		64,00	80 892 79100	●					●	●	●			
100	20	2,5		64,00	80 892 79000	●					●	●	●			
100	25	2,5		64,00	80 892 78900	●					●	●	●			
100	27	2,5		64,00	80 892 78800	●					●	●	●			
100	29	2,5		64,00	80 892 78700	●					●	●	●			
100	30	2,5		64,00	80 892 78600	●					●	●	●			
100	31	2,5		64,00	80 892 78500	●					●	●	●			
100	32	2,5		64,00	80 892 78400	●					●	●	●			
125	8	2,5		67,00	80 892 78300	●						●	●	●		
125	9	2,5		67,00	80 892 78200	●						●	●	●		
125	10	2,5		67,00	80 892 78100	●						●	●	●		
125	12	2,5		67,00	80 892 78000	●						●	●	●		
125	15	2,5		67,00	80 892 77900	●						●	●	●		
125	20	2,5		67,00	80 892 77800	●						●	●	●		
125	22	2,5		67,00	80 892 77700	●						●	●	●		
125	23	2,5		67,00	80 892 77600	●						●	●	●		
125	25	2,5		67,00	80 892 77500	●						●	●	●		
125	27	2,5		67,00	80 892 77400	●						●	●	●		
125	30	2,5		67,00	80 892 77300	●						●	●	●		
125	31	2,5		67,00	80 892 77200	●						●	●	●		
125	32	2,5		67,00	80 892 77100	●						●	●	●		
125	33	2,5		67,00	80 892 77000	●						●	●	●		
125	34	2,5		67,00	80 892 76900	●						●	●	●		
125	35	2,5		67,00	80 892 76800	●						●	●	●		
125	36	2,5		67,00	80 892 76700	●						●	●	●		
125	37	2,5		67,00	80 892 76600	●						●	●	●		
160	15	2,5		72,00	80 892 76500	●						●	●			
160	22	2,5		72,00	80 892 76400	●						●	●			
160	30	2,5		72,00	80 892 76300	●						●	●			
160	37	2,5		72,00	80 892 76200	●						●	●			
160	40	2,5		72,00	80 892 76100	●						●	●			
160	41	2,5		72,00	80 892 76000	●						●	●			
160	42	2,5		72,00	80 892 75900	●						●	●			
160	43	2,5		72,00	80 892 75800	●						●	●			
160	44	2,5		72,00	80 892 75700	●						●	●			
160	45	2,5		72,00	80 892 75600	●						●	●			
160	46	2,5		72,00	80 892 75500	●						●	●			
160	47	2,5		72,00	80 892 75400	●						●	●			

Workpiece support, magnetic

Scope of supply:
Including stop pin 50 mm/100 mm

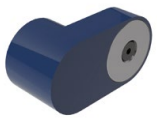




NEW

for width mm	Size	80 892 ... EUR Y4	
80/100/125/160	60x15	100,00	23800
80/100/125/160	115x15	146,00	23900

Extension for workpiece support, magnetic



NEW

for width mm	Size	80 892 ... EUR Y4	
80/100/125/160	68x30 mm	78,00	25400

Accessories General Overview

Alignment and centering kit for T-slots

▲ Price per piece

ESG 4 | DSG 4 | H5G -Z | ESG mini



l mm	for slot width mm	80 897 ... EUR Y4	
100	14	49,00	114
100	16	49,00	116
100	18	49,00	118

Alignment and centring set

▲ Price per piece

ESG 4 | DSG 4



l mm	for slot width mm	80 906 ... EUR Y4	
80	12	53,00	812
80	14	53,00	814
80	16	53,00	816
80	18	53,00	818

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

ZSG 4 | ESG 4 | DSG 4



for width mm	G	80 899 ... EUR Y4	
12	M10	13,50	312
14	M12	13,50	314
16	M12	18,50	316
18	M12	23,00	318

Workpiece stop

NCG | HDG 2 | ZSG 4 | DSG 4 | H5G | ESG 4 | ESG mini



80 892 ... EUR Y4	
56,50	400

Workpiece stop

MSG 2 | ZSG 4 | DSG 4 | ESG 4 | ESG mini



80 895 ... EUR Y4	
39,00	010

Workpiece stop

ZSG 4 | ESG 4



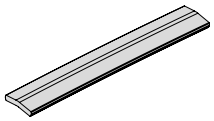
80 884 ... EUR Y4	
38,00	400

17

Accessories General Overview

Replacement spring plates

▲ price per piece
▲ for pull down and intermediate jaws

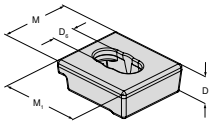




for width mm	80 892 ... EUR Y4	
100	21,00	430
125	22,00	431
160	24,00	432

Clamping claws

▲ Price for 2 pieces





D mm	D_6 mm	M mm	M_1 mm	80 890 ... EUR Y4	
20	16	50	57	31,00	315

Clamping levers overview

Clamping Handle with Joint



▲ without socket

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
		1/2"		66,00	80 891 600						●		●			

Torque Wrench



▲ without socket

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
	10 - 100	1/2"		242,00	80 884 502			●			●	●	●	●		
	20 - 200	1/2"		242,00	80 884 504							●	●			

Torque key



▲ without socket

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
	5 - 50	3/8"		242,00	80 884 402										●	●

Socket



▲ Suitable for 1/2" and 3/8" square drive

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
		3/8"	5	14,70	80 877 105											
		1/2"	8	14,70	80 877 208											
		3/8"	8	14,70	80 877 108						●				●	●
		1/2"	10	14,70	80 877 210						●					
		1/2"	14	14,70	80 877 214		●	●			●					

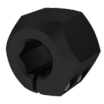
Socket



▲ Suitable for 1/2" and 3/8" square drive

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
		3/8"	7	14,70	80 875 107										●	
		1/2"	12	14,70	80 875 212				●				●	●		
		3/8"	12	14,70	80 875 112											
		1/2"	14	14,70	80 875 214				●				●	●		

Hexagon adapter SW 12 to SW 27



▲ For compressed air impact wrench

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
			12	38,00	80 875 27000								●			

Control set



▲ Torque wrench including nut and screwdriver SW10

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association										
						NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
				EUR	Y4											
	8 - 50	3/8"	10	294,00	80 899 410											●

Screws Overview

Clamping screw for top jaws



▲ DIN EN ISO 4762 (1998-02)

for width	G	J_{17}	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
			EUR	Y4											
	M8x12		1,00	**80 892 296**	●	●					●	●			

Clamping screw with shallow head for top jaws



▲ see DIN7984 (1985-05)

for width	G	J_{17}	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
			EUR	Y4											
	M8x10		1,00	**80 889 950**	●	●					●	●		●	

