

The Catalogue



Clamping Technology

TEAM CUTTING TOOLS



KOMET



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

**FULL RANGE
PRODUCT PORTFOLIO**

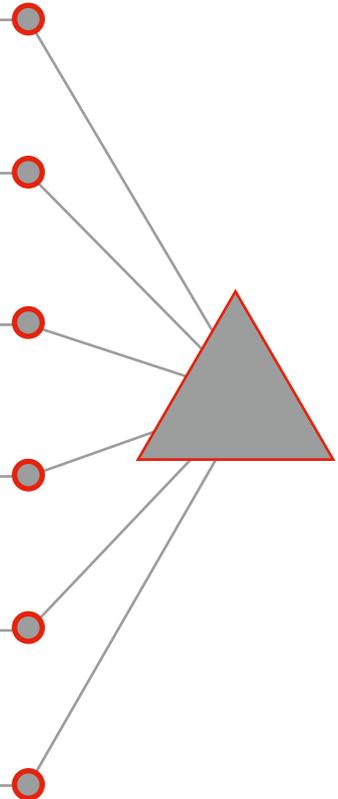
**INNOVATIVE
ORIENTATION**

**HIGHEST
TECHNICAL COMPETENCE**

**FAST AND EFFICIENT
AVAILABILITY**

**DEEP
INDUSTRY KNOWLEDGE**

**INDEPENDENT
QUALITY GUARANTEE**



Contact us



Placing your order is quick and easy

Customer Service Centre

Freephone Number

UK: 0800 073 2073

Ireland: 1800 93 22 55

Freefax Number

UK: 0800 073 2074

E-Mail

info.uk@ceratizit.com



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

1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

5 Spindle Tooling

6 Taps and thread formers

7 Circular and Thread Milling

8 Thread turning

9 Turning Tools

10 Multifunctional Tools – EcoCut and FreeTurn

11 Grooving Tools

12 Miniature turning tools

13 HSS Milling Cutters

14 Solid Carbide milling cutters

15 Milling tools with indexable inserts

16 Adaptors and Accessories

17 Workpiece clamping

18 Material examples and article no. Index

Solid drilling and bore machining

Threading

Turning

Milling

Catalogue –
Clamping technology



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

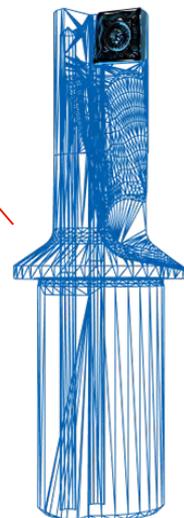
- ▲ All key data in your ERP system
- ▲ Optimise your internal procurement processes
- ▲ Avoid copy/paste errors with direct data transfer

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/gb/en/faq

FULL RANGE PRODUCT PORTFOLIO

Everything for machining from the spindle
to machine table



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



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



- ▲ 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

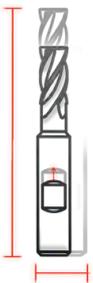


- ▲ Solid Carbide Drilling and Milling for Aerospace Frame Assembly Industry



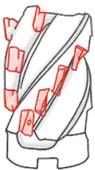
COMPREHENSIVE RANGE OF STANDARD-TOOLS

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.



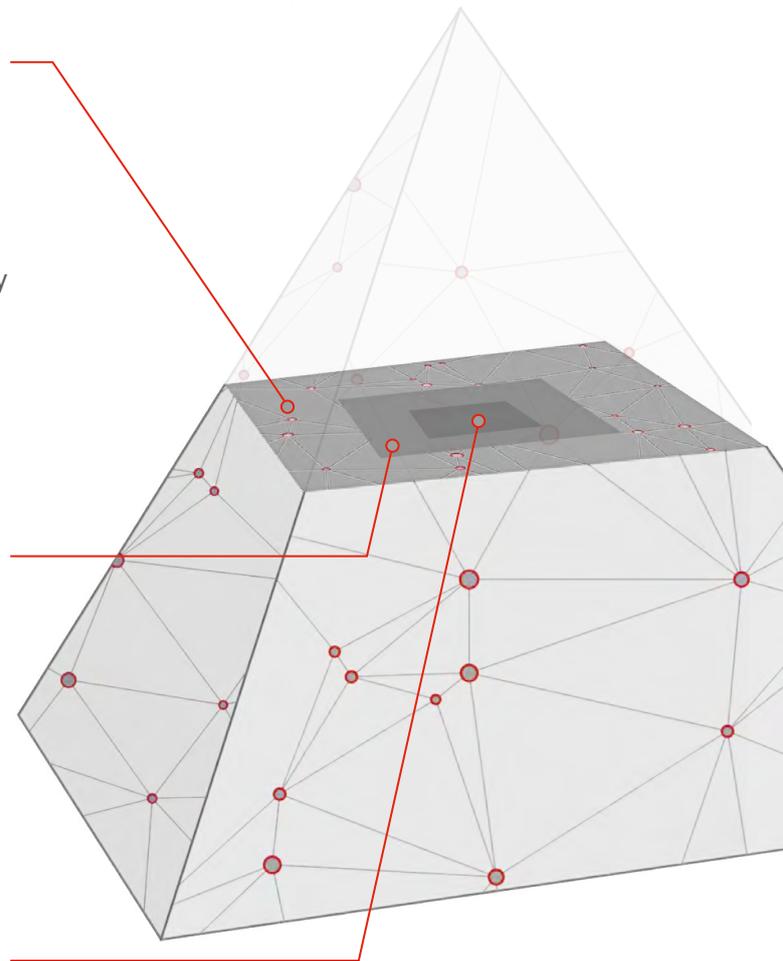
CUSTOM ADAPTATIONS TO THE STANDARD TOOL RANGE

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.



1 HSS drilling

2 Solid carbide drilling

3 Indexable insert drilling

4 Reaming and Countersinking

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Catalogue – Clamping technology

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



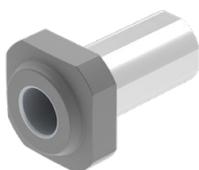
With our new PCC (Precision Collet Chuck), we offer an ER precision collet chuck that is almost equal to our Centro-P in terms of precision and quality. Compatibility with our existing range of collets and use of the same roll key complements the new PCC standard line.

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

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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



specially matched adapter for ThermoGrip® shrinking process



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

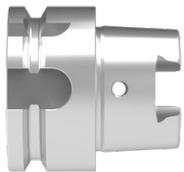


MAS-BT / MAS-BT-FC with face contact

- ▲ 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		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank	
	SK	SK-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC				
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		ISO 7388-2		ISO 12164		ISO 26623-1	ABS	Morse taper	Cylindrical shank
	SK	SK-FC	MAS-BT	MAS-BT-FC	HSK-A	HSK-E	PSC			
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
▲ 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

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

Toolholders for negative turning inserts

	Type	Illustration
	Machining	
	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**

	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**

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

 All tool holders for negative rotary indexable inserts SN.., VN.. and WN.. 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**

Toolholders for positive turning inserts

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

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

	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**

	PRDC 0° External	
	PRSC Internal + External	

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

	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**



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**

Boring bars for negative inserts

Type	Illustration
DCLN 95°	
DDUN 93°	
DWLN 95°	

All boring bars for negative indexable inserts can be found in → **Section 9, Turning Tools**

Boring bars for positive inserts

Type	Illustration
SCLC 95°	
SDUC 93°	
SVUC 93°	
SVQC 107,5°	

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

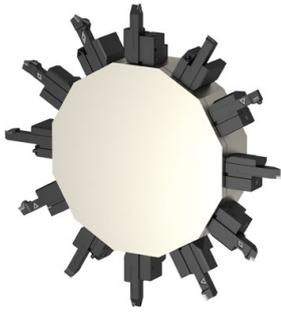
Parting blade holders

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

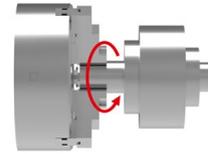
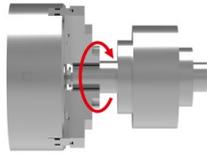
Accessories

Protection plug			208
Hollow nose keys			208

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

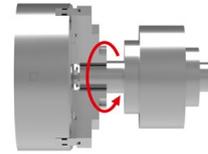
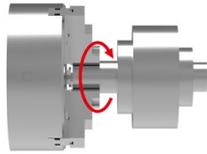
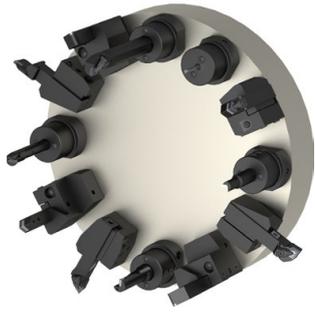
Lower turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters	B2/B3/B6/B7/C3/C4/D1/D2 209-212	B2/B3/B6/B7/C1/C2/D1/D2 209-212
 Part Off Holder	double – overhead 217+218	double 217+218
 Adapter VDI to VDI	Right-hand 224	Right-hand 224
 Boring bar holder	Right-hand 223+224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



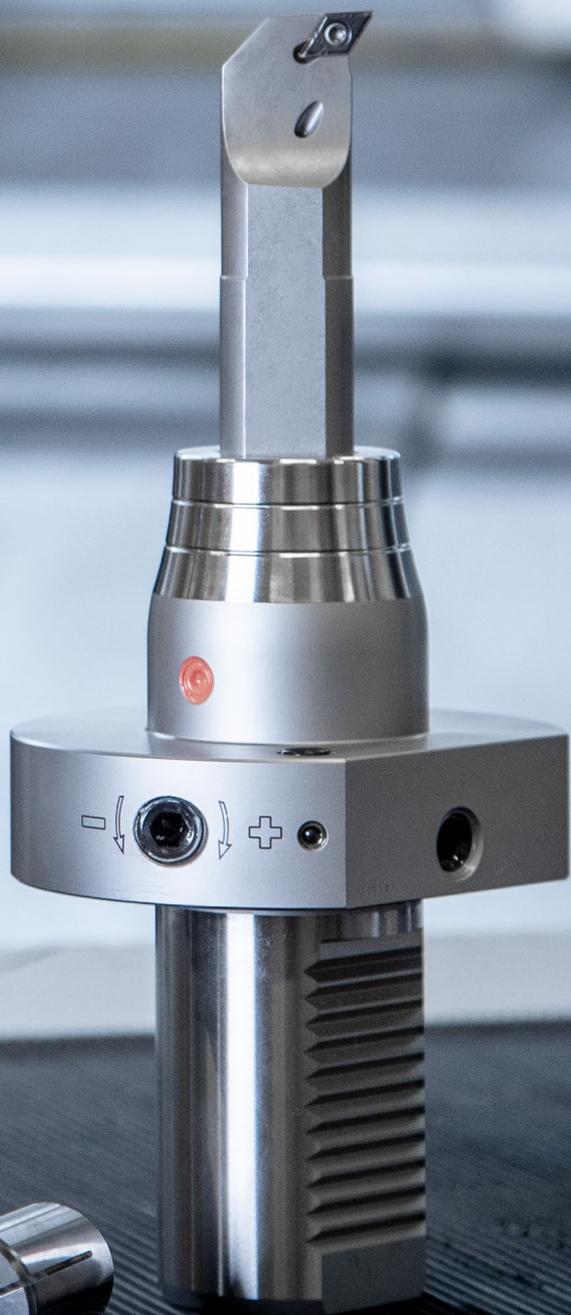
Upper turret	Spindle rotation clockwise	Spindle rotation counter clockwise
 Square Shank Adapters	B1/B5/C1/C2/D1 209-212	B3/B7/C3/C4/D2 209-212
 Cylindrical Shank Adapters	E/E1/E2/E3/E4 212-215	E/E1/E2/E3/E4 212-215
 Taper Adapters	F1 216	F1 216
 Part Off Holder	Right-hand 217+218	Overhead right 217+218
 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

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 Test arbors	221	 Gripper accessories	228
 Tool holders	222	 Protection plug	228

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
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Sealing discs		269+270
Roll key		275
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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

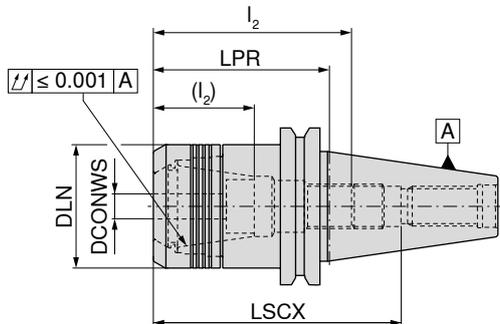


ER Precision Collet chuck – Centro-P

- ▲ 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	I_2 (I_2) mm	for collet	AD		AD/B	
							£		£	
SK 30	2 - 16	70	40	66	35 - 49 (18 - 31)	430E (ER25)	233.58	016		
SK 40	1 - 10	70	30	110	28 - 45 (16 - 31)	426E (ER16)	192.97	102		
SK 40	1 - 10	100	30	140	28 - 45 (16 - 31)	426E (ER16)	237.65	103		
SK 40	1 - 10	130	30	140	28 - 50 (14 - 34)	426E (ER16)			240.30	510
SK 40	1 - 10	160	30	200	28 - 45 (16 - 31)	426E (ER16)			265.21	910
SK 40	2 - 16	45	40	85	35 - 60 (20 - 42)	430E (ER25)			218.23	816
SK 40	2 - 16	70	40	110	35 - 60 (20 - 42)	430E (ER25)	178.32	162		
SK 40	2 - 16	100	40	113	35 - 60 (20 - 42)	430E (ER25)	237.65	163		
SK 40	2 - 16	130	40	140	38 - 67 (21 - 49)	430E (ER25)			261.16	516
SK 40	2 - 16	160	40	118	35 - 60 (20 - 42)	430E (ER25)			275.13	916
SK 40	2 - 20	50	50	85	52 - 70 (26 - 52)	470E (ER32)	234.60	201		
SK 40	2 - 20	70	50	111	55 - 75 (42 - 62)	470E (ER32)	166.43	202		
SK 40	2 - 20	100	50	114	52 - 70 (32 - 52)	470E (ER32)	237.65	203		
SK 40	2 - 20	130	50	114	50 - 74 (36 - 55)	470E (ER32)			261.16	620
SK 40	2 - 20	160	50	119	52 - 70 (32 - 52)	470E (ER32)			275.13	920
SK 40	3 - 26	70	63	105	48 - 55	472E (ER40)	267.24	261 ¹⁾		
SK 50	2 - 16	100	40	150	35 - 64 (20 - 48)	430E (ER25)	445.39	167		
SK 50	2 - 20	70	50	120	59 - 85 (40 - 70)	470E (ER32)			396.20	320
SK 50	2 - 20	100	50	150	53 - 81 (35 - 63)	470E (ER32)			447.00	520
SK 50	2 - 20	130	50	150	53 - 81 (35 - 63)	470E (ER32)			392.71	52100
SK 50	2 - 20	160	50	200	53 - 83 (35 - 65)	470E (ER32)			728.10	720
SK 50	3 - 26	70	63	120	48 - 60	472E (ER40)			400.86	26600
SK 50	3 - 26	100	63	90	48 - 70	472E (ER40)			332.29	26700
SK 50	3 - 26	130	63	90	47 - 57	472E (ER40)			408.61	26800
SK 50	3 - 26	160	63	90	47 - 57	472E (ER40)			469.05	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
 I_2 = With back stop screw 1, Dimension in brackets (I_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

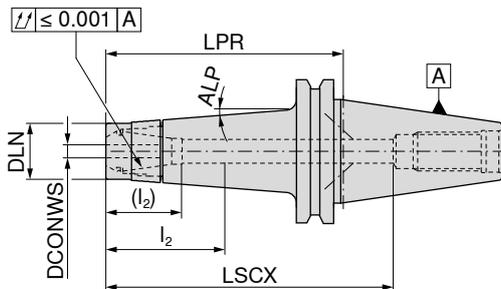
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	76.42	011	56.75	001	47.40	341	31.75	337
430E (ER25)	85.18	013	63.06	003	33.34	432	23.78	431
470E (ER32)	91.08	015	69.36	005	28.16	402	20.51	401
472E (ER40)	124.56	017	100.91	007			28.75	400

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

84 417 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	£	
SK 40	1 - 10	100	24	140	28 - 48 (20 - 35)	426E (ER16)	4.5°	260.05	410
SK 40	1 - 10	130	24	105	28 - 48 (20 - 35)	426E (ER16)		228.96	61000
SK 40	1 - 10	160	24	200	28 - 48 (20 - 35)	426E (ER16)	2.5°	312.01	910

→ Transmittable torque moments, Page 300

- 1** 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		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	93.82	033	79.26	031	47.40	341	31.75	337

Accessories

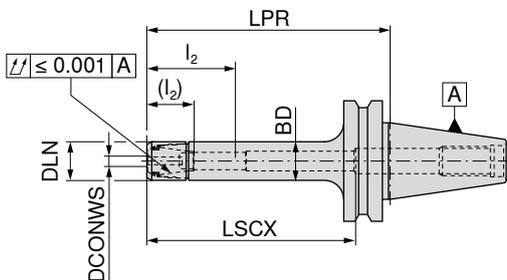
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256-263, 266	→ 269	→ 275	→ 275	→ 57-58	→ 273

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

84 412 ...

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	l_2 (l_2) mm	for collet	£ Y8	
SK 40	1 - 7	70	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	243.45	207
SK 40	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	251.25	407
SK 40	1 - 7	130	16	16	110	15 - 32 (7 - 22)	4008E (ER11)	324.51	607
SK 40	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	338.87	907
SK 40	1 - 10	70	22	22	90	28 - 50 (14 - 36)	426E (ER16)	243.45	210
SK 40	1 - 10	100	22	22	110	28 - 50 (14 - 36)	426E (ER16)	243.45	310
SK 40	1 - 10	130	22	22	140	28 - 50 (14 - 36)	426E (ER16)	324.51	410
SK 40	1 - 10	160	22	22	170	28 - 50 (14 - 36)	426E (ER16)	324.51	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	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£ Y8		£ Y8		£ Y8		£ Y8	
4008E (ER11)			79.26	041	45.18	340	30.09	336
426E (ER16)	77.19	035	63.32	034	47.40	341	31.75	337

Accessories

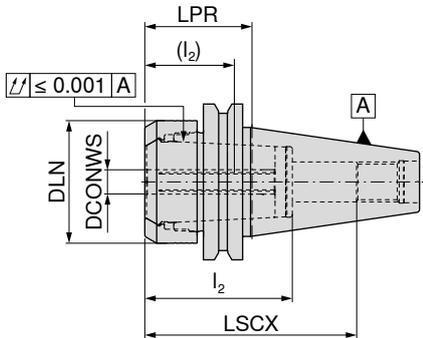
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 57-58	→ 273

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

84 406 ...

£
Y8
194.85 025

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet
SK 40	2- 25	43	50	80	53- 65 (37- 48)	462E

→ Transmittable torque moments, Page 300

i 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		Lock nut		Stop screw 2		Stop screw 1	
	£	Y8	£	Y8	£	Y8	£	Y8
462E	75.33	020	71.45	009	28.16	402	20.51	401

Accessories

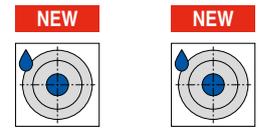
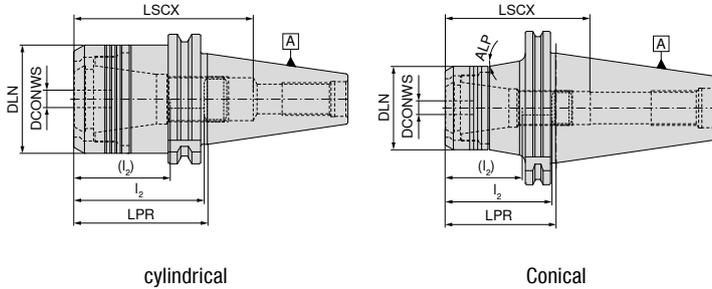
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 57-58	→ 273

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



AD AD
G 6,3 n_{max} 18000 G 6,3 n_{max} 18000
cylindrical conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	I_2 (I_2) mm	ALP °	for collet	£	Y8
SK 40	2-20	65	53	85	41 - 65 (27 - 47)		470E (ER32)	325.19	12079
SK 50	2-20	70	53	91	41 - 71 (27 - 53)	10	470E (ER32)		522.69 12078
SK 50	2-20	100	53	121	41 - 74 (27 - 56)	10	470E (ER32)		610.47 22078



LSCX = Clamping depth without backstop screw
 I_2 = Clamping depth backstop screw 1, dimension in brackets (I_2) = Clamping depth backstop screw 2

Spare parts

DCONWS	Lock nut	Stop screw 2	Stop screw 1
2-20	£ 105.74 30100	£ 28.16 402	£ 20.51 401

Accessories

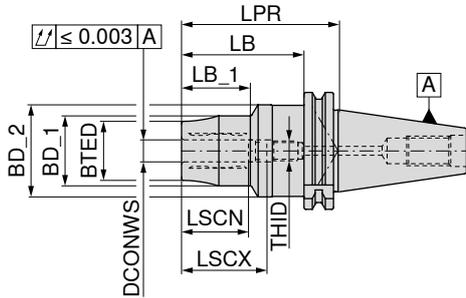
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 275	→ 275	→ 57-58	→ 273

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

83 422 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCN mm	LSCN mm	LB mm	THID			
short	SK 40	16	90	36	42	50	42	49	39	71	M12x1		£ Y8	
	SK 40	20	95	42	48	50	45	51	41	76	M16x1		943.79 116	
	SK 40	25	110	51	57	50	60	57	47	91	M16x1		838.64 120	
	SK 40	32	120	57	63	50	65	61	51	101	M16x1		943.79 125	
														943.79 132

→ Min. clamping depth, Page 300



Clamping key - T



Pressure screw



Stop screw IK

Spare parts

DCONWS			£ Y7		£ Y7		£ Y7	
16	SW5	6.39	050	TR10x1,5x14	33.77	430	M12x1x18	17.55 446
20	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x18,5	19.23 448
25	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x22	30.40 449
32	SW5	6.39	050	TR10x1,5x14	33.77	430	M16x1x25	37.83 450

Accessories

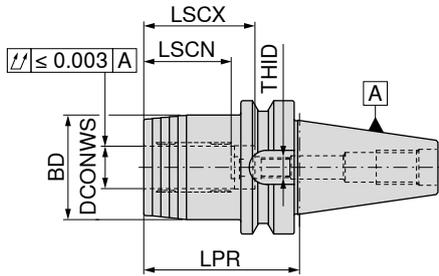
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

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

83 427 ...

£

Y8

355.46 120

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	64.5	49	51	40	M16x1x13,5

→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key - T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 427 120	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x14	9.08	429	M16x1x13,5 - SW8	22.87	424
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83 950 ...

80 397 ...

83 950 ...

83 950 ...

£

Y7

£

Y7

£

Y7

£

Y7

Accessories

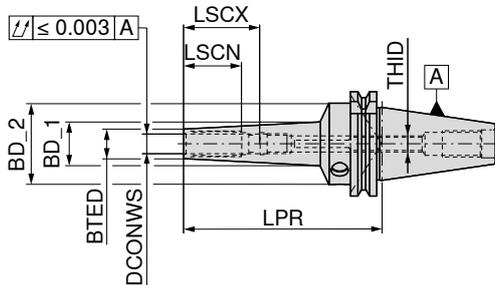
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

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

83 421 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£	
										Y8	
long	SK 40	3	120	9	17.40	49.5	28	12	M3	678.32	103
	SK 40	4	120	10	18.40	49.5	28	16	M3	678.32	104
	SK 40	5	120	11	19.40	49.5	28	20	M3	678.32	105
	SK 40	6	120	12	20.40	49.5	37	27	M5	578.60	106
	SK 40	8	120	14	22.40	49.5	37	27	M6	578.60	108
	SK 40	10	120	16	24.50	49.5	41	31	M8x1	578.60	110
	SK 40	12	120	18	26.60	49.5	46	36	M10x1	578.60	112
	SK 40	16	120	24	32.30	49.5	49	39	M12x1	837.46	116
	SK 40	20	120	28	36.40	49.5	51	41	M16x1	837.46	120
	SK 40	6	160	16	34.37	49.5	37	27	M5	833.01	206
	SK 40	8	160	18	35.45	49.5	37	27	M6	833.01	208
	SK 40	10	160	20	37.10	49.5	41	31	M8x1	833.01	210
	SK 40	12	160	22	38.72	49.5	46	36	M10x1	833.01	212
	SK 40	6	200	16	38.72	49.5	37	27	M5	986.00	306
	SK 40	8	200	18	39.74	49.5	37	27	M6	986.00	308
	SK 40	10	200	20	41.40	49.5	41	31	M8x1	986.00	310
SK 40	12	200	22	43.02	49.5	46	36	M10x1	986.00	312	

→ Min. clamping depth, Page 300



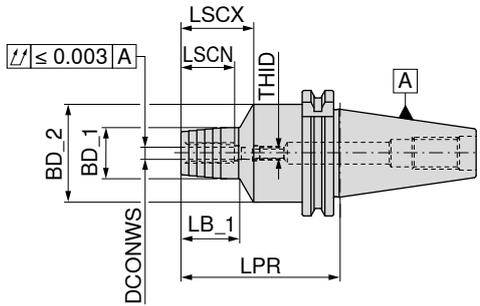
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...					
	£	Y7	£	Y7	£	Y7	£	Y7				
83 421 103	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172
83 421 104	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172
83 421 105	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172
83 421 106	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418
83 421 108	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419
83 421 110	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 421 112	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	421
83 421 116	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M12x1x13,5 - SW5	19.83	422
83 421 120	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M16x1x13,5 - SW8	22.87	424
83 421 206	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418
83 421 208	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419
83 421 210	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 421 212	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 421 306	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418
83 421 308	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419
83 421 310	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420
83 421 312	M5x5 - SW2,5	3.03	157	SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	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

83 402 ...

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	£	
										Y8	
short and slim	SK 40	6	80.5	26	49.5	37	27	29.5	M5	690.96	106
	SK 40	8	80.5	28	49.5	37	27	30.0	M6	690.96	108
	SK 40	10	80.5	30	49.5	41	31	35.0	M8x1	690.96	110
	SK 40	12	80.5	32	49.5	46	36	40.0	M10x1	604.01	112
	SK 40	16	80.5	38	49.5	49	39	45.0	M12x1	690.96	116
	SK 40	20	80.5	42	49.5	51	41	47.0	M16x1	604.01	120
	SK 40	25	80.5	55	63.0	57	47	28.0	M16x1	690.96	125
	SK 40	32	80.5	63	70.0	61	51	25.5	M16x1	690.96	132
	SK 50	6	80.5	26	49.5	37	27	29.5	M5	967.02	306
	SK 50	8	80.5	28	49.5	37	27	30.0	M6	967.02	308
	SK 50	10	80.5	30	49.5	41	31	35.0	M8x1	967.02	310
	SK 50	12	80.5	32	49.5	46	36	40.0	M10x1	878.56	312
	SK 50	16	80.5	38	49.5	49	39	45.0	M12x1	967.02	316
	SK 50	20	80.5	42	49.5	51	41	42.0	M16x1	878.56	320
	SK 50	25	100.0	55	63.0	57	47	48.0	M16x1	967.02	325
	SK 50	32	100.0	63	70.0	61	51	51.0	M16x1	967.02	332

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK



Stop screw IK

Spare parts

DCONWS		£		£		£			
6	M8x1x10	13.73	439						
8	M8x1x10	13.73	439	M6x14 - SW2	19.83	417	M5x12,5 - SW2,5	19.83	418
10	M10x1x12	13.73	440				M6x12,5 - SW3	19.83	419
12	M10x1x12	13.73	440				M8x1x13,5 - SW3	19.83	420
16	M10x1x12	13.73	440				M10x1x13,5 - SW5	19.83	421
20 - 32	M10x1x12	13.73	440				M12x1x13,5 - SW5	19.83	422
							M16x1x13,5 - SW8	22.87	424

Accessories

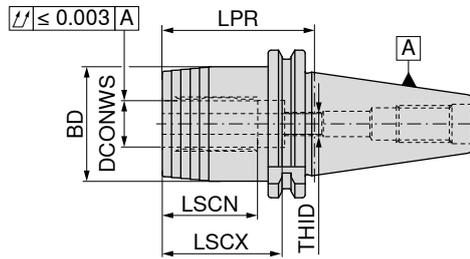
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

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 ...

£
Y8

469.78 120

559.79 332

→ Min. clamping depth, Page 300

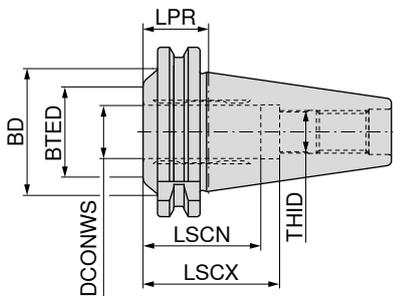
Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	64.5	49.5	51	41	M16x1
SK 50	32	81.0	72.0	61	51	M16x1

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 ...

£
Y8

549.50 120

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
SK 40	20	24.5	34	48	51	41	M16x1

Spare parts

DCONWS
20 - 32



Pressure screw



Stop screw IK

83 950 ...

£
Y7

13.73 440

83 950 ...

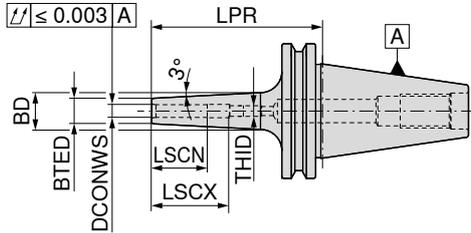
£
Y7

22.87 424

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		£	
short	SK 40	3	80	9	14	28	12	M6		529.70	103
	SK 40	4	80	10	15	28	16	M6		514.57	104
	SK 40	5	80	11	16	30	20	M6		514.57	105
	SK 40	6	80	12	17	36	26	M5		450.24	106
	SK 40	8	80	14	19	36	26	M6		450.24	108
	SK 40	10	80	16	21	41	31	M8x1		450.24	110
	SK 40	12	80	18	23	47	37	M10x1		450.24	112
	SK 40	14	80	20	26	47	37	M10x1		450.24	114
	SK 40	16	80	22	28	50	40	M12x1		450.24	116
	SK 40	18	80	24	30	50	40	M12x1		450.24	118
SK 40	20	80	26	32	52	42	M16x1		450.24	120	
long	SK 40	3	120	9	16	12	12			594.03	203
	SK 40	4	120	10	17	16	16			578.89	204
	SK 40	5	120	11	18	20	20			578.89	205
	SK 40	6	120	12	22	36	26	M5		518.35	206
	SK 40	8	120	14	24	36	26	M6		518.35	208
	SK 40	10	120	16	26	41	31	M8x1		518.35	210
	SK 40	12	120	18	28	47	37	M10x1		518.35	212
	SK 40	14	120	20	30	47	37	M10x1		518.35	214
	SK 40	16	120	22	32	50	40	M12x1		518.35	216
	SK 40	18	120	24	34	50	40	M12x1		518.35	218
SK 40	20	120	26	36	52	42	M16x1		518.35	220	
extra-long	SK 40	3	160	9	19	12	12			673.48	303
	SK 40	4	160	10	20	16	16			658.34	304
	SK 40	5	160	11	21	20	20			658.34	305
	SK 40	6	160	12	24	36	26	M5		597.82	306
	SK 40	8	160	14	26	36	26	M6		597.82	308
	SK 40	10	160	16	28	41	31	M8x1		597.82	310
	SK 40	12	160	18	30	47	37	M10x1		597.82	312
	SK 40	14	160	20	32	47	37	M10x1		597.82	314
	SK 40	16	160	22	34	50	40	M12x1		597.82	316
	SK 40	18	160	24	36	50	40	M12x1		597.82	318
SK 40	20	160	26	38	52	42	M16x1		597.82	320	

→ Min. clamping depth, Page 300



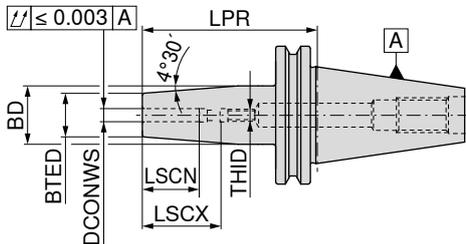
Spare parts
DCONWS

	£		£
3 - 5	Y7	M6x14 - SW2	19.83
6			417
8		M5x12,5 - SW2,5	19.83
10		M6x12,5 - SW3	19.83
12 - 14		M8x1x13,5 - SW3	19.83
16 - 18		M10x1x13,5 - SW5	19.83
20		M12x1x13,5 - SW5	19.83
		M16x1x13,5 - SW8	22.87

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

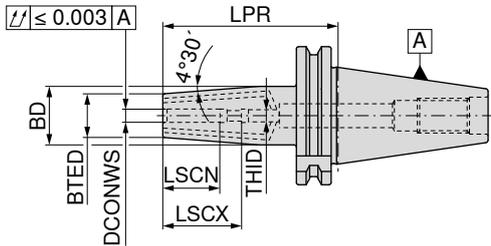
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 300 ...		
									£ Y8	£ Y8	
short	SK 30	3	80	10	17	22	12	M6	279.97	003	
	SK 30	4	80	15	22	26	16	M6	272.10	004	
	SK 30	5	80	15	22	30	20	M6	272.10	005	
	SK 30	6	80	21	27	36	26	M5	239.34	006	
	SK 30	8	80	21	27	36	26	M6	239.34	008	
	SK 30	10	80	24	32	41	31	M8x1	239.34	010	
	SK 30	12	80	24	32	47	37	M10x1	239.34	012	
	SK 30	14	80	27	34	47	37	M10x1	239.34	014	
	SK 30	16	80	27	34	50	40	M12x1	239.34	016	
	SK 30	18	80	33	42	50	40	M12x1	239.34	018	
	SK 30	20	80	33	42	52	42	M16x1	239.34	020	
short	SK 40	3	80	10	17	22	12	M6		202.91	103
	SK 40	4	80	15	22	26	16	M6		202.91	104
	SK 40	5	80	15	22	30	20	M6		202.91	105
	SK 40	6	80	21	27	36	26	M5		194.54	106
	SK 40	8	80	21	27	26	26	M6		194.54	108
	SK 40	10	80	24	32	41	31	M8x1		194.54	110
	SK 40	12	80	24	32	47	37	M10x1		194.54	112
	SK 40	14	80	27	34	47	37	M10x1		194.54	114
	SK 40	16	80	27	34	50	40	M12x1		194.54	116
	SK 40	18	80	33	42	50	40	M12x1		194.54	118
	SK 40	20	80	33	42	52	42	M16x1		194.54	120
	SK 40	25	100	44	53	58	48	M16x1		194.54	125
long	SK 40	3	120	10	20	12	12			250.33	203
	SK 40	4	120	15	22	16	16			251.54	204
	SK 40	5	120	15	22	20	20			251.54	205
	SK 40	6	120	21	27	36	26	M5		251.21	206
	SK 40	8	120	21	27	36	26	M6		251.21	208
	SK 40	10	120	24	32	41	31	M8x1		251.21	210
	SK 40	12	120	24	32	47	37	M10x1		251.21	212
	SK 40	14	120	27	34	47	37	M10x1		251.21	214
	SK 40	16	120	27	34	50	40	M12x1		251.21	216
	SK 40	18	120	33	42	50	40	M12x1		251.21	218
	SK 40	20	120	33	42	52	42	M16x1		251.21	220
	SK 40	25	120	44	53	58	48	M16x1		469.16	225
extra-long	SK 40	3	160	10	20	12	12			340.97	303
	SK 40	4	160	15	22	16	16			333.12	304
	SK 40	5	160	15	22	20	20			333.12	305
	SK 40	6	160	21	27	36	26	M5		300.36	306
	SK 40	8	160	21	27	36	26	M6		300.36	308
	SK 40	10	160	24	32	41	31	M8x1		300.36	310
	SK 40	12	160	24	32	47	37	M10x1		300.36	312
	SK 40	14	160	27	34	47	37	M10x1		300.36	314
	SK 40	16	160	27	34	50	40	M12x1		300.36	316
	SK 40	18	160	33	42	50	40	M12x1		300.36	318
	SK 40	20	160	33	42	52	42	M16x1		300.36	320
	SK 40	25	160	44	53	58	48	M16x1		300.36	325