Clamping screw for system jaws



▲ Price per piece

for width	G	J_{17}	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
			EUR	Y4											
	M12x20		2,00	**80 890 630**	●	●									
	M12x40		1,85	**80 890 632**	●	●									

Allen cap screw



▲ DIN 912

for width	G	J_{17}	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
			EUR	Y4											
	M12x45		2,00	**80 899 124**										●	●

Dowel screws



▲ Price for 2 pieces

for width	G	J_{17}	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
			EUR	Y4											
100	**M12x38**	**12**	31,00	**80 890 313**	●			●							
125 / 160	**M16x55**	**16**	49,50	**80 890 314**	●										

Dowel screw



▲ Price for 2 pieces

for width	G	J_{17}	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
			EUR	Y4											
125	**M12x45**	**12**	21,00	**80 895 019**		●		●				●	●	●	●

Screws Overview

Clamping screw and T-Nuts



▲ For mounting the clamping claw
▲ Price per 2 pieces

Description	for width	G	J_{17}	price	Article no.	Type association										
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
	12	M10		14,00	80 890 308	●	●		●		●	●	●	●	●	
	14	M12		14,00	80 890 309	●	●		●		●	●	●	●	●	
	16	M14		15,00	80 890 310	●	●		●		●	●	●	●	●	
	18	M16		16,00	80 890 311	●	●		●		●	●	●	●	●	

Clamping screws for round clamps, T-Nut



▲ incl. nut and washer
▲ Price per 2 Pieces

Description	for width	G	J_{17}	price	Article no.	Type association										
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
	12	M10		14,00	80 899 112										●	●
	14	M12		14,00	80 899 114										●	●
	16	M12		15,00	80 899 116										●	●
	18	M12		16,00	80 899 118										●	●

Tenon incl. screw



▲ Price per 2 pieces

Description	for width	G	J_{17}	price	Article no.	Type association										
				EUR	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	MNG
	12	M6		52,50	80 898 412	●	●		●			●		●	●	
	14	M6		52,50	80 898 414	●	●		●			●		●	●	
	16	M6		52,50	80 898 416	●	●		●			●		●	●	
	18	M6		52,50	80 898 418	●	●		●			●		●	●	





Solid drilling and bore machining

1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

5 Spindle Tooling

Threading

6 Taps and thread formers

7 Circular and Thread Milling

8 Thread turning

Turning

9 Turning Tools

10 Multifunctional Tools – EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

Milling

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

Catalogue – Clamping technology

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples and article no. Index

Article No.	Page(s)	Article No.	Page(s)	Article No.	Page(s)	Article No.	Page(s)	Article No.	Page(s)
10 840 ...	16 / 33	81 730 ...	16 / 133	82 428 ...	16 / 47	83 225 ...	16 / 224	83 618 ...	16 / 281
10 841 ...	16 / 79	81 731 ...	16 / 133	82 429 ...	16 / 46	83 226 ...	16 / 218	83 622 ...	16 / 281
10 842 ...	16 / 136	81 732 ...	16 / 134	82 432 ...	16 / 49	83 227 ...	16 / 218	83 624 ...	16 / 280
56 703 ...	16 / 44	81 733 ...	16 / 135	82 439 ...	16 / 52	83 228 ...	16 / 224	83 629 ...	16 / 265
56 705 ...	16 / 44	81 735 ...	16 / 139	82 446 ...	16 / 51	83 229 ...	16 / 223	83 636 ...	16 / 229
56 707 ...	16 / 44	81 736 ...	16 / 133	82 453 ...	16 / 53	83 230 ...	16 / 223	83 641 ...	16 / 232
56 708 ...	16 / 246	81 737 ...	16 / 139	82 456 ...	16 / 56	83 231 ...	16 / 225	83 642 ...	16 / 230
56 709 ...	16 / 45	81 738 ...	16 / 150	82 458 ...	16 / 56	83 232 ...	16 / 225	83 644 ...	16 / 230
56 711 ...	16 / 91	81 739 ...	16 / 150	82 468 ...	16 / 57	83 233 ...	16 / 226	83 646 ...	16 / 233
56 714 ...	16 / 148	81 740 ...	16 / 150	82 475 ...	16 / 57	83 234 ...	16 / 226	83 648 ...	16 / 233
56 719 ...	16 / 149	81 741 ...	16 / 152	82 487 ...	16 / 58	83 269 ...	16 / 212	83 651 ...	16 / 268
56 721 ...	16 / 244	81 742 ...	16 / 152	82 493 ...	16 / 58	83 271 ...	16 / 272	83 652 ...	16 / 268
56 727 ...	16 / 243	81 744 ...	16 / 154	82 494 ...	16 / 58	83 272 ...	16 / 272	83 653 ...	16 / 268
56 729 ...	16 / 243	81 745 ...	16 / 157	82 501 ...	16 / 76	83 290 ...	16 / 220	83 660 ...	16 / 267
56 731 ...	16 / 247	81 746 ...	16 / 158	82 503 ...	16 / 75	83 292 ...	16 / 219	83 675 ...	16 / 267
56 733 ...	16 / 245	81 747 ...	16 / 152	82 504 ...	16 / 76	83 307 ...	16 / 220	83 689 ...	16 / 264
56 735 ...	16 / 245	81 900 ...	16 / 290	82 507 ...	16 / 77	83 318 ...	16 / 228	83 690 ...	16 / 269
56 743 ...	16 / 244	82 185 ...	16 / 209	82 509 ...	16 / 81	83 324 ...	16 / 221	83 691 ...	16 / 269
56 744 ...	16 / 244	82 189 ...	16 / 209	82 512 ...	16 / 82	83 357 ...	16 / 276	83 692 ...	16 / 269
62 950 ...	16 / 276	82 193 ...	16 / 209	82 513 ...	16 / 96	83 385 ...	16 / 253	83 693 ...	16 / 269
74 570 ...	16 / 200	82 196 ...	16 / 209	82 514 ...	16 / 93	83 402 ...	16 / 221	83 694 ...	16 / 269
74 571 ...	16 / 200	82 199 ...	16 / 210	82 516 ...	16 / 92	83 403 ...	16 / 21	83 706 ...	16 / 118
74 572 ...	16 / 200	82 202 ...	16 / 210	82 518 ...	16 / 99	83 416 ...	16 / 38	83 710 ...	16 / 145
74 573 ...	16 / 200	82 205 ...	16 / 210	82 519 ...	16 / 95	83 421 ...	16 / 19	83 712 ...	16 / 145
74 575 ...	16 / 201	82 208 ...	16 / 210	82 523 ...	16 / 102	83 422 ...	16 / 17	83 715 ...	16 / 273
74 576 ...	16 / 200	82 211 ...	16 / 211	82 525 ...	16 / 98	83 423 ...	16 / 40	83 722 ...	16 / 119
74 577 ...	16 / 201	82 214 ...	16 / 211	82 527 ...	16 / 97	83 425 ...	16 / 21	83 724 ...	16 / 143
74 584 ...	16 / 199	82 217 ...	16 / 211	82 530 ...	16 / 112	83 427 ...	16 / 18	83 726 ...	16 / 121
74 585 ...	16 / 199	82 220 ...	16 / 211	82 531 ...	16 / 111	83 428 ...	16 / 40	83 727 ...	16 / 120
80 021 ...	16 / 285	82 222 ...	16 / 212	82 533 ...	16 / 111	83 453 ...	16 / 241	83 729 ...	16 / 122
80 306 ...	16 / 227	82 224 ...	16 / 212	82 534 ...	16 / 112	83 454 ...	16 / 241	83 758 ...	16 / 163
80 309 ...	16 / 227	82 236 ...	16 / 217	82 536 ...	16 / 112	83 455 ...	16 / 242	83 760 ...	16 / 163
80 310 ...	16 / 227	82 237 ...	16 / 217	82 537 ...	16 / 112	83 471 ...	16 / 58	83 950 ...	16 / 255
80 312 ...	16 / 228	82 238 ...	16 / 218	82 630 ...	16 / 270	83 513 ...	16 / 65	84 000 ...	16 / 250
80 392 ...	16 / 285	82 242 ...	16 / 217	82 631 ...	16 / 270	83 515 ...	16 / 84	84 001 ...	16 / 249
80 393 ...	16 / 286	82 243 ...	16 / 217	82 632 ...	16 / 270	83 518 ...	16 / 68	84 002 ...	16 / 250
80 394 ...	16 / 286	82 244 ...	16 / 218	82 648 ...	16 / 252	83 521 ...	16 / 67	84 003 ...	16 / 251
80 395 ...	16 / 286	82 268 ...	16 / 214	82 650 ...	16 / 264	83 522 ...	16 / 66	84 004 ...	16 / 249
80 397 ...	16 / 283	82 274 ...	16 / 213	82 651 ...	16 / 264	83 523 ...	16 / 69	84 005 ...	16 / 249
80 398 ...	16 / 287	82 277 ...	16 / 216	82 652 ...	16 / 264	83 525 ...	16 / 86	84 006 ...	16 / 251
80 399 ...	16 / 291	82 285 ...	16 / 215	82 653 ...	16 / 268	83 526 ...	16 / 64	84 007 ...	16 / 249
80 642 ...	16 / 239	82 286 ...	16 / 215	82 654 ...	16 / 268	83 527 ...	16 / 106	84 008 ...	16 / 250
80 661 ...	16 / 266	82 310 ...	16 / 129	82 655 ...	16 / 268	83 528 ...	16 / 86	84 009 ...	16 / 251
80 662 ...	16 / 266	82 317 ...	16 / 228	82 663 ...	16 / 260	83 532 ...	16 / 111	84 010 ...	16 / 249
80 663 ...	16 / 266	82 327 ...	16 / 222	82 664 ...	16 / 260	83 535 ...	16 / 57	84 011 ...	16 / 250
80 664 ...	16 / 266	82 330 ...	16 / 222	82 665 ...	16 / 260	83 538 ...	16 / 57	84 012 ...	16 / 251
80 665 ...	16 / 266	82 401 ...	16 / 29	82 666 ...	16 / 260	83 608 ...	16 / 174	84 013 ...	16 / 156
80 699 ...	16 / 234	82 403 ...	16 / 28	82 673 ...	16 / 263	83 609 ...	16 / 271	84 014 ...	16 / 54
80 720 ...	16 / 273	82 404 ...	16 / 29	82 674 ...	16 / 263	83 610 ...	16 / 279	84 015 ...	16 / 55
80 722 ...	16 / 273	82 407 ...	16 / 31	82 675 ...	16 / 263	83 611 ...	16 / 271	84 016 ...	16 / 100
80 950 ...	16 / 283	82 411 ...	16 / 36	82 676 ...	16 / 263	83 612 ...	16 / 277	84 017 ...	16 / 101
80 951 ...	16 / 287	82 415 ...	16 / 35	82 677 ...	16 / 263	83 614 ...	16 / 280	84 040 ...	16 / 155
81 728 ...	16 / 152	82 423 ...	16 / 50	82 700 ...	16 / 137	83 616 ...	16 / 278	84 100 ...	16 / 168

Article No.	Page(s)
84 102 ...	16 / 169
84 104 ...	16 / 166
84 105 ...	16 / 166
84 106 ...	16 / 166
84 108 ...	16 / 165
84 110 ...	16 / 177
84 111 ...	16 / 173
84 112 ...	16 / 164
84 114 ...	16 / 171
84 115 ...	16 / 172
84 116 ...	16 / 182
84 117 ...	16 / 182
84 122 ...	16 / 178
84 124 ...	16 / 179
84 126 ...	16 / 180
84 128 ...	16 / 170
84 130 ...	16 / 204
84 131 ...	16 / 205
84 132 ...	16 / 202
84 134 ...	16 / 181
84 135 ...	16 / 208
84 136 ...	16 / 182
84 140 ...	16 / 174
84 142 ...	16 / 175
84 200 ...	16 / 146
84 201 ...	16 / 41
84 202 ...	16 / 87
84 203 ...	16 / 146
84 204 ...	16 / 42
84 205 ...	16 / 88
84 206 ...	16 / 147
84 207 ...	16 / 42
84 208 ...	16 / 89
84 209 ...	16 / 193
84 211 ...	16 / 41
84 212 ...	16 / 87
84 213 ...	16 / 43
84 214 ...	16 / 90
84 215 ...	16 / 176
84 216 ...	16 / 194
84 217 ...	16 / 195
84 218 ...	16 / 196
84 219 ...	16 / 197
84 220 ...	16 / 186
84 221 ...	16 / 185
84 222 ...	16 / 184
84 223 ...	16 / 183
84 224 ...	16 / 188
84 225 ...	16 / 189
84 226 ...	16 / 190
84 227 ...	16 / 189
84 228 ...	16 / 191
84 229 ...	16 / 192