→ Min. clamping depth, Page 300

Shrink fit adaptors 4.5°

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

TG

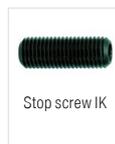


AD/B - 2KMB
G 2,5 n_{max} 25000

84 317 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£	
									Y8	
short	SK 40	3	80	10	17	28	12	M6	538.16	103
	SK 40	4	80	15	22	28	16	M6	520.79	104
	SK 40	5	80	15	22	30	20	M6	520.79	105
	SK 40	6	80	21	27	36	26	M5	458.13	106
	SK 40	8	80	21	27	36	26	M6	458.13	108
	SK 40	10	80	24	32	41	31	M8x1	458.13	110
	SK 40	12	80	24	32	47	37	M10x1	458.13	112
	SK 40	14	80	27	34	47	37	M10x1	458.13	114
	SK 40	16	80	27	34	50	40	M12x1	458.13	116
	SK 40	18	80	33	42	50	40	M12x1	458.13	118
	SK 40	20	80	33	42	52	42	M16x1	458.13	120
	SK 40	25	100	44	53	58	48	M16x1	458.13	125
	SK 40	32	100	44	53	62	52	M16x1	458.13	132

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK



Sealing screw

Spare parts	DCONWS		83 950 ...		83 950 ...		83 950 ...	
			£		£		£	
			Y7		Y7		Y7	
3 - 5		M6x14 - SW2	19.83	417			M2x6	1.60 512
6					M5x12,5 - SW2,5	19.83 418	M2x6	1.60 512
8					M6x12,5 - SW3	19.83 419	M2x6	1.60 512
10					M8x1x13,5 - SW3	19.83 420	M2x6	1.60 512
12 - 14					M10x1x13,5 - SW5	19.83 421	M2x6	1.60 512
16 - 18					M12x1x13,5 - SW5	19.83 422	M2x6	1.60 512
20 - 25					M16x1x13,5 - SW8	22.87 424	M2x6	1.60 512
32		M16x1 - SW5	15.91	511			M2x6	1.60 512

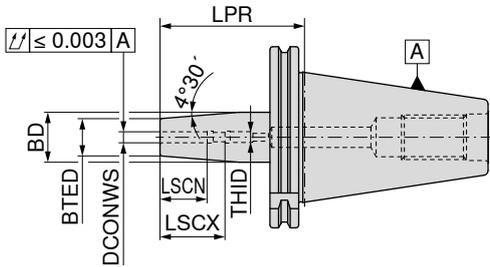
Accessories

Shrink fit extension	Pull studs	Others
→ 235	→ 57-58	→ 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		£ Y8	
short	SK 50	6	80	21	27	36	26	M5		334.69	106
	SK 50	8	80	21	27	36	26	M6		334.69	108
	SK 50	10	80	24	32	41	31	M8x1		334.69	110
	SK 50	12	80	24	32	47	37	M10x1		334.69	112
	SK 50	14	80	27	34	47	37	M10x1		334.69	114
	SK 50	16	80	27	34	50	40	M12x1		334.69	116
	SK 50	18	80	33	42	50	40	M12x1		334.69	118
	SK 50	20	80	33	42	52	42	M16x1		334.69	120
	SK 50	25	100	44	53	58	48	M16x1		334.69	125
	SK 50	32	100	44	53	62	52	M16x1		334.69	132
long	SK 50	6	120	21	27	36	26	M5		369.21	206
	SK 50	8	120	21	27	36	26	M6		369.21	208
	SK 50	10	120	24	32	41	31	M8x1		369.21	210
	SK 50	12	120	24	32	47	37	M10x1		369.21	212
	SK 50	14	120	27	34	47	37	M10x1		369.21	214
	SK 50	16	120	27	34	50	40	M12x1		369.21	216
	SK 50	18	120	33	42	50	40	M12x1		369.21	218
	SK 50	20	120	33	42	52	42	M16x1		369.21	220
	SK 50	25	120	44	53	58	48	M16x1		369.21	225
	SK 50	32	120	44	53	62	52	M16x1		369.21	232
extra-long	SK 50	6	160	21	27	36	26	M5		411.39	306
	SK 50	8	160	21	27	36	26	M6		411.39	308
	SK 50	10	160	24	32	41	31	M8x1		411.39	310
	SK 50	12	160	24	32	47	37	M10x1		411.39	312
	SK 50	14	160	27	34	47	37	M10x1		411.39	314
	SK 50	16	160	27	34	50	40	M12x1		411.39	316
	SK 50	18	160	33	42	50	40	M12x1		411.39	318
	SK 50	20	160	33	42	52	42	M16x1		411.39	320
	SK 50	25	160	44	53	58	48	M16x1		411.39	325
	SK 50	32	160	44	53	62	52	M16x1		411.39	332

→ Min. clamping depth, Page 300



Spare parts

DCONWS		£ Y7	
6	M5x12,5 - SW2,5	19.83	418
8	M6x12,5 - SW3	19.83	419
10	M8x1x13,5 - SW3	19.83	420
12 - 14	M10x1x13,5 - SW5	19.83	421
16 - 18	M12x1x13,5 - SW5	19.83	422
20 - 32	M16x1x13,5 - SW8	22.87	424

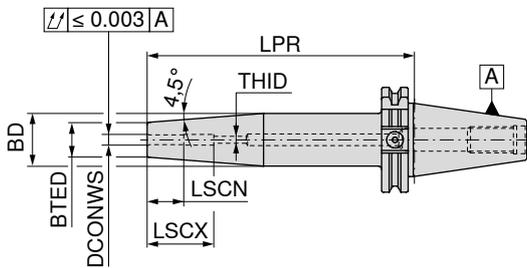
Shrink fit adapters 4.5°

- ▲ 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			
									£		
short	SK 40	3	70	12	17.0				187.49	10379	
	SK 40	4	70	12	17.0				187.49	10479	
	SK 40	5	70	12	17.0				187.49	10579	
	SK 40	6	80	21	30.5	36	26	M5	179.15	10679	
	SK 40	8	80	21	30.5	36	26	M6	179.15	10879	
	SK 40	10	80	24	33.5	41	31	M8x1	179.15	11079	
	SK 40	12	80	24	33.5	47	37	M10x1	179.15	11279	
	SK 40	14	80	27	36.5	47	37	M10x1	179.15	11479	
	SK 40	16	80	27	36.5	50	40	M12x1	179.15	11679	
	SK 40	18	80	33	42.5	50	40	M12x1	179.15	11879	
	SK 40	20	80	33	42.5	52	42	M16x1	179.15	12079	
	SK 40	25	100	44	50.0	58	48	M16x1	179.15	12579	
	long	SK 50	6	80	21	27.0	36	26	M5	221.45	10678
		SK 50	8	80	21	27.0	36	26	M6	221.45	10878
SK 50		10	80	24	32.0	41	31	M8x1	221.45	11078	
SK 50		12	80	24	32.0	47	37	M10x1	221.45	11278	
SK 50		14	80	27	34.0	47	37	M10x1	221.45	11478	
SK 50		16	80	27	34.0	50	40	M12x1	221.45	11678	
SK 50		18	80	33	42.0	50	40	M12x1	221.45	11878	
SK 50		20	80	33	42.0	52	42	M12x1	221.45	12078	
SK 50		25	100	44	53.0	58	48	M16x1	221.45	12578	
SK 50		32	100	44	53.0	62	52	M16x1	221.45	13278	
long		SK 40	3	120	12	17.0				226.04	20379
		SK 40	4	120	12	17.0				226.04	20479
		SK 40	5	120	12	17.0				226.04	20579
		SK 40	6	120	21	31.0	36	26	M5	226.04	20679
	SK 40	8	120	21	32.0	36	26	M6	226.04	20879	
	SK 40	10	120	24	34.0	41	31	M8x1	226.04	21079	
	SK 40	12	120	24	34.0	47	37	M10x1	226.04	21279	
	SK 40	16	120	27	36.0	50	40	M12x1	226.04	21679	
	SK 40	20	120	33	44.0	52	42	M16x1	226.04	22079	
	long	SK 50	6	120	21	27.0	36	26	M5	243.18	20678
		SK 50	8	120	21	27.0	36	26	M6	243.18	20878
		SK 50	10	120	24	32.0	41	31	M8x1	243.18	21078
		SK 50	12	120	24	32.0	47	37	M10x1	243.18	21278
		SK 50	14	120	27	34.0	47	37	M10x1	243.18	21478
SK 50		16	120	27	34.0	50	40	M12x1	243.18	21678	
SK 50		18	120	33	42.0	50	40	M12x1	243.18	21878	
SK 50		20	120	33	42.0	52	42	M16x1	243.18	22078	
SK 50		25	120	44	53.0	58	48	M16x1	243.18	22578	
SK 50		32	120	44	53.0	62	52	M16x1	243.18	23278	

→ Min. clamping depth, Page 300

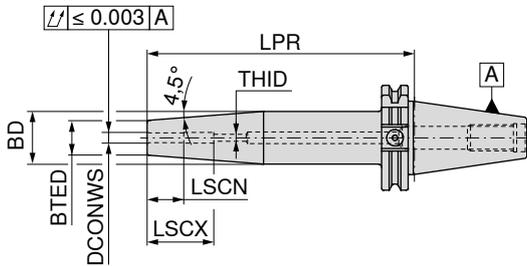
Shrink fit adapters 4.5°

- ▲ 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		
									£	Y8
extra-long	SK 40	6	160	21	31.0	36	26	M5	269.51	30679
	SK 40	8	160	21	32.0	36	26	M6	269.51	30879
	SK 40	10	160	24	34.0	41	31	M8x1	269.51	31079
	SK 40	12	160	24	34.0	47	37	M10x1	269.51	31279
	SK 40	14	160	27	36.0	47	37	M10x1	269.51	31479
	SK 40	16	160	27	36.0	50	40	M12x1	269.51	31679
	SK 40	18	160	33	44.0	50	40	M12x1	269.51	31879
	SK 40	20	160	33	44.0	52	42	M16x1	269.51	32079
	SK 40	25	160	44	50.0	58	48	M16x1	269.51	32579
	SK 50	6	160	21	27.0	36	26	M5	270.11	30678
	SK 50	8	160	21	27.0	36	26	M6	270.11	30878
	SK 50	10	160	24	32.0	41	31	M8x1	270.11	31078
	SK 50	12	160	24	32.0	47	37	M10x1	270.11	31278
	SK 50	14	160	27	34.0	47	37	M10x1	270.11	31478
	SK 50	16	160	27	34.0	50	40	M12x1	270.11	31678
	SK 50	18	160	33	42.0	50	40	M12x1	270.11	31878
	SK 50	20	160	33	42.0	52	42	M16x1	270.11	32078
	SK 50	25	160	44	53.0	58	48	M16x1	270.11	32578
	SK 50	32	160	44	53.0	62	52	M16x1	270.11	33278

→ Min. clamping depth, Page 300



Stop screw IK

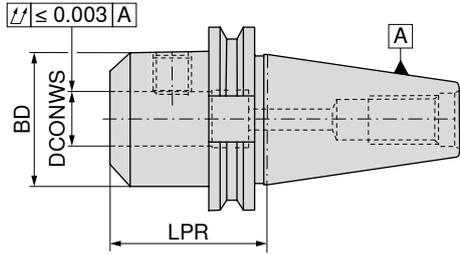
82 950 ...

Spare parts
DCONWS

		£	Y8
6	M5x16 - SW2,5	3.99	30000
8	M6x16 - SW3	4.25	30100
10	M8x1x16 - SW4	4.52	30200
12	M10x1x14 - SW5	4.78	30300
14	M10x1x14 - SW5	4.78	30300
16	M12x1x16 - SW6	5.05	30400
18	M12x1x16 - SW6	5.05	30400
20	M16x1x16 - SW8	5.31	30500
25	M16x1x16 - SW8	5.31	30500
32	M16x1x16 - SW8	5.31	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 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm
short	SK 30	6	50	25
	SK 30	8	50	28
	SK 30	10	50	35
	SK 30	12	50	42
	SK 30	14	63	44
	SK 30	16	63	48
	SK 30	18	63	50
	SK 30	20	70	52
extra short	SK 40	16	35	48
	SK 40	20	35	50
	SK 40	25	40	50
	SK 40	32	75	72

82 401 ...		82 403 ...	
£		£	
Y8		Y8	
85.70	00600		
83.55	00800		
83.55	01000		
83.55	01200		
83.55	01400		
83.55	01600		
83.55	01800		
83.55	02000		
129.64	416	184.74	416
129.64	420	184.74	420
142.01	425	196.75	425
128.73	43200	184.25	432

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



Grubscrew

Spare parts for Article no.

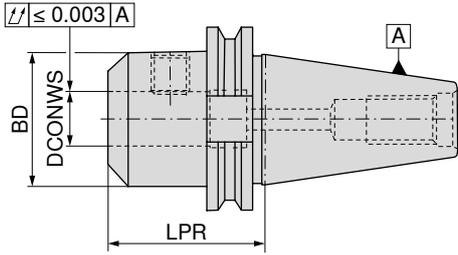
82 403 425 / 82 401 425	M16x10	£ 1.71	275
82 403 432	M14x10	£ 1.69	259

Accessories

Pull studs	Others
→ 57-58	→ 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

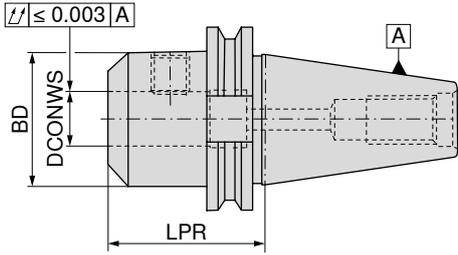


AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	AD/B		AD/Be	
					£	Y8	£	Y8
short	SK 40	6	50	25	88.28	106	126.13	106
	SK 40	8	50	28	88.28	108	126.13	108
	SK 40	10	50	35	88.28	110	126.13	110
	SK 40	12	50	42	88.28	112	126.13	112
	SK 40	14	50	44	88.28	114	126.13	114
	SK 40	16	63	48	88.28	116	126.13	116
	SK 40	18	63	50	88.28	118	126.13	118
	SK 40	20	63	52	88.28	120	126.13	120
	SK 40	25	100	65	88.28	125	126.13	125
	SK 40	32	100	72	100.91	132	126.13	13200
	SK 40	40	120	90	88.28	14000		
	SK 50	6	63	25	119.05	306	190.33	30600
	SK 50	8	63	28	119.05	308	190.33	30800
	SK 50	10	63	35	114.59	310	175.29	31000
	SK 50	12	63	42	114.59	312	175.29	31200
	SK 50	14	63	44	114.59	314	175.29	31400
	SK 50	16	63	48	114.59	316	191.92	31600
	SK 50	18	63	50	114.59	318	191.92	31800
SK 50	20	63	52	114.59	320	191.92	32000	
SK 50	25	80	65	126.12	325	205.65	32500	
SK 50	32	100	72	127.41	332	216.52	33200	
SK 50	40	120	90	133.06	34000			
long	SK 40	6	100	25	94.58	506	201.23	50600
	SK 40	8	100	28	94.58	508	201.23	50800
	SK 40	10	100	35	94.58	510	192.72	51000
	SK 40	12	100	42	94.58	512	192.72	51200
	SK 40	14	100	44	94.58	514	192.72	51400
	SK 40	16	100	48	129.64	516	219.43	51600
	SK 40	18	100	50	94.58	518	219.43	51800
	SK 40	20	100	52	129.64	520	219.43	52000
	SK 40	40	120	80			278.97	54000
	SK 50	6	100	25	191.33	70600		
	SK 50	8	100	28	191.33	70800		
	SK 50	10	100	35	183.57	71000		
	SK 50	12	100	42	183.57	71200		
	SK 50	14	100	44	183.57	71400		
	SK 50	16	100	48	184.52	71600		
	SK 50	18	100	50	184.52	71800		
	SK 50	20	100	52	184.52	72000		
	SK 50	25	100	65	195.70	72500		

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



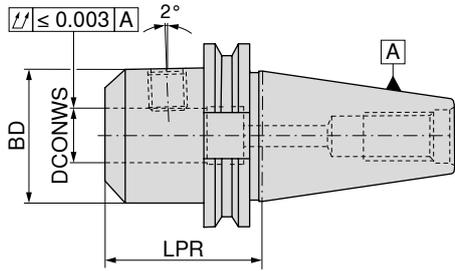
AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 401 ...		82 404 ...	
					£	Y8	£	Y8
medium length	SK 40	6	130	25	100.91	206	120.48	206
	SK 40	8	130	28	100.91	208	120.48	208
	SK 40	10	130	35	100.91	210	116.11	210
	SK 40	12	130	42	100.91	212	116.11	212
	SK 40	14	130	44	100.91	214	116.11	214
	SK 40	16	130	48	100.91	216	124.71	216
	SK 40	18	130	50	100.91	218	124.71	218
	SK 40	20	130	52	100.91	220	124.71	220
	SK 50	6	130	25	120.33	90600	150.05	90600
	SK 50	8	130	28	120.33	90800	150.05	90800
	SK 50	10	130	35	117.87	91000	147.45	91000
	SK 50	12	130	42	117.87	91200	147.45	91200
	SK 50	14	130	44	117.87	91400	147.45	91400
	SK 50	16	130	48	118.20	91600	155.88	91600
	SK 50	18	130	50	118.20	91800	155.88	91800
	SK 50	20	130	52	118.20	92000	155.88	92000
SK 50	25	130	65	121.47	92500	159.15	92500	
extra-long	SK 40	6	160	25	100.91	606		
	SK 40	8	160	28	100.91	608		
	SK 40	10	160	35	100.91	610		
	SK 40	12	160	42	100.91	612		
	SK 40	14	160	44	100.91	614		
	SK 40	16	160	48	100.91	616		
	SK 40	18	160	50	100.91	618		
	SK 40	20	160	52	100.91	620		
	SK 40	25	160	65	100.91	625		
	SK 50	6	160	25	195.70	80600		
	SK 50	8	160	28	195.70	80800		
	SK 50	10	160	35	201.10	81000		
	SK 50	12	160	42	201.10	81200		
	SK 50	14	160	44	201.10	81400		
	SK 50	16	160	48	201.71	81600		
	SK 50	18	160	50	201.71	81800		
SK 50	20	160	52	201.71	82000			
SK 50	25	160	65	213.12	82500			
SK 50	32	160	72	216.18	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**



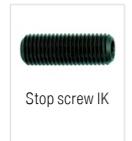
AD/B
G 2,5 n_{max} 18000

82 407 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 407 ...	
					£	Y8
short	SK 40	6	50	25	132.35	106
	SK 40	8	50	28	132.35	108
	SK 40	10	50	35	122.58	110
	SK 40	12	50	42	122.58	112
	SK 40	14	50	44	122.58	114
	SK 40	16	63	48	135.05	116
	SK 40	18	63	50	135.05	118
	SK 40	20	63	52	135.05	120
	SK 40	25	100	65	144.76	12500
	SK 40	32	100	72	157.72	13200
	SK 50	8	63	28	193.50	30800
	SK 50	10	63	35	184.57	31000
	SK 50	12	63	42	184.57	31200
	SK 50	14	63	44	184.57	31400
	SK 50	16	63	48	185.69	31600
	SK 50	18	63	50	185.69	31800
	SK 50	20	63	52	185.69	32000
	SK 50	25	80	65	202.94	32500
	SK 50	32	100	72	206.60	33200
	medium length	SK 40	6	63	25	193.50
SK 40		6	130	25	141.39	206
SK 40		8	130	28	141.39	208
SK 40		10	130	35	92.57	210
SK 40		12	130	42	92.57	212
SK 40		16	130	48	142.26	216
SK 40		20	130	52	142.26	220
SK 40		25	130	65	169.96	225
SK 50		6	130	25	222.25	90600
SK 50		8	130	28	222.25	90800
SK 50	10	130	35	213.89	91000	
SK 50	12	130	42	213.89	91200	
SK 50	16	130	48	214.92	91600	
SK 50	20	130	52	214.92	92000	
SK 50	25	130	65	227.68	92500	
SK 50	32	130	72	226.61	93200	

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

Spare parts DCONWS		62 950 ...		83 950 ...	
		£ W7		£ Y8	
6	M6x10	0.91	006	M5x35	3.19 033
8	M8x10	0.91	008	M6x35	2.16 034
10	M10x12	1.75	010	M8x35	2.30 035
12 - 14	M12x16	1.39	012	M10x35	3.14 036
16 - 18	M14x16	1.71	016	M12x40	2.80 037
20	M16x16	1.83	020	M16x45	2.71 272
25	M18x2x20	3.53	025	M20x35	4.80 290

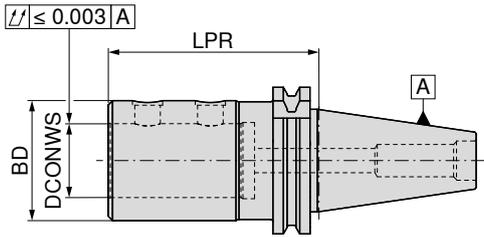


Accessories

	
Pull studs	Others
→ 57-58	→ 273

Indexable insert drill adapter ISO 7388-1 SK

▲ also available with Balluff chip on request



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

10 840 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
SK 40	20	80	40	2E/45	
SK 40	25	85	45	123.43	120
SK 40	32	90	52	123.43	125
SK 50	20	80	40	156.83	220
SK 50	25	85	45	156.83	225
SK 50	32	90	52	156.83	232
SK 50	40	90	65	156.83	240
SK 50	50	100	75	156.83	250

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



10 950 ...

Spare parts	DCONWS	M	£	
20		M10x1x10	2A/28	001
25 - 32		M12x1x10	3.66	002
40 - 50		M16x1x12	3.66	003

Accessories

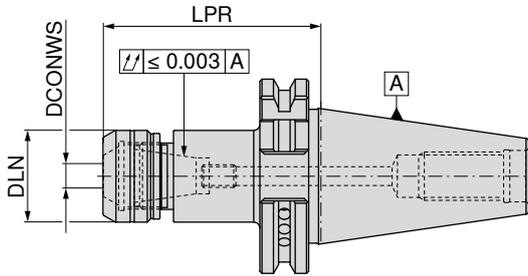
→ 57-58	→ 273

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	£ Y8	
SK 40	1 - 10	70	30	426E (ER16)	40 / 2-70	179.07	11079
SK 40	1 - 10	100	30	426E (ER16)	40 / 2-70	257.95	21079
SK 40	2 - 16	70	40	430E (ER25)	80 / 10-160	179.07	11679
SK 40	2 - 16	100	40	430E (ER25)	80 / 10-160	257.95	21679
SK 40	2 - 20	70	50	470E (ER32)	125 / 15-250	179.07	12079
SK 40	2 - 20	100	50	470E (ER32)	125 / 15-250	257.95	22079
SK 50	2 - 16	70	40	430E (ER25)	80 / 10-160	337.35	11678
SK 50	2 - 16	100	40	430E (ER25)	80 / 10-160	418.95	21678
SK 50	2 - 20	70	50	470E (ER32)	125 / 15-250	337.35	12078
SK 50	2 - 20	100	50	470E (ER32)	125 / 15-250	418.95	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
82 950 ...	82 950 ...	82 950 ...	82 950 ...
£ Y8	£ Y8	£ Y8	£ Y8
68.07 11000	64.14 01000	8.72 00200	6.41 00100
68.07 11600	64.14 01600	8.72 00200	6.41 00300
68.07 12000	64.14 02000	8.72 00200	6.41 00300

Spare parts for collet

426E (ER16)
430E (ER25)
470E (ER32)

Accessories

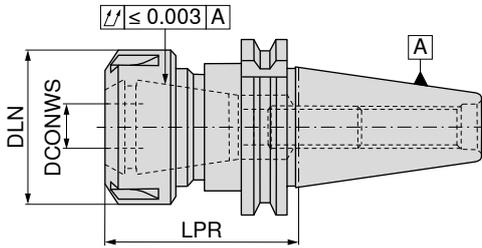
ER collet	Sealing ring	Roll key
→ 256-266	→ 270	→ 275

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 ...		82 415 ...	
							£ Y8		£ Y8	
short	SK 30	1-10	70	32	8-56	426E (ER16)	112.42	01000		
	SK 30	1-16	70	42	24-104	430E (ER25)	112.42	01600		
	SK 30	2-20	70	50	24-136	470E (ER32)	109.14	02000		
	SK 40	1-10	60	32	8-56	426E (ER16)			88.28	110
	SK 40	1-16	70	42	24-104	430E (ER25)			92.57	116
	SK 40	2-20	70	50	24-136	470E (ER32)			92.57	120
	SK 40	3-26	70	63	176	472E (ER40)			97.71	126
	SK 50	1-10	60	32	8-56	426E (ER16)			186.69	31000
	SK 50	1-16	70	42	24-104	430E (ER25)			148.71	31600
	SK 50	2-20	70	50	24-136	470E (ER32)			150.01	32000
	SK 50	3-26	70	63	176	472E (ER40)			153.08	32600
	long	SK 30	1-10	100	32	8-56	426E (ER16)	132.18	21000	
SK 30		1-16	100	42	24-104	430E (ER25)	132.18	21600		
SK 30		2-20	100	50	24-136	470E (ER32)	112.42	22000		
SK 40		1-10	120	32	8-56	426E (ER16)			100.91	410
SK 40		1-16	120	42	24-104	430E (ER25)			100.91	416
SK 40		2-20	120	50	24-136	470E (ER32)			100.91	420
SK 40		3-26	100	63	176	472E (ER40)			228.27	42600
SK 50		1-10	100	32	8-56	426E (ER16)			180.76	71000
SK 50		1-16	100	42	24-104	430E (ER25)			192.38	71600
SK 50		2-20	100	50	24-136	470E (ER32)			205.22	72000
SK 50		3-26	100	63	176	472E (ER40)			214.76	72600
extra-long		SK 40	1-10	160	32	8-56	426E (ER16)			154.72
	SK 40	2-16	160	42	24-104	430E (ER25)			232.13	61600
	SK 40	2-20	160	50	24-136	470E (ER32)			255.94	62000
	SK 40	3-26	160	63	176	472E (ER40)			161.24	62600
	SK 50	1-16	160	42	24-104	430E (ER25)			209.70	81600
	SK 50	2-20	160	50	24-136	470E (ER32)			232.31	82000

Lock nut IK	Lock nut	Y clamping key	Stop screw IK
83 950 ...	62 950 ...	83 357 ...	83 950 ...
£ Y8	£ W7	£ Y8	£ Y8
68.61 054	21.20 054	23.31 116	
79.92 055	22.08 055	23.31 125	2.80 010
79.92 055	22.08 055	23.31 125	2.80 010
85.48 056	22.64 056	33.95 132	2.80 010
85.48 056	22.64 056	33.95 132	2.80 010
102.87 057	23.45 057	38.47 140	2.71 011

Spare parts for collet

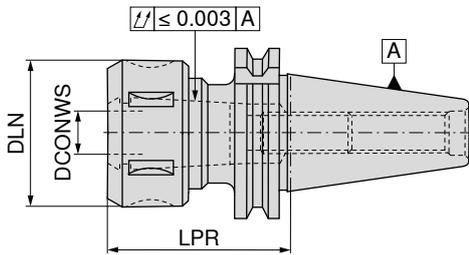
426E (ER16) / SK30-SK50	68.61	054
430E (ER25) / SK30	79.92	055
430E (ER25) / SK40, SK50	79.92	055
470E (ER32) / SK30	85.48	056
470E (ER32) / SK40, SK50	85.48	056
472E (ER40) / SK40, SK50	102.87	057

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	£		£	
short	SK 30	2-16	60	43	24-104	415E / 421E	112.06	01600		
	SK 30	2-25	80	60	24-176	459E / 462E	117.84	02500		
	SK 40	2-16	70	43	80-90	415E / 421E			140.12	116
	SK 40	2-25	70	60	90-100	459E / 462E			147.18	125
	SK 50	2-16	70	43	80-90	415E / 421E			182.75	32500
	SK 50	2-25	70	60	90-100	459E / 462E			203.69	33200
long	SK 50	4-32	70	72	110-120	460E / 467E			293.06	34000
	SK 40	2-16	120	43	80-90	415E / 421E			199.58	416
	SK 40	2-25	120	60	90-100	459E / 462E			208.27	425
	SK 40	4-32	100	72	227	460E / 467E			131.66	43200
	SK 50	2-16	100	43	80-90	415E / 421E			252.19	72500
	SK 50	2-25	100	60	90-100	459E / 462E			268.80	73200

Spare parts for collet

		£		£		£	
415E / 421E	M33x1,5	37.10	050	23.31	116	2.80	010
459E / 462E	M48x2	38.72	051	18.68	125	2.80	010
460E / 467E	M60x2,5	63.47	052	27.43	132	2.71	011

Accessories

→ 268	→ 57-58	→ 273

Lock nut

62 950 ...

£ W7

Hook clamping key

83 354 ...

£ Y8

Stop screw IK

83 950 ...

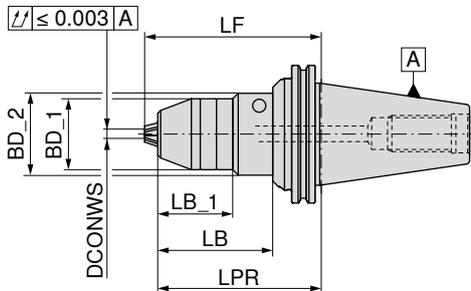
£ Y8

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 ... £ Y8	313	84 419 ... £ Y8	413	84 420 ... £ Y8	413
SK 30	0,5 - 10	80	43.0			59.9	89.0	443.50	313				
SK 40	0,5 - 13	80	48.5			60.8	89.0	443.50	413	402.37	413		
SK 40	0,5 - 13	80	48.5		50.9	60.0	89.0			395.13	416	531.24	413
SK 40	2,5 - 16	80	51.0			60.8	90.5	367.52	416				
SK 40	2,5 - 16	80	51.0		50.9		90.5					554.33	416
SK 50	0,5 - 13	110	48.5	56	50.9	78.0	119.0			598.93	513		
SK 50	0,5 - 13	110	48.5	56	50.9	78.1	119.0	522.96	513	550.55	516		
SK 50	2,5 - 16	110	51.0	56	50.9	78.0	120.5						
SK 50	2,5 - 16	110	56.0		50.9	78.0	120.5	522.96	516				

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

Accessories

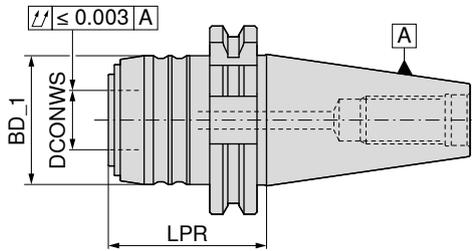
Pull studs	Others
→ 57-58	→ 273

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

83 416 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	£	
SK 40	M3 - M12	1	53	43	20	1,0 / 0,2	286.31	012
SK 40	M6 - M20	2	90	60	32	1,0 / 0,2	371.40	020
SK 50	M3 - M12	1	53	43	20	1,0 / 0,2	311.02	112
SK 50	M6 - M20	2	74	60	32	1,0 / 0,2	481.38	120

Accessories



Pull studs
→ 57-58



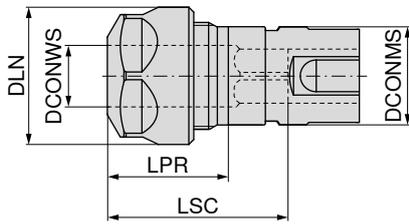
Others
→ 273

Insert for synchro quick change tapping chuck with minimum length compensation

▲ SZID = for insert size

Scope of supply:

Includes lock nut



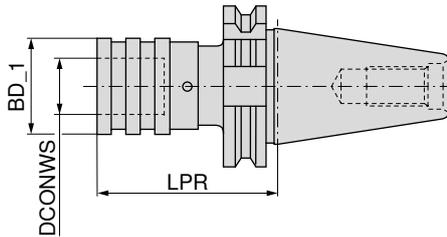
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ...	
								£	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	Y8	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	195.17	227.34

Spare parts for synchronous tapping chucks

Spare parts for Article no.	Lock nut		Lock nut IK		Lock nut		Y clamping key	
	£		£		£		£	
83 608 012		M22x1,5 - SW25		M22x1,5		M32x1,5		
83 608 020				M32x1,5				
	62 950 ...		83 950 ...		62 950 ...		83 357 ...	
	W7	26.65	044	Y8	68.61	054	W7	23.31
				Y8	79.92	055	Y8	23.31
								116
								125

Quick change tap chuck with length compensation

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



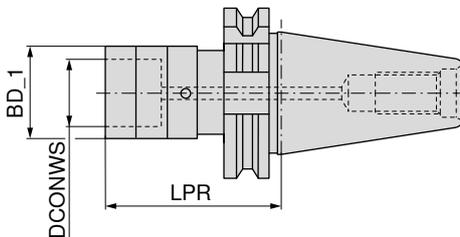
A

83 428 ...

Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LZD± mm	£	
SK 30	M3 - M12	01	60	38	19	9	Y8	
SK 30	M6 - M20	02	101	55	31	15	484.28	312
							550.19	320
SK 40	M3 - M12	01	60	38	19	9	374.01	412
SK 40	M6 - M20	02	100	55	31	15	405.28	420
SK 50	M3 - M12	01	62	38	19	9	558.58	512
SK 50	M6 - M20	02	83	55	31	15	605.07	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	£	
SK 30	02	80	50	31	Y8	
SK 30	01	59	33	19	390.64	320
					390.64	312
SK 40	02	86	50	31	294.39	420
SK 40	01	59	33	19	275.16	412
SK 50	01	75	33	19	368.79	512
SK 50	02	98	50	31	401.77	520

Accessories

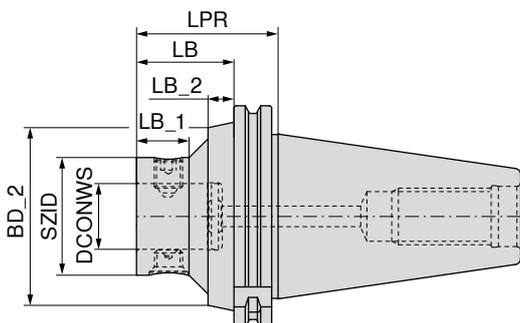
		
Collet	Pull studs	Others
→ 277-281	→ 57-58	→ 273

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



AD
G 6,3 n_{max} 8000



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

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	LB_1	LB_2	BD_2	84 211 ...	84 201 ...
			mm	mm	mm	mm	mm	mm	£	£
SK 40	A50 00120	ABS 25	13	50	30.9	23.0			713.35	792.18
SK 40	A50 55120	ABS 25	13	50	30.9	20.0	7.9	50	04090	04090
SK 40	A50 00130	ABS 32	16	50	30.9	23.0			713.35	792.18
SK 40	A50 55130	ABS 32	16	50	30.9	20.0	7.9	50	04089	04089
SK 40	A50 00140	ABS 40	20	50	30.9				713.35	792.18
SK 40	A50 55140	ABS 40	20	50	30.9	20.0		50	04088	04088
SK 40	A50 00150	ABS 50	28	50	30.9				713.35	369.32
SK 40	A50 55150	ABS 50	28	50	30.9				04097	04097
SK 40	A50 00160	ABS 63	34	90	70.9		15.9	50	724.00	804.88
SK 40	A50 55160	ABS 63	34	90	70.9		15.9	50	04096	04096
SK 50	A50 00320	ABS 25	13	60	40.9	31.0			815.52	936.94
SK 50	A50 55320	ABS 25	13	60	40.9	20.0	12.9	80	05090	05090
SK 50	A50 00330	ABS 32	16	60	40.9	31.0			815.52	926.29
SK 50	A50 55330	ABS 32	16	60	40.9	20.0	12.9	80	05089	05089
SK 50	A50 00340	ABS 40	20	60	40.9	31.0			815.52	926.29
SK 50	A50 55340	ABS 40	20	60	40.9	20.0	12.9	80	05088	05088
SK 50	A50 00350	ABS 50	28	60	40.9				815.52	431.83
SK 50	A50 55350	ABS 50	28	60	40.9	22.0	10.9	80	05097	05097
SK 50	A50 00360	ABS 63	34	60	40.9				826.17	936.94
SK 50	A50 55360	ABS 63	34	60	40.9	30.4	7.3	80	05096	05096
SK 50	A50 00370	ABS 80	46	70	50.9				841.11	949.63
SK 50	A50 55370	ABS 80	46	70	50.9				05092	05092
SK 50	A50 00380	ABS 100	56	115	95.9		15.9	80	930.59	1,009.42
SK 50	A50 55380	ABS 100	56	115	95.9		15.9	80	05091	05091
SK 50	A50 00390	ABS 125	70	145	125.9		15.9	80	1,056.10	
									05085	

Conversion kit – Cooling agent supply



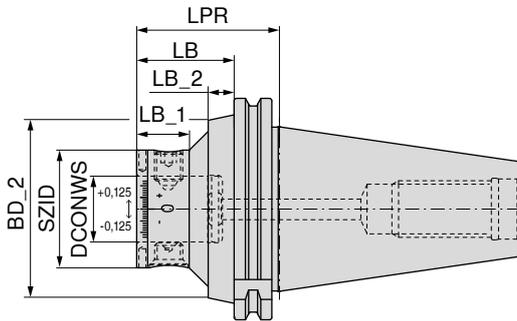
for	84 950 ...
4 mm SK 40	£ 5.75 23200
6 mm SK 50	£ 5.75 23400

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



84 204 ...
£
W4
502.04 04097
646.22 04096
563.17 05097
739.89 05096

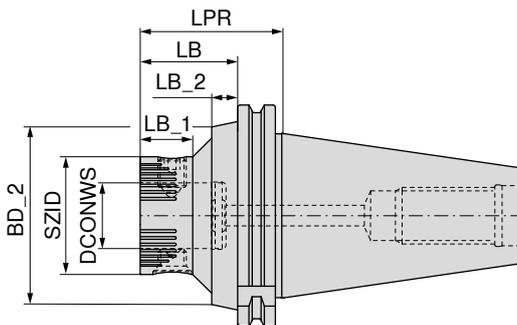
Adapter	KOMET no.	SZID	DCONWS	LPR	LB	LB_1	LB_2	BD_2
			mm	mm	mm	mm	mm	mm
SK 40	A50 56150	ABS 50	28	50	30.9			
SK 40	A50 56160	ABS 63	34	90	70.9		15.9	50
SK 50	A50 56350	ABS 50	28	60	40.9	22.0	10.9	80
SK 50	A50 56360	ABS 63	34	60	40.9	30.4	7.3	80

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

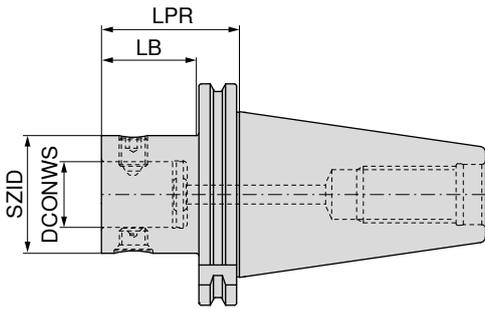


84 207 ...
£
3E
637.35 04097
622.37 04096
710.76 05097
657.68 05096
721.63 05092

Adapter	KOMET no.	SZID	DCONWS	LPR	LB	LB_1	LB_2	BD_2
			mm	mm	mm	mm	mm	mm
SK 40	A50 01351	ABS 50	28	50	30.9			
SK 40	A50 01361	ABS 63	34	90	70.9		15,9	50
SK 50	A50 01451	ABS 50	28	60	40.9	22,0	10,9	80
SK 50	A50 01461	ABS 63	34	60	40.9	30,4	7,3	80
SK 50	A50 01470	ABS 80	46	70	50.9			

Adapter with ABS Connection – SK-FC

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



NEW



AD
G 6,3 n_{max} 8000

84 213 ...

£
3E

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	£	
SK-FC 40	A50 57151	ABS 50	28	50	30.9	1,166.88	04097
SK-FC 40	A50 57161	ABS 63	34	90	70.9	1,201.06	04096
SK-FC 50	A50 57351	ABS 50	28	60	40.9	1,286.24	05097
SK-FC 50	A50 57361	ABS 63	34	60	40.9	1,286.24	05096
SK-FC 50	A50 57371	ABS 80	46	70	50.9	1,369.17	05092
SK-FC 50	A50 57381	ABS 100	56	115	95.9	1,486.29	05091

Spare parts

SZID	£		£		£	
ABS 50	8.63	20300	19.57	99800	10.97	20400
ABS 63	8.22	25500	18.45	99400	10.42	27300
ABS 80	10.10	25600	22.38	99300	12.30	25100
ABS 100	12.45	25700	26.03	99200	13.65	25200



84 950 ...

£
XX

84 950 ...

£
XX

84 950 ...

£
XX

Accessories



Pull studs

Extension

Others

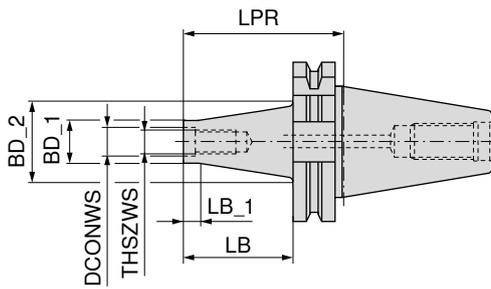
→ 57-58

→ 193

→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 16 n_{max} 8000

56 707 ...

£
WA



AD
G 6,3 n_{max} 18000

56 705 ...

£
WA



AD
G 2,5 n_{max} 30000

56 703 ...

£
WA

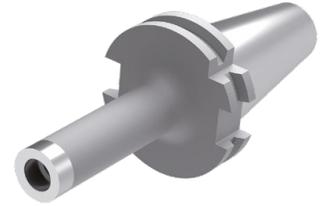
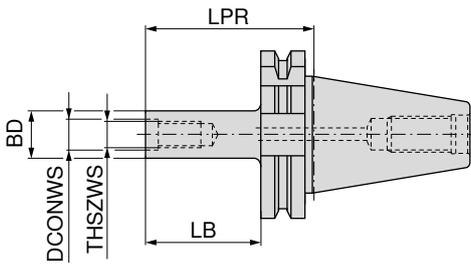
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR			
		mm	mm	mm	mm	mm	mm			
SK 30	M8	8.5	25	13.8	18.0	12	44			
SK 30	M8	8.5	50	13.8	23.0	12	69			
SK 30	M10	10.5	25	18.0	23.0	12	44			
SK 30	M10	10.5	50	18.0	25.0	12	69			
SK 30	M12	12.5	25	21.0	24.0	12	44			
SK 30	M12	12.5	50	21.0	30.0	12	69			
SK 30	M16	17.0	25	29.0	30.5	12	44			
SK 30	M16	17.0	50	29.0	34.0	12	69			
SK 40	M8	8.5	25	13.8	15.0	12	44		202.78	081
SK 40	M8	8.5	50	13.8	23.0	12	69		207.74	082
SK 40	M8	8.5	75	13.8	25.0	12	94		212.54	083
SK 40	M10	10.5	25	18.0	23.0	12	44		202.78	101
SK 40	M10	10.5	50	18.0	25.0	12	69		207.74	102
SK 40	M10	10.5	75	18.0	30.0	12	94		212.54	103
SK 40	M10	10.5	100	18.0	35.0	12	119		217.49	104
SK 40	M12	12.5	25	21.0	24.0	12	44		202.78	121
SK 40	M12	12.5	50	21.0	30.0	12	69		207.74	122
SK 40	M12	12.5	75	21.0	35.0	12	94		212.54	123
SK 40	M12	12.5	100	21.0	38.0	12	119		217.49	124
SK 40	M16	17.0	25	29.0	29.0	12	44		202.78	161
SK 40	M16	17.0	50	29.0	34.0	12	69		207.74	162
SK 40	M16	17.0	75	29.0	35.0	12	94		212.54	163
SK 40	M16	17.0	100	29.0	40.0	12	119		217.49	164
SK 40	M16	17.0	125	29.0	44.0	12	144		222.26	165
SK 40	M16	17.0	150	29.0	48.0	12	169		227.23	166
SK 40	M16	17.0	200	29.0	50.0	12	219		236.99	167
SK 50	M12	12.5	50	21.0	30.0	12	69	287.79		122
SK 50	M12	12.5	100	21.0	38.0	12	119	297.53		124
SK 50	M12	12.5	150	21.0	52.0	12	169	307.28		126
SK 50	M16	17.0	50	29.0	34.0	12	69	287.79		162
SK 50	M16	17.0	100	29.0	40.0	12	119	292.58		164
SK 50	M16	17.0	150	29.0	48.0	12	169	302.33		166
SK 50	M16	17.0	200	29.0	58.0	12	219	312.07		167
SK 50	M16	17.0	250	29.0	62.0	12	269	321.98		168

Accessories

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

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 709 ...

Adapter	THSZWS	DCONWS mm	LB mm	BD mm	LPR mm	£	WA
SK 40	M8	8.5	50	13.8	69	220.68	082
SK 40	M10	10.5	50	18.0	69	220.68	102
SK 40	M10	10.5	75	18.0	94	225.63	103
SK 40	M10	10.5	100	18.0	119	230.60	104
SK 40	M12	12.5	50	21.0	69	220.68	122
SK 40	M12	12.5	75	21.0	94	225.63	123
SK 40	M12	12.5	100	21.0	119	230.60	124
SK 40	M16	17.0	50	29.0	69	220.68	162
SK 40	M16	17.0	75	29.0	94	225.63	163
SK 40	M16	17.0	100	29.0	119	230.60	164

Accessories

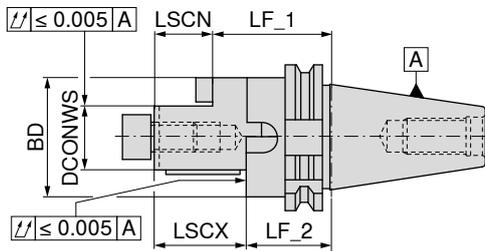
Extension-Reduction set → 245	Pull studs → 57-58	Others → 273

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 σ_{\max} 8000

82 429 ...

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm		£ Y8	
short	SK 30	16	50	32	27	17	40		111.32	01600
	SK 30	22	50	40	31	19	38		111.32	02200
	SK 30	27	55	48	33	21	43		133.29	02700
	SK 30	32	60	58	38	24	46		140.01	03200
	SK 40	16	55	32	27	17	45		148.47	116
	SK 40	22	55	40	31	19	43		154.25	122
	SK 40	27	55	48	33	21	43		157.43	127
	SK 40	32	60	58	38	24	46		165.89	132
	SK 40	40	60	70	41	27	46		174.86	140 ¹⁾
	SK 50	16	55	32	27	17	45		201.71	316
	SK 50	22	55	40	31	19	43		206.77	322
	SK 50	27	55	48	33	21	43		224.19	327
	SK 50	32	55	58	38	24	41		230.20	332
	SK 50	40	55	70	41	27	41		239.04	340 ¹⁾
	SK 50	50	70	90	46	30	54		261.98	350 ¹⁾
long	SK 40	16	100	32	27	17	90		121.31	21600
	SK 40	22	100	40	31	19	88		126.19	22200
	SK 40	27	100	48	33	21	88		128.58	22700
	SK 40	32	100	58	38	24	86		135.65	23200
	SK 40	40	100	70	41	27	86		142.93	24000

1) With cross screw



Spare parts		83 950 ...		83 370 ...		83 368 ...		83 367 ...		83 950 ...	
DCONWS		£ Y8		£ Y8		£ Y8		£ Y8		£ Y8	
16	4 x 4 x 20	3.45	284	12.74	116	21.07	116	5.60	016	5.93	113
22	6 x 6 x 25	3.45	285	12.23	122	26.21	122	6.23	022	6.70	124
27	7 x 7 x 25	5.48	286	15.26	127	30.81	127	7.96	027	7.40	125
32	8 x 7 x 28	3.90	287	16.01	132	42.00	132	12.50	032	9.02	126
40	10 x 8 x 32	4.60	288	26.96	140	41.71	140	13.38	040	9.94	112
50	12 x 8 x 36	4.60	289	54.25	150	59.45	150	34.03	050		
										M8x25	
										M10x25	
										M12x30	
										M16x35	
										M20x40 - SW17	

Accessories

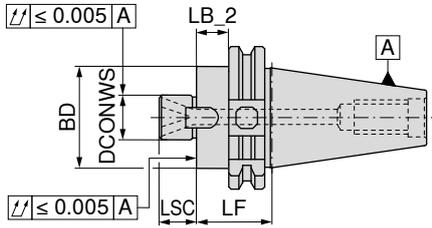
Pull studs	Milling Adapter Rings	Others
→ 57-58	→ 253	→ 273

Shell mill adapter

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

Scope of supply:

Toolholder with retaining screw



A
G 2,5 n_{max} 18000



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

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	A		AD/B		
							£		£		
short	SK 30	16	21.0	40	38	17	106.96	01600			
	SK 30	22	14.6	50	48	19	106.96	02200			
	SK 30	27	19.3	55	58	21	125.66	02700			
	SK 30	32	31.0	50	78	24	132.93	03200			
	SK 40	16	25.0	44	38	17			114.59	116	
	SK 40	22	25.0	44	48	19			124.69	122	
	SK 40	27	36.0	55	58	21			126.12	127	
	SK 40	32	31.0	50	78	24			133.06	132	
	SK 40	40	31.0	50	88	27			144.60	140 ¹⁾	
	SK 50	16	25.0	44	38	17			168.40	316	
	SK 50	22	25.0	44	48	19			174.03	322	
	SK 50	27	25.0	44	58	21			178.16	327	
	SK 50	32	21.0	40	78	24			194.16	332	
	SK 50	40	31.0	50	88	27			198.16	340 ¹⁾	
	long	SK 40	16	81.0	100	38	17			123.14	416
		SK 40	22	81.0	100	48	19			130.23	422
SK 40		27	81.0	100	58	21			133.06	427	
SK 40		32	81.0	100	78	24			140.12	432	
SK 40		40	81.0	100	88	27			148.71	440 ¹⁾	
SK 50		16	81.0	100	38	17			235.60	616	
SK 50		22	81.0	100	48	19			240.67	622	
SK 50		27	81.0	100	58	21			247.62	627	
SK 50		32	81.0	100	78	24			255.05	632	
SK 50		40	81.0	100	88	27			259.96	640 ¹⁾	
medium length	SK 40	16	111.0	130	38	17			130.50	816	
	SK 40	22	111.0	130	48	19			134.77	822	
	SK 40	27	111.0	130	58	21			136.85	827	
	SK 40	32	111.0	130	78	24			143.40	832	
	SK 40	40	111.0	130	88	27			149.76	840 ¹⁾	
	SK 50	16	111.0	130	38	17			206.73	916	
	SK 50	22	111.0	130	48	19			210.77	922	
	SK 50	27	111.0	130	58	21			216.56	927	
	SK 50	32	111.0	130	78	24			222.33	932	
	SK 50	40	111.0	130	88	27			226.36	940	
extra-long	SK 40	16	141.0	160	38	17			168.85	516	
	SK 40	22	141.0	160	48	19			174.03	522	
	SK 40	27	141.0	160	58	21			176.62	527	
	SK 40	32	141.0	160	78	24			184.98	532	
	SK 40	40	141.0	160	88	27			192.74	540 ¹⁾	
	SK 50	16	141.0	160	38	17			256.57	716	
	SK 50	22	141.0	160	48	19			261.25	722	
	SK 50	27	141.0	160	58	21			268.80	727	
	SK 50	32	141.0	160	78	24			276.95	732	
	SK 50	40	141.0	160	88	27			279.54	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 83 368 ...		 Retaining screw 83 367 ...		 clamping screw 83 950 ...	
Spare parts DCONWS		£		£		£	
		Y8		Y8		Y8	
16		21.07	116	5.60	016	5.93	113
22	M8	26.21	122	6.23	022	6.70	124
27	M10	30.81	127	7.96	027	7.40	125
32	M12	42.00	132	12.50	032	9.02	126
40	M16	41.71	140	13.38	040	9.94	112
	M20						

		 Screw for drivers 83 950 ...		 Driver 83 950 ...	
Spare parts DCONWS		£		£	
		Y8		Y8	
16	M3x8	1.02	296	14.34	120
22	M4x12	1.33	297	14.81	121
27	M5x12	1.37	136	16.33	122
32	M5x20	1.45	137	16.50	123
40	M6x16	1.65	138	21.97	295

Accessories

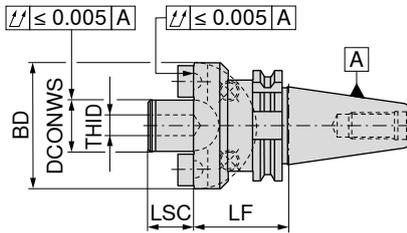
  		
Pull studs	Extensions	Others
→ 57-58	→ 252	→ 273

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

82 432 ...

£
Y8
303.89 040

322.60 240
395.15 260

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID
SK 40	40	60	89	30	M20
SK 50	40	70	89	30	M20
SK 50	60	70	129	40	M30



Screw for drivers



Driver



clamping screw

83 950 ...

£
Y8

1.65 138

83 950 ...

£
Y8

21.97 295
24.77 298

83 950 ...

£
Y8

7.39 140
15.19 160

Spare parts

DCONWS								
40	M6x16	1.65	138	15,9x16,3x19,5	21.97	295	M12x50	7.39 140
60				25,4x16,3x26,5	24.77	298	M16x45	15.19 160

Accessories



Pull studs

→ 57-58

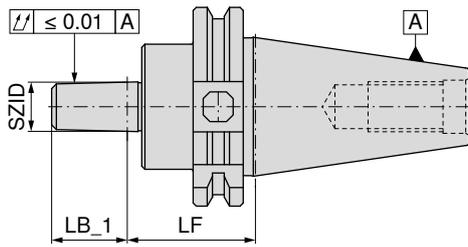


Others

→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{\max} 8000

82 423 ...

Adapter	SZID	LF mm	LB_1 mm	£	
SK 40	B12	40	18.5	146.87	112
SK 40	B16	40	24.0	146.87	116
SK 50	B16	40	24.0	178.93	316
SK 50	B18	40	32.0	178.93	318



83 636 ...		83 636 ...			
£		£			
Y8		Y8			
0 - 8 mm	154.05	012	0 - 10 mm	182.16	112
1 - 13 mm	218.33	016	3 - 16 mm	178.26	116
			3 - 16 mm	232.48	018

Spare parts

SZID	0 - 8 mm	£		0 - 10 mm	£	
B12		154.05	012		182.16	112
B16		218.33	016		178.26	116
B18					232.48	018

Accessories

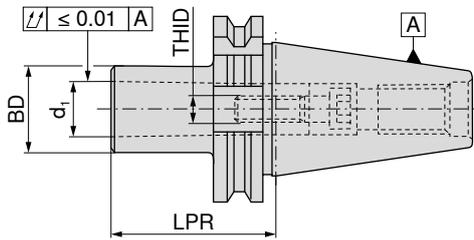
	
Pull studs	Others
→ 57-58	→ 273

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

82 446 ...

	Adapter	d ₁	LPR mm	BD mm	THID		
						£	
short	SK 40	MK1	50	25	M6	142.01	110
	SK 40	MK2	50	32	M10	142.01	120
	SK 40	MK3	70	40	M12	148.47	130
	SK 40	MK4	95	48	M16	154.25	140
	SK 50	MK1	45	25	M6	196.75	310
	SK 50	MK2	60	32	M10	196.75	320
	SK 50	MK3	65	40	M12	196.75	330
	SK 50	MK4	95	48	M16	207.00	340
	SK 50	MK5	120	63	M20	235.37	350



Morse taper clamping screw



Counterscrew



Hollow key with nose



Fixing ring

Spare parts for Article no.	83 950 ...		83 950 ...		83 359 ...		83 950 ...	
	£		£		£		£	
82 446 110	0.96	260	0.79	030	36.27	013	10.65	265
82 446 120	2.05	261	0.79	031	36.27	013	10.65	267
82 446 130	1.31	018	0.79	030	40.94	017	14.48	269
82 446 140	6.22	019	0.79	031	49.78	023	14.48	270
82 446 310	0.96	260	0.79	031	43.62	020	12.57	266
82 446 320	1.31	017	0.79	031	43.62	020	12.57	268
82 446 330	1.31	017	0.79	031	40.94	017	14.48	269
82 446 340	6.22	019	0.79	031	49.78	023	14.48	270
82 446 350	11.63	262	0.79	031	61.66	033	17.86	271

Accessories



Pull studs



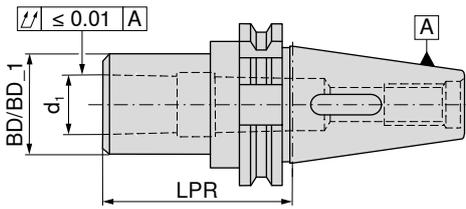
Others

→ 57-58

→ 273

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			
short	SK 30	MK1	50	25				
	SK 30	MK2	63	32				
	SK 30	MK3	80	40				
	SK 40	MK1	50		25			
	SK 40	MK2	50		32			
	SK 40	MK3	70		40			
	SK 40	MK4	95	48				
	SK 50	MK1	50		25			
	SK 50	MK2	60		32			
	SK 50	MK3	65		40			
	SK 50	MK4	95	48				
	SK 50	MK5	105		63			
	long	SK 40	MK2	117	32			
		SK 40	MK3	133	40			
		SK 40	MK4	156	48			

£	Y8
115.69	01000
105.87	02000
105.87	03000
100.44	110
103.29	120
110.45	130
116.09	140
126.12	310
130.23	320
134.82	330
140.12	340
153.08	350
175.84	22000
195.49	23000
213.07	24000

Accessories

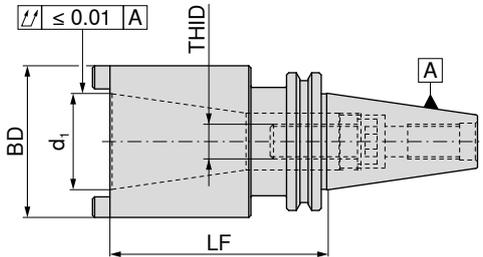
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 57-58	→ 273

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
SK 40	SK 30	50	50	M12
SK 40	SK 40	100	70	M16
SK 50	SK 40	80	70	M16
SK 50	SK 50	120	100	M24

82 453 ...	
£	
Y8	
203.75	03000
229.72	040
305.07	240
322.31	250

Spare parts for Article no.

	Clamping screw SK	Morse taper clamping screw	Counterscrew	Hollow key with nose	Fixing ring
82 453 03000	£ Y8 10.42 009	£ Y8 4.97 18400	£ Y8 0.79 030	£ Y8 40.94 017	£ Y8 6.10 18500
82 453 040	11.17 264		0.79 030	49.78 023	14.48 270
82 453 240	36.73 256		0.79 031	61.81 133	24.70 257

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

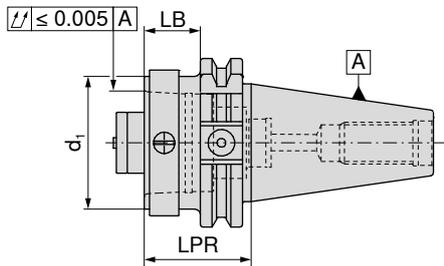
ISO 7388-1	Norm of the SK-shank		Clamping screw length	Clamping screw SK Article no.	retaining ring Article no.	lock screw Article no.	hollow key Article no.
	ISO 7388-1	DIN 2080					
Suitable for article no.	∅ d ₁	∅ d ₁	THID				
82 453 03000		SK 30	M12 x 40	83 950 18400	83 950 18500	83 950 030	83 359 017
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

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



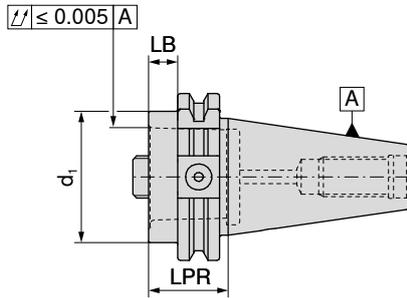
84 014 ...

Adapter	d ₁	LB mm	LPR mm	£	
SK 40	HSK-A 32	20.9	40	867.51	04060
SK 40	HSK-A 40	20.9	40	884.90	04059
SK 40	HSK-A 50	20.9	40	902.48	04058
SK 40	HSK-A 63	60.9	80	884.90	04057
SK 50	HSK-A 100	80.9	100	1,390.28	05055
SK 50	HSK-A 32	20.9	40	1,093.93	05060
SK 50	HSK-A 40	20.9	40	1,093.93	05059
SK 50	HSK-A 50	20.9	40	1,111.51	05058
SK 50	HSK-A 63	20.9	40	1,181.25	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



84 015 ...

Adapter	d ₁	LB mm	LPR mm	£ Y8	
SK 40	PSC 32	10.9	30	553.77	04087
SK 40	PSC 40	10.9	30	571.35	04095
SK 40	PSC 50	10.9	30	571.35	04094
SK 40	PSC 63	65.9	85	553.77	04093
SK 50	PSC 32	10.9	30	763.18	05087
SK 50	PSC 40	10.9	30	902.48	05095
SK 50	PSC 50	10.9	30	780.38	05094
SK 50	PSC 63	10.9	30	797.77	05093
SK 50	PSC 80	50.9	70	850.12	05086



Threaded ring



tightening screw

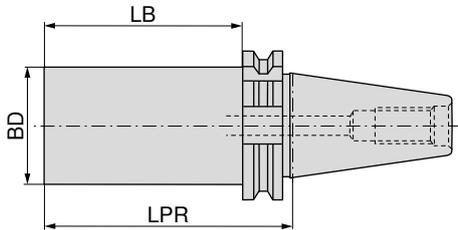
84 950 ...

84 950 ...

Spare parts	£ Y8		£ Y8	
DCONWS				
22	41.15	127	29.87	122
28	41.15	128	33.67	123
35	41.15	129	33.67	124
44	82.16	130	37.47	126
55	82.16	130	37.47	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

82 458 ...

£

Y8

164.71 040

293.06 050

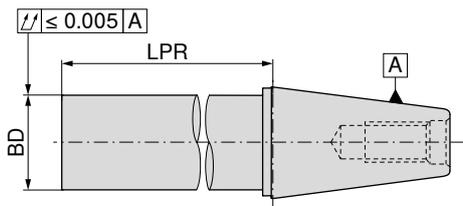
Adapter	BD mm	LPR mm	LB mm
SK 40	63.0	250	231
SK 50	63.5	300	281

Test bar

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

Scope of supply:

in wooden box



A

82 456 ...

£

Y8

771.57 040

954.42 050

Adapter	BD mm	LPR mm
SK / BT 40	40	330
SK / BT 50	50	330

Accessories



Pull studs

Others

→ 57–58, 111–112

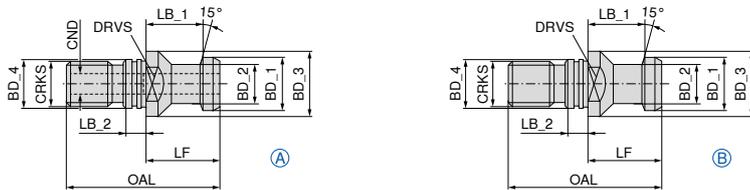
→ 273

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



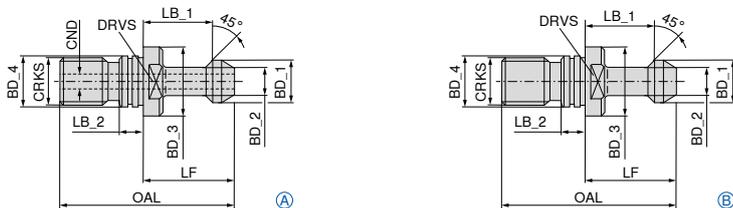
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 475 ...		82 468 ...	
														£		£	
SK 30	13	9	17	13	M12	44	24	19	5	3.5	14	60	A			14.82	030
SK 40	19	14	23	17	M16	54	26	20	7	7.0	19	90	A			12.61	040
SK 50	28	21	36	25	M24	74	34	25	10	11.5	30	145	A			18.72	050
SK 30	13	9	17	13	M12	44	24	19	5		14	60	B	14.82	030		
SK 40	19	14	23	17	M16	54	26	20	7		19	90	B	12.61	040		
SK 50	28	21	36	25	M24	74	34	25	10		30	145	B	18.72	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 ...		83 535 ...	
														£		£	
SK 40	15	10	23	17	M16	57	32	25	5	4	19	90	A			18.25	040
SK 40	15	10	23	17	M16	57	32	25	5		19	90	B	21.66	040		



Spare parts

BD_4

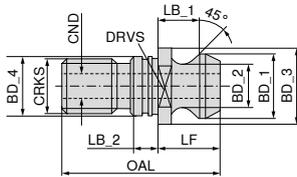
	83 476 ...	
	£	
17	Y8	
		BT / SK 40 2.49 040
25		BT / SK 50 2.49 050

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:

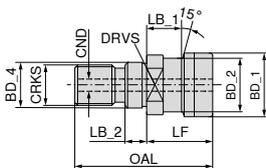
SK 50 including O-ring
SK 40 without O-ring groove



Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	82 487 ...	
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	£	
SK 40	18.79	12.44	22.5	17	M16	41.26	16.25	11.17	4.0	6.0	19	90	12.61	040
SK 50	29.10	19.60	37.0	25	M24	65.50	25.55	17.95	5.5	11.5	30	145	19.78	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

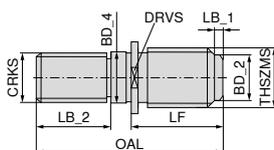


Adapter	BD_1	BD_2	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	without internal thread		with internal thread	
	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	£		£	
SK 40	25.0	21.1	17	M16	53	25	13.6	8	7	19	90	20.63	040	20.63	040
SK 50	39.3	32.0	25	M24	65	25	13.3	10		30	145	23.53	050 ¹⁾	23.53	050

1) with O ring

Pull studs for tool holders according to ISO 7388-1

▲ DECKEL thread S 20 x 2



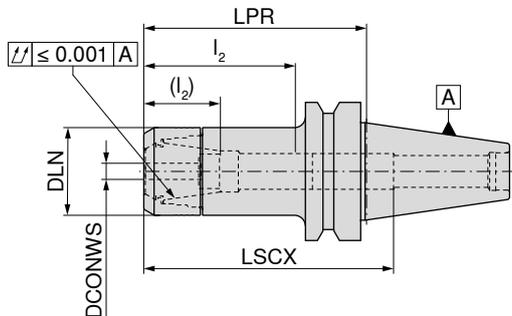
Adapter	THSZMS	CRKS	OAL	LF	LB_1	LB_2	BD_2	BD_4	DRVS	83 471 ...	
			mm	mm	mm	mm	mm	mm	mm	£	
SK 40	S 20 x 2	M16	55	33	4	17	16.7	17	22	35.47	040

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	£ Y8	
BT 30	1 - 10	50	30	73	28 - 44 (16 - 31)	426E (ER16)	207.90	001
BT 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	230.18	002
BT 30	1 - 10	100	30	123	28 - 44 (16 - 31)	426E (ER16)	267.24	003
BT 30	1 - 10	120	30	112	28 - 45 (14 - 31)	426E (ER16)	290.06	004
BT 30	2 - 16	60	40	77	35 - 59 (30 - 42)	430E (ER25)	237.65	160
BT 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	237.65	161
BT 30	2 - 16	90	40	87	38 - 56 (23 - 39)	430E (ER25)	290.06	162
BT 30	2 - 16	120	40	115	38 - 56 (23 - 39)	430E (ER25)	290.06	164
BT 30	2 - 20	60	50	69	42 - 52	470E (ER32)	182.01	207
BT 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	182.01	208
BT 30	2 - 20	90	50	94	42 - 62 (24 - 45)	470E (ER32)	199.28	209
BT 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	146.62	210
BT 40	1 - 10	90	30	120	30 - 50 (29 - 36)	426E (ER16)	173.74	310
BT 40	1 - 10	120	30	140	29 - 45 (29 - 35)	426E (ER16)	236.58	410
BT 40	1 - 10	150	30	180	29 - 45 (29 - 32)	426E (ER16)	255.06	510
BT 40	1 - 10	200	30	220	29 - 50 (29 - 36)	426E (ER16)	295.71	610
BT 40	2 - 16	60	40	92	44 - 64 (36 - 46)	430E (ER25)	166.35	116
BT 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	146.62	216
BT 40	2 - 16	90	40	91	42 - 59 (36 - 41)	430E (ER25)	173.74	316
BT 40	2 - 16	105	40	100	35 - 60 (20 - 42)	430E (ER25)	250.34	168
BT 40	2 - 16	120	40	91	40 - 65 (36 - 47)	430E (ER25)	255.06	416
BT 40	2 - 16	150	40	100	40 - 64 (36 - 45)	430E (ER25)	273.54	516
BT 40	2 - 16	200	40	150	40 - 64 (36 - 45)	430E (ER25)	314.19	616
BT 40	2 - 20	60	50	55	45 - 64 (42 - 46)	470E (ER32)	166.35	120
BT 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	146.62	220
BT 40	2 - 20	90	50	100	42 - 76 (42 - 52)	470E (ER32)	173.74	320
BT 40	2 - 20	120	50	110	42 - 71 (42 - 53)	470E (ER32)	255.06	420
BT 40	2 - 20	150	50	110	42 - 71 (42 - 53)	470E (ER32)	273.54	520
BT 40	3 - 26	75	63	78	54 - 59	472E (ER40)	187.29	226
BT 40	3 - 26	105	63	93	55 - 71 (48 - 53)	472E (ER40)	242.74	326
BT 50	2 - 20	75	50	110	45 - 70 (42 - 53)	470E (ER32)	277.24	720
BT 50	2 - 20	105	50	140	45 - 63 (42 - 45)	470E (ER32)	328.99	820
BT 50	2 - 20	165	50	200	45 - 74 (42 - 56)	470E (ER32)	495.33	920
BT 50	3 - 26	75	63	100	48 - 58	472E (ER40)	295.71	726
BT 50	3 - 26	105	63	100	48 - 58	472E (ER40)	347.47	826

→ Transmittable torque moments, Page 300

i 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

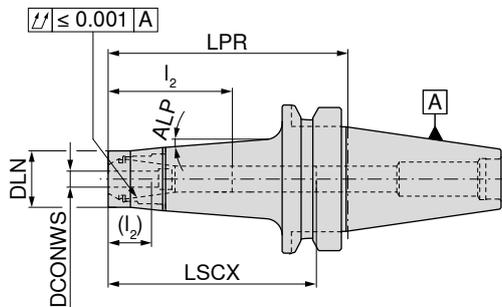
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	76.42	011	56.75	001	47.40	341	31.75	337
430E (ER25)	85.18	013	63.06	003	33.34	432	23.78	431
470E (ER32)	91.08	015	69.36	005	28.16	402	20.51	401
472E (ER40)	124.56	017	100.91	007			28.75	400

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

84 517 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	ALP	£	
BT 40	1 - 10	100	24	72	28 - 48 (20 - 35)	426E (ER16)	4.5°	243.61	410
BT 40	1 - 10	135	24	165	28 - 48 (20 - 35)	426E (ER16)		228.96	31000
BT 40	1 - 10	160	24	180	28 - 48 (20 - 35)	426E (ER16)	4.5°	305.35	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		Tapered lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	93.82	033	79.26	031	47.40	341	31.75	337

Accessories

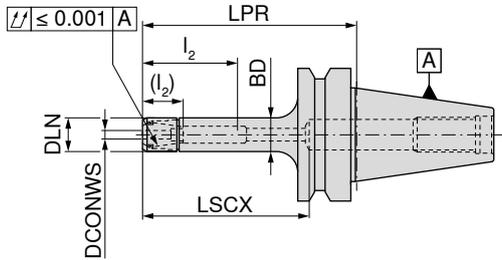
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256-263, 266	→ 269	→ 275	→ 275	→ 111-112	→ 273

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

84 507 ...