Article No.	Page(s)
84 230 ...	16 / 198
84 297 ...	16 / 219
84 300 ...	16 / 23
84 301 ...	16 / 25
84 303 ...	16 / 71
84 304 ...	16 / 124
84 305 ...	16 / 126
84 307 ...	16 / 161
84 308 ...	16 / 161
84 309 ...	16 / 161
84 310 ...	16 / 235
84 311 ...	16 / 231
84 313 ...	16 / 237
84 314 ...	16 / 231
84 315 ...	16 / 238
84 316 ...	16 / 125
84 317 ...	16 / 24
84 320 ...	16 / 22
84 323 ...	16 / 70
84 324 ...	16 / 123
84 325 ...	16 / 105
84 357 ...	16 / 282
84 358 ...	16 / 282
84 400 ...	16 / 63
84 406 ...	16 / 15
84 412 ...	16 / 14
84 414 ...	16 / 12
84 417 ...	16 / 13
84 418 ...	16 / 37
84 419 ...	16 / 37
84 420 ...	16 / 37
84 424 ...	16 / 12
84 435 ...	16 / 275
84 456 ...	16 / 240
84 507 ...	16 / 61
84 508 ...	16 / 61
84 509 ...	16 / 83
84 510 ...	16 / 83
84 511 ...	16 / 83
84 513 ...	16 / 62
84 517 ...	16 / 60
84 518 ...	16 / 107
84 524 ...	16 / 59
84 525 ...	16 / 103
84 531 ...	16 / 261
84 533 ...	16 / 261
84 534 ...	16 / 261
84 536 ...	16 / 257
84 537 ...	16 / 257
84 538 ...	16 / 257
84 539 ...	16 / 257
84 540 ...	16 / 257
84 547 ...	16 / 258

Article No.	Page(s)
84 548 ...	16 / 258
84 549 ...	16 / 258
84 550 ...	16 / 258
84 551 ...	16 / 258
84 552 ...	16 / 108
84 557 ...	16 / 109
84 562 ...	16 / 110
84 567 ...	16 / 262
84 568 ...	16 / 262
84 569 ...	16 / 262
84 576 ...	16 / 259
84 577 ...	16 / 256
84 578 ...	16 / 259
84 579 ...	16 / 259
84 580 ...	16 / 259
84 581 ...	16 / 259
84 582 ...	16 / 259
84 585 ...	16 / 256
84 596 ...	16 / 256
84 597 ...	16 / 256
84 598 ...	16 / 256
84 599 ...	16 / 256
84 602 ...	16 / 202
84 604 ...	16 / 203
84 605 ...	16 / 203
84 610 ...	16 / 202
84 611 ...	16 / 202
84 612 ...	16 / 203
84 613 ...	16 / 203
84 614 ...	16 / 203
84 615 ...	16 / 203
84 620 ...	16 / 206
84 624 ...	16 / 207
84 625 ...	16 / 207
84 651 ...	16 / 208
84 700 ...	16 / 130
84 701 ...	16 / 130
84 704 ...	16 / 130
84 705 ...	16 / 130
84 706 ...	16 / 131
84 707 ...	16 / 132
84 708 ...	16 / 131
84 710 ...	16 / 142
84 712 ...	16 / 162
84 716 ...	16 / 141
84 717 ...	16 / 127
84 719 ...	16 / 115
84 720 ...	16 / 128
84 721 ...	16 / 114
84 722 ...	16 / 113
84 723 ...	16 / 128
84 724 ...	16 / 116
84 726 ...	16 / 138

Article No.	Page(s)
84 732 ...	16 / 138
84 738 ...	16 / 138
84 750 ...	16 / 151
84 754 ...	16 / 151
84 755 ...	16 / 151
84 757 ...	16 / 151
84 774 ...	16 / 160
84 776 ...	16 / 159
84 799 ...	16 / 157
84 950 ...	16 / 274
85 290 ...	16 / 288
85 291 ...	16 / 288
85 292 ...	16 / 289
85 295 ...	16 / 289
85 299 ...	16 / 289
85 900 ...	16 / 288

Article No.	Tool type	Page(s)
80 809 ...	PNG	17 / 126
80 857 ...	ESG 5	17 / 51
80 857 30000	DSG 4, ESG 4, ESG 5	17 / 55
80 857 30100	DSG 4, ESG 5, ZSG 4	17 / 55
80 857 30200	ESG 5	17 / 55
80 875 107	ZSG 3	17 / 147
80 875 112	ZSG 3	17 / 147
80 875 212	DSG 4, ESG 4, ZSG 4	17 / 147
80 875 214	DSG 4, ESG 4, ZSG 4	17 / 147
80 875 27000	ZSG 4	17 / 147
80 877 ...		17 / 139
80 877 105		17 / 147
80 877 108	ESG mini, MNG, MSG 2	17 / 147
80 877 208		17 / 147
80 877 210	ESG mini	17 / 147
80 877 214	ESG mini, H5G Z, X5G Z	17 / 147
80 878 ...	MNG, ZSG 4	17 / 115
80 878 305	ESG 4, ZSG 4	17 / 46
80 878 31000	ZSG 4	17 / 84
80 878 31100	ZSG 4	17 / 84
80 878 31200	ZSG 4	17 / 84
80 878 31300	ZSG 4	17 / 84
80 878 31400	DSG 4, ESG 4, ZSG 4	17 / 135
80 878 31500	ZSG 4	17 / 84
80 878 31600	ZSG 4	17 / 84
80 878 31700	ZSG 4	17 / 84
80 878 31800	ZSG 4	17 / 85
80 878 31900	ZSG 4	17 / 85
80 878 33000	ZSG 4	17 / 84
80 878 33100	ZSG 4	17 / 84
80 878 33200	ZSG 4	17 / 84
80 878 33300	ZSG 4	17 / 84
80 878 33400	ZSG 4	17 / 85
80 878 33500	ZSG 4	17 / 85
80 878 510	ESG 5, ZSG 4	17 / 55
80 878 51100	ZSG 4	17 / 83
80 878 51200	ZSG 4	17 / 84
80 878 520	ZSG 4	17 / 83
80 878 530	ZSG 4	17 / 85
80 878 550	DSG 4, ESG 4, ZSG 4	17 / 85
80 878 565	ESG 4, ZSG 4	17 / 83
80 878 570	DSG 4, ESG 4, ZSG 4	17 / 85
80 878 590	ZSG 4	17 / 86
80 878 610	ESG 4, ESG 5, ZSG 4	17 / 55
80 878 625	ZSG 4	17 / 83
80 878 660	ZSG 4	17 / 83
80 878 665	ZSG 4	17 / 83
80 878 670	ESG 4, ZSG 4	17 / 85
80 878 690	ZSG 4	17 / 86
80 878 79800	DSG 4, ESG 4, ZSG 4	17 / 143
80 878 79900	DSG 4, ESG 4, HDG 2, NCG, ZSG 4	17 / 143
80 878 810	DSG 4, ESG 4, ESG 5, ZSG 4	17 / 83
80 878 81100	ZSG 4	17 / 83
80 878 81200	ZSG 4	17 / 84
80 878 830	DSG 4, ESG 4, ZSG 4	17 / 135
80 878 840	ESG 4, ZSG 4	17 / 83
80 878 850	DSG 4, ESG 4, ZSG 4	17 / 85
80 878 870	DSG 4, ESG 4, ZSG 4	17 / 95
80 878 890	ZSG 4	17 / 86
80 884 ...	MNG, PNG	17 / 128
80 884 402	MNG, MSG 2, ZSG 3	17 / 147
80 884 502	DSG 4, ESG mini, HDG 2, X5G Z, ZSG 4, ZSG mini	17 / 147
80 884 504	HDG 2, ZSG 4, ZSG mini	17 / 147
80 887 ...	MSG 2	17 / 97
80 888 ...	MSG 2	17 / 103
80 888 002	MSG 2	17 / 102
80 888 004	MSG 2	17 / 102
80 888 401	MSG 2	17 / 101
80 888 403	MSG 2	17 / 101
80 888 404	MSG 2	17 / 101
80 888 405	MSG 2	17 / 101
80 888 406	MSG 2	17 / 102
80 888 407	MSG 2	17 / 101
80 888 408	MSG 2	17 / 101
80 888 51000	MSG 2	17 / 101
80 888 607	MSG 2	17 / 102
80 888 651	MSG 2	17 / 101
80 888 653	MSG 2	17 / 101
80 888 654	MSG 2	17 / 101
80 888 656	MSG 2	17 / 102
80 888 658	MSG 2	17 / 102
80 888 901	MSG 2	17 / 101
80 888 903	MSG 2	17 / 101
80 888 904	MSG 2	17 / 101
80 888 906	MSG 2	17 / 102
80 888 907	MSG 2	17 / 102
80 888 908	MSG 2	17 / 102
80 889 ...	MSG 2	17 / 103
80 889 401	ESG mini, MSG 2, ZSG 3	17 / 137
80 889 404	ESG mini, MSG 2, ZSG 3	17 / 138
80 889 405	MSG 2	17 / 137
80 889 406	MSG 2	17 / 102
80 889 407	MSG 2	17 / 102
80 889 408	MSG 2	17 / 138
80 889 411	MSG 2	17 / 142
80 889 416	MSG 2	17 / 142
80 889 421	MSG 2	17 / 142
80 889 425	MSG 2	17 / 142
80 889 428	MSG 2	17 / 142
80 889 430	MSG 2	17 / 142
80 889 432	MSG 2	17 / 142
80 889 611	MSG 2	17 / 142
80 889 616	MSG 2	17 / 142
80 889 622	MSG 2	17 / 142
80 889 625	MSG 2	17 / 142
80 889 628	MSG 2	17 / 142

Article No.	Tool type	Page(s)
80 889 630	MSG 2	17 / 142
80 889 632	MSG 2	17 / 142
80 889 651	ESG mini, MSG 2, ZSG 3, ZSG mini	17 / 137
80 889 654	DSG, ESG mini, MSG 2, ZSG, ZSG 3, ZSG mini	17 / 138
80 889 655	MSG 2	17 / 137
80 889 656	MSG 2	17 / 102
80 889 657	MSG 2	17 / 102
80 889 658	MSG 2	17 / 138
80 889 901	MSG 2	17 / 137
80 889 904	MSG 2	17 / 138
80 889 905	DSG, MSG 2, NCG 2, ZSG, ZSG mini	17 / 137
80 889 906	DSG, MSG 2, NCG 2, ZSG, ZSG mini	17 / 102
80 889 907	DSG, MSG 2, NCG 2, ZSG, ZSG mini	17 / 102
80 889 908	DSG, MSG 2, NCG 2, ZSG, ZSG mini	17 / 138
80 889 911	MSG 2	17 / 142
80 889 916	MSG 2	17 / 142
80 889 921	MSG 2	17 / 142
80 889 925	MSG 2	17 / 142
80 889 928	MSG 2	17 / 142
80 889 930	MSG 2	17 / 142
80 889 932	MSG 2	17 / 142
80 889 950	DSG, H5G, H5G S, HDG 2, MSG 2, NCG, NCG 2, ZSG, ZSG 3, ZSG 4	17 / 148
80 890 ...	H5G, H5G Z, NCG, NCG 5A	17 / 18
80 890 308	DSG 4, ESG 4, ESG mini, H5G, HDG 2, MSG 2, NCG, ZSG 4	17 / 149
80 890 309	DSG 4, ESG 4, ESG mini, H5G, HDG 2, MSG 2, NCG, ZSG 4	17 / 149
80 890 310	DSG 4, ESG 4, ESG mini, H5G, HDG 2, MSG 2, NCG, ZSG 4	17 / 149
80 890 311	DSG 4, ESG 4, ESG mini, H5G, HDG 2, MSG 2, NCG, ZSG 4	17 / 149
80 890 313	ESG 4, NCG	17 / 148
80 890 314	NCG	17 / 148
80 890 321	NCG	17 / 15
80 890 322	ESG mini, NCG	17 / 63
80 890 323	NCG, NCG 2	17 / 14
80 890 324	NCG, NCG 2	17 / 14
80 890 325	NCG, NCG 2	17 / 14
80 890 327	NCG	17 / 14
80 890 328	NCG	17 / 14
80 890 329	NCG	17 / 14
80 890 337	NCG	17 / 15
80 890 338	NCG	17 / 15
80 890 339	NCG	17 / 15
80 890 340	NCG	17 / 15
80 890 342	NCG	17 / 14
80 890 343	ESG mini, NCG	17 / 63
80 890 344	NCG	17 / 14
80 890 346	NCG	17 / 14
80 890 347	ESG mini, NCG	17 / 63
80 890 348	NCG	17 / 14
80 890 35100	NCG	17 / 14
80 890 35200	NCG	17 / 14
80 890 35300	DSG 4, ESG 4, ESG mini, H5G, H5G S, H5G Z, NCG, X5G Z, ZSG 4	17 / 86
80 890 364	NCG	17 / 15
80 890 365	NCG	17 / 15
80 890 366	NCG	17 / 15
80 890 367	NCG	17 / 15
80 890 390	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 391	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 392	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 393	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 394	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 395	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 396	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 399	DSG, NCG, NCG 2, ZSG	17 / 141
80 890 400	NCG, NCG 2	17 / 141
80 890 401	NCG, NCG 2	17 / 141
80 890 409	NCG, NCG 2	17 / 141
80 890 411	NCG, NCG 2	17 / 141
80 890 421	NCG, NCG 2	17 / 141
80 890 422	NCG, NCG 2	17 / 141
80 890 452	NCG, NCG 2	17 / 141
80 890 454	NCG, NCG 2	17 / 141
80 890 456	NCG, NCG 2	17 / 141
80 890 630	H5G, H5G S, NCG, NCG 2, NCG 5AC	17 / 148
80 890 632	H5G, H5G S, NCG, NCG 2, NCG 5AC	17 / 148
80 890 763	NCG	17 / 15
80 890 764	NCG	17 / 15
80 890 767	NCG	17 / 15
80 890 768	NCG	17 / 15
80 891 600	ESG mini, H5G Z, ZSG 4	17 / 147
80 892 ...	HDG 2	17 / 69
80 892 20100	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 138
80 892 20200	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 138
80 892 20300	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 138
80 892 20400	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 137
80 892 20500	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 137
80 892 20600	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 137
80 892 20700	ESG mini, HDG 2, HSG, NCG	17 / 137
80 892 20800	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 137
80 892 20900	ESG 4, HDG 2, NCG, ZSG 4	17 / 137
80 892 21400	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 134
80 892 21500	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 134
80 892 21600	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 134
80 892 21700	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 136
80 892 21800	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG	17 / 136
80 892 21900	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 136
80 892 225	HDG 2	17 / 68
80 892 226	HDG 2	17 / 68
80 892 227	HDG 2	17 / 68
80 892 22800	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 140
80 892 22900	DSG, DSG 4, ESG 4, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 140
80 892 23000	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 140
80 892 240	ZSG 4	17 / 85
80 892 244	HSG	17 / 105
80 892 245	ZSG 4	17 / 85
80 892 246	DSG 4, ESG 4, ESG mini, H5G, NCG, X5G Z, ZSG 4	17 / 134
80 892 24700	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 138
80 892 24800	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 138