£
Y8

231.17 007
255.94 008



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

84 508 ...

£
Y8

243.45 307
251.25 40600
324.51 507
338.87 90600

Adapter	DCONWS mm	LPR mm	DLN mm	BD mm	LSCX mm	I_2 (I_2) mm	for collet		
BT 30	1 - 7	50	16	16	68	18 - 32 (12 - 22)	4008E (ER11)		
BT 30	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		
BT 40	1 - 7	75	16	16	100	15 - 30 (8 - 21)	4008E (ER11)		243.45 307
BT 40	1 - 7	90	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		251.25 40600
BT 40	1 - 7	120	16	16	140	15 - 30 (8 - 21)	4008E (ER11)		324.51 507
BT 40	1 - 7	150	16	16	68	18 - 36 (12 - 26)	4008E (ER11)		338.87 90600
BT 40	1 - 10	75	22	22	100	27 - 49 (16 - 32)	426E (ER16)		243.45 216
BT 40	1 - 10	90	22	22	115	27 - 49 (16 - 32)	426E (ER16)		243.45 316
BT 40	1 - 10	120	22	22	145	27 - 49 (16 - 32)	426E (ER16)		324.51 416
BT 40	1 - 10	150	22	22	175	27 - 49 (16 - 32)	426E (ER16)		324.51 516

i LSCX = Clamping depth without back stop screw for shanks
 I_2 = With back stop screw 1, Dimension in brackets (I_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 ...
	£ Y8	£ Y8	£ Y8	£ Y8
Spare parts for collet				
4008E (ER11)		79.26 041	45.18 340	30.09 336
426E (ER16)	77.19 035	63.32 034	47.40 341	31.75 337

Accessories

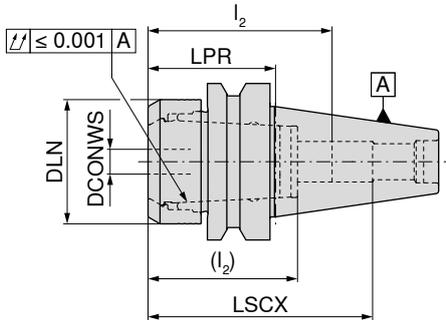
ER collet	Sealing ring	Device	Roll key	Roll key device	Pull studs	Others
→ 256–263, 266	→ 269	→ 274	→ 275	→ 275	→ 111–112	→ 273

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

84 513 ...

£
Y8

194.85 225

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet
BT 40	2- 25	51	50	89	70 (56)	462E

→ 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 462E	Lock nut IK	Lock nut	Stop screw 2	Stop screw 1
	<p>84 950 ...</p> <p>£ Y8 75.33 020</p>	<p>84 950 ...</p> <p>£ Y8 71.45 009</p>	<p>83 950 ...</p> <p>£ Y8 28.16 402</p>	<p>83 950 ...</p> <p>£ Y8 20.51 401</p>

Accessories

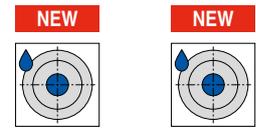
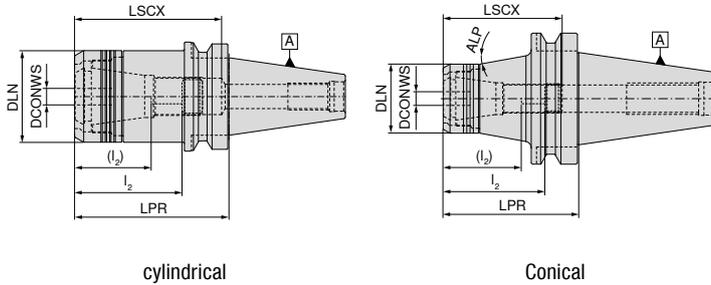
OZ Collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 267	→ 267	→ 275	→ 275	→ 111–112	→ 273

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



G 6,3 n_{max} 18000 G 6,3 n_{max} 18000

cylindrical conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	£	£
BT 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)	337.16	12069
BT 40	2 - 20	90	53	85	41 - 63 (27 - 45)		470E (ER32)	351.12	22069
BT 50	2 - 20	75	53	114	41 - 80 (27 - 62)	10	470E (ER32)		522.69 12068
BT 50	2 - 20	105	53	140	41 - 80 (27 - 62)	10	470E (ER32)		610.47 22068



LSCX = Clamping depth without backstop screw

l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2

Spare parts	Lock nut	Stop screw 2	Stop screw 1
DCONWS	84 950 ...	83 950 ...	83 950 ...
2 - 20	£ Y8 105.74 30100	£ Y8 28.16 402	£ Y8 20.51 401

Accessories

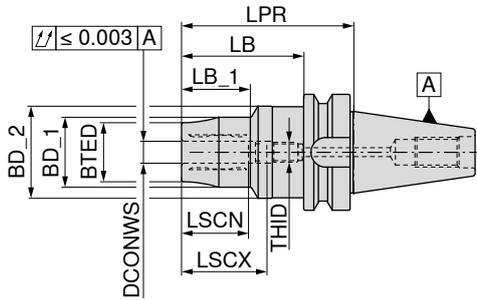
ER collet	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 275	→ 275	→ 111-112	→ 273

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

83 526 ...

	Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LSCX	LSCN	LB	THID			
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm		£	
short	BT 40	16	95	36	42	50	42	49	39	71	M12x1		943.79	116
	BT 40	20	100	42	48	50	45	51	41	76	M16x1		838.64	120
	BT 40	25	110	51	57	50	60	57	47	91	M16x1		943.79	125
	BT 40	32	120	57	63	50	65	61	51	101	M16x1		943.79	132

→ Min. clamping depth, Page 300



Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...	
	£		£		£		£	
83 526 116	Y7	157	Y7	050	Y7	429	Y7	446
83 526 120	3.03	157	6.39	050	18.06	159	17.55	448
83 526 125	3.03	157	6.39	050	18.06	159	30.40	449
83 526 132	3.03	157	6.39	050	9.08	429	37.83	450

Accessories

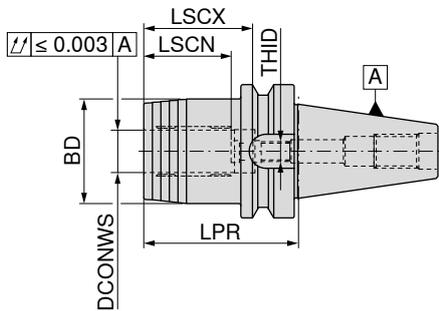
Reduction sleeve	Pull studs	Others
→ 271	→ 57-58	→ 273

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

83 513 ...

£

Y8

355.46 120

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	72.5	49	51	40	M16x1x13,5

→ Min. clamping depth, Page 300



Cylindrical screw



Clamping key - T



Pressure screw



Stop screw IK

Spare parts for Article no.

83 513 120	M5x5 - SW2,5	£ Y7	3.03	157	SW5	£ Y7	6.39	050	M10x1x14	£ Y7	9.08	429	M16x1x13,5 - SW8	£ Y7	22.87	424
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Accessories

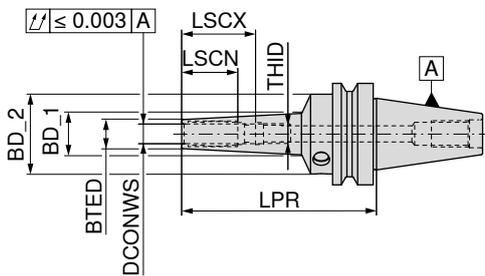
Reduction sleeve	Pull studs	Others
→ 271	→ 111-112	→ 273

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

83 522 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£	
										Y8	
long	BT40	3	120	9	16.55	49.5	28	12	M3	695.36	103
	BT40	4	120	10	17.55	49.5	28	16	M3	695.36	104
	BT40	5	120	11	18.55	49.5	28	20	M3	695.36	105
	BT40	6	120	12	19.55	49.5	37	27	M5	593.02	106
	BT40	8	120	14	21.55	49.5	37	27	M6	593.02	108
	BT40	10	120	16	23.65	49.5	41	31	M8x1	593.02	110
	BT40	12	120	18	25.76	49.5	46	36	M10x1	593.02	112
	BT40	16	120	24	31.45	49.5	49	39	M12x1	852.66	116
	BT40	20	120	28	35.55	49.5	51	41	M16x1	852.66	120
	BT40	6	160	16	33.53	49.5	37	27	M5	892.50	206
	BT40	8	160	18	34.60	49.5	37	27	M6	892.50	208
	BT40	10	160	20	36.27	49.5	41	31	M8x1	892.50	210
	BT40	12	160	22	37.88	49.5	46	36	M10x1	892.50	212
	BT40	6	200	16	37.88	49.5	37	27	M5	1,002.98	306
	BT40	8	200	18	38.90	49.5	37	27	M6	1,002.98	308
	BT40	10	200	20	40.57	49.5	41	31	M8x1	1,002.98	310
BT40	12	200	22	42.18	49.5	46	36	M10x1	1,002.98	312	

→ Min. clamping depth, Page 300



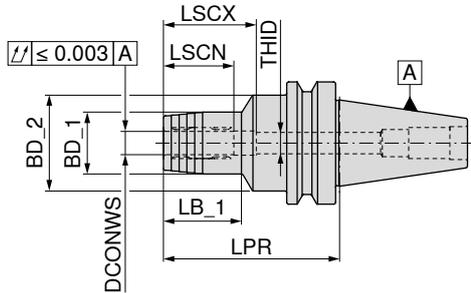
Spare parts for Article no.	83 950 ...		80 397 ...		83 950 ...		83 950 ...	
	£	Y7	£	Y7	£	Y7	£	Y7
83 522 103								
83 522 104								
83 522 105								
83 522 106								
83 522 108								
83 522 110								
83 522 112								
83 522 116								
83 522 120								
83 522 206								
83 522 208								
83 522 210								
83 522 212								
83 522 306								
83 522 308								
83 522 310								
83 522 312								

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

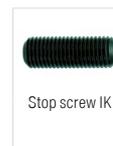
83 521 ...

Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	£ Y8	
BT 40	6	90	26	49.5	37	27	29	M5	690.96	106
BT 40	8	90	28	49.5	37	27	30	M6	690.96	108
BT 40	10	90	30	49.5	41	31	35	M8x1	690.96	110
BT 40	12	90	32	49.5	46	36	40	M10x1	604.01	112
BT 40	16	90	38	49.5	49	39	45	M12x1	690.96	116
BT 40	20	90	42	49.5	51	41	47	M16x1	604.01	120
BT 40	25	90	55	52.0	57	47	50	M16x1	690.96	125
BT 40	32	90	63	62.0	61	51	48	M16x1	690.96	132
BT 50	6	90	26	49.5	37	27	29	M5	967.02	306
BT 50	8	90	28	49.5	37	27	30	M6	967.02	308
BT 50	10	90	30	49.5	41	31	34	M8x1	967.02	310
BT 50	12	90	32	49.5	46	36	34	M10x1	878.56	312
BT 50	16	90	38	49.5	49	39	35	M12x1	967.02	316
BT 50	20	90	42	49.5	51	41	35	M16x1	878.56	320
BT 50	25	110	55	63.0	57	47	48	M16x1	967.02	325
BT 50	32	110	63	70.0	61	51	50	M16x1	967.02	332

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK



Stop screw IK

Spare parts	83 950 ...		83 950 ...		83 950 ...	
	£ Y7		£ Y7		£ Y7	
DCONWS						
6		M8x1x10 13.73 439			M5x12,5 - SW2,5 19.83 418	
8		M8x1x10 13.73 439	M6x14 - SW2 19.83 417		M6x12,5 - SW3 19.83 419	
10		M10x1x12 13.73 440			M8x1x13,5 - SW3 19.83 420	
12		M10x1x12 13.73 440			M10x1x13,5 - SW5 19.83 421	
16		M10x1x12 13.73 440			M12x1x13,5 - SW5 19.83 422	
20 - 32		M10x1x12 13.73 440			M16x1x13,5 - SW8 22.87 424	

Accessories

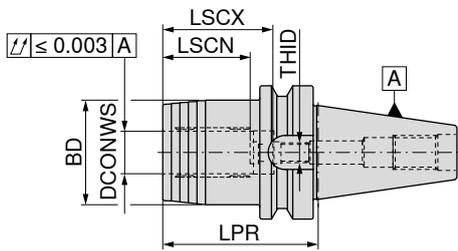
Reduction sleeve	Pull studs	Others
→ 271	→ 111-112	→ 273

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

83 518 ...

£
Y8

469.78 120

559.79 332

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	72.5	49.5	51	41	M16x1
BT 50	32	90.0	72.0	61	51	M16x1



83 950 ...

£
Y7

13.73 440

83 950 ...

£
Y7

22.87 424

Spare parts
DCONWS
20 - 32

M10x1x12

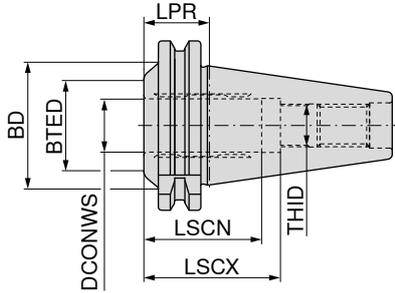
M16x1x13,5 - SW8

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 ...

£
Y8

549.50 120

→ Min. clamping depth, Page 300

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
BT 40	20	32.5	34	48	51	41	M16x1



Stop screw IK

83 950 ...

£
Y7

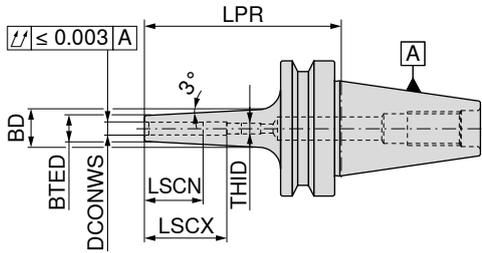
22.87 424

**Spare parts
for Article no.**
83 523 120

Shrink adapter, Slim 3°

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

TG

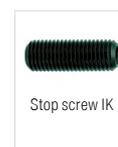


AD/B
G 2,5 n_{max} 25000

84 323 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£	
short	BT 40	3	90	9	15	28	12	M6	559.98	103
	BT 40	4	90	10	16	28	16	M6	544.85	104
	BT 40	5	90	11	17	30	20	M6	544.85	105
	BT 40	6	90	12	18	36	26	M5	484.29	106
	BT 40	8	90	14	20	36	26	M6	484.29	108
	BT 40	10	90	16	22	41	31	M8x1	484.29	110
	BT 40	12	90	18	24	47	37	M10x1	484.29	112
	BT 40	14	90	20	26	47	37	M10x1	484.29	114
	BT 40	16	90	22	28	50	40	M12x1	484.29	116
	BT 40	18	90	24	30	50	40	M12x1	484.29	118
BT 40	20	90	26	32	52	42	M16x1	484.29	120	
long	BT 40	3	120	9	16	12	12		624.28	203
	BT 40	4	120	10	17	16	16		612.94	204
	BT 40	5	120	11	18	20	20		612.94	205
	BT 40	6	120	12	21	36	26	M5	548.63	206
	BT 40	8	120	14	23	36	26	M6	548.63	208
	BT 40	10	120	16	25	41	31	M8x1	548.63	210
	BT 40	12	120	18	27	47	37	M10x1	548.63	212
	BT 40	14	120	20	29	47	37	M10x1	548.63	214
	BT 40	16	120	22	31	50	40	M12x1	548.63	216
	BT 40	18	120	24	33	50	40	M12x1	548.63	218
BT 40	20	120	26	35	52	42	M16x1	548.63	220	
extra-long	BT 40	3	160	9	19	12	12		703.74	303
	BT 40	4	160	10	20	16	16		692.39	304
	BT 40	5	160	11	21	20	20		692.39	305
	BT 40	6	160	12	24	36	26	M5	628.08	306
	BT 40	8	160	14	26	36	26	M6	628.08	308
	BT 40	10	160	16	28	41	31	M8x1	628.08	310
	BT 40	12	160	18	30	47	37	M10x1	628.08	312
	BT 40	14	160	20	32	47	37	M10x1	628.08	314
	BT 40	16	160	22	34	50	40	M12x1	628.08	316
	BT 40	18	160	24	36	50	40	M12x1	628.08	318
BT 40	20	160	26	38	52	42	M16x1	628.08	320	

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

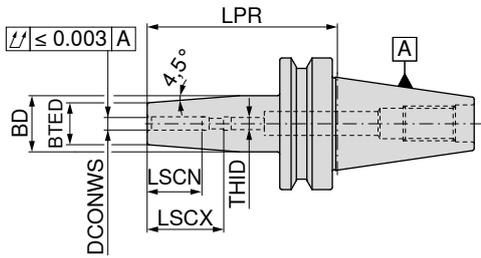
Spare parts
DCONWS

	£		£
3 - 5	Y7	M6x14 - SW2	Y7
6	19.83	417	19.83
8			19.83
10			19.83
12 - 14			19.83
16 - 18			19.83
20			22.87

Shrink fit adapters 4.5°

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

TG



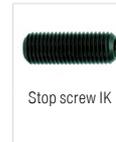
AD
G 2,5 n_{max} 25000

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

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	AD		AD/B		
									£		£		
short	BT 30	3	85	10	17	28	12	M6	563.76	003			
	BT 30	4	85	15	22	28	16	M6	544.85	004			
	BT 30	5	85	15	22	30	20	M6	544.85	005			
	BT 30	6	85	21	27	36	26	M5	484.29	006			
	BT 30	8	85	21	27	36	26	M6	484.29	008			
	BT 30	10	85	24	32	41	31	M8x1	484.29	010			
	BT 30	12	85	24	32	47	37	M10x1	484.29	012			
	BT 30	14	85	27	34	47	37	M10x1	484.29	014			
	BT 30	16	85	27	34	50	40	M12x1	484.29	016			
	BT 30	18	85	33	42	50	40	M12x1	484.29	018			
	BT 30	20	85	33	42	52	42	M16x1	484.29	020			
	BT 40	3	90	10	17	28	12	M6			266.36	103	
	BT 40	4	90	15	22	28	16	M6			258.88	104	
	BT 40	5	90	15	22	30	20	M6			258.88	105	
	BT 40	6	90	21	27	36	26	M5			227.83	106	
	BT 40	8	90	21	27	36	26	M6			227.83	108	
	BT 40	10	90	24	32	41	31	M8x1			227.83	110	
	BT 40	12	90	24	32	47	37	M10x1			227.83	112	
	BT 40	14	90	27	34	47	37	M10x1			227.83	114	
	BT 40	16	90	27	34	50	40	M12x1			227.83	116	
	BT 40	18	90	33	42	50	40	M12x1			227.83	118	
	BT 40	20	90	33	42	52	42	M16x1			227.83	120	
	BT 40	25	100	44	53	58	48	M16x1			227.83	125	
long													
		BT 40	3	120	10	20	12	12				298.95	203
		BT 40	4	120	15	22	16	16				291.46	204
		BT 40	5	120	15	22	20	20				291.46	205
		BT 40	6	120	21	27	36	26	M5			260.42	206
		BT 40	8	120	21	27	36	26	M6			260.42	208
		BT 40	10	120	24	32	41	31	M8x1			260.42	210
		BT 40	12	120	24	32	47	37	M10x1			260.42	212
		BT 40	14	120	27	34	47	37	M10x1			260.42	214
		BT 40	16	120	27	34	50	40	M12x1			260.42	216
		BT 40	18	120	33	42	50	40	M12x1			260.42	218
		BT 40	20	120	33	42	52	42	M16x1			260.42	220
	BT 40	25	120	44	53	58	48	M16x1			260.42	225	
extra-long													
		BT 40	3	160	10	20	12	12				338.87	303
		BT 40	4	160	15	22	16	16				331.38	304
		BT 40	5	160	15	22	20	20				331.38	305
		BT 40	6	160	21	27	36	26	M5			300.36	306
		BT 40	8	160	21	27	36	26	M6			300.36	308
		BT 40	10	160	24	32	41	31	M8x1			300.36	310
		BT 40	12	160	24	32	47	37	M10x1			300.36	312
		BT 40	14	160	27	34	47	37	M10x1			300.36	314
		BT 40	16	160	27	34	50	40	M12x1			300.36	316
		BT 40	18	160	33	42	50	40	M12x1			300.36	318
		BT 40	20	160	33	42	52	42	M16x1			300.36	320
	BT 40	25	160	44	53	58	48	M16x1			300.36	325	

→ Min. clamping depth, Page 300

Spare parts heat shrink adapter 4.5°

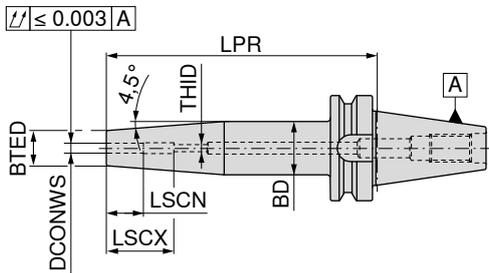


Spare parts DCONWS		83 950 ...		83 950 ...	
		£ Y7		£ Y7	
3 - 5	M6x14 - SW2	19.83	417		
6				M5x12,5 - SW2,5	19.83 418
8				M6x12,5 - SW3	19.83 419
10				M8x1x13,5 - SW3	19.83 420
12 - 14				M10x1x13,5 - SW5	19.83 421
16 - 18				M12x1x13,5 - SW5	19.83 422
20 - 25				M16x1x13,5 - SW8	22.87 424

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 ...

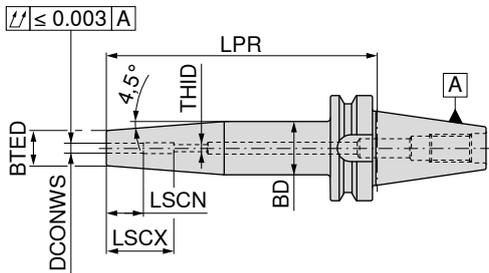
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID		£ Y8	
short	BT 40	3	90	11	15					241.73	10369
	BT 40	4	90	11	15					231.90	10469
	BT 40	5	90	11	15					231.90	10569
	BT 40	6	90	21	27	36	26	M5		208.09	10669
	BT 40	8	90	21	27	36	26	M6		208.09	10869
	BT 40	10	90	24	34	41	31	M8x1		208.09	11069
	BT 40	12	90	24	34	46	36	M10x1		208.09	11269
	BT 40	14	90	27	34	46	36	M10x1		208.09	11469
	BT 40	16	90	27	34	49	39	M12x1		208.09	11669
	BT 40	18	90	33	42	49	39	M12x1		208.09	11869
	BT 40	20	90	33	42	51	41	M16x1		208.09	12069
	BT 40	25	100	44	53	57	47	M16x1		208.09	12569
short	BT 50	6	100	21	27	36	26	M5		221.45	10668
	BT 50	8	100	21	27	36	26	M6		221.45	10868
	BT 50	10	100	24	32	41	31	M8x1		221.45	11068
	BT 50	12	100	24	32	47	37	M10x1		221.45	11268
	BT 50	14	100	27	34	47	37	M10x1		221.45	11468
	BT 50	16	100	27	34	50	40	M12x1		221.45	11668
	BT 50	18	100	33	42	50	40	M12x1		221.45	11868
	BT 50	20	100	33	42	52	42	M16x1		221.45	12068
	BT 50	25	100	44	53	58	48	M16x1		221.45	12568
	BT 50	32	100	44	53	62	52	M16x1		221.45	13268
long	BT 50	6	120	21	27	36	26	M5		243.18	20668
	BT 50	8	120	21	27	36	26	M6		243.18	20868
	BT 50	10	120	24	32	41	31	M8x1		243.18	21068
	BT 50	12	120	24	32	47	37	M10x1		243.18	21268
	BT 50	14	120	27	34	47	37	M10x1		243.18	21468
	BT 50	16	120	27	34	50	40	M12x1		243.18	21668
	BT 50	18	120	33	42	50	40	M12x1		243.18	21868
	BT 50	20	120	33	42	52	42	M16x1		243.18	22068
	BT 50	25	120	44	53	58	48	M16x1		243.18	22568
	BT 50	32	120	44	53	62	52	M16x1		243.18	23268

→ 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
G 2,5 n_{max} 18000

82 310 ...

£
Y8

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID		
		mm	mm	mm	mm	mm	mm		£	
extra-long	BT 40	6	160	21	27	36	26	M5	269.51	30669
	BT 40	8	160	21	27	36	26	M6	269.51	30869
	BT 40	10	160	24	34	41	31	M8x1	269.51	31069
	BT 40	12	160	24	34	46	36	M10x1	269.51	31269
	BT 40	14	160	27	34	46	36	M10x1	269.51	31469
	BT 40	16	160	27	34	49	39	M12x1	269.51	31669
	BT 40	18	160	33	42	49	39	M12x1	269.51	31869
	BT 40	20	160	33	42	51	41	M16x1	269.51	32069
	BT 40	25	160	44	53	57	47	M16x1	269.51	32569
	BT 50	6	160	21	27	36	26	M5	270.11	30668
	BT 50	8	160	21	27	36	26	M6	270.11	30868
	BT 50	10	160	24	32	41	31	M8x1	270.11	31068
	BT 50	12	160	24	32	47	37	M10x1	270.11	31268
	BT 50	14	160	27	34	47	37	M10x1	270.11	31468
	BT 50	16	160	27	34	50	40	M12x1	270.11	31668
	BT 50	18	160	33	42	50	40	M12x1	270.11	31868
	BT 50	20	160	33	42	52	42	M16x1	270.11	32068
	BT 50	25	160	44	53	58	48	M16x1	270.11	32568
	BT 50	32	160	44	53	62	52	M16x1	270.11	33268

→ Min. clamping depth, Page 300



Stop screw IK

Spare parts
DCONWS

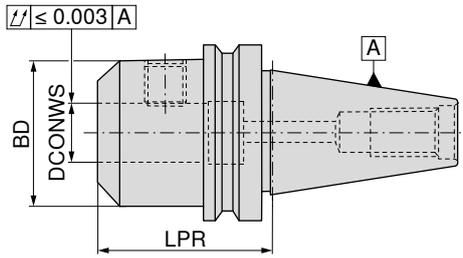
		£	
		Y8	
6	M5x16 - SW2,5	3.99	30000
8	M6x16 - SW3	4.25	30100
10	M8x1x16 - SW4	4.52	30200
12 - 14	M10x1x14 - SW5	4.78	30300
16 - 18	M12x1x16 - SW6	5.05	30400
20 - 32	M16x1x16 - SW8	5.31	30500

82 950 ...

£
Y8

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

82 501 ...

£
Y8
88.26 00600
86.07 00800
86.07 01000
86.07 01200
86.07 01400
86.07 01600
86.07 01800
86.07 02000



ADe
G 6,3 n_{\max} 8000

82 503 ...

£
Y8
184.74 416
184.74 420
196.75 425
184.25 432

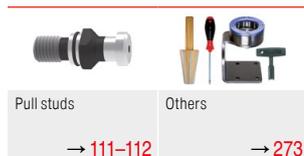
	Adapter	DCONWS _{H4} mm	LPR mm	BD mm			
short	BT 30	6	50	25			
	BT 30	8	50	28			
	BT 30	10	50	35			
	BT 30	12	55	42			
	BT 30	14	55	44			
	BT 30	16	63	48			
	BT 30	18	63	50			
	BT 30	20	63	52			
extra short	BT 40	16	35	48	129.64	416	184.74 416
	BT 40	20	35	50	129.64	420	184.74 420
	BT 40	25	40	50	142.01	425	196.75 425
	BT 40	32	75	72	128.73	43200	184.25 432



62 950 ...

Spare parts		£	
DCONWS _{H4}		W7	
6	M6x10	0.91	006
8	M8x10	0.91	008
10	M10x12	1.75	010
12 - 14	M12x16	1.39	012
16 - 18	M14x16	1.71	016
20	M16x16	1.83	020
25	M18x2x20	3.53	025
32	M20x2x20	3.69	032

Accessories



Pull studs

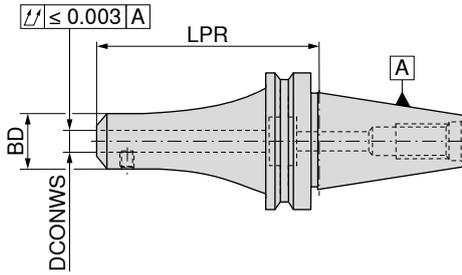
Others

→ 111-112

→ 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

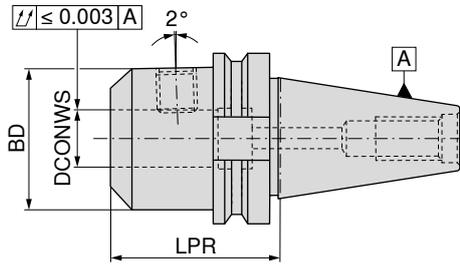


AD/Be
G 2,5 n_{max} 18000

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	82 501 ...		82 504 ...	
					£	Y8	£	Y8
short	BT 40	6	50	25	88.28	106	126.13	106
	BT 40	8	50	28	88.28	108	126.13	108
	BT 40	10	63	35	88.28	110	126.13	110
	BT 40	12	63	42	88.28	112	126.13	112
	BT 40	14	63	44	88.28	114	126.13	114
	BT 40	16	63	48	88.28	116	126.13	116
	BT 40	18	63	50	88.28	118	126.13	118
	BT 40	20	63	52	88.28	120	126.13	120
	BT 40	25	100	65	88.28	125	126.13	125
	BT 40	32	100	72	100.91	132	126.13	132000
	BT 40	40	120	90	88.28	14000		
	BT 50	6	63	25	119.05	30600	190.33	30600
	BT 50	8	63	28	119.05	30800	190.33	30800
	BT 50	10	80	35	114.59	31000	175.29	31000
BT 50	12	80	42	114.59	31200	175.29	31200	
BT 50	14	80	44	114.59	31400	175.29	31400	
BT 50	16	80	48	114.59	31600	191.92	31600	
BT 50	18	80	50	114.59	31800	191.92	31800	
BT 50	20	80	52	114.59	32000	191.92	32000	
BT 50	25	100	65	126.12	32500	205.65	32500	
BT 50	32	105	72	127.41	33200	216.52	33200	
BT 50	40	120	90	133.06	34000			
long	BT 40	6	100	25	94.58	506		
	BT 40	8	100	28	94.58	508		
	BT 40	10	100	35	94.58	510		
	BT 40	12	100	42	94.58	512		
	BT 40	14	100	44	94.58	514		
	BT 40	16	100	48	129.64	516		
	BT 40	18	100	50	94.58	518		
	BT 40	20	100	52	129.64	520		
	BT 50	6	100	25	174.03	70600		
	BT 50	8	100	28	174.03	70800		
	BT 50	10	100	35	166.50	71000		
	BT 50	12	100	42	166.50	71200		
	BT 50	14	100	44	166.50	71400		
	BT 50	16	100	48	166.96	71600		
BT 50	18	100	50	166.96	71800			
BT 50	20	100	52	166.96	72000			
BT 50	25	120	65	178.64	72500			
extra-long	BT 40	6	160	25	100.91	606		
	BT 40	8	160	28	100.91	608		
	BT 40	10	160	35	100.91	610		
	BT 40	12	160	42	100.91	612		
	BT 40	14	160	44	100.91	614		
	BT 40	16	160	48	100.91	616		
	BT 40	18	160	50	100.91	618		
	BT 40	20	160	52	100.91	620		
	BT 40	25	160	65	100.91	625		
	BT 50	6	160	25	191.33	80600		
	BT 50	8	160	28	191.33	80800		
	BT 50	10	160	35	183.57	81000		
	BT 50	12	160	35	183.57	81200		
	BT 50	14	160	44	183.57	81400		
BT 50	16	160	48	184.52	81600			
BT 50	18	160	50	184.52	81800			
BT 50	20	160	52	184.52	82000			
BT 50	25	160	65	195.70	82500			
BT 50	32	160	72	199.11	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**



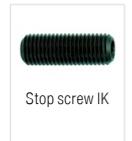
AD/B
G 2,5 n_{max} 18000

82 507 ...

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	£		
					Y8		
short	BT 40	6	50	25	132.35	106	
	BT 40	8	50	28	132.35	108	
	BT 40	10	63	35	122.58	110	
	BT 40	12	63	42	122.58	112	
	BT 40	14	63	44	122.58	114	
	BT 40	16	63	48	135.05	116	
	BT 40	18	63	50	135.05	118	
	BT 40	20	63	52	135.05	120	
	BT 40	25	100	65	144.76	12500	
	BT 40	32	100	72	157.72	13200	
	BT 40	40	120	80	140.91	14000	
	medium length	BT 50	6	63	25	193.50	30600
BT 50		8	63	28	193.50	30800	
BT 50		10	80	35	184.57	31000	
BT 50		12	80	42	184.57	31200	
BT 50		14	80	44	184.57	31400	
BT 50		16	80	48	185.69	31600	
BT 50		18	80	50	185.69	31800	
BT 50		20	80	52	185.69	32000	
BT 50		25	100	65	202.94	32500	
BT 50		32	105	72	206.60	33200	
medium length		BT 40	6	130	25	141.39	206
		BT 40	8	130	28	141.39	208
	BT 40	10	130	35	132.32	210	
	BT 40	12	130	42	132.32	212	
	BT 40	16	130	48	142.26	216	
	BT 40	20	130	52	142.26	220	
	BT 40	25	130	65	169.96	225	
	BT 50	6	130	25	222.25	90600	
	BT 50	8	130	28	222.25	90800	
	BT 50	10	130	35	210.24	91000	
	BT 50	12	130	42	210.24	91200	
	BT 50	16	130	48	211.11	91600	
BT 50	20	130	52	211.11	92000		
BT 50	25	130	65	223.14	92500		
BT 50	32	130	72	225.57	93200		

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

Spare parts DCONWS		62 950 ...		83 950 ...	
		£ W7		£ Y8	
6	M6x10	0.91	006	M5x35	3.19 033
8	M8x10	0.91	008	M6x35	2.16 034
10	M10x12	1.75	010	M8x35	2.30 035
12 - 14	M12x16	1.39	012	M10x35	3.14 036
16 - 18	M14x16	1.71	016	M12x40	2.80 037
20	M16x16	1.83	020	M16x45	2.71 272
25	M18x2x20	3.53	025	M20x35	4.80 290
32	M20x2x20	3.69	032	M20x35	4.80 290
40	M20x2x20	3.69	032		

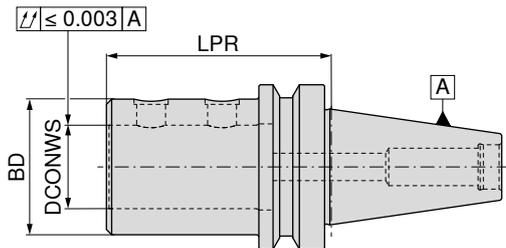


Accessories

	
Pull studs	Others
→ 111-112	→ 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

10 841 ...

Adapter	DCONWS mm	LPR mm	BD mm	£	
BT 40	20	75	40	2E/45	
BT 40	25	80	45	123.43	120
BT 40	32	85	52	123.43	125
BT 50	20	85	40	156.83	132
BT 50	25	90	45	156.83	220
BT 50	32	95	52	156.83	225
BT 50	40	105	65	156.83	232
BT 50	50	113	75	156.83	240
				156.83	250

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



Grubscrew

10 950 ...

Spare parts	DCONWS	£	
20		2A/28	
25-32	M10x1x10	3.66	001
40-50	M12x1x10	3.66	002
	M16x1x12	3.66	003

Accessories

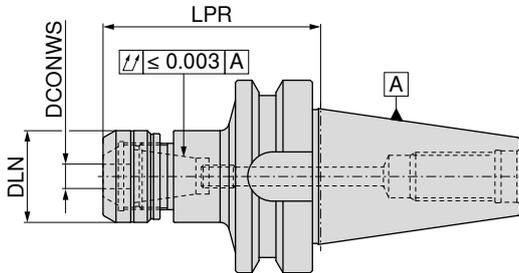
Pull studs	Others
→ 111-112	→ 273

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	£ Y8	
BT 40	1 - 10	70	30	426E (ER16)	40 / 2-70	179.07	11069
BT 40	1 - 10	100	30	426E (ER16)	40 / 2-70	257.95	21069
BT 40	2 - 16	70	40	430E (ER25)	80 / 10-160	179.07	11669
BT 40	2 - 16	100	40	430E (ER25)	80 / 10-160	257.95	21669
BT 40	2 - 20	70	50	470E (ER32)	125 / 15-250	179.07	12069
BT 40	2 - 20	100	50	470E (ER32)	125 / 15-250	257.95	22069
BT 50	2 - 16	80	40	430E (ER25)	80 / 10-160	337.35	11668
BT 50	2 - 16	100	40	430E (ER25)	80 / 10-160	418.95	21668
BT 50	2 - 20	80	50	470E (ER32)	125 / 15-250	337.35	12068
BT 50	2 - 20	100	50	470E (ER32)	125 / 15-250	418.95	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

Spare parts for collet	Lock nut IK		Lock nut		Backstop screw PCC 2		Backstop screw PCC 1	
	£ Y8		£ Y8		£ Y8		£ Y8	
426E (ER16)	68.07	11000	64.14	01000			M8X3,0	6.41 00100
430E (ER25)	68.07	11600	64.14	01600	M18x1,5	8.72 00200	M8x8	6.41 00300
470E (ER32)	68.07	12000	64.14	02000	M18x1,5	8.72 00200	M8x8	6.41 00300

Accessories



→ 256-266

→ 270

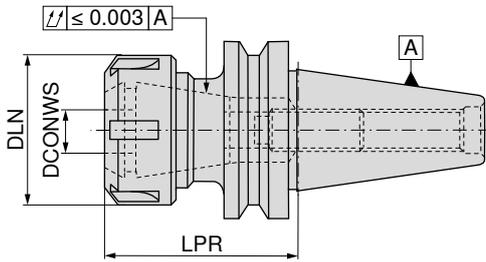
→ 275

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	£		£		
short	BT 30	1 - 10	70	32	56	426E (ER16)	112.42	01000			
	BT 30	1 - 16	70	42	104	430E (ER25)	112.42	01600			
	BT 30	2 - 20	70	50	136	470E (ER32)	112.42	02000			
	BT 40	1 - 10	60	32	56	426E (ER16)			88.28	110	
	BT 40	1 - 16	70	42	104	430E (ER25)			92.57	116	
	BT 40	2 - 20	70	50	136	470E (ER32)			92.57	120	
	BT 40	3 - 26	70	63	176	472E (ER40)			97.71	126	
	BT 50	1 - 10	75	32	56	426E (ER16)	186.69	31000			
	BT 50	1 - 16	75	42	104	430E (ER25)	167.33	31600			
	BT 50	2 - 20	75	50	136	470E (ER32)	150.01	32000			
	BT 50	4 - 26	75	63	176	472E (ER40)	153.08	32600			
	long	BT 30	1 - 10	100	32	56	426E (ER16)	132.18	21000		
BT 30		1 - 16	100	42	104	430E (ER25)	132.18	21600			
BT 40		1 - 10	120	32	56	426E (ER16)			100.91	410	
BT 40		1 - 16	120	42	104	430E (ER25)			100.91	416	
BT 40		2 - 20	120	50	136	470E (ER32)			100.91	420	
BT 40		3 - 26	100	63	176	472E (ER40)			143.81	42600	
BT 50		1 - 10	100	32	56	426E (ER16)	189.34	71000			
BT 50		1 - 16	100	42	104	430E (ER25)	175.22	71600			
BT 50		2 - 20	100	50	136	470E (ER32)	187.93	72000			
BT 50		3 - 26	100	63	176	472E (ER40)	197.68	72600			
extra-long		BT 40	1 - 10	160	32	56	426E (ER16)			154.72	51000
		BT 40	1 - 16	160	42	104	430E (ER25)			192.79	51600
	BT 40	2 - 20	160	50	136	470E (ER32)			209.27	52000	
	BT 40	3 - 26	160	63	176	472E (ER40)			161.24	52600	
	BT 50	1 - 16	160	42	104	430E (ER25)	194.40	81600			
	BT 50	2 - 20	160	50	136	470E (ER32)	214.76	82000			

Spare parts for collet

	£		£		£		£	
426E (ER16) / BT30-BT50	68.61	054	21.20	054	23.31	116		
430E (ER25) / BT30	79.92	055	22.08	055	23.31	125	2.80	010
430E (ER25) / BT40, BT50	79.92	055	22.08	055	23.31	125	2.80	010
470E (ER32) / BT30	85.48	056	22.64	056	33.95	132	2.80	010
470E (ER32) / BT40, BT50	85.48	056	22.64	056	33.95	132	2.80	010
472E (ER40) / BT30-BT50	102.87	057	23.45	057	38.47	140	2.71	011

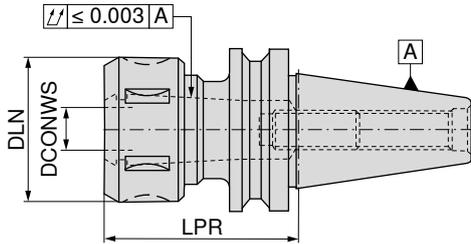


83 950 ... 62 950 ... 83 357 ... 83 950 ...

£		£		£		£	
Y8		W7		Y8		Y8	

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			
short	BT 30	2-16	60	43	24-104	415E / 421E	£		
	BT 30	2-25	80	60	24-176	459E / 462E	Y8		
							119.12	02500	
							125.29	03500	
	BT 40	2-16	70	43	80-90	415E / 421E		140.12	116
	BT 40	2-25	70	60	90-100	459E / 462E		147.18	125
long	BT 50	2-25	90	60	90-100	459E / 462E	182.75	32500	
	BT 50	4-32	100	72	110-120	460E / 467E	203.69	33200	
	BT 40	2-16	120	43	80-90	415E / 421E		199.58	416
	BT 40	2-25	120	60	90-100	459E / 462E		208.27	425
	BT 50	2-25	120	60	90-100	459E / 462E	233.97	72500	
	BT 50	4-32	120	72	110-120	460E / 467E	256.81	73200	

Spare parts for collet

		£		£		£	
415E / 421E	M33x1,5	37.10	050	23.31	116	2.80	010
459E / 462E	M48x2	38.72	051	18.68	125	2.80	010
460E / 467E	M60x2,5	63.47	052	27.43	132	2.71	011

Accessories

OZ Collet	Pull studs	Others
→ 268	→ 111-112	→ 273



Lock nut

62 950 ...

£

W7



Hook clamping key

83 354 ...

£

Y8



Stop screw IK

83 950 ...

£

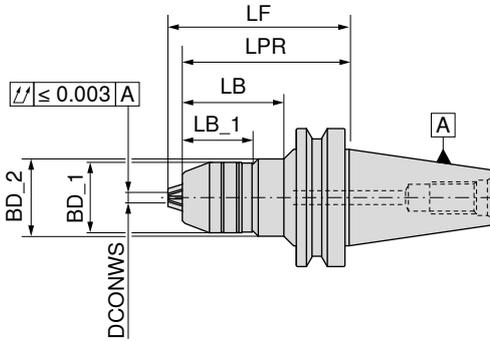
Y8

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

84 509 ...

£
Y8

443.50 413



AD
G 6,3 n_{max} 10000

84 510 ...

£
Y8

402.37 413



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

84 511 ...

£
Y8

531.96 413

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm
BT 40	0,5 - 13	48.5		50.9		80	89.0
BT 40	0,5 - 13	48.5		50.9		90	99.0
BT 40	2,5 - 16	51.0		50.9		80	90.5
BT 50	2,5 - 16	51.0	56	50.9	73	120	130.5

£		£		£	
443.50	413	402.37	413	531.96	413
367.52	416	395.13	416		
522.96	516	550.55	516		

Accessories



Pull studs
→ 111-112

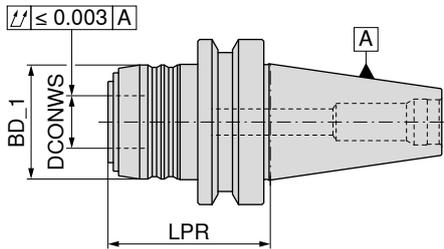


Others
→ 273

 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	£	
BT 40	M3 - M12	1	61	43	20	1,0 / 0,2	286.31	012
BT 40	M6 - M20	2	82	60	32	1,0 / 0,2	371.40	020
BT 50	M3 - M12	1	72	43	20	1,0 / 0,2	311.02	112
BT 50	M6 - M20	2	93	60	32	1,0 / 0,2	481.38	120

Accessories

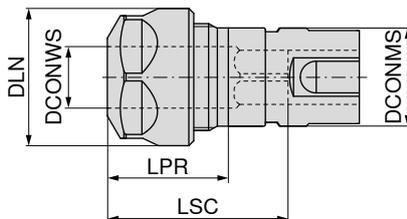


Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



83 608 ...

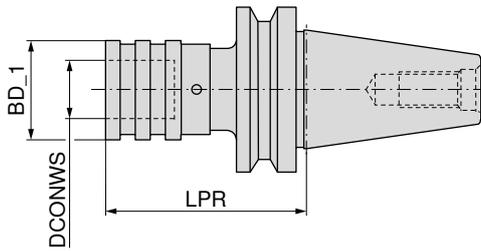
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	£	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020

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.	£ W7	£ Y8	£ W7	£ Y8
83 608 012	M22x1,5 - SW25 26.65 044	M22x1,5 68.61 054		23.31 116
83 608 020		M32x1,5 79.92 055	M32x1,5 22.08 055	23.31 125

Quick change tap chuck with length compensation

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



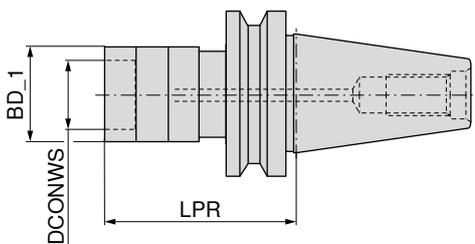
A

83 528 ...

Adapter	cutting range	SZID	LPR	BD_1	DCONWS	LZD±	£	
BT 30	M3 - M12	01	63	38	19	9	486.86	312
BT 30	M6 - M20	02	96	55	31	15	610.56	320
BT 40	M3 - M12	01	68	38	19	9	390.64	412
BT 40	M6 - M20	02	93	55	31	15	405.28	420
BT 50	M3 - M12	01	80	38	19	9	654.64	512
BT 50	M6 - M20	02	102	55	31	15	753.64	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	BD_1	DCONWS	£	
BT 40	M3 - M12	01	67	33	19	354.94	412
BT 40	M6 - M20	02	90	50	31	363.32	420
BT 50	M3 - M12	01	78	33	19	473.14	512
BT 50	M6 - M20	02	101	50	31	473.14	520

Accessories

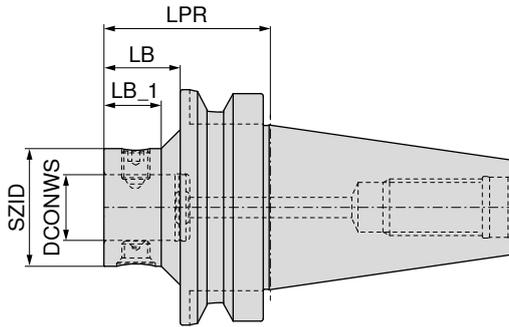
		
Collet	Pull studs	Others
→ 277-281	→ 111-112	→ 273

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 ...		84 212 ...	
							£		£	
BT 40	A55 00120	ABS 25	13	60	33	25	713.35	04090		
BT 40	A55 00130	ABS 32	16	60	33		713.35	04089		
BT 40	A55 00140	ABS 40	20	60	33		713.35	04088		
BT 40	A55 00150	ABS 50	28	60	33		332.57	04097		
BT 40	A55 55150	ABS 50	28	60	33				792.18	04097
BT 40	A55 00160	ABS 63	34	70			724.00	04096		
BT 40	A55 55160	ABS 63	34	70					885.75	04096
BT 50	A55 00330	ABS 32	16	70	32	24	815.52	05089		
BT 50	A55 00340	ABS 40	20	70	32	24	815.52	05088		
BT 50	A55 00350	ABS 50	28	70	32	24	380.19	05097		
BT 50	A55 55350	ABS 50	28	70	32	24			926.29	05097
BT 50	A55 55360	ABS 63	34	80	42	37			1,000.82	05096
BT 50	A55 00360	ABS 63	34	80	42	37	826.17	05096		
BT 50	A55 55370	ABS 80	46	100	62				1,032.76	05092
BT 50	A55 00370	ABS 80	46	100	62		841.11	05092		
BT 50	A55 55380	ABS 100	56	110					1,056.10	05091
BT 50	A55 00380	ABS 100	56	110			930.59	05091		

Conversion kit – Cooling agent supply



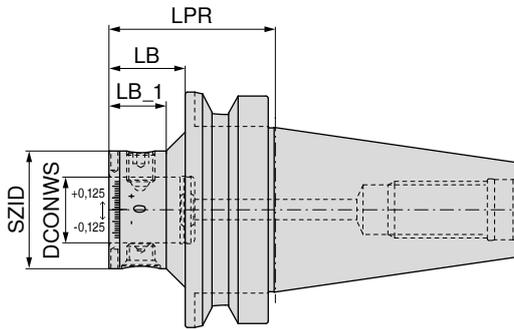
for		84 950 ...
		£
4 mm	SK 40	5.75 23200
6 mm	SK 50	5.75 23400

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

84 205 ...

£
W4

646.22 04096

739.89 05096

84 205 ...

£
W4

502.04 04097

563.17 05097

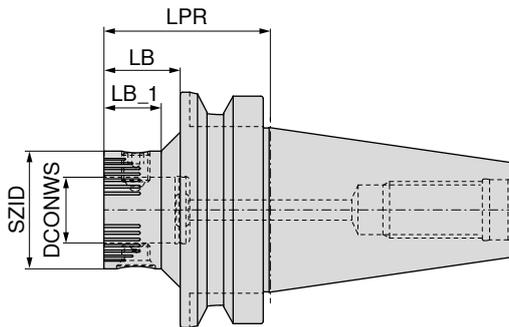
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm
BT 40	A55 56150	ABS 50	28	60	33	
BT 40	A55 56160	ABS 63	34	70		
BT 50	A55 56350	ABS 50	28	70	32	24
BT 50	A55 56360	ABS 63	34	80	42	37

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



84 208 ...
£ 3E
714.77 04097
2,005.94 04096
864.62 05097
667.22 05096

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	
BT 40	A55 02150	ABS 50	28	60	33		
BT 40	A55 02160	ABS 63	34	70			
BT 50	A55 02350	ABS 50	28	70	32	24	
BT 50	A55 02360	ABS 63	34	80	42	37	

Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
£ XX	£ XX	£ XX
8.63 20300	19.57 99800	10.97 20400
8.22 25500	18.45 99400	10.42 27300

Spare parts

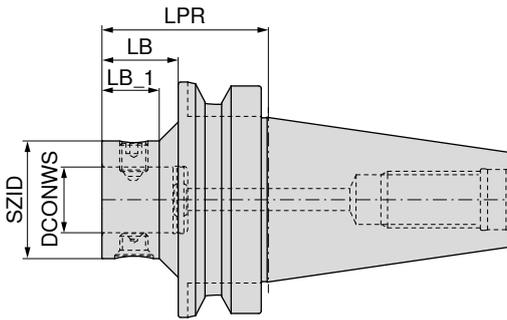
SZID			
ABS 50	8.63	20300	19.57 99800
ABS 63	8.22	25500	10.42 27300

Accessories

Pull studs	Extension	Others
→ 111-112	→ 193	→ 273

Adapter with ABS Connection – BT-FC

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



NEW



AD

84 214 ...

Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	LB_1 mm	£ 3E	
BT-FC 40	A55 57121	ABS 25	13	60	33	25	1,175.48	04090
BT-FC 40	A55 57131	ABS 32	16	60	33		1,175.48	04089
BT-FC 40	A55 57141	ABS 40	20	60	33		1,175.48	04088
BT-FC 40	A55 57151	ABS 50	28	60	33		1,175.48	04097
BT-FC 40	A55 57161	ABS 63	34	70			1,209.46	04096
BT-FC 50	A55 57331	ABS 32	16	70		24	1,362.82	05089
BT-FC 50	A55 57341	ABS 40	20	70		24	1,362.82	05088
BT-FC 50	A55 57351	ABS 50	28	70		24	1,362.82	05097
BT-FC 50	A55 57361	ABS 63	34	80		37	1,386.16	05096
BT-FC 50	A55 57371	ABS 80	46	100	60		1,443.70	05092
BT-FC 50	A55 57381	ABS 100	56	110			1,550.17	05091

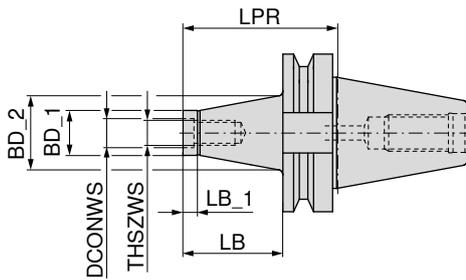
Spare parts
SZID

	£ XX	£ XX	£ XX	£ XX
ABS 25		5.68 26800	13.77 99700	8.22 27000
ABS 32	9.47 13989		13.77 99600	8.22 27100
ABS 40		6.43 26900	14.92 99500	8.54 27200
ABS 50		8.63 20300	19.57 99800	10.97 20400
ABS 63		8.22 25500	18.45 99400	10.42 27300
ABS 80		10.10 25600	22.38 99300	12.30 25100
ABS 100		12.45 25700	26.03 99200	13.65 25200

Clamping screw	Clamping screw	Set	Taper screw
62 950 ...	84 950 ...	84 950 ...	84 950 ...
£ XX	£ XX	£ XX	£ XX

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



AD
G 6,3 n_{max} 18000

56 711 ...

Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	£	
		mm	mm	mm	mm	mm	mm	WA	
BT 40	M8	8.5	25	13.8	15	12	52	202.78	081
BT 40	M8	8.5	50	13.8	23	12	77	207.74	082
BT 40	M8	8.5	75	13.8	25	12	102	212.54	083
BT 40	M10	10.5	25	18.0	23	12	52	202.78	101
BT 40	M10	10.5	50	18.0	25	12	77	207.74	102
BT 40	M10	10.5	75	18.0	30	12	102	212.54	103
BT 40	M12	12.5	25	21.0	24	12	52	202.78	121
BT 40	M12	12.5	50	21.0	30	12	77	207.74	122
BT 40	M12	12.5	75	21.0	35	12	102	212.54	123
BT 40	M12	12.5	100	21.0	38	12	127	217.49	124
BT 40	M16	17.0	25	29.0	29	12	52	202.78	161
BT 40	M16	17.0	50	29.0	34	12	77	207.74	162
BT 40	M16	17.0	75	29.0	35	12	102	212.54	163
BT 40	M16	17.0	100	29.0	40	12	127	217.49	164

Accessories

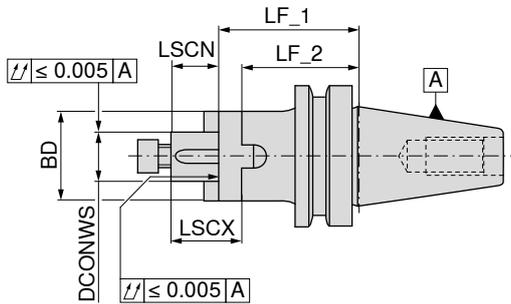
Extension-Reduction set → 245	Pull studs → 111-112	Others → 273

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



G 2,5 ρ_{max} 18000 G 6,3 ρ_{max} 8000

	Adapter	DCONWS mm	LF_1 mm	BD mm	LSCX mm	LSCN mm	LF_2 mm	
short	BT 30	16	45	32	27	17	35	
	BT 30	22	47	40	31	19	35	
	BT 30	27	49	46	33	21	37	
	BT 40	16	55	32	27	17	45	
	BT 40	22	55	40	31	19	43	
	BT 40	27	55	48	33	21	43	
	BT 40	32	60	58	38	24	46	
	BT 40	40	60	70	41	27	46	
	BT 50	16	70	32	27	17	60	
	BT 50	22	70	40	31	19	58	
	BT 50	27	70	48	33	21	58	
	BT 50	32	70	58	38	24	56	
	BT 50	40	70	70	41	27	56	
	long	BT 30	16	80	32	27	17	70
		BT 30	22	80	40	31	19	68
BT 30		27	90	48	33	21	78	
BT 40		16	100	32	27	17	90	
BT 40		22	100	40	31	19	88	
BT 40		27	100	48	33	21	88	
BT 40		32	100	58	38	24	86	
BT 40		40	100	70	41	27	86	

82 516 ...	82 516 ...
£	£
Y8	Y8
114.60 01600	
114.60 02200	
133.29 02700	
	148.47 116
	154.25 122
	157.43 127
	165.89 132
	174.86 140 ¹⁾
	204.66 216
	211.92 222
	229.37 227
	234.91 232
	243.47 240 ¹⁾
145.46 91600	
145.46 92200	
154.34 92700	
196.93 31600	
196.93 32200	
211.25 32700	
234.15 33200	
265.57 34000 ¹⁾	

1) With cross screw

Parallel key	Drive ring	Cross nut key	Retaining screw	clamping screw
83 950 ...	83 370 ...	83 368 ...	83 367 ...	83 950 ...
£	£	£	£	£
Y8	Y8	Y8	Y8	Y8
3.45 284	12.74 116	21.07 116	5.60 016	5.93 113
3.45 285	12.23 122	26.21 122	6.23 022	6.70 124
5.48 286	15.26 127	30.81 127	7.96 027	7.40 125
3.90 287	16.01 132	42.00 132	12.50 032	9.02 126
4.60 288	26.96 140	41.71 140	13.38 040	9.94 112

Spare parts

DCONWS

16	3.45	284
22	3.45	285
27	5.48	286
32	3.90	287
40	4.60	288

Accessories

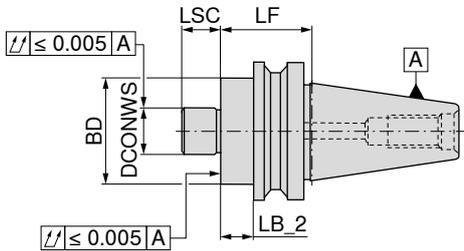
Pull studs	Milling Adapter Rings	Others
→ 111-112	→ 253	→ 273

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



G 2,5 n_{max} 18000

82 514 ...
£
Y8
01600
110.22 02200
125.66 02700
136.74 03200



G 6,3 n_{max} 8000

82 514 ...
£
Y8
168.40 316
174.03 322
178.16 327
194.16 332
198.16 340¹⁾



G 6,3 n_{max} 8000

82 514 ...
£
Y8
114.59 116
124.69 122
126.12 127
133.06 132
144.60 140¹⁾

123.14 416
130.23 422
133.06 427
140.12 432
148.71 440¹⁾

130.50 816
134.77 822
136.85 827
143.40 832
149.76 840¹⁾

168.85 516
174.03 522
176.62 527
184.98 532
192.74 540¹⁾

235.60 716
240.67 722
247.85 727
255.05 732
259.96 740¹⁾

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm				
short	BT 30	16	18	40	38	17				
	BT 30	22	18	40	48	19				
	BT 30	27	18	50	58	21				
	BT 30	32	28	50	78	24				
	BT 40	16	25	52	38	17			114.59 116	
	BT 40	22	25	52	48	19			124.69 122	
	BT 40	27	25	52	58	21			126.12 127	
	BT 40	32	23	50	78	24			133.06 132	
	BT 40	40	23	50	88	27			144.60 140 ¹⁾	
	BT 50	16	25	63	38	17		168.40 316		
	BT 50	22	25	63	48	19		174.03 322		
	BT 50	27	25	63	58	21		178.16 327		
long	BT 40	16	73	100	38	17			123.14 416	
	BT 40	22	73	100	48	19			130.23 422	
	BT 40	27	73	100	58	21			133.06 427	
	BT 40	32	73	100	78	24			140.12 432	
	BT 40	40	73	100	88	27			148.71 440 ¹⁾	
	BT 50	16	62	100	38	17		214.52 616		
	BT 50	22	62	100	48	19		219.72 622		
	BT 50	27	62	100	58	21		226.76 627		
	BT 50	32	62	100	78	24		233.97 632		
	BT 50	40	62	100	88	27		239.04 640 ¹⁾		
	medium length	BT 40	16	103	130	38	17			130.50 816
		BT 40	22	103	130	48	19			134.77 822
BT 40		27	103	130	58	21			136.85 827	
BT 40		32	103	130	78	24			143.40 832	
BT 40		40	103	130	88	27			149.76 840 ¹⁾	
BT 50		16	92	130	38	17		182.71 916		
BT 50		22	92	130	48	19		186.57 922		
BT 50		27	92	130	58	21		192.13 927		
BT 50		32	92	130	78	24		197.72 932		
BT 50		40	92	130	88	27		201.53 940 ¹⁾		
extra-long		BT 40	16	133	160	38	17			168.85 516
		BT 40	22	133	160	48	19			174.03 522
	BT 40	27	133	160	58	21			176.62 527	
	BT 40	32	133	160	78	24			184.98 532	
	BT 40	40	133	160	88	27			192.74 540 ¹⁾	
	BT 50	16	122	160	38	17		235.60 716		
	BT 50	22	122	160	48	19		240.67 722		
	BT 50	27	122	160	58	21		247.85 727		
	BT 50	32	122	160	78	24		255.05 732		
	BT 50	40	122	160	88	27		259.96 740 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 83 368 ...		 Retaining screw 83 367 ...		 clamping screw 83 950 ...	
Spare parts DCONWS		£		£		£	
		Y8		Y8		Y8	
16		21.07	116	5.60	016	5.93	113
22		26.21	122	6.23	022	6.70	124
27		30.81	127	7.96	027	7.40	125
32		42.00	132	12.50	032	9.02	126
40		41.71	140	13.38	040	9.94	112
Spare parts DCONWS				 Screw for drivers 83 950 ...		 Driver 83 950 ...	
		£		£		£	
		Y8		Y8		Y8	
	16		M3x8	1.02	296	14.34	120
	22		M4x12	1.33	297	14.81	121
	27		M5x12	1.37	136	16.33	122
	32		M5x20	1.45	137	16.50	123
	40		M6x16	1.65	138	21.97	295

Accessories

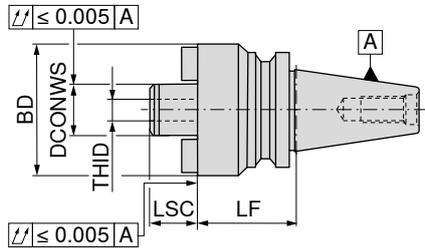
  		
Pull studs	Extensions	Others
→ 111-112	→ 252	→ 273

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

82 519 ...

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	THID	
BT 50	40	70	89	30	M20	£ Y8 322.60 240
BT 50	60	80	129	40	M30	£ Y8 395.15 260



Screw for drivers



Driver



Socket head screw



clamping screw

Spare parts		83 950 ...	83 950 ...	70 950 ...	83 950 ...
DCONWS		£ Y8	£ Y8	£ 2A/28	£ Y8
40	M6x16	1.65 138	21.97 295		7.39 140
60			24.77 298	M12x30 - SW10 8.06 181	15.19 160

Accessories



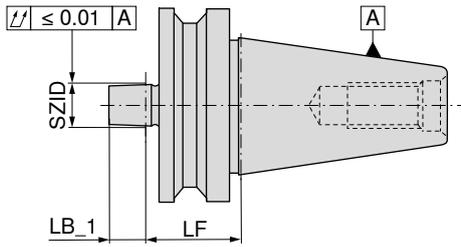
Pull studs
→ 111-112



Others
→ 273

Drill chuck adapter

▲ also available with Balluff chip on request



A
G 6,3 n_{max} 8000

82 513 ...	
£	
Y8	
94.77	01200
94.77	01600
108.16	112
124.01	116
87.89	11800
177.42	216
185.66	218

Adapter	SZID	LF mm	LB_1 mm
BT 30	B12	25	18.5
BT 30	B16	25	24.0
BT 40	B12	40	18.5
BT 40	B16	40	24.0
BT 40	B18	32	32.0
BT 50	B16	50	24.0
BT 50	B18	50	32.0



83 636 ...		83 636 ...	
£		£	
Y8		Y8	
154.05	012	182.16	112
218.33	016	178.26	116
		232.48	018

Spare parts

SZID	0 - 8 mm	012	0 - 10 mm	112
B12	154.05	012	182.16	112
B16	218.33	016	178.26	116
B18			232.48	018

Accessories

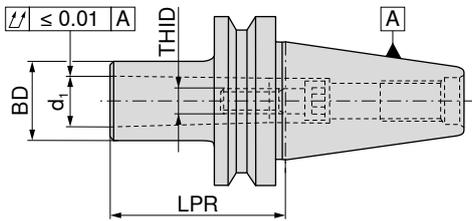
Pull studs	Others
→ 111-112	→ 273

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

82 527 ...

	Adapter	d ₁	LPR mm	BD mm	THID	£	
						Y8	
short	BT 40	MK1	50	25	M6	110.42	01000
	BT 40	MK2	55	32	M10	110.42	02000
	BT 40	MK3	70	40	M12	148.47	030
	BT 40	MK4	95	48	M16	154.25	040
	BT 50	MK1	45	25	M6	201.93	210
	BT 50	MK2	60	32	M10	196.75	220
	BT 50	MK3	65	40	M12	199.58	230
	BT 50	MK4	95	48	M16	207.00	240
	BT 50	MK5	118	63	M20	235.37	250



Morse taper clamping screw



Counterscrew



Hollow key with nose



Fixing ring

Spare parts for Article no.	83 950 ...		83 950 ...		83 359 ...		83 950 ...	
	£		£		£		£	
82 527 01000	0.96	260	0.79	030	36.27	013	10.65	265
82 527 02000	2.05	261	0.79	030	36.27	013	10.65	267
82 527 030	1.31	018	0.79	030	40.94	017	14.48	269
82 527 040	6.22	019	0.79	030	49.78	023	14.48	270
82 527 210	0.96	260	0.79	031	43.62	020	12.57	266
82 527 220	1.31	017	0.79	031	43.62	020	12.57	268
82 527 230	1.31	018	0.79	031	40.94	017	14.48	269
82 527 240	6.22	019	0.79	031	49.78	023	14.48	270
82 527 250	11.63	262	0.79	031	61.66	033	17.86	271

Accessories



Pull studs



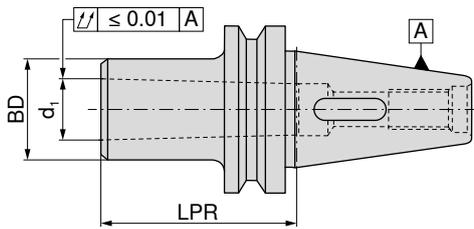
Others

→ 111-112

→ 273

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

82 525 ...

Adapter	d ₁	LPR	BD	£	
		mm	mm	Y8	
BT 30	MK1	50	25	115.69	01000
BT 30	MK2	60	32	105.87	02000
BT 30	MK3	77	40	105.87	03000
BT 40	MK1	50	25	100.44	110
BT 40	MK2	50	32	103.29	120
BT 40	MK3	70	40	110.45	130
BT 40	MK4	95	48	116.09	140
BT 50	MK1	45	25	126.12	210
BT 50	MK2	60	32	130.23	220
BT 50	MK3	65	40	179.39	230
BT 50	MK4	95	48	140.12	240
BT 50	MK5	105	63	153.08	250

Accessories

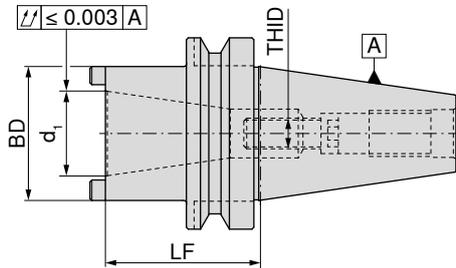
		
Morse taper adapter sleeve	Pull studs	Others
→ 230	→ 111–112	→ 273

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

82 518 ...

Adapter	d ₁	LF mm	BD mm	THID	£	
BT 40	SK 30	60	51	M12	203.75	10600
BT 40	SK 40	100	63	M16	203.75	11000
BT 50	SK 40	80	70	M16	320.01	250

Spare parts for Article no.

Article no.	Clamping screw SK	Morse taper clamping screw	Counterscrew	Hollow key with nose	Fixing ring
82 518 10600	£ Y8	£ Y8	£ Y8	£ Y8	£ Y8
82 518 11000	10.42	4.97	0.79	40.94	6.10
82 518 250	10.42		0.79	49.78	14.48

83 950 ...	83 950 ...	83 950 ...	83 359 ...	83 950 ...
£ Y8				
	18400	030	017	18500
		030	023	270

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

ISO 7388-2	Taper Shank	Clamping screw length	
	Ø d ₁	ISO 7388-1, ISO 7388-2 THID	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

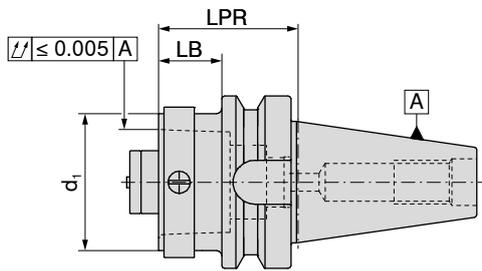
Pull studs	Others
→ 111–112	→ 273

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



84 016 ...

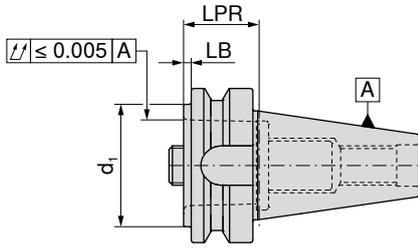
£
Y8

Adapter	d ₁	LB mm	LPR mm		
BT 40	HSK-A 32	13	40	937.25	04060
BT 40	HSK-A 40	13	40	954.83	04059
BT 40	HSK-A 50	23	50	972.22	04058
BT 40	HSK-A 63	43	70	954.83	04057
BT 50	HSK-A 32	12	50	1,181.25	05060
BT 50	HSK-A 40	12	50	1,181.25	05059
BT 50	HSK-A 50	22	60	1,216.03	05058
BT 50	HSK-A 63	22	60	1,285.58	05057
BT 50	HSK-A 100	52	90	1,460.03	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



84 017 ...