Article No.	Tool type	Page(s)
80 892 24900	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 138
80 892 250	DSG 4, ESG 4, H5G, HDG 2, HSG, NCG, ZSG 4	17 / 135
80 892 258	NCG, NCG 2	17 / 139
80 892 259	HDG 2, NCG, NCG 2	17 / 139
80 892 260	HDG 2, NCG, NCG 2	17 / 139
80 892 26100	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 139
80 892 26200	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 139
80 892 26300	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 139
80 892 279	ESG mini, MSG 2, ZSG 3	17 / 136
80 892 280	ESG mini, MSG 2, ZSG 3, ZSG mini	17 / 136
80 892 284	MSG 2	17 / 136
80 892 288	DSG 4, ESG 4, H5G, HDG 2, HSG, NCG	17 / 136
80 892 29000	ESG mini, HDG 2, HSG, NCG	17 / 135
80 892 29100	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 135
80 892 29200	ESG mini, HDG 2, HSG, NCG	17 / 135
80 892 29300	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 135
80 892 29400	ESG mini, HDG 2, HSG, NCG	17 / 135
80 892 29500	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 135
80 892 296	DSG, H5G, H5G S, HDG 2, NCG, NCG 2, ZSG, ZSG 3, ZSG 4	17 / 148
80 892 29700	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 135
80 892 29800	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 135
80 892 29900	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 135
80 892 338	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 134
80 892 339	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 134
80 892 340	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 134
80 892 341	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 134
80 892 342	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 134
80 892 343	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 134
80 892 344	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 134
80 892 345	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 134
80 892 346	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 134
80 892 348	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 134
80 892 349	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 134
80 892 356	DSG, MSG 2, NCG 2, ZSG, ZSG mini	17 / 139
80 892 36100	DSG 4, ESG 4, H5G, HDG 2, NCG, ZSG 4	17 / 136
80 892 36200	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 136
80 892 36300	ESG mini, HDG 2, NCG	17 / 135
80 892 36400	ESG 4, HDG 2, NCG, ZSG 4	17 / 135
80 892 36500	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 135
80 892 370	DSG, ESG mini, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 139
80 892 371	DSG, DSG 4, ESG 4, H5G, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG 4	17 / 139
80 892 372	ESG 4, HDG 2, NCG, NCG 2, ZSG 4	17 / 139
80 892 37300	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 136
80 892 37400	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 135
80 892 37500	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 136
80 892 37600	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 135
80 892 37700	DSG 4, ESG 4, H5G, H5G S, H5G Z, HDG 2, NCG, ZSG 4	17 / 136
80 892 390	HDG 2	17 / 142
80 892 391	HDG 2	17 / 142
80 892 392	HDG 2	17 / 142
80 892 393	HDG 2	17 / 142
80 892 394	HDG 2	17 / 142
80 892 395	HDG 2	17 / 142

Article No.	Tool type	Page(s)
80 892 396	HDG 2	17 / 142
80 892 399	HDG 2	17 / 142
80 892 401	HDG 2	17 / 142
80 892 403	HDG 2	17 / 142
80 892 411	HDG 2	17 / 142
80 892 413	HDG 2	17 / 142
80 892 421	HDG 2	17 / 142
80 892 423	HDG 2	17 / 142
80 892 75400	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 75500	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 75600	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 75700	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 75800	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 75900	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76000	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76100	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76200	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76300	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76400	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76500	HDG 2, NCG, X5G Z S, ZSG 4	17 / 144
80 892 76600	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 76700	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 76800	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 76900	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77000	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77100	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77200	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77300	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77400	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77500	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77600	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77700	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77800	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 77900	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 78000	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 78100	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 78200	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 78300	DSG 4, HDG 2, NCG, ZSG 4	17 / 144
80 892 78400	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 78500	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 78600	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 78700	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 78800	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 78900	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 79000	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 79100	ESG mini, HDG 2, NCG, ZSG 4	17 / 144
80 892 79200	DSG 4, ESG 4, ZSG 4	17 / 144
80 892 79300	DSG 4, HDG 2, ZSG 4	17 / 144
80 892 79400	DSG 4, ESG 4, ZSG 4	17 / 144
80 892 79500	HDG 2, NCG, ZSG 4	17 / 144
80 892 79600	DSG 4, ESG 4, ZSG 4	17 / 144
80 892 79700	ESG mini, HDG 2, NCG, ZSG 4	17 / 143
80 892 79800	DSG 4, HDG 2, NCG, ZSG 4	17 / 143