Adapter	d ₁	LB mm	LPR mm	£ Y8	
BT 40	PSC 32	3	30	606.12	04087
BT 40	PSC 40	3	30	623.70	04095
BT 40	PSC 50	3	30	623.70	04094
BT 40	PSC 63	58	85	606.12	04093
BT 50	PSC 32	2	40	832.55	05087
BT 50	PSC 40	2	40	972.22	05095
BT 50	PSC 50	2	40	850.12	05094
BT 50	PSC 63	2	40	884.90	05093
BT 50	PSC 80	32	70	919.86	05086



Threaded ring



tightening screw

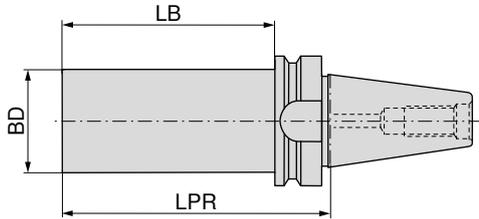
84 950 ...

84 950 ...

Spare parts	£ Y8		£ Y8	
DCONWS				
22	41.15	127	29.87	122
28	41.15	128	33.67	123
35	41.15	129	33.67	124
44	82.16	130	37.47	126
55	82.16	130	37.47	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
BT 40	63.0	250	223
BT 50	63.5	300	262

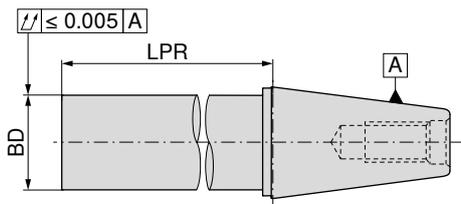
82 523 ...		82 523 ...	
£		£	
Y8		Y8	
274.23	050	164.71	040

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
SK / BT 40	40	330
SK / BT 50	50	330

82 456 ...	
£	
Y8	
771.57	040
954.42	050

Accessories



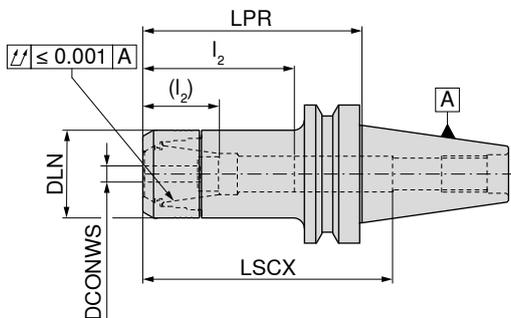
Pull studs	Others
→ 58, 111–112	→ 273

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

84 525 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	£ Y8	
BT-FC 30	1 - 10	75	30	97	28 - 45 (14 - 31)	426E (ER16)	254.32	002
BT-FC 30	1 - 10	90	30	105	29 - 41 (29 - 38)	426E (ER16)	255.98	00400
BT-FC 30	1 - 10	120	30	130	29 - 45 (29 - 32)	426E (ER16)	294.15	00600
BT-FC 30	2 - 16	75	40	72	38 - 56 (23 - 39)	430E (ER25)	257.95	012
BT-FC 30	2 - 20	75	50	84	42 - 62 (24 - 45)	470E (ER32)	257.95	022
BT-FC 40	1 - 10	75	30	90	38 - 53 (29 - 39)	426E (ER16)	283.38	102
BT-FC 40	1 - 10	90	30	115	38 - 53 (29 - 38)	426E (ER16)	244.86	10400
BT-FC 40	1 - 10	120	30	145	38 - 53 (29 - 38)	426E (ER16)	313.22	10600
BT-FC 40	1 - 16	90	40	84	41 - 64 (36 - 46)	430E (ER25)	244.86	11400
BT-FC 40	2 - 16	75	40	100	42 - 59 (36 - 41)	430E (ER25)	287.02	112
BT-FC 40	2 - 16	120	40	113	41 - 64 (36 - 46)	430E (ER25)	335.48	11600
BT-FC 40	2 - 20	75	50	100	42 - 76 (42 - 52)	470E (ER32)	287.02	122
BT-FC 40	2 - 20	90	50	95	41 - 72 (41 - 55)	470E (ER32)	244.86	12400
BT-FC 40	2 - 20	120	50	110	41 - 72 (41 - 55)	470E (ER32)	335.48	12600

i 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 Article no.	84 950 ...		84 950 ...		83 950 ...		83 950 ...	
	£ Y8		£ Y8		£ Y8		£ Y8	
84 525 002	76.42	011	56.75	001	47.40	341	31.75	337
84 525 012	85.18	013	63.06	003	33.34	432	23.78	431
84 525 022	91.08	015	69.36	005	28.16	402	20.51	401
84 525 102	76.42	011	56.75	001	47.40	341	31.75	337
84 525 112	85.18	013	63.06	003	33.34	432	23.78	431
84 525 122	91.08	015	69.36	005	28.16	402	20.51	401

Accessories

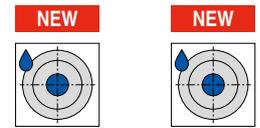
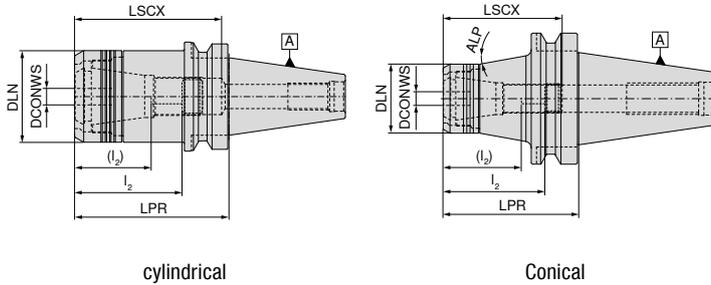
ER collet	Sealing ring	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 269	→ 275	→ 275	→ 111-112	→ 273

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



AD AD
G 6,3 n_{max} 18000 G 6,3 n_{max} 18000
cylindrical conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet
BT-FC 40	2 - 20	60	53	80	41 - 63 (27 - 45)		470E (ER32)
BT-FC 40	2 - 20	90	53	95	41 - 65 (27 - 47)		470E (ER32)
BT-FC 50	2 - 20	75	53	114	41 - 81 (27 - 63)	10	470E (ER32)
BT-FC 50	2 - 20	105	53	144	41 - 81 (27 - 63)	10	470E (ER32)

84 400 ...	84 400 ...
£ Y8	£ Y8
508.73 12064	
522.69 22064	
	847.88 12063
	855.86 22063



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

Spare parts

DCONWS

2 - 20

Lock nut	Stop screw 2	Stop screw 1
84 950 ...	83 950 ...	83 950 ...
£ Y8	£ Y8	£ Y8
105.74 30100	28.16 402	20.51 401

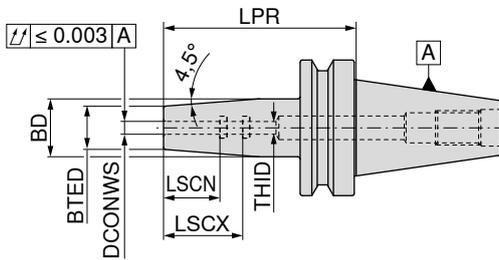
Accessories

ER collet	Roll key	Roll key device	Pull studs	Others
→ 256-266	→ 275	→ 275	→ 111-112	→ 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	AD		AD/B	
									£		£	
short	BT-FC 30	3	85	10	17	28	12	M6	212.31	003		
	BT-FC 30	4	85	15	22	28	16	M6	212.31	004		
	BT-FC 30	5	85	15	22	30	20	M6	212.31	005		
	BT-FC 30	6	85	21	27	36	26	M5	212.31	006		
	BT-FC 30	8	85	21	27	36	26	M6	212.31	008		
	BT-FC 30	10	85	24	32	41	31	M8x1	212.31	010		
	BT-FC 30	12	85	24	32	47	37	M10x1	212.31	012		
	BT-FC 30	16	85	27	34	50	40	M12x1	212.31	016		
	BT-FC 30	20	85	33	42	52	42	M16x1	212.31	020		
	BT-FC 40	3	90	10	17	28	12	M6			188.46	103
	BT-FC 40	4	90	15	22	28	16	M6			188.46	104
	BT-FC 40	5	90	15	22	30	20	M6			188.46	105
	BT-FC 40	6	90	21	27	36	26	M5			188.46	106
	BT-FC 40	8	90	21	27	36	26	M6			188.46	108
	BT-FC 40	10	90	24	32	41	31	M8x1			188.46	110
	BT-FC 40	12	90	24	32	47	37	M10x1			188.46	112
	BT-FC 40	16	90	27	34	50	40	M12x1			188.46	116
	BT-FC 40	20	90	33	42	52	42	M16x1			188.46	120
	BT-FC 40	25	100	44	53	58	48	M16x1			188.46	125

Spare parts

DCONWS		£		£	
3 - 5		Y7		Y7	
6	M6x14 - SW2	19.83	417		
8				M5x12,5 - SW2,5	19.83 418
10				M6x12,5 - SW3	19.83 419
12				M8x1x13,5 - SW3	19.83 420
16				M10x1x13,5 - SW5	19.83 421
20 - 25				M12x1x13,5 - SW5	19.83 422
				M16x1x13,5 - SW8	22.87 424

Accessories

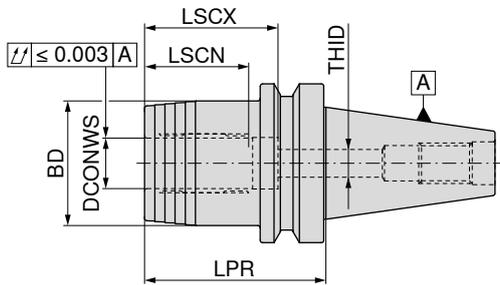
Shrink fit extension	Pull studs	Others
→ 235	→ 111-112	→ 273

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

83 527 ...

£
Y8

380.18 120

Adapter	DCONWS mm	LPR mm	BD mm	LSCX mm	LSCN mm	THID
BT-FC 40	20	72.5	49	51	40	M16x1x13,5

Spare parts for Article no.

83 527 120

		
Clamping key – T	Pressure screw	Stop screw IK
80 397 ...	83 950 ...	83 950 ...
£ Y7	£ Y7	£ Y7
6.39 050	18.06 158	19.83 420

Accessories

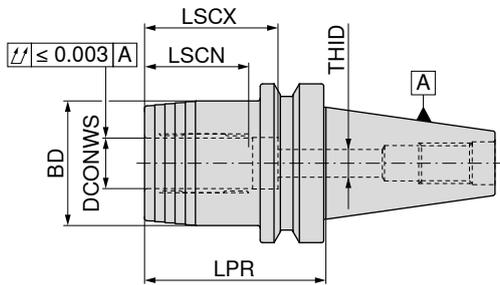
		
Reduction sleeve	Pull studs	Others
→ 271	→ 111-112	→ 273

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
BT-FC 40	20	72.5	49.5	51	41	M16x1
BT-FC 50	32	90.0	72.0	61	51	M16x1

84 518 ...

£

Y8

341.74 120

456.41 332



83 950 ...

£

Y7

M10x1x12 **13.73 440**

83 950 ...

£

Y7

M16x1x13,5-SW8 **22.87 424**

Spare parts

DCONWS

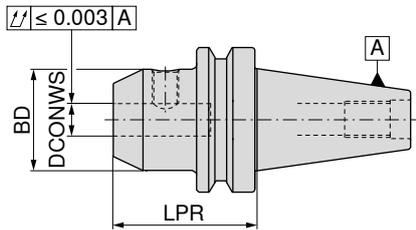
20 - 32

Accessories

Reduction sleeve	Pull studs	Others
→ 271	→ 111-112	→ 273

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}		LPR	BD	£	
		mm	mm				
short	BT-FC 30	6	50	25	110.47	006	
	BT-FC 30	8	50	28	110.47	008	
	BT-FC 30	10	50	35	110.47	010	
	BT-FC 30	12	50	42	110.47	012	
	BT-FC 30	16	63	48	118.52	016	
	BT-FC 30	20	63	52	118.52	020	
	BT-FC 40	6	50	25	139.99	106	
	BT-FC 40	8	50	28	135.45	108	
	BT-FC 40	10	63	35	135.45	110	
	BT-FC 40	12	63	42	135.45	112	
	BT-FC 40	16	63	48	135.45	116	
	BT-FC 40	20	63	52	135.45	120	
	BT-FC 40	25	90	65	180.08	125	
	BT-FC 40	32	100	72	180.08	132	
	BT-FC 50	6	63	25	207.77	306	
	BT-FC 50	8	63	28	201.64	308	
	BT-FC 50	10	63	35	201.64	310	
	BT-FC 50	12	80	42	201.64	312	
	BT-FC 50	16	80	48	201.64	316	
	BT-FC 50	20	80	52	201.64	320	
	BT-FC 50	25	100	65	230.82	325	
	BT-FC 50	32	105	72	230.82	332	



Grubscrew

62 950 ...

Spare parts

DCONWS _{H4}		£	
6	M6x10	0.91	006
8	M8x10	0.91	008
10	M10x12	1.75	010
12	M12x16	1.39	012
16	M14x16	1.71	016
20	M16x16	1.83	020
25	M18x2x20	3.53	025
32	M20x2x20	3.69	032

Accessories

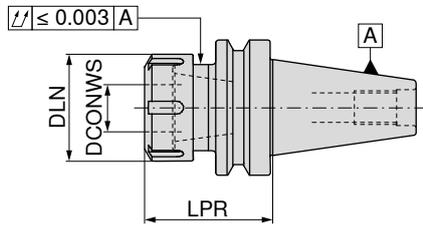
Pull studs	Others
→ 111-112	→ 273

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

84 557 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	TQX Nm	for collet	£	
short	BT-FC 30	1 - 10	63	28	56	426E (ER16)	124.66	010
	BT-FC 30	1 - 16	60	42	104	430E (ER25)	124.66	016
	BT-FC 30	2 - 20	60	50	136	470E (ER32)	124.66	020
	BT-FC 40	1 - 10	63	28	56	426E (ER16)	157.02	110
	BT-FC 40	1 - 16	60	42	104	430E (ER25)	157.02	116
	BT-FC 40	2 - 20	60	50	136	470E (ER32)	157.02	120
BT-FC 50	BT-FC 50	1 - 16	70	42	104	430E (ER25)	213.90	316
	BT-FC 50	2 - 20	70	50	136	470E (ER32)	213.90	320
long	BT-FC 50	1 - 10	100	28	56	426E (ER16)	213.90	310



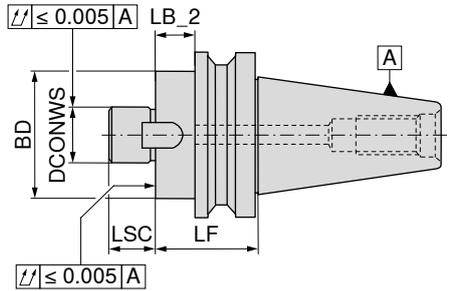
Spare parts for collet	£		£		£		£	
426E (ER16) / BT30-BT50	W7	26.65	044	M22x1,5 - SW25	Y8	125	M12x15	4.18
430E (ER25) / BT30-BT50				M32x1,5	22.08	055	M16x15	4.64
470E (ER32) / BT30-BT50				M40x1,5	22.64	056	M16x15	4.64

Accessories

ER collet	Pull studs	Others
→ 256–266	→ 111–112	→ 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

84 562 ...

	Adapter	mm		mm	mm	mm	mm	mm	£	
		DCONWS	LB_2							
short	BT-FC 30	16	18	39.0	40	17			121.59	016
	BT-FC 30	22	18	39.0	50	19			121.59	022
	BT-FC 30	27	18	39.0	60	21			121.59	027
	BT-FC 30	32	28	49.0	80	24			121.59	032
	BT-FC 40	16	8	34.0	40	17			146.23	116
	BT-FC 40	22	8	34.0	50	19			146.23	122
	BT-FC 40	27	8	34.0	60	21			146.23	127
	BT-FC 40	32	23	49.0	80	24			146.23	132
	BT-FC 40	40	23	49.0	89	27			146.23	140
	BT-FC 50	22	12	48.5	50	19			169.28	322
	BT-FC 50	27	12	48.5	60	21			169.28	327
	BT-FC 50	32	12	48.5	80	24			180.08	332
	BT-FC 50	40	17	53.5	89	27			180.08	340



Screw for drivers



Driver



clamping screw

Spare parts for Article no.

Article no.	Screw for drivers	84 950 ...		Driver	84 950 ...		Clamping screw	83 950 ...	
		£			£			£	
84 562 016	M3x12	8.20	162	8x9x11	20.84	157	M8x25	5.93	113
84 562 022	M4x10	8.20	163	10x11,2x13	24.53	158	M10x25	6.70	124
84 562 027	M4x16	8.20	164	12x12,6x15	26.57	159	M12x30	7.40	125
84 562 032	M5x16	8.20	165	14x14x22,5	30.20	160	M16x35	9.02	126
84 562 116	M3x12	8.20	162	8x9x11	20.84	157	M8x25	5.93	113
84 562 122	M4x10	8.20	163	10x11,2x13	24.53	158	M10x25	6.70	124
84 562 127	M4x16	8.20	164	12x12,6x15	26.57	159	M12x30	7.40	125
84 562 132	M5x16	8.20	165	14x14x22,5	30.20	160	M16x35	9.02	126
84 562 140	M5x16	8.20	166	16x16x23	33.61	161	M20x40 - SW17	9.94	112
84 562 322	M4x10	8.20	163	12x12,6x15	26.57	159	M10x25	6.70	124
84 562 327	M4x16	8.20	164	12x12,6x15	26.57	159	M12x30	7.40	125
84 562 332	M5x16	8.20	165	14x14x22,5	30.20	160	M16x35	9.02	126
84 562 340	M5x16	8.20	166	16x16x23	33.61	161	M20x40 - SW17	9.94	112

Accessories

Pull studs
→ 111-112

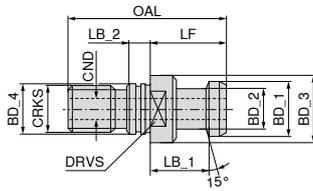
Others
→ 273

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 15° Form A

Scope of supply:

including O-Ring



83 532 ...

Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm
BT 40	19	14	23	17	M16	54	29	23	5	5	19	90

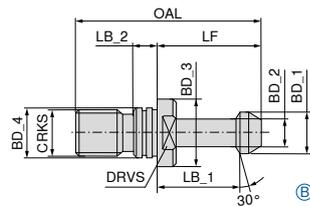
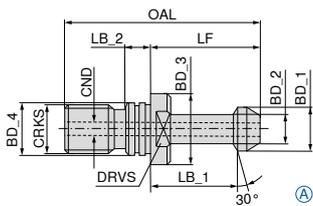
£
Y8
18.31 040

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 30° Form A and B

Scope of supply:

including O-Ring



82 533 ...

82 531 ...

Adapter	BD_1	BD_2	BD_3	BD_4	CRKS	OAL	LF	LB_1	LB_2	CND	DRVS	TQX	form
	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	Nm	
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	60	A
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	90	A
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	145	A
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0		13	60	B
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	90	B
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	145	B

£
Y8

£
Y8

18.18 030
18.18 040
23.39 050

18.18 030
15.57 040
22.09 050



O-Ring

Spare parts

BD_4

17	BT / SK 40	£ 2.49	040
25	BT / SK 50	£ 2.49	050

83 476 ...

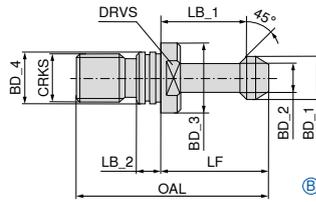
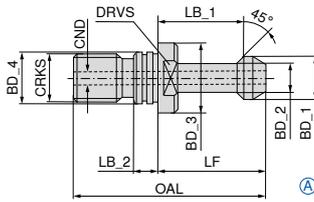
£
Y8
2.49 040
2.49 050

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 45° Form A and B

Scope of supply:

including O-Ring



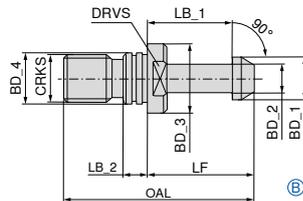
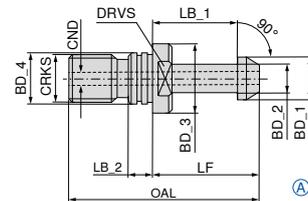
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 530 ...		82 534 ...	
														£		£	
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0	2.2	13	60	A	Y8		18.18	030
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5	4.0	19	90	A			18.18	040
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0	6.0	30	145	A			23.39	050
BT 30	11	7	16.5	12.5	M12	43	23	18	4.0		13	60	B	18.18	030		
BT 40	15	10	23.0	17.0	M16	60	35	28	5.5		19	90	B	15.57	040		
BT 50	23	17	38.0	25.0	M24	85	45	35	8.0		30	145	B	22.09	050		

Pull stud for tool holders according to ISO 7388-2

▲ MAS-BT 90° Form A and B

Scope of supply:

including O-Ring



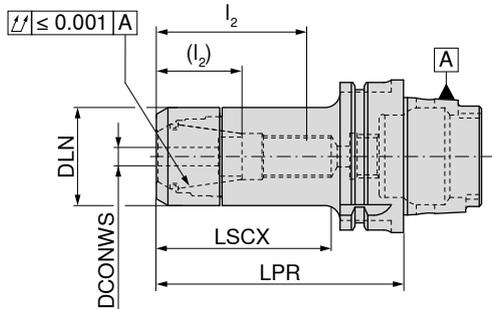
Adapter	BD_1 mm	BD_2 mm	BD_3 mm	BD_4 mm	CRKS	OAL mm	LF mm	LB_1 mm	LB_2 mm	CND mm	DRVS mm	TQX Nm	form	82 536 ...		82 537 ...	
														£		£	
BT 40	15	10	23	17	M16	60	35	28	5.5	4	19	90	A	Y8		18.18	040
BT 50	23	17	38	25	M24	85	45	35	8.0	6	30	145	A			23.39	050
BT 40	15	10	23	17	M16	60	35	28	5.5		19	90	B	15.57	040		
BT 50	23	17	38	25	M24	85	45	35	8.0		30	145	B	22.09	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	£ Y8	
HSK-A 40	1 - 10	60	30	40	32 - 54	426E (ER16)	254.85	401
HSK-A 40	2 - 16	60	40	40		430E (ER25)	295.05	404
HSK-A 40	2 - 20	61	50	45		470E (ER32)	319.58	407
HSK-A 50	2 - 16	60	40	37		430E (ER25)	295.05	504
HSK-A 50	2 - 16	70	40	49	34 - 35	430E (ER25)	295.05	505
HSK-A 63	1 - 10	55	30	32		426E (ER16)	285.08	609
HSK-A 63	1 - 10	100	30	71	28 - 45 (16 - 31)	426E (ER16)	277.36	610
HSK-A 63	1 - 10	130	30	87	26 - 50 (17 - 38)	426E (ER16)	319.58	613
HSK-A 63	1 - 10	160	30	106	28 - 45 (16 - 31)	426E (ER16)	337.21	611
HSK-A 63	1 - 10	200	30	136	28 - 45 (16 - 31)	426E (ER16)	570.01	612
HSK-A 63	2 - 16	60	40	37		430E (ER25)	285.08	615
HSK-A 63	2 - 16	100	40	70	35 - 55 (24 - 37)	430E (ER25)	277.36	616
HSK-A 63	2 - 16	130	40	89	37 - 60 (12 - 42)	430E (ER25)	344.14	619
HSK-A 63	2 - 16	160	40	128	35 - 60 (24 - 42)	430E (ER25)	354.32	617
HSK-A 63	2 - 20	70	50	46		470E (ER32)	277.36	620
HSK-A 63	2 - 20	100	50	71	41 - 57 (26 - 39)	470E (ER32)	277.36	621
HSK-A 63	2 - 20	130	50	101	42 - 69 (18 - 41)	470E (ER32)	344.14	625
HSK-A 63	2 - 20	160	50	129	52 - 70 (26 - 60)	470E (ER32)	354.32	622
HSK-A 63	3 - 26	80	63	56		472E (ER40)	356.31	626 ¹⁾
HSK-A 63	3 - 26	120	63	91		472E (ER40)	294.15	62700
HSK-A 100	1 - 10	100	30	70	28 - 48 (16 - 35)	426E (ER16)	549.26	110
HSK-A 100	1 - 10	130	30	101	28 - 48 (16 - 35)	426E (ER16)	424.52	11200
HSK-A 100	1 - 10	160	30	130	28 - 48 (16 - 35)	426E (ER16)	786.59	111
HSK-A 100	1 - 16	100	40	98	40 - 60 (22 - 42)	430E (ER25)	424.52	11800
HSK-A 100	2 - 16	100	40	71	38 - 56 (20 - 40)	430E (ER25)	549.26	116
HSK-A 100	2 - 16	160	40	105	38 - 68 (20 - 50)	430E (ER25)	786.59	117
HSK-A 100	2 - 20	100	50	70	42 - 59 (24 - 40)	470E (ER32)	806.51	121
HSK-A 100	2 - 20	130	50	97	44 - 69 (41 - 51)	470E (ER32)	424.52	12400
HSK-A 100	2 - 20	160	50	99	42 - 70 (24 - 52)	470E (ER32)	1,122.02	122

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

→ Transmittable torque moments, Page 300

1 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

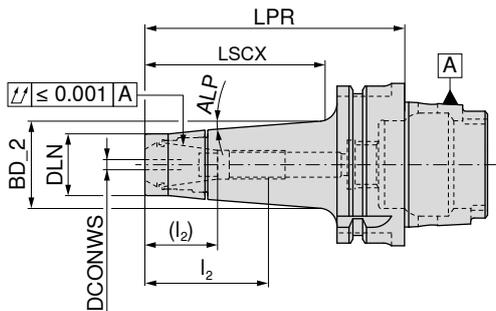
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	76.42	011	56.75	001	47.40	341	31.75	337
430E (ER25)	85.18	013	63.06	003	33.34	432	23.78	431
470E (ER32)	91.08	015	69.36	005	28.16	402	20.51	401
472E (ER40)	124.56	017	100.91	007			28.75	400

ER precision collet chuck, tapered – 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	£	
HSK-A 40	1 - 10	100	24	30.8	67	26 - 47 (12 - 32)	2.0°	426E (ER16)	295.05	310
HSK-A 50	1 - 10	65	24	28.9	44	26 - 32	4.5°	426E (ER16)	295.05	710
HSK-A 50	1 - 10	100	24	34.4	77	26 - 47 (12 - 32)	4.5°	426E (ER16)	295.05	810
HSK-A 63	1 - 10	100	24	33.8	74	28 - 48 (20 - 35)	4.5°	426E (ER16)	277.36	610
HSK-A 63	1 - 10	130	24		77	28 - 48 (20 - 35)		426E (ER16)	259.16	61200
HSK-A 63	1 - 10	160	24	36.0	106	28 - 48 (20 - 35)	2.5°	426E (ER16)	323.69	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

Spare parts for collet

426E (ER16)

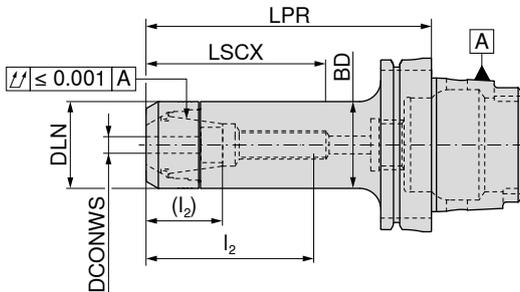
Tapered lock nut IK	Tapered lock nut	Stop screw 2	Stop screw 1
£	£	£	£
Y8	Y8	Y8	Y8
93.82	79.26	47.40	31.75
033	031	341	337

ER precision collet chuck, slim – 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

84 719 ...

Adapter	DCONWS mm	LPR mm	BD mm	DLN mm	LSCX mm	I ₂ (I ₂) mm	for collet	£	
HSK-A 50	1 - 7	130	16	16	60	15 - 32 (7 - 22)	4008E (ER11)	368.83	407
HSK-A 63	1 - 7	70	16	16	48	15 - 32 (7 - 22)	4008E (ER11)	282.69	507
HSK-A 63	1 - 7	100	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	295.53	607
HSK-A 63	1 - 7	130	16	16	108	15 - 32 (7 - 22)	4008E (ER11)	363.90	707
HSK-A 63	1 - 7	160	16	16	68	18 - 36 (12 - 26)	4008E (ER11)	385.22	608
HSK-A 63	1 - 10	70	22	22	46	27 - 34 (14 - 20)	426E (ER16)	282.69	610
HSK-A 63	1 - 10	100	22	22	62	27 - 44 (14 - 30)	426E (ER16)	282.69	710
HSK-A 63	1 - 10	130	22	22	87	27 - 52 (14 - 38)	426E (ER16)	363.90	810
HSK-A 63	1 - 10	160	22	22	97	27 - 52 (14 - 38)	426E (ER16)	363.90	910

→ Transmittable torque moments, Page 300

 LSCX = Clamping depth without back stop screw for shanks
I₂ = With back stop screw 1, Dimension in brackets (I₂) = With back stop screw 2
Dimension LPR when using tightening nuts with seals 4 mm longer

Spare parts for collet	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
4008E (ER11)	77.19	035	79.26	041	45.18	340	30.09	336
426E (ER16)	77.19	035	63.32	034	47.40	341	31.75	337

Accessories

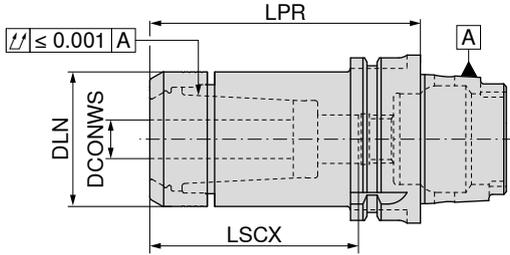
						
ER collet	Sealing ring	Device	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256-263, 266	→ 269	→ 274	→ 275	→ 275	→ 163	→ 273

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 ...

£
Y8

311.78 626

463.49 126

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	for collet
HSK-A 63	2 - 25	85	50	60	462E
HSK-A 100	2 - 25	90	50	60	462E

→ 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 ...

£
Y8

75.33 020

**Spare parts
for collet**

462E

Accessories

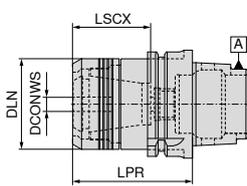
OZ Collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 267	→ 267	→ 275	→ 275	→ 163	→ 273

ER precision collet chuck – HDC

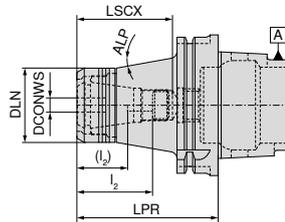
- ▲ HDC = Heavy Duty Chuck, an adapter specially designed for rough machining
- ▲ For heavy duty lock nut
- ▲ Maximum clamping range covered according to ISO tolerance field H10
- ▲ Roll key required for clamping
- ▲ $p_{max} = 80$ bar
- ▲ also available with Balluff chip **on request**

Scope of supply:

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



cylindrical



Conical



G 6,3 n_{max} 18000

cylindrical



G 6,3 n_{max} 18000

conical

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	ALP °	for collet	£ Y8	£ Y8
HSK-A 63	2 - 20	70	53	45	41 - 57 (27 - 39)		470E (ER32)	399.00	12057
HSK-A 63	2 - 20	100	53	72	41 - 57 (27 - 39)		470E (ER32)	399.00	22057
HSK-A 100	2 - 20	100	53	68	41 - 54 (27 - 36)	10	470E (ER32)	662.34	22055



LSCX = Clamping depth without backstop screw

l_2 = Clamping depth backstop screw 1, dimension in brackets (l_2) = Clamping depth backstop screw 2

DCONWS	Lock nut	Stop screw 2	Stop screw 1
2 - 20	84 950 ... £ Y8 105.74 30100	83 950 ... £ Y8 28.16 402	83 950 ... £ Y8 20.51 401

Accessories

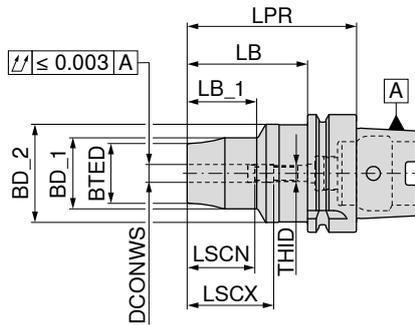
ER collet	Roll key	Roll key device	Others
→ 256-266	→ 275	→ 275	→ 273

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



G 2,5 n_{max} 25000

83 706 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LB_1 mm	LSCX mm	LSCN mm	LB mm	THID		£	
short	HSK-A 63	16	95	36	42	52.5	42	49	39	69	M12x1		1,018.15	616
	HSK-A 63	20	100	42	48	52.5	45	51	41	74	M16x1		943.79	620
	HSK-A 63	25	120	51	57	53.0	62	57	47	94	M16x1		1,018.15	625
	HSK-A 63	32	125	57	63	53.0	62	61	51	99	M16x1		1,018.15	632

→ Min. clamping depth, Page 300



Clamping key - T



Pressure screw



Stop screw IK

Spare parts for Article no.

Article no.	Part	Price (£)	Part	Price (£)	Part	Price (£)
83 706 616	SW5	6.39	050	TR10x1,5x14	33.77	430
83 706 620	SW5	6.39	050	TR10x1,5x14	33.77	430
83 706 625	SW5	6.39	050	TR10x1,5x14	33.77	430
83 706 632	SW5	6.39	050	TR10x1,5x14	33.77	430

Accessories

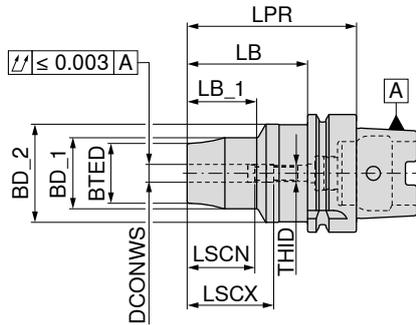
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

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

83 722 ...