Article No.	Tool type	Page(s)
80 892 79900	ESG 4, HDG 2, NCG, ZSG 4	17 / 143
80 893 ...	HSG	17 / 106
80 893 081	HSG	17 / 105
80 893 082	HSG	17 / 105
80 893 083	HSG	17 / 105
80 893 093	HSG	17 / 105
80 893 102	DSG, HSG, NCG 2, ZSG, ZSG mini	17 / 105
80 893 103	DSG, HSG, NCG 2, ZSG, ZSG mini	17 / 105
80 893 127	DSG, HSG, NCG 2, ZSG	17 / 105
80 893 128	DSG, HSG, NCG 2, ZSG	17 / 105
80 895 ...	SG 4, ESG 4, ESG mini, MSG 2, ZSG 4	17 / 145
80 895 019	DSG 4, ESG 4, H5G, MNG, MSG 2, ZSG 4	17 / 148
80 895 244	ESG mini, MSG 2, ZSG 3	17 / 138
80 895 245	ESG 4, ESG mini, H5G, MSG 2, ZSG 3, ZSG 4, ZSG mini	17 / 138
80 895 246	MSG 2	17 / 138
80 895 318	ESG mini	17 / 64
80 895 320	ESG mini	17 / 64
80 895 332	ESG mini, H5G, MSG 2, ZSG mini	17 / 134
80 895 334	ESG mini	17 / 64
80 895 335	DSG, ESG mini, H5G, H5G S, MSG 2, NCG 2, ZSG, ZSG 3, ZSG 4, ZSG mini	17 / 138
80 895 336	ESG mini, ZSG mini	17 / 64
80 895 337	ESG mini, H5G, MSG 2, ZSG 3, ZSG 4, ZSG mini	17 / 139
80 895 338	ESG mini, ZSG mini	17 / 63
80 895 340	DSG, ESG mini, H5G, H5G S, MSG 2, NCG 2, ZSG, ZSG 3, ZSG 4, ZSG mini	17 / 138
80 895 341	ESG mini	17 / 64
80 895 343	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 138
80 895 345	DSG, ESG mini, HDG 2, MSG 2, NCG, NCG 2, ZSG, ZSG mini	17 / 138
80 895 346	ESG mini, ZSG mini	17 / 64
80 895 347	ESG mini, ZSG mini	17 / 64
80 895 348	ESG mini, ZSG mini	17 / 63
80 895 349	ESG mini, ZSG mini	17 / 64
80 897 ...	ESG mini	17 / 60
80 897 004	ESG mini	17 / 141
80 897 005	ESG mini	17 / 141
80 897 011	ESG mini	17 / 141
80 897 016	ESG mini	17 / 141
80 897 900	ESG mini	17 / 63
80 897 901	ESG mini	17 / 63
80 897 916	ESG mini	17 / 63
80 897 917	ESG mini	17 / 63
80 897 920	ESG mini	17 / 64
80 898 ...	H5G, H5G S, H5G Z	17 / 29
80 898 225	H5G, H5G S, H5G Z	17 / 27
80 898 250	DSG 4, ESG 4, H5G	17 / 135
80 898 251	DSG 4, ESG 4, H5G	17 / 137
80 898 252	DSG 4, ESG 4, H5G	17 / 135
80 898 253	DSG 4, ESG 4, H5G	17 / 136
80 898 254	DSG 4, ESG 4, H5G	17 / 137
80 898 325	H5G, H5G S, H5G Z	17 / 27
80 898 35000	H5G	17 / 28
80 898 412	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, MSG 2, NCG, NCG 2, ZSG	17 / 149
80 898 414	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, MSG 2, NCG, NCG 2, ZSG	17 / 149
80 898 416	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, MSG 2, NCG, NCG 2, ZSG	17 / 149
80 898 418	DSG, DSG 4, ESG 4, H5G, H5G S, HDG 2, MSG 2, NCG, NCG 2, ZSG	17 / 149
80 898 425	H5G, H5G S, H5G Z	17 / 27
80 898 525	H5G, H5G S, H5G Z	17 / 27
80 898 625	H5G, H5G S, H5G Z	17 / 27
80 898 923	ESG mini, MSG 2, ZSG mini	17 / 140
80 898 924	DSG, ESG mini, HDG 2, HSG, NCG, NCG 2, ZSG, ZSG mini	17 / 140
80 898 925	DSG, HDG 2, HSG, NCG, NCG 2, ZSG	17 / 140
80 898 926	HDG 2, NCG, NCG 2	17 / 140
80 899 ...	MNG	17 / 117
80 899 112	MNG, MSG 2	17 / 149
80 899 114	MNG, MSG 2	17 / 149
80 899 116	MNG, MSG 2	17 / 149
80 899 118	MNG, MSG 2	17 / 149
80 899 124	MNG, MSG 2	17 / 148
80 899 410	MNG	17 / 147
80 901 ...	MNG, PNG	17 / 129
80 901 300	ESG 4, ESG 5	17 / 55
80 901 301	ESG 4	17 / 46
80 901 302	DSG 4, ESG 4	17 / 46
80 901 303	DSG 4, ESG 4, ZSG 4	17 / 94
80 901 304	ESG 4	17 / 46
80 901 305	ESG 4	17 / 47
80 901 306	ESG 4, ESG 5	17 / 55
80 901 307	ESG 4	17 / 46
80 901 308	ESG 4	17 / 47
80 901 309	DSG 4, ESG 4, ZSG 4	17 / 140
80 901 310	DSG 4, ESG 4, ZSG 4	17 / 140
80 901 311	ESG 4, ZSG 4	17 / 140
80 901 31200	ESG 4	17 / 46
80 901 31300	DSG 4, ESG 4, ZSG 4	17 / 94
80 901 31400	ESG 4	17 / 46
80 901 31500	DSG 4, ESG 4, ZSG 4	17 / 46
80 901 31600	ESG 4	17 / 46
80 901 31700	ESG 4, ZSG 4	17 / 46
80 901 501	ESG 4	17 / 47
80 901 502	ESG 4	17 / 47
80 901 503	ESG 4	17 / 47
80 901 700	ESG 4	17 / 141
80 901 701	ESG 4	17 / 141
80 901 702	ESG 4	17 / 141
80 901 703	ESG 4	17 / 141
80 901 704	ESG 4	17 / 141
80 901 705	ESG 4	17 / 141
80 901 706	ESG 4	17 / 141
80 901 707	ESG 4	17 / 141
80 901 708	ESG 4	17 / 141
80 901 79900	DSG 4, HDG 2, NCG, ZSG 4	17 / 143
80 906 ...	DSG 4	17 / 89
80 906 300	DSG 4	17 / 94
80 906 301	DSG 4	17 / 94
80 906 302	DSG 4	17 / 94
80 906 303	DSG 4	17 / 95
80 906 304	DSG 4	17 / 94