£
Y8

386.37 120

Adapter	DCONWS	LPR	BTED	BD_1	BD_2	LB_1	LSCX	LSCN	LB	THID
HSK-A 63	20	80	36	49	52.5	36	51	40	54	M8x1

→ Min. clamping depth, Page 300

Spare parts for Article no.
83 722 120

Part Name	Price (€)	Part No.
Clamping key – T	6.39	050
Pressure screw	18.06	158
Stop screw IK	19.83	420

Accessories

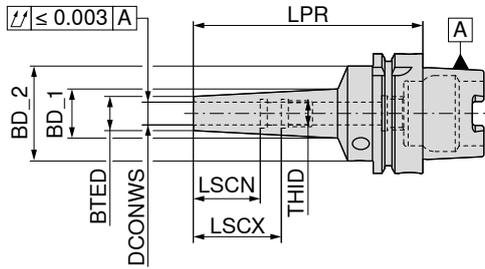
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

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 and pressure screw



G 2,5 n_{max} 25000

83 727 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	THID	£ Y8	
long	HSK-A 63	3	120	9	16.65	50	28	12	M3	738.66	603
	HSK-A 63	4	120	10	17.65	50	28	16	M3	738.66	604
	HSK-A 63	5	120	11	18.65	50	28	20	M3	738.66	605
	HSK-A 63	6	120	12	19.75	50	37	27	M5	636.33	606
	HSK-A 63	8	120	14	21.75	50	37	27	M6	636.33	608
	HSK-A 63	10	120	16	23.75	50	41	31	M8x1	636.33	610
	HSK-A 63	12	120	18	25.86	50	46	36	M10x1	636.33	612
	HSK-A 63	16	120	24	31.50	50	49	39	M12x1	989.68	616
	HSK-A 63	20	120	28	35.55	50	51	41	M16x1	989.68	620
extra-long	HSK-A 63	6	160	16	33.53	50	37	27	M5	1,045.49	706
	HSK-A 63	8	160	18	34.55	50	37	27	M6	1,045.49	708
	HSK-A 63	10	160	20	36.27	50	41	31	M8x1	1,045.49	710
	HSK-A 63	12	160	22	37.78	50	46	36	M10x1	1,045.49	712
extra long	HSK-A 63	6	200	16	37.83	50	37	27	M5	1,156.00	806
	HSK-A 63	8	200	18	38.85	50	37	27	M6	1,156.00	808
	HSK-A 63	10	200	20	40.57	50	41	31	M8x1	1,156.00	810
	HSK-A 63	12	200	22	42.07	50	46	36	M10x1	1,156.00	812

→ Min. clamping depth, Page 305



Clamping key - T



Pressure screw



Stop screw IK

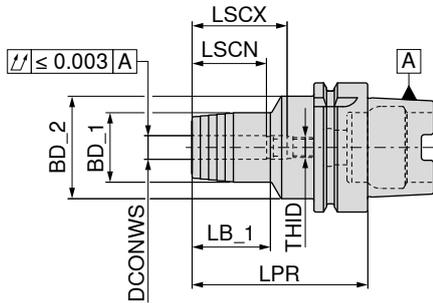
Spare parts DCONWS	80 397 ...				83 950 ...				83 950 ...			
	£ Y7		£		£		£		£		£	
3		SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172		
4		SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172		
5		SW5	6.39	050	M10x1x10	18.06	158	M3x20 - SW1,5	13.76	172		
6		SW5	6.39	050	M10x1x10	18.06	158	M5x12,5 - SW2,5	19.83	418		
6		SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419		
8		SW5	6.39	050	M10x1x10	18.06	158	M6x12,5 - SW3	19.83	419		
10		SW5	6.39	050	M10x1x12	18.06	159	M8x1x13,5 - SW3	19.83	420		
12		SW5	6.39	050	M10x1x12	18.06	159	M10x1x13,5 - SW5	19.83	421		
16		SW5	6.39	050	M10x1x12	18.06	159	M12x1x13,5 - SW5	19.83	422		
20		SW5	6.39	050	M10x1x12	18.06	159	M16x1x13,5 - SW8	22.87	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

83 726 ...

	Adapter	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSCX mm	LSCN mm	LB_1 mm	THID	£	
										Y8	
short	HSK-A 63	6	70	26	49.5	37	27	24	M5	753.49	606
	HSK-A 63	8	70	28	49.5	37	27	24	M6	753.49	608
	HSK-A 63	10	80	30	49.5	41	31	32	M8x1	753.49	610
	HSK-A 63	12	85	32	49.5	46	36	40	M10x1	690.96	612
	HSK-A 63	16	90	38	49.5	49	39	46	M12x1	753.49	616
	HSK-A 63	20	90	42	49.5	51	41	48	M16x1	690.96	620
	HSK-A 63	25	120	57	52.0	57	47	63	M16x1	753.49	625
	HSK-A 63	32	125	63	53.0	61	51	61	M16x1	753.49	632

→ Min. clamping depth, Page 300



Spare parts
DCONWS

DCONWS	83 950 ...		83 950 ...	
	£		£	
6	13.73	439	19.83	418
8	13.73	439	19.83	419
10	13.73	440	19.83	420
12	13.73	440	19.83	421
16	13.73	440	19.83	422
20 - 32	13.73	440	22.87	423

Accessories

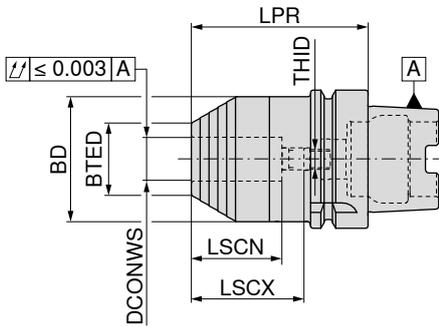
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 163	→ 273

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 ...

£
Y8

637.57 620

Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID
HSK-A 63	20	80	33	51.5	51	41	M8x1

→ Min. clamping depth, Page 300



Pressure screw



Stop screw IK

83 950 ...

£
Y7

13.73 440

83 950 ...

£
Y7

22.87 423

Spare parts

DCONWS
20

M10x1x12

Accessories



Reduction sleeve

→ 271



Coolant transfer pipe

→ 163



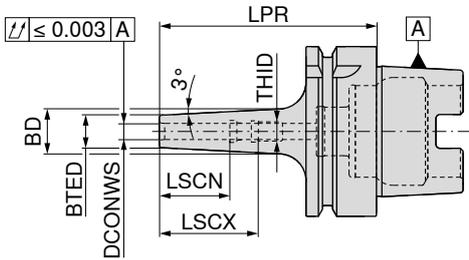
Others

→ 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

84 324 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	£	
		mm	mm	mm	mm	mm	mm		Y8	
short	HSK-A 63	3	80	9	14	28	12	M6	567.54	103
	HSK-A 63	4	80	10	15	28	16	M6	552.41	104
	HSK-A 63	5	80	11	16	30	20	M6	552.41	105
	HSK-A 63	6	80	12	17	36	26	M5	499.43	106
	HSK-A 63	8	80	14	19	36	26	M6	499.43	108
	HSK-A 63	10	85	16	21	41	31	M8x1	499.43	110
	HSK-A 63	12	90	18	24	47	37	M10x1	499.43	112
	HSK-A 63	14	90	20	26	47	37	M10x1	499.43	114
	HSK-A 63	16	95	22	28	50	40	M12x1	499.43	116
	HSK-A 63	18	95	24	30	50	40	M12x1	499.43	118
HSK-A 63	20	100	26	33	52	42	M16x1	499.43	120	
long	HSK-A 63	3	120	9	16	12	12		605.37	203
	HSK-A 63	4	120	10	17	16	16		597.82	204
	HSK-A 63	5	120	11	18	20	20		597.82	205
	HSK-A 63	6	120	12	21	36	26	M5	537.26	206
	HSK-A 63	8	120	14	23	36	26	M6	537.26	208
	HSK-A 63	10	120	16	25	41	31	M8x1	537.26	210
	HSK-A 63	12	120	18	27	47	37	M10x1	537.26	212
	HSK-A 63	14	120	20	29	47	37	M10x1	537.26	214
	HSK-A 63	16	120	22	31	50	40	M12x1	537.26	216
	HSK-A 63	18	120	24	33	50	40	M12x1	537.26	218
HSK-A 63	20	120	26	35	52	42	M16x1	537.26	220	
extra-long	HSK-A 63	3	160	9	19	12	12		662.12	303
	HSK-A 63	4	160	10	20	16	16		646.99	304
	HSK-A 63	5	160	11	21	20	20		646.99	305
	HSK-A 63	6	160	12	24	36	26	M5	559.98	306
	HSK-A 63	8	160	14	26	36	26	M6	559.98	308
	HSK-A 63	10	160	16	28	41	31	M8x1	559.98	310
	HSK-A 63	12	160	18	30	47	37	M10x1	559.98	312
	HSK-A 63	14	160	20	32	47	37	M10x1	559.98	314
	HSK-A 63	16	160	22	34	50	40	M12x1	559.98	316
	HSK-A 63	18	160	24	36	50	40	M12x1	559.98	318
HSK-A 63	20	160	26	38	52	42	M16x1	559.98	320	

→ Min. clamping depth, Page 300



Stop screw IK



Stop screw IK

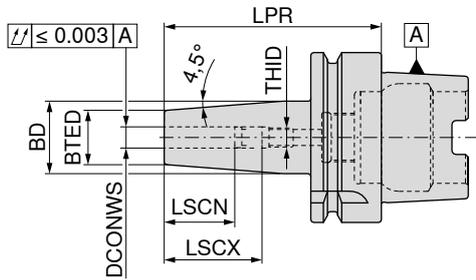
Spare parts
DCONWS

	£		£
	Y7		Y7
3 - 5	19.83	M6x14 - SW2	417
6		M5x12,5 - SW2,5	19.83 418
8		M6x12,5 - SW3	19.83 419
10		M8x1x13,5 - SW3	19.83 420
12 - 14		M10x1x13,5 - SW5	19.83 421
16 - 18		M12x1x13,5 - SW5	19.83 422
20		M16x1x13,5 - SW8	22.87 424

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 ...

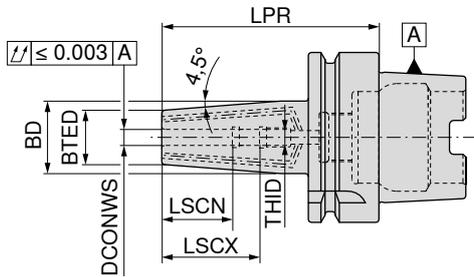
	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	£	
									Y8	
short	HSK-A 63	3	80	10	15	22	12	M6	202.91	103
	HSK-A 63	4	80	15	22	26	16	M6	202.91	104
	HSK-A 63	5	80	15	22	30	20	M6	202.91	105
	HSK-A 63	6	80	21	27	36	26	M5	202.91	106
	HSK-A 63	8	80	21	27	36	26	M6	202.91	108
	HSK-A 63	10	85	24	32	41	31	M8x1	202.91	110
	HSK-A 63	12	90	24	32	47	37	M10x1	202.91	112
	HSK-A 63	14	90	27	34	47	37	M10x1	202.91	114
	HSK-A 63	16	95	27	34	50	40	M12x1	202.91	116
	HSK-A 63	18	95	33	42	50	40	M12x1	202.91	118
	HSK-A 63	20	100	33	42	52	42	M16x1	202.91	120
	HSK-A 63	25	115	44	53	58	48	M16x1	202.91	125
HSK-A 63	32	120	44	53	62	52	M16x1	202.91	132	
long	HSK-A 63	3	120	10	20	12	12		344.11	203
	HSK-A 63	4	120	15	22	16	16		337.84	204
	HSK-A 63	5	120	15	22	20	20		337.84	205
	HSK-A 63	6	120	21	27	36	26	M5	306.61	206
	HSK-A 63	8	120	21	27	36	26	M6	306.61	208
	HSK-A 63	10	120	24	32	41	31	M8x1	306.61	210
	HSK-A 63	12	120	24	32	47	37	M10x1	306.61	212
	HSK-A 63	14	120	27	34	47	37	M10x1	575.11	214
	HSK-A 63	16	120	27	34	50	40	M12x1	575.11	216
	HSK-A 63	18	120	33	42	50	40	M12x1	575.11	218
	HSK-A 63	20	120	33	42	52	42	M16x1	575.11	220
	HSK-A 63	25	120	44	53	58	48	M16x1	575.11	225
extra-long	HSK-A 63	3	160	10	20	12	12		384.72	303
	HSK-A 63	4	160	15	22	16	16		376.87	304
	HSK-A 63	5	160	15	22	20	20		376.87	305
	HSK-A 63	6	160	21	27	36	26	M5	345.68	306
	HSK-A 63	8	160	21	27	36	26	M6	345.68	308
	HSK-A 63	10	160	24	32	41	31	M8x1	345.68	310
	HSK-A 63	12	160	24	32	47	37	M10x1	345.68	312
	HSK-A 63	14	160	27	34	47	37	M10x1	345.68	314
	HSK-A 63	16	160	27	34	50	40	M12x1	345.68	316
	HSK-A 63	18	160	33	42	50	40	M12x1	345.68	318
	HSK-A 63	20	160	33	42	52	42	M16x1	345.68	320
	HSK-A 63	25	160	44	53	62	52	M16x1	345.68	325
extra long	HSK-A 63	6	200	21	27	36	26	M5	771.84	406
	HSK-A 63	8	200	21	27	36	26	M6	771.84	408
	HSK-A 63	10	200	24	32	41	31	M8x1	771.84	410
	HSK-A 63	12	200	24	32	47	37	M10x1	771.84	412
	HSK-A 63	14	200	27	34	47	37	M10x1	771.84	414
	HSK-A 63	16	200	27	34	50	40	M12x1	771.84	416
	HSK-A 63	18	200	33	42	50	40	M12x1	771.84	418
	HSK-A 63	20	200	33	42	52	42	M16x1	771.84	420
	HSK-A 63	25	200	44	53	62	52	M16x1	771.84	425
	HSK-A 63	32	200	44	53	62	52	M16x1	771.84	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 ...	
									£	Y8
short	HSK-A 63	3	80	10	15	28	12	M6	621.27	103
	HSK-A 63	4	80	15	22	28	16	M6	603.90	104
	HSK-A 63	5	80	15	22	30	20	M6	603.90	105
	HSK-A 63	6	80	21	27	36	26	M5	548.38	106
	HSK-A 63	8	80	21	27	36	26	M6	548.38	108
	HSK-A 63	10	85	24	32	41	31	M8x1	548.38	110
	HSK-A 63	12	90	24	32	47	37	M10x1	548.38	112
	HSK-A 63	14	90	27	34	47	37	M10x1	548.38	114
	HSK-A 63	16	95	27	34	50	40	M12x1	548.38	116
	HSK-A 63	18	95	33	42	50	40	M12x1	548.38	118
	HSK-A 63	20	100	33	42	52	42	M16x1	548.38	120
	HSK-A 63	25	115	44	53	58	48	M16x1	548.38	125
HSK-A 63	32	120	44	53	62	52	M16x1	548.38	132	

→ Min. clamping depth, Page 300

Spare parts DCONWS	83 950 ...		83 950 ...		83 950 ...	
	£	Y7	£	Y7	£	Y7
3 - 5						
6					M2x6	1.60 512
8					M2x6	1.60 512
10					M2x6	1.60 512
12 - 14					M2x6	1.60 512
16 - 18	M12x1 - SW5	26.94 510	M5x12,5 - SW2,5	19.83 418	M2x6	1.60 512
20 - 32	M16x1 - SW5	15.91 511	M6x12,5 - SW3	19.83 419	M2x6	1.60 512
			M8x1x13,5 - SW3	19.83 420	M2x6	1.60 512
			M10x1x13,5 - SW5	19.83 421	M2x6	1.60 512

Accessories



→ 235

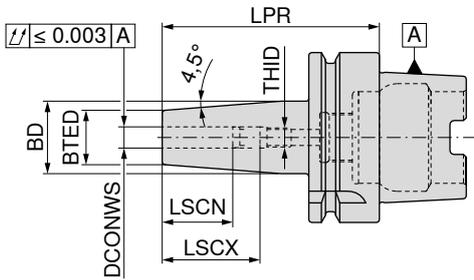
→ 163

→ 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

84 305 ...

	Adapter	DCONWS	LPR	BTED	BD	LSCX	LSCN	THID	£	
short	HSK-A 100	6	85	21	27	36	26	M5	380.52	106
	HSK-A 100	8	85	21	27	36	26	M6	380.52	108
	HSK-A 100	10	90	24	32	41	31	M8x1	380.52	110
	HSK-A 100	12	95	24	32	47	37	M10x1	380.52	112
	HSK-A 100	14	95	27	34	47	37	M10x1	380.52	114
	HSK-A 100	16	100	27	34	50	40	M12x1	380.52	116
	HSK-A 100	18	100	33	42	50	40	M12x1	380.52	118
	HSK-A 100	20	105	33	42	52	42	M16x1	380.52	120
	HSK-A 100	25	115	44	53	58	48	M16x1	380.52	125
HSK-A 100	32	120	44	53	62	52	M16x1	380.52	132	
long	HSK-A 100	6	120	21	27	36	26	M5	439.62	206
	HSK-A 100	8	120	21	27	36	26	M6	439.62	208
	HSK-A 100	10	120	24	32	41	31	M8x1	439.62	210
	HSK-A 100	12	120	24	32	47	37	M10x1	439.62	212
	HSK-A 100	14	120	27	34	47	37	M10x1	439.62	214
	HSK-A 100	16	120	27	34	50	40	M12x1	439.62	216
	HSK-A 100	18	120	33	42	50	40	M12x1	439.62	218
	HSK-A 100	20	120	33	42	52	42	M16x1	439.62	220
	HSK-A 100	25	120	44	53	58	48	M16x1	439.62	225
extra-long	HSK-A 100	6	160	21	27	36	26	M5	505.19	306
	HSK-A 100	8	160	21	27	36	26	M6	505.19	308
	HSK-A 100	10	160	24	32	41	31	M8x1	505.19	310
	HSK-A 100	12	160	24	32	47	37	M10x1	505.19	312
	HSK-A 100	14	160	27	34	47	37	M10x1	505.19	314
	HSK-A 100	16	160	27	34	50	40	M12x1	505.19	316
	HSK-A 100	18	160	33	42	50	40	M12x1	505.19	318
	HSK-A 100	20	160	33	42	52	42	M16x1	505.19	320
	HSK-A 100	25	160	44	53	58	48	M16x1	505.19	325
	HSK-A 100	32	160	44	53	62	52	M16x1	505.19	332

→ Min. clamping depth, Page 300



83 950 ...

Spare parts

DCONWS		£	
6	M5x12,5 - SW2,5	19.83	418
8	M6x12,5 - SW3	19.83	419
10	M8x1x13,5 - SW3	19.83	420
12 - 14	M10x1x13,5 - SW5	19.83	421
16 - 18	M12x1x13,5 - SW5	19.83	422
20 - 32	M16x1x13,5 - SW8	22.87	424

Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 235	→ 163	→ 273

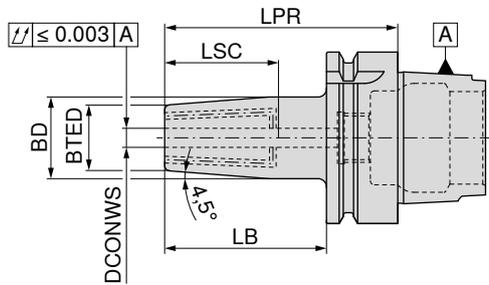
Shrink fit adaptors 4.5°

- ▲ 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

84 717 ...

	Adapter	DCONWS mm	LPR mm	BTED mm	BD mm	LB mm	LSC mm		
								£	
short	HSK-A 63	6	80	21	26	54	36,5	391.07	606
	HSK-A 63	8	80	21	26	54	36,5	391.07	608
	HSK-A 63	10	85	24	30	59	41,5	391.07	610
	HSK-A 63	12	90	24	30	64	46,5	391.07	612
	HSK-A 63	14	90	27	34	64	46,5	391.07	614
	HSK-A 63	16	95	27	34	69	49,5	391.07	616
	HSK-A 63	18	95	33	41	69	49,5	391.07	618
	HSK-A 63	20	100	33	41	74	51,5	391.07	620
	HSK-A 63	25	115	44	52	89	57,5	409.38	625
	HSK-A 63	32	120	44	52	94	61,5	545.91	632
	HSK-A 100	6	85	21	26	56	36,5	551.23	106
	HSK-A 100	8	85	21	26	56	36,5	551.23	108
	HSK-A 100	10	90	24	30	56	41,5	551.23	110
	HSK-A 100	12	95	24	30	66	46,5	551.23	112
	HSK-A 100	14	95	27	34	66	46,5	551.23	114
	HSK-A 100	16	100	27	34	71	49,5	551.23	116
	HSK-A 100	18	100	33	42	71	49,5	551.23	118
	HSK-A 100	20	105	33	42	76	51,5	551.23	120
	HSK-A 100	25	115	44	53	86	57,5	569.39	125
	HSK-A 100	32	120	44	53	91	61,5	587.83	132

→ Min. clamping depth, Page 300



Stop screw IK



Sealing screw

Spare parts

DCONWS

DCONWS		£		£		
6	M5x0,8x14	9.02	402	M3x6	1.91	411
8	M6x1x16	9.02	403	M3x6	1.91	411
10	M8x1x20	10.16	404			
12-18	M10x1x20	11.34	405			
20-32	M12x1x20	11.64	406			



Sealing screw for closing of two additional coolant holes.

Accessories

Shrink fit extension	Coolant transfer pipe	Others
→ 235	→ 163	→ 273

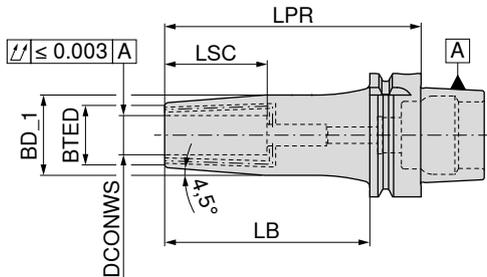
Shrink fit adapters 4.5°

- ▲ 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 G 2,5 n_{max} 25000

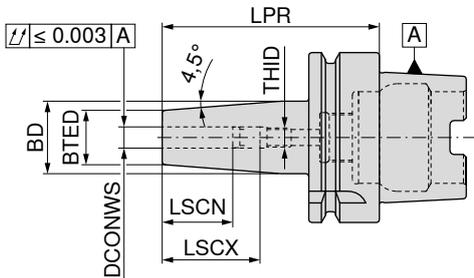
	Adapter	DCONWS mm	LPR mm	BTED mm	BD_1 mm	LB mm	LSC mm	G 2,5 n _{max} 25000				
								£ Y8	606	£ Y8	606	
medium length	HSK-A 63	6	130	21	27	104	36.5	545.91	606			
	HSK-A 63	8	130	21	27	104	36.5	545.91	608			
	HSK-A 63	10	130	24	32	104	41.5	545.91	610			
	HSK-A 63	12	130	24	32	104	46.5	545.91	612			
	HSK-A 63	14	130	27	34	104	46.5	545.91	614			
	HSK-A 63	16	130	27	34	104	49.5	545.91	616			
	HSK-A 63	18	130	33	41	104	49.5	545.91	618			
	HSK-A 63	20	130	33	41	104	51.5	545.91	620			
	HSK-A 100	6	130	21	27	101	36.5	747.84	106			
	HSK-A 100	8	130	21	27	101	36.5	747.84	108			
	HSK-A 100	10	130	24	32	101	41.5	747.84	110			
	HSK-A 100	12	130	24	32	101	46.5	747.84	112			
	HSK-A 100	14	130	27	34	101	46.5	747.84	114			
	HSK-A 100	16	130	27	34	101	49.5	747.84	116			
	HSK-A 100	18	130	33	41	101	49.5	747.84	118			
	HSK-A 100	20	130	33	41	101	51.5	747.84	120			
	extra-long	HSK-A 63	6	160	21	27	134	36.5			598.23	606
		HSK-A 63	8	160	21	27	134	36.5			598.23	608
HSK-A 63		10	160	24	32	134	41.5			598.23	610	
HSK-A 63		12	160	24	32	134	46.5			598.23	612	
HSK-A 63		14	160	27	34	134	46.5			598.23	614	
HSK-A 63		16	160	27	34	134	49.5			598.23	616	
HSK-A 63		18	160	33	41	134	49.5			598.23	618	
HSK-A 63		20	160	33	41	134	51.5			598.23	620	
HSK-A 63		25	160	44	52	134	57.5			574.43	625	
HSK-A 100		6	160	21	27	131	36.5			818.62	106	
HSK-A 100		8	160	21	27	131	36.5			818.62	108	
HSK-A 100		10	160	24	32	131	41.5			818.62	110	
HSK-A 100		12	160	24	32	131	46.5			818.62	112	
HSK-A 100		14	160	27	34	131	46.5			818.62	114	
HSK-A 100		16	160	27	34	131	49.5			818.62	116	
HSK-A 100		18	160	33	41	131	49.5			818.62	118	
HSK-A 100		20	160	33	41	131	51.5			818.62	120	
HSK-A 100		25	160	44	53	131	57.5			818.62	125	
HSK-A 100	32	160	44	53	131	61.5			818.62	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	£	
									Y8	
short	HSK-A 63	3	80	10	15	22	12		202.04	10357
	HSK-A 63	4	80	15	22	26	16		202.04	10457
	HSK-A 63	5	80	15	22	30	20		202.04	10557
	HSK-A 63	6	80	21	27	36	26	M5	202.04	10657
	HSK-A 63	8	80	21	27	36	26	M6	202.04	10857
	HSK-A 63	10	85	24	32	41	31	M8x1	202.04	11057
	HSK-A 63	12	90	24	32	47	37	M10x1	202.04	11257
	HSK-A 63	14	90	27	34	47	37	M10x1	202.04	11457
	HSK-A 63	16	95	27	34	50	40	M12x1	202.04	11657
	HSK-A 63	18	95	33	42	50	40	M12x1	202.04	11857
	HSK-A 63	20	100	33	42	52	42	M16x1	202.04	12057
	HSK-A 63	25	115	44	53	58	48	M16x1	202.04	12557
HSK-A 63	32	120	44	53	62	52	M16x1	202.04	13257	
long	HSK-A 63	3	120	10	20	12	12		326.21	20357
	HSK-A 63	4	120	15	22	16	16		318.47	20457
	HSK-A 63	5	120	15	22	20	20		318.47	20557
	HSK-A 63	6	120	21	27	36	26	M5	291.44	20657
	HSK-A 63	8	120	21	27	36	26	M6	291.44	20857
	HSK-A 63	10	120	24	32	41	31	M8x1	291.44	21057
	HSK-A 63	12	120	24	32	47	37	M10x1	291.44	21257
	HSK-A 63	14	120	27	34	47	37	M10x1	291.44	21457
	HSK-A 63	16	120	27	34	50	40	M12x1	291.44	21657
	HSK-A 63	18	120	33	42	50	40	M12x1	291.44	21857
	HSK-A 63	20	120	33	42	52	42	M16x1	291.44	22057
	HSK-A 63	25	120	44	53	58	48	M16x1	291.44	22557
extra-long	HSK-A 63	3	160	10	20	12	12		365.34	30357
	HSK-A 63	4	160	15	22	16	16		357.40	30457
	HSK-A 63	5	160	15	22	20	20		357.40	30557
	HSK-A 63	6	160	21	27	36	26	M5	326.21	30657
	HSK-A 63	8	160	21	27	36	26	M6	326.21	30857
	HSK-A 63	10	160	24	32	41	31	M8x1	326.21	31057
	HSK-A 63	12	160	24	32	47	37	M10x1	326.21	31257
	HSK-A 63	14	160	27	34	47	37	M10x1	326.21	31457
	HSK-A 63	16	160	27	34	50	40	M12x1	326.21	31657
	HSK-A 63	18	160	33	42	50	40	M12x1	326.21	31857
	HSK-A 63	20	160	33	42	52	42	M16x1	326.21	32057
	HSK-A 63	25	160	44	53	62	52	M16x1	326.21	32557

→ Min. clamping depth, Page 300

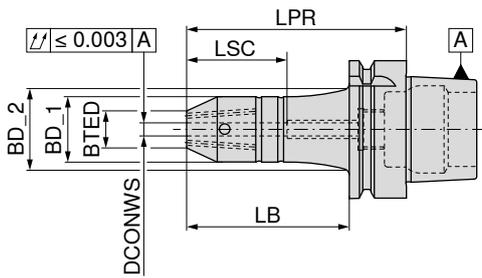


Spare parts

DCONWS		£	
		Y8	
3 - 5	M6x16 - SW3	4.25	30100
6	M5x16 - SW2,5	3.99	30000
8	M6x16 - SW3	4.25	30100
10	M8x1x16 - SW4	4.52	30200
12 - 14	M10x1x14 - SW5	4.78	30300
16 - 18	M12x1x16 - SW6	5.05	30400
20 - 32	M16x1x16 - SW8	5.31	30500

Sidelock holder (Weldon)

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



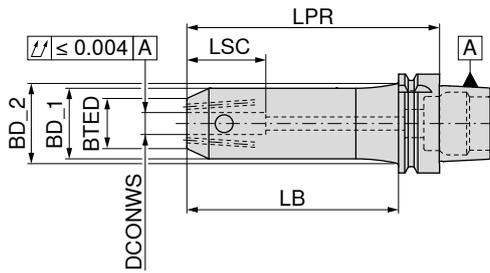
	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		
									£ Y8		£ Y8		£ Y8		£ Y8		
short	HSK-A 63	6	65	30	17	39	34		317.73	606	257.18	606 ¹⁾					
	HSK-A 63	8	65	32	20	39	34		317.73	608	257.18	608 ¹⁾					
	HSK-A 63	10	65	35	25	39	39		291.33	610	257.18	610 ¹⁾					
	HSK-A 63	12	80	42	30	54	44		291.33	612	263.43	612 ¹⁾					
	HSK-A 63	14	80	45	32	54	44		291.33	614	263.43	614 ¹⁾					
	HSK-A 63	16	80	48	36	54	47		291.33	616	263.43	616 ¹⁾					
	HSK-A 63	18	80	48	38	54	47		291.33	618	263.43	618 ¹⁾					
	HSK-A 63	20	80	52	40	54	49		291.33	620	263.43	620 ¹⁾					
	HSK-A 63	25	110	63	45	84	54		307.04	625	308.43	625 ¹⁾					
	HSK-A 63	32	110	72	52	84	58		343.72	632	308.43	632 ¹⁾					
	HSK-A 100	6	80	30	17	51	34		411.98	106							
	HSK-A 100	8	80	32	20	51	34		398.87	108							
	HSK-A 100	10	80	35	25	51	39		385.90	110							
	HSK-A 100	12	80	42	30	51	44		385.90	112							
	HSK-A 100	14	80	45	32	51	44		385.90	114							
	HSK-A 100	16	100	48	36	71	47		385.90	116							
	HSK-A 100	18	100	48	38	71	47		385.90	118							
	HSK-A 100	20	100	52	40	71	49		385.90	120							
	HSK-A 100	25	100	65	45	71	54		398.87	125							
HSK-A 100	32	100	72	52	71	58		409.38	132								
HSK-A 100	40	110	80	60	81	68		542.27	140								
long	HSK-A 63	6	100	30	17	74	34	36.2			362.28	606	273.02	606 ¹⁾			
	HSK-A 63	8	100	32	20	74	34	38.2			351.73	608	289.08	608 ¹⁾			
	HSK-A 63	10	100	35	25	74	39	41.2			351.73	610	263.43	610 ¹⁾			
	HSK-A 63	12	100	42	30	74	44				274.74	612	204.60	612 ¹⁾			
	HSK-A 63	14	100	45	32	74	44				274.74	614	204.60	614 ¹⁾			
	HSK-A 63	16	100	48	36	74	47				274.74	616	204.60	616 ¹⁾			
	HSK-A 63	18	100	48	38	74	47				274.74	618	204.60	618 ¹⁾			
HSK-A 63	20	100	52	40	74	49				274.74	620	204.60	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**

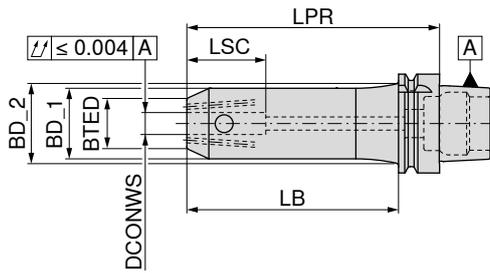


	Adapter	DCONWS mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	G 2,5 n _{max} 18000			
									84 706 ...		84 708 ...	
									£ Y8		£ Y8	
medium length	HSK-A 63	6	130	30	17	104	34	36.2	317.61	606	224.08	606
	HSK-A 63	8	130	32	20	104	34	38.2	303.96	608	218.24	608
	HSK-A 63	10	130	35	25	104	39	41.2	303.96	610	218.24	610
	HSK-A 63	12	130	42	30	104	44	48.2	303.96	612	218.24	612
	HSK-A 63	14	130	45	32	104	44	50.5	303.96	614	218.24	614
	HSK-A 63	16	130	48	36	104	47	50.1	303.96	616	218.24	616
	HSK-A 63	18	130	48	38	104	47	50.1	303.96	618	218.24	618
	HSK-A 63	20	130	52	40	104	49		303.96	620	233.81	620
	HSK-A 63	25	130	63	45	104	54		467.65	625		
	HSK-A 63	32	130	72	52	104	58		467.65	632		

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

Sidelock holder (Weldon)

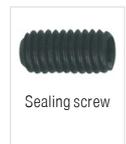
- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



G 2,5 n_{max} 18000

84 707 ...

	Adapter	DCONWS _{H5} mm	LPR mm	BD_1 mm	BTED mm	LB mm	LSC mm	BD_2 mm	£	
									Y8	
extra-long	HSK-A 63	6	160	30	17	134	34	36.2	435.60	606
	HSK-A 63	8	160	32	20	134	34	38.2	419.92	608
	HSK-A 63	10	160	35	25	134	39	41.2	419.92	610
	HSK-A 63	12	160	42	30	134	44	48.2	419.92	612
	HSK-A 63	14	160	45	32	134	44	50.5	419.92	614
	HSK-A 63	16	160	48	36	134	47	50.1	419.92	616
	HSK-A 63	18	160	48	38	134	47	50.1	419.92	618
	HSK-A 63	20	160	52	40	134	49		419.92	620
	HSK-A 63	25	160	63	45	134	54		419.92	625
	HSK-A 100	6	160	30	17	131	34	38.2	517.07	106
	HSK-A 100	8	160	32	20	131	34	40.2	498.62	108
	HSK-A 100	10	160	35	25	131	39	43.2	490.85	110
	HSK-A 100	12	160	42	30	131	44	50.2	490.85	112
	HSK-A 100	14	160	45	32	131	44	53.2	490.85	114
	HSK-A 100	16	160	48	36	131	47	56.2	490.85	116
	HSK-A 100	18	160	48	38	131	47	56.2	490.85	118
	HSK-A 100	20	160	52	40	131	49	60.2	490.85	120
	HSK-A 100	25	160	65	45	131	54	73.2	490.85	125
HSK-A 100	32	160	72	52	134	58	79.5	490.85	132	



Spare parts

DCONWS _{H5}		£		£	
6	M6x10	7.56	422	M3x6	1.91 411
8	M8x10	7.56	423	M3x6	1.91 411
10	M10x12	9.16	424	M3x6	1.91 411
12 - 14	M12x16	9.16	425	M3x6	1.91 411
16 - 18	M14x16	12.50	426	M3x6	1.91 411
20	M16x16	14.39	427	M3x6	1.91 411
25	M18x2x20	16.56	428	M4x8	1.91 412
32	M20x2x20	20.50	429	M4x8	1.91 412

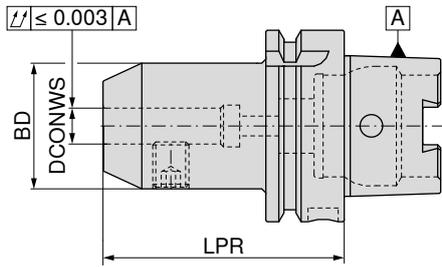
1 Sealing screw for closing of two additional coolant holes.