Article No.	Tool type	Page(s)
80 906 305	DSG 4	17 / 94
80 906 306	DSG 4	17 / 94
80 906 307	DSG 4	17 / 95
80 906 30900	ESG 4, ZSG 4	17 / 135
80 906 715	DSG 4	17 / 142
80 906 721	DSG 4	17 / 142
80 906 722	DSG 4	17 / 142
80 906 725	DSG 4	17 / 142
80 906 732	DSG 4	17 / 142
80 907 ...	H5G Z	17 / 39
80 907 300	H5G, H5G S, H5G Z	17 / 27
80 907 302	DSG 4, ESG 4, HDG 2, HSG, NCG, ZSG 4	17 / 136
80 908 ...	X5G Z	17 / 38
80 909 30000	X5G Z	17 / 35
80 909 30100	X5G Z	17 / 35
80 909 30200	X5G Z	17 / 35
80 909 30300	X5G Z	17 / 35
80 909 30400	X5G Z	17 / 35
80 909 30500	X5G Z	17 / 35
80 909 30600	X5G Z	17 / 35
80 909 30700	X5G Z	17 / 35
80 909 30800	X5G Z	17 / 35
80 909 30900	X5G Z	17 / 35
80 909 31000	X5G Z	17 / 35
80 909 31100	X5G Z	17 / 35
80 909 31200	X5G Z	17 / 35
80 909 31300	X5G Z	17 / 36
80 909 31400	X5G Z	17 / 35
80 909 31500	X5G Z	17 / 36

ISO designation system

ISO attribute	Feature Description
A	
ADJRG	Adjustment range
ADJRGR	Adjustment range radial
ALP	Clearance angle axial
AN	Clearance angle major
APMX	Depth of cut maximum
B	
B	Shank width
BD	Body diameter
BD_1	Body diameter, 1st cutting step
BD_2	Body diameter, 2nd cutting step
BD_3	Body diameter, 3rd cutting step
BD_4	Body diameter, 4th cutting step
BDRED	Body diameter, reduced
BDX	Body diameter maximum
BHTA	Body half taper angle
BN	Face land width
BS	Wiper edge length
BTED	Body taper end diameter
C	
CDX	Cutting depth maximum
CF	Central flat
CHW	Corner chamfer width
CHWTL	Flank chamfer width left hand
CLDIS_1	centre line distance 1
CLDIS_2	centre line distance 2
CLDIS_3	centre line distance 3
CND	Coolant entry diameter
CNT	Coolant entry, thread size
CODX	Parting off diameter, max.
CRE	Spot radius
CRKS	Pull stud thread size
CW	Cutting width
CXD	Coolant exit diameter
D	
D1	Fixing hole diameter
DAXN	Axial groove outside diameter minimum
DAXX	Axial groove outside diameter maximum
DC	Cutting diameter
DC_1	Cutting diameter, 1st cutting step
DC_2	Cutting diameter, 2nd cutting step
DCD	Cutting diameter drilling part
DCINTF	Interference cutting diameter
DCN	Cutting diameter minimum
DCONMS	Mounting spigot diameter
DCONWS	Connection diameter workpiece side
DCONWS_1	Connection diameter workpiece side 1
DCONWS_2	Connection diameter workpiece side 2
DCSKX	Countersunk diameter, max
DCX	Cutting diameter maximum
DF	Flange diameter
DFC	Functional diameter
DHUB	Hub diameter
DLN	Diameter lock nut
DMIN	Minimum bore diameter
DN	Neck Diameter
DRVS	Drive size

ISO attribute	Feature Description
G	
GAN	Insert rake angle
GB	Face land angle
H	
H	Shank height
HDD	Head diameter
HDW	head width
HF	Functional height
HLN	Lock nut height
HSUP	Support height
I	
IC	Inscribed circle diameter
IH	Insert hand
INSL	Insert length
K	
KAPR	Tool cutting edge angle
KCH	Corner chamfer angle
L	
L	Cutting edge length
L_1	Cutting edge length 1
L_2	Cutting edge length 2
L_3	Cutting edge length 3
LB	Body length
LB_1	Body length 1
LB_2	Body length 2
LCF	Length chip flute
LCOL	Collet length
LDRED	Reduced body diameter length
LE	Cutting edge effective length
LF	Functional length
LF_1	Functional length 1
LF_2	Functional length 2
LF_3	Functional length 3
LFSF	Distance to face
LH	Head length
LPCON	Connection protruding length
LPR	Protruding length
LS	Shank length
LSC	Clamping length machine side
LSCN	Clamping length minimum machine side
LSCX	Clamping length maximum machine side
LTA	length tool assembly
LU	Usable length
LUX	Usable length maximum
M	
MXC_R	Clamping force maximum
N	
NOF	Flute count
NT	Tooth count
O	
OAH	Overall height
OAL	Overall length
OAW	Overall width

Continued on next page

ISO designation system

ISO attribute	Feature Description
P	
PDPT	Profile depth insert
PDX	Profile distance ex
PDY	Profile distance ey
PHD	Premachined hole diameter
PL	Point length
PLGL	Plug length
PNA	Profile included angle
PRFA	Profile angle
PRFRAD	Profile radius
PRFRAD1	Profile radius 1
PRFRAD2	Profile radius 2
PRFRAD3	Profile radius 3
PSIR	Tool lead angle
R	
RA	Relief angle
RADH	Radial height
RADW	Radial width
RADWOF	Radial offset width
RAR	Relief angle rh
RCSK	Radius countersunk
RE	Corner radius
RE_1	Corner radius 1
RE_2	Corner radius 2
RE_3	Corner radius 3
REL	Corner radius left hand
RETL	Flank radius left hand
RETR	Flank radius right hand
RPMX	Rotational speed maximum
S	
S	Insert thickness
S1	Insert thickness total
SD	Step distance
SDL	Step diameter length
SDL_1	Step diameter length 1
SDL_2	Step diameter length 2
SZID	nominal size
T	
THID	Thread designation inside
THL	Thread cutting part length
THOD	Thread designation outside
THSZMS	Connection thread nominal size
THSZWS	Connection thread nominal size workpiece side
TP	Thread pitch
TPI	Threads per inch
TQX	Torque maximum
W	
W1	Insert width
WF	Functional width
WF2	Functional width 2
WT	Weight of item
Z	
ZEFP	Peripheral effective cutting edge count
ZNF	Face mounted insert count
ZNP	Peripheral mounted insert count



Find out more at:
cutting.tools/int/en/dragonskin

CERATIZIT
GROUP