Accessories



Sidelock holder (Weldon)

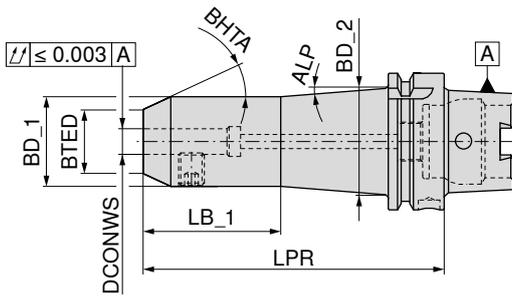
- ▲ For shanks according to DIN 6535 HB / 1835 B with lateral clamping flat
- ▲ also available with Balluff chip **on request**



	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
					£ Y8		£ Y8		£ Y8	
short	HSK-A 32	6	60	25						
	HSK-A 32	8	60	28						
	HSK-A 32	10	65	35						
	HSK-A 32	12	75	42						
	HSK-A 32	16	75	48						
	HSK-A 40	6	60	25						
	HSK-A 40	8	60	28						
	HSK-A 40	10	65	34						
	HSK-A 40	12	70	42						
	HSK-A 40	16	80	48						
	HSK-A 40	20	80	52						
	HSK-A 50	6	65	25						
	HSK-A 50	8	65	28						
	HSK-A 50	10	65	35						
	HSK-A 50	12	80	42						
	HSK-A 50	16	80	48						
	HSK-A 50	20	80	52						
	HSK-A 50	25	105	65						
	HSK-A 50	32	120	72						
	HSK-A 63	6	65	25						
	HSK-A 63	8	65	28						
	HSK-A 63	10	65	35						
	HSK-A 63	12	80	42						
	HSK-A 63	14	80	44						
	HSK-A 63	16	80	48						
	HSK-A 63	18	80	50						
	HSK-A 63	20	80	52						
	HSK-A 63	25	110	65						
	HSK-A 63	32	110	72						
	HSK-A 63	40	125	80						
	HSK-A 100	6	80	25						
	HSK-A 100	8	80	28						
HSK-A 100	10	80	35							
HSK-A 100	12	80	42							
HSK-A 100	14	80	44							
HSK-A 100	16	100	48							
HSK-A 100	18	100	50							
HSK-A 100	20	100	52							
HSK-A 100	25	100	65							
HSK-A 100	32	100	72							
HSK-A 100	40	105	80							
long	HSK-A 63	6	100	25	304.33	606				
	HSK-A 63	8	100	28	302.15	608				
	HSK-A 63	10	100	35	302.15	610				
	HSK-A 63	12	100	42	302.15	612				
	HSK-A 63	16	100	48	302.15	616				
	HSK-A 63	40	125	80	335.56	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	£	
extra-long	HSK-A 63	6	160	25	34.7	15	50	3.5	25°	361.44	606
	HSK-A 63	8	160	28	37.9	20	50	3.5	25°	361.44	608
	HSK-A 63	10	160	35	43.7	25	60	3.5	25°	361.44	610
	HSK-A 63	12	160	42		30			25°	361.44	612 ¹⁾
	HSK-A 63	16	160	48		36			25°	361.44	616 ¹⁾
	HSK-A 63	20	160	52		40			25°	371.46	620 ¹⁾
	HSK-A 100	6	160	25	45.2	15	50	7.5	25°	474.36	106
	HSK-A 100	8	160	28	48.7	20	50	7.5	25°	463.68	108
	HSK-A 100	10	160	35	51.2	25	65	7.5	25°	463.68	110
	HSK-A 100	12	160	42	59.5	30	60	7.5	25°	463.68	112
HSK-A 100	16	160	48	62.9	36	70	7.5	25°	463.68	116	
HSK-A 100	20	160	52	69.6	40	60	7.5	25°	463.68	120	
HSK-A 100	25	160	65	77.5	45	80	7.5	45°	423.89	125	

£
Y8

1) Cylindrical shank adapter



62 950 ...

Spare parts

DCONWS _{H4}		£	
6	M6x10	0.91	006
8	M8x10	0.91	008
10	M10x12	1.75	010
12	M12x16	1.39	012
16	M14x16	1.71	016
20	M16x16	1.83	020
25	M18x2x20	3.53	025

Accessories



Coolant transfer pipe

→ 163

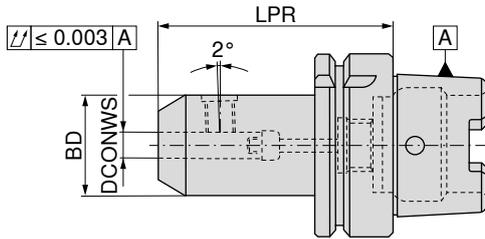


Others

→ 273

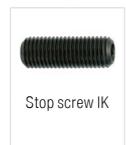
Tool holder for tools with angled clamping flat (Whistle Notch)

- ▲ 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

	Adapter	DCONWS _{H4} mm	LPR mm	BD mm	81 733 ...	
					£	Y8
short	HSK-A 63	6	80	25	291.28	606
	HSK-A 63	8	80	28	276.17	608
	HSK-A 63	10	80	35	276.17	610
	HSK-A 63	12	90	42	276.17	612
	HSK-A 63	14	90	44	276.17	614
	HSK-A 63	16	100	48	276.17	616
	HSK-A 63	18	100	50	276.17	618
	HSK-A 63	20	100	52	276.17	620
	HSK-A 63	25	110	65	301.13	625
	HSK-A 63	32	110	72	321.21	632
	HSK-A 100	6	90	25	374.15	106
	HSK-A 100	8	90	28	363.64	108
	HSK-A 100	10	90	35	363.64	110
	HSK-A 100	12	100	42	363.64	112
	HSK-A 100	14	100	44	363.64	114
	HSK-A 100	16	100	48	363.64	116
	HSK-A 100	18	100	50	363.64	118
	HSK-A 100	20	110	52	363.64	120
	HSK-A 100	25	120	65	390.03	125
	HSK-A 100	32	120	72	400.68	132
HSK-A 100	40	120	80	411.06	140	



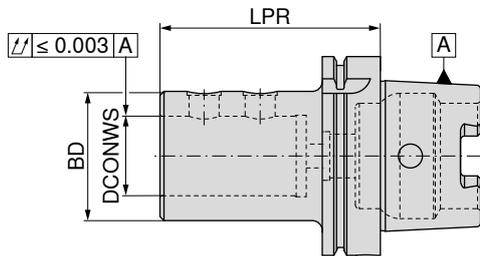
Spare parts DCONWS _{H4}	62 950 ...			81 950 ...		
		£			£	
6	M6x10	0.91	006	M5x15	2.97	050
8	M8x10	0.91	008	M6x15	3.13	051
10	M10x12	1.75	010	M8x15	3.58	052
12 - 14	M12x16	1.39	012	M10x15	3.58	053
16 - 18	M14x16	1.71	016	M12x15	4.18	054
20	M16x16	1.83	020	M16x15	4.64	055
25	M18x2x20	3.53	025	M20x15	5.13	056
32	M20x2x20	3.69	032	M20x15	5.13	056
40	M20x2x20	3.69	032	M22x1,5x15	6.72	057

Accessories



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	£	
HSK-A 63	20	80	40	2E/45	10 842 ...
HSK-A 63	25	90	45	166.86	320
HSK-A 63	32	90	52	166.86	325
HSK-A 63	40	110	65	166.86	332
				166.86	340
HSK-A 100	20	90	40	187.09	420
HSK-A 100	25	100	45	187.09	425
HSK-A 100	32	100	52	187.09	432
HSK-A 100	40	110	65	187.09	440
HSK-A 100	50	120	75	187.09	450

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



Spare parts

DCONWS		£	
20	M10x1x10	2A/28	001
25 - 32	M12x1x10	3.66	002
40 - 50	M16x1x12	3.66	003

Accessories

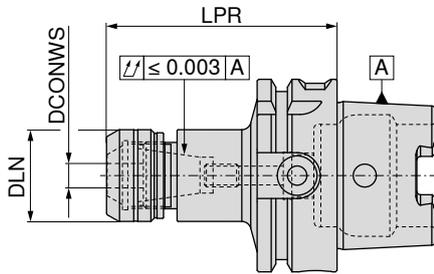


ER Precision Collet chuck – PCC

- ▲ 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



G 2,5 n_{max} 25000

82 700 ...

Adapter	DCONWS mm	LPR mm	DLN mm	for collet	Torque moment / Clamping force Nm	£ Y8	
HSK-A 63	1 - 10	75	30	426E (ER16)	40 / 2-70	233.81	11057
HSK-A 63	1 - 10	100	30	426E (ER16)	40 / 2-70	245.58	21057
HSK-A 63	2 - 16	75	40	430E (ER25)	80 / 10-160	233.81	11657
HSK-A 63	2 - 16	100	40	430E (ER25)	80 / 10-160	245.58	21657
HSK-A 63	2 - 20	75	50	470E (ER32)	125 / 15-250	233.81	12057
HSK-A 63	2 - 20	100	50	470E (ER32)	125 / 15-250	245.58	22057
HSK-A 100	2 - 16	100	40	430E (ER25)	80 / 10-160	406.78	21655
HSK-A 100	2 - 16	160	40	430E (ER25)	80 / 10-160	545.23	41655
HSK-A 100	2 - 20	100	50	470E (ER32)	125 / 15-250	406.78	22055
HSK-A 100	2 - 20	160	50	470E (ER32)	125 / 15-250	545.23	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		Lock nut		Backstop screw PCC 2		Backstop screw PCC 1			
	£ Y8		£ Y8		£ Y8		£ Y8			
426E (ER16)	68.07	11000	64.14	01000			M8X3,0	6.41	00100	
430E (ER25)	68.07	11600	64.14	01600	M18x1,5	8.72	00200	M8x8	6.41	00300
470E (ER32)	68.07	12000	64.14	02000	M18x1,5	8.72	00200	M8x8	6.41	00300

Accessories



→ 256-266

→ 270

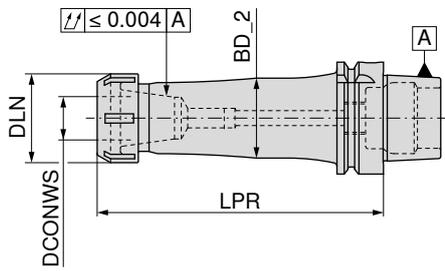
→ 275

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		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000	
								£ Y8		£ Y8		£ Y8	
long	HSK-A 63	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	348.98	610				
	HSK-A 63	1 - 16	100	42	37	24 - 104	430E (ER25)	399.92	616				
	HSK-A 63	2 - 20	100	50	45	24 - 136	470E (ER32)	434.92	620				
	HSK-A 63	3 - 26	100	63	52	176	472E (ER40)	506.57	626				
	HSK-A 100	1 - 10	100	22	27	8 - 56	426E (ER16 mini)	446.29	110				
	HSK-A 100	1 - 16	100	42	37	24 - 104	430E (ER25)	498.62	116				
	HSK-A 100	2 - 20	100	50	45	24 - 136	470E (ER32)	535.38	120				
	HSK-A 100	3 - 26	100	63	56	176	472E (ER40)	569.39	126				
extra-long	HSK-A 63	1 - 10	160	22	27	8 - 56	426E (ER16 mini)					425.26	610
	HSK-A 63	1 - 16	160	42	37	24 - 104	430E (ER25)					496.02	616
	HSK-A 63	2 - 20	160	50	45	24 - 136	470E (ER32)					504.93	620
	HSK-A 63	3 - 26	160	63	52	176	472E (ER40)					551.23	626
	HSK-A 100	1 - 10	200	22	27	8 - 56	426E (ER16 mini)					737.48	110
	HSK-A 100	1 - 16	200	42	37	24 - 104	430E (ER25)					737.48	116
	HSK-A 100	2 - 20	200	50	45	24 - 136	470E (ER32)					768.74	120
	HSK-A 100	3 - 26	200	63	56	176	472E (ER40)					831.74	126
	HSK-A 100	1 - 10	160	22	27	8 - 56	426E (ER16 mini)			535.38	110		
	HSK-A 100	1 - 16	160	42	37	24 - 104	430E (ER25)			587.83	116		
	HSK-A 100	2 - 20	160	50	45	24 - 136	470E (ER32)			624.44	120		
	HSK-A 100	3 - 26	160	63	56	176	472E (ER40)			677.10	126		

Spare parts for collet	Lock nut IK		Lock nut		Y clamping key		ER Mini clamping key		Mini lock nut		Mini IK		Stop screw IK	
	£ Y8		£ W7		£ Y8		£ Y8		£ W7		£ Y8		£ W7	
426E (ER16 mini)							37.35	101	35.07	066	84.36	058	9.02	403
430E (ER25)	79.92	055	22.08	055	23.31	125								
470E (ER32)	85.48	056	22.64	056	33.95	132								
472E (ER40)	102.87	057	23.45	057	38.47	140								

Accessories

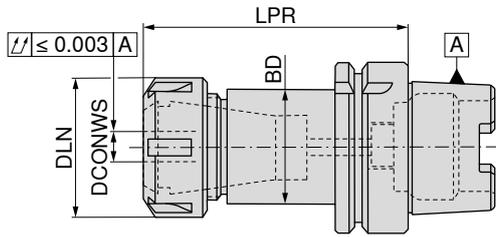
ER collet	Coolant transfer pipe	Others
→ 256-266	→ 163	→ 273

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 ...	81 737 ...	
								£ Y8	£ Y8	
short	HSK-A 32	1 - 10	65	22	19	8 - 56	426E (ER16 mini)	281.25	316	
	HSK-A 32	1 - 16	70	35	30	24 - 104	430E (ER25 mini)	281.25	325	
	HSK-A 40	1 - 10	70	22	22	8 - 56	426E (ER16 mini)	266.28	416	
	HSK-A 40	1 - 16	80	42	35	24 - 104	430E (ER25)	261.05	425	
	HSK-A 50	1 - 10	80	22	22	8 - 56	426E (ER16 mini)	271.07	516	
	HSK-A 50	1 - 16	95	42	42	24 - 104	430E (ER25)	266.28	525	
long	HSK-A 40	2 - 20	100	50	40	24 - 136	470E (ER32)	271.07	432	
	HSK-A 50	2 - 20	100	50	50	24 - 136	470E (ER32)	271.07	532	
	HSK-A 63	1 - 10	100	22	19	8 - 56	426E (ER16 mini)	230.55	616	
	HSK-A 63	1 - 16	100	42	32	24 - 104	430E (ER25)	271.07	625	
	HSK-A 63	2 - 20	100	50	50	24 - 136	470E (ER32)	281.25	632	
	HSK-A 100	1 - 16	100	42	42	24 - 104	430E (ER25)	350.37	125	
HSK-A 100	2 - 20	100	50	50	24 - 136	470E (ER32)	368.98	132		
medium length	HSK-A 40	1 - 16	120	35	35	24 - 104	430E (ER25 mini)		341.37	425
	HSK-A 63	2 - 26	120	63	50	176	472E (ER40)	296.21	640	
	HSK-A 100	3 - 26	120	63	50	176	472E (ER40)	395.20	140	
extra-long	HSK-A 63	2 - 20	160	50	50	24 - 136	470E (ER32)		381.61	632
	HSK-A 63	3 - 26	160	63	63	176	472E (ER40)		391.49	640
	HSK-A 100	1 - 16	160	42	42	24 - 104	430E (ER25)		455.31	125
	HSK-A 100	2 - 20	160	50	50	24 - 136	470E (ER32)		469.02	132
	HSK-A 100	3 - 26	160	63	63	176	472E (ER40)		490.09	140

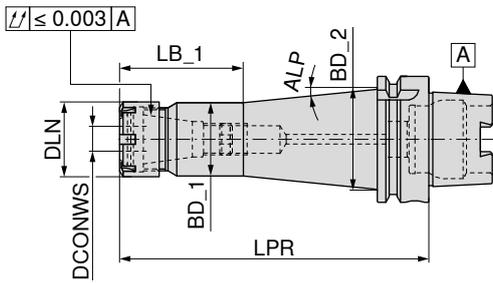
Spare parts for collet	Lock nut IK		Lock nut		Y clamping key		ER Mini clamping key		Mini lock nut		Mini IK		Stop screw IK	
	£ Y8		£ W7		£ Y8		£ Y8		£ W7		£ Y8		£ Y8	
426E (ER16 mini)							37.35	101	35.07	066	84.36	058	3.58	053
430E (ER25 mini)							36.77	103	58.40	069	95.01	060	4.64	055
430E (ER25)	79.92	055	22.08	055	23.31	125							4.64	055
470E (ER32)	85.48	056	22.64	056	33.95	132							6.72	057
472E (ER40)	102.87	057	23.45	057	38.47	140							6.72	057

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	£	
medium length	HSK-A 40	1 - 10	120	22	22	29.15	47	4°	8 - 56	426E (ER16 mini)	341.37	416
extra-long	HSK-A 63	1 - 10	160	22	22	35.00	57	5°	8 - 56	426E (ER16 mini)	391.49	616
	HSK-A 63	1 - 16	160	35	35	46.10	68	5°	24 - 104	430E (ER25 mini)	381.61	625

Spare parts for collet	Lock nut IK	Lock nut	Y clamping key	ER Mini clamping key	Mini lock nut	Mini IK	Stop screw IK				
	£ Y8	£ W7	£ Y8	£ Y8	£ W7	£ Y8	£ Y8				
426E (ER16 mini)	83 950 ...	62 950 ...	83 357 ...	83 950 ...	62 950 ...	83 950 ...	81 950 ...				
430E (ER25 mini)				37.35	101	35.07	066	84.36	058	3.58	053
430E (ER25)				36.77	103	58.40	069	95.01	060	4.64	055
470E (ER32)		79.92	055	22.08	055	23.31	125			4.64	055
472E (ER40)		85.48	056	22.64	056	33.95	132			6.72	057
		102.87	057	23.45	057	38.47	140			6.72	057

Accessories

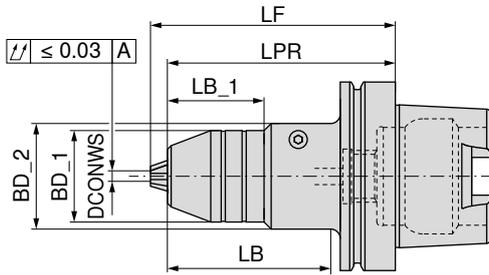
ER collet	Coolant transfer pipe	Others
→ 259, 261-265	→ 163	→ 273

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		
HSK-A 63	0,5 - 13	48.5	56	50.9		126.0	116.9		
HSK-A 63	2,5 - 16	51.0	56	50.9		127.5	116.9		
HSK-A 100	0,5 - 13	48.5	56	50.9	86	129.0	120.0		
HSK-A 100	2,5 - 16	51.0	56	50.9	86	130.5	120.0		

£	
Y8	
575.94	613
608.43	616
818.32	113
855.68	116

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

Accessories

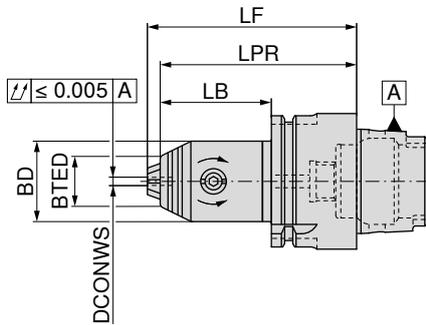


Micro-precision collet chuck

- ▲ 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 ...	
HSK-A 32	0,2 - 3,4	26	46	49	19	12	2	£ Y7	
HSK-A 40	0,2 - 3,4	26	46	49	19	12	2	1,195.60	334
HSK-A 50	0,2 - 3,4	26	52	55	19	12	2	1,288.93	434
								1,334.33	534

Spare parts for Article no.

Article no.	£ Y7	Quantity	Quantity	£ Y7	Quantity
84 710 334	9.42	152	1,8 Nm	122.33	018
84 710 434	9.42	152	1,8 Nm	122.33	018
84 710 534	9.42	152	1,8 Nm	122.33	018

TORX® blade

80 950 ...

£
Y7

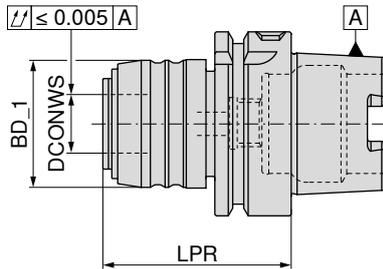
Torque
screwdriver

80 021 ...

£
Y7

Synchro tapping chuck with minimum length compensation

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



Adapter	cutting range	SZID	DCONWS mm	LPR mm	BD_1 mm	LZD± mm
HSK-A 63	M3 - M12	1	20	64	43	1,0 / 0,2
HSK-A 63	M6 - M20	2	32	97	60	1,0 / 0,2
HSK-A 100	M3 - M12	1	20	70	43	1,0 / 0,2
HSK-A 100	M6 - M20	2	32	91	60	1,0 / 0,2

83 724 ...

£	
Y8	
360.42	612
448.29	620
569.39	112
673.86	120

Accessories



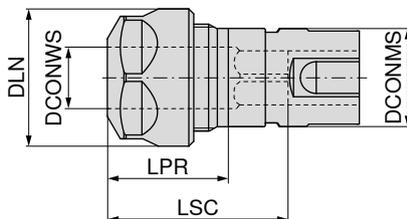
Coolant transfer pipe → 163
Others → 273

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
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32

83 608 ...

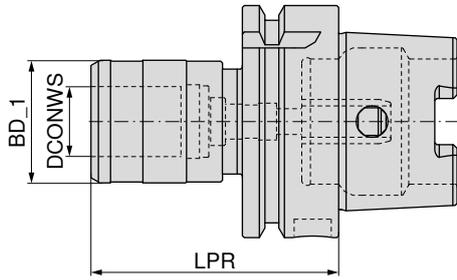
£	
Y8	
195.17	012
227.34	020

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.	£ W7	£ Y8	£ W7	£ Y8
83 608 012	M22x1,5 - SW25 26.65 044	M22x1,5 68.61 054		23.31 116
83 608 020		M32x1,5 79.92 055	M32x1,5 22.08 055	23.31 125

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	BD_1	DCONWS	LZD±
		mm	mm	mm	mm
HSK-A 63	01	72	41	19	7,5
HSK-A 63	02	110	60	31	10
HSK-A 100	01	80	41	19	7,5
HSK-A 100	02	100	60	31	10

83 712 ...

£

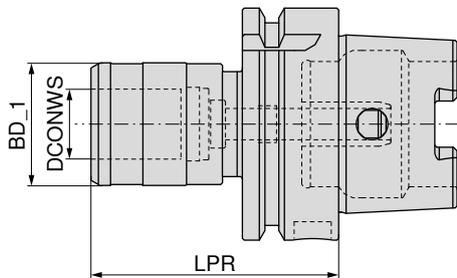
Y8

792.24 612
921.26 620

1,336.44 112
1,174.76 120

Quick change tap chuck without length compensation

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



Adapter	cutting range	SZID	LPR	BD_1	DCONWS
			mm	mm	mm
HSK-A 63	M3 - M12	01	63	33	19
HSK-A 63	M6 - M20	02	89	50	31
HSK-A 100	M3 - M12	01	69	33	19
HSK-A 100	M6 - M20	02	92	50	31

83 710 ...

£

Y8

533.72 612
673.86 620

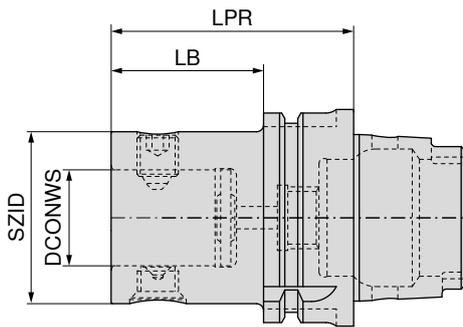
668.40 112
822.29 120

Accessories

		
Collet	Coolant transfer pipe	Others
→ 277-281	→ 163	→ 273

Adapter with ABS Connection

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



G 6,3 n_{max} 10000

84 200 ...

Adapter	KOMET no.	SZID	DCONWS	LPR	LB		
			mm	mm	mm		£
HSK-A 63	A06 30120	ABS 25	13	50	24		3E
HSK-A 63	A06 30130	ABS 32	16	50	24	768.63	06390
HSK-A 63	A06 30140	ABS 40	20	60	34	768.63	06389
HSK-A 63	A06 30150	ABS 50	28	70	44	789.93	06388
HSK-A 63	A06 30160	ABS 63	34	80	54	378.19	06397
HSK-A 63	A06 30170	ABS 80	46	100	74	821.87	06396
						873.05	06392
HSK-A 100	A06 50120	ABS 25	13	60	31	936.94	10090
HSK-A 100	A06 50130	ABS 32	16	60	31	936.94	10089
HSK-A 100	A06 50140	ABS 40	20	80	51	956.18	10088
HSK-A 100	A06 50150	ABS 50	28	80	51	454.65	10097
HSK-A 100	A06 50160	ABS 63	34	80	51	1,000.82	10096
HSK-A 100	A06 50170	ABS 80	46	90	61	1,045.45	10092
HSK-A 100	A06 50180	ABS 100	56	100	71	1,109.34	10091

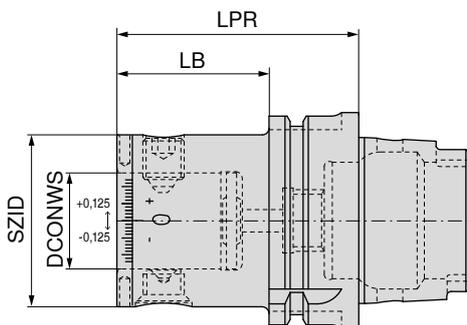
Eccentric adjuster with ABS Connection

▲ 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

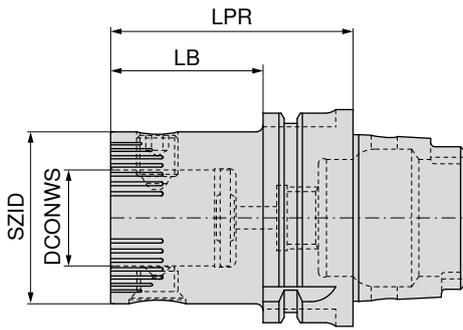


84 203 ...

Adapter	KOMET no.	SZID	DCONWS	LPR	LB		
			mm	mm	mm		£
HSK-A 63	A06 36730	ABS 50	28	70.0	39.5	573.20	06397
HSK-A 100	A06 56730	ABS 50	28	75.5	46.5	651.36	10097
HSK-A 100	A06 56740	ABS 63	34	80.0	51.0	790.37	10096

Torsional vibration dampers with ABS Connection

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



Adapter	KOMET no.	SZID	DCONWS	LPR	LB	84 206 ...	
			mm	mm	mm	£	
HSK-A 63	A06 30251	ABS 50	28	70	44	676.01	06397
HSK-A 63	A06 30261	ABS 63	34	80	54	663.41	06396
HSK-A 63	A06 30270	ABS 80	46	100	74	931.63	06392
HSK-A 100	A06 50261	ABS 63	34	80	51	733.09	10096
HSK-A 100	A06 50251	ABS 50	28	80	51	792.17	10097
HSK-A 100	A06 50270	ABS 80	46	90	61	999.41	10092

Spare parts

SZID

	£	84 950 ...	£	84 950 ...	£	84 950 ...
ABS 50	XX	20300	XX	99800	XX	20400
ABS 63	8.63	25500	19.57	99400	10.97	27300
ABS 80	8.22	25600	18.45	99300	10.42	25100
	10.10		22.38		12.30	

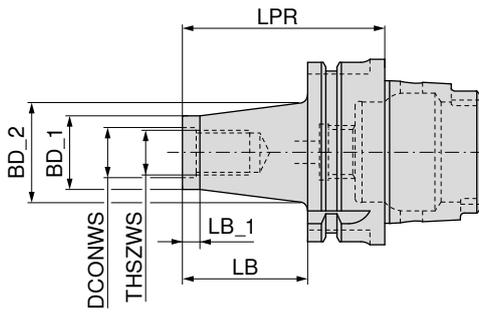
Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
£	£	£
XX	XX	XX
8.63	19.57	10.97
20300	99800	20400
8.22	18.45	10.42
25500	99400	27300
10.10	22.38	12.30
25600	99300	25100

Accessories

Coolant transfer pipe	Extension	Others
→ 163	→ 193	→ 273

Adapter for milling cutters with threaded end

▲ also available with Balluff chip on request



G 2,5 n_{max} 30000

56 714 ...

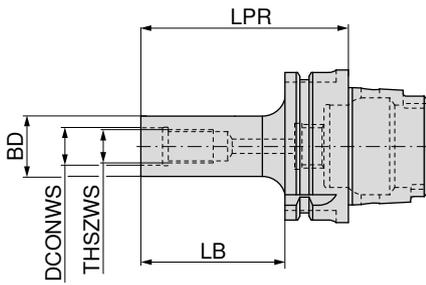
Adapter	THSZWS	DCONWS	LB	BD_1	BD_2	LB_1	LPR	£	WA
HSK-A 63	M8	8.5	25	13.8	15	12	51	448.54	081
HSK-A 63	M8	8.5	50	13.8	23	12	76	453.32	082
HSK-A 63	M8	8.5	75	13.8	25	12	101	458.27	083
HSK-A 63	M8	8.5	100	13.8	30	12	126	463.07	084
HSK-A 63	M10	10.5	25	18.0	23	12	51	448.54	101
HSK-A 63	M10	10.5	50	18.0	25	12	76	453.32	102
HSK-A 63	M10	10.5	75	18.0	30	12	101	458.27	103
HSK-A 63	M10	10.5	100	18.0	35	12	126	463.07	104
HSK-A 63	M12	12.5	25	21.0	24	12	51	448.54	121
HSK-A 63	M12	12.5	50	21.0	30	12	76	453.32	122
HSK-A 63	M12	12.5	75	21.0	35	12	101	458.27	123
HSK-A 63	M12	12.5	100	21.0	38	12	126	463.07	124
HSK-A 63	M12	12.5	125	21.0	43	12	151	468.02	125
HSK-A 63	M12	12.5	150	21.0	45	12	176	472.82	126
HSK-A 63	M16	17.0	25	29.0	29	12	51	448.54	161
HSK-A 63	M16	17.0	50	29.0	34	12	76	453.32	162
HSK-A 63	M16	17.0	75	29.0	35	12	101	458.27	163
HSK-A 63	M16	17.0	100	29.0	40	12	126	463.07	164
HSK-A 63	M16	17.0	125	29.0	44	12	151	470.00	165
HSK-A 63	M16	17.0	150	29.0	48	12	176	472.82	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

56 719 ...

Adapter	THSZWS	DCONWS	BD	LB	LPR	£	WA
HSK-A 63	M8	8.5	13.8	50	76	325.41	082
HSK-A 63	M10	10.5	18.0	50	76	325.41	102
HSK-A 63	M10	10.5	18.0	100	126	374.12	104
HSK-A 63	M12	12.5	21.0	50	76	325.41	122
HSK-A 63	M12	12.5	21.0	100	126	374.12	124
HSK-A 63	M16	17.0	29.0	50	76	325.41	162
HSK-A 63	M16	17.0	29.0	100	126	374.12	164

Accessories

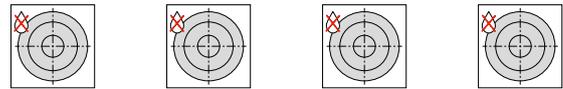
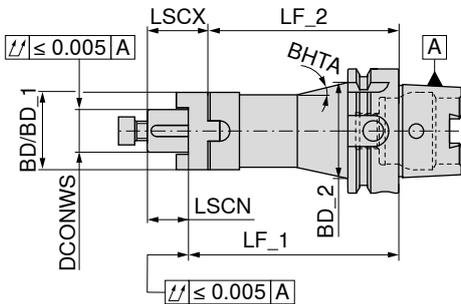
Extension-Reduction set → 245	Coolant transfer pipe → 163	Others → 273

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		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		G 2,5 n _{max} 18000		
											£ Y8		£ Y8		£ Y8		£ Y8		
short	HSK-A 63	16	60	50	32			27	17		276.30	616							
	HSK-A 63	22	60	48	40			31	19		282.26	622							
	HSK-A 63	27	60	48	48			33	21		294.45	627							
	HSK-A 63	32	60	46	53			38	24		304.05	632							
	HSK-A 63	40	70	56	70			41	27		309.70	640							
long	HSK-A 100	16	60	50	32			27	17				400.24	116					
	HSK-A 100	22	60	48	40			31	19				405.28	122					
	HSK-A 100	27	60	48	48			33	21				410.30	127					
	HSK-A 100	32	60	46	58			38	24				425.26	132					
	HSK-A 100	40	70	56	70			41	27				435.17	140					
extra-long	HSK-A 63	16	100	90	32			27	17						309.70	616			
	HSK-A 63	22	100	88	40			31	19						309.70	622			
	HSK-A 63	27	100	88	48			33	21						314.63	627			
	HSK-A 63	32	100	86	58			38	24						328.74	632			
	HSK-A 63	40	100	86	70			41	27						381.16	640			
extra-long	HSK-A 63	16	160	150		32	43.21	27	17	4.5°								347.63	616
	HSK-A 63	22	160	148		40	47.25	31	19	3.0°							347.63	622	
	HSK-A 63	27	160	148	48			33	21								352.57	627	
	HSK-A 63	32	160	146	58			38	24								371.46	632	
HSK-A 63	40	160	146	70			41	27								433.62	640		



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



Spare parts

DCONWS		83 950 ...		83 370 ...		81 950 ...	
		£ Y8		£ Y8		£ Y8	
16	4 x 4 x 20	3.45	284	12.74	116	5.81	020
22	6 x 6 x 25	3.45	285	12.23	122	6.69	021
27	7 x 7 x 25	5.48	286	15.26	127	8.16	022
32	8 x 7 x 28	3.90	287	16.01	132	10.37	023
40	10 x 8 x 32	4.60	288	26.96	140		

Accessories



→ 253

→ 163

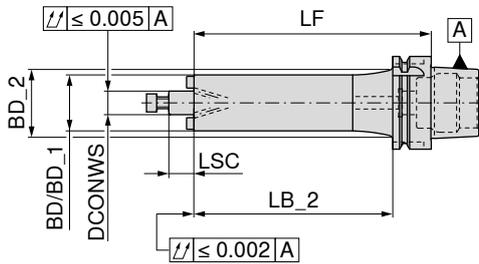
→ 273

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 ...	£ Y8	84 754 ...	£ Y8	84 755 ...	£ Y8	84 757 ...	£ Y8		
short	HSK-A 63	16	34	60	38			17	348.98	616								
	HSK-A 63	22	34	60	48			19	362.28	622								
	HSK-A 63	27	34	60	58			21	385.90	627								
	HSK-A 63	32	34	60	72			24	406.80	632								
	HSK-A 63	40	34	70	80			27	419.92	640								
	HSK-A 100	16	31	60	38			17	419.92	116								
	HSK-A 100	22	31	60	48			19	435.60	122								
	HSK-A 100	27	31	60	58			21	451.34	127								
	HSK-A 100	32	31	60	72			24	469.78	132								
	HSK-A 100	40	41	70	80			27	490.85	140								
long	HSK-A 63	16	74	100		38	44.3	17			385.90	616						
	HSK-A 63	22	74	100		48	50.3	19			398.87	622						
	HSK-A 63	27	74	100	58			21			419.92	627						
	HSK-A 63	32	74	100	72			24			440.82	632						
	HSK-A 63	40	74	100	80			27			456.67	640						
	HSK-A 100	16	71	100		38	46.3	17			469.78	116						
	HSK-A 100	22	71	100		48	56.3	19			490.85	122						
	HSK-A 100	27	71	100		58	66.3	24			509.12	127						
	HSK-A 100	32	71	100		72	80.3	24			527.45	132						
	HSK-A 100	40	71	100	80			27			545.91	140						
medium length	HSK-A 63	16	104	130		38	44.3	17					509.10	616				
	HSK-A 63	22	104	130		48	50.3	19					509.10	622				
	HSK-A 63	27	104	130	58			21					539.55	627				
	HSK-A 63	32	104	130	72			24					539.55	632				
	HSK-A 63	40	104	130	80			27					564.45	640				
	HSK-A 100	16	101	130		38	46.3	17					542.30	116				
	HSK-A 100	22	101	130		48	56.3	19					564.45	122				
	HSK-A 100	27	101	130		58	66.3	21					600.43	127				
	HSK-A 100	32	101	130		72	80.3	24					608.72	132				
	HSK-A 100	40	101	130	80			27					639.16	140				
extra-long	HSK-A 63	16	134	160		38	44.3	17							427.86	616		
	HSK-A 63	22	134	160		48	50.3	19							446.29	622		
	HSK-A 63	27	134	160	58			21							461.86	627		
	HSK-A 63	32	134	160	72			24							480.32	632		
	HSK-A 63	40	134	160	80			27							498.62	640		
	HSK-A 100	16	131	160		38	46.3	17							535.38	116		
	HSK-A 100	22	131	160		48	56.3	19							545.91	122		
	HSK-A 100	27	131	160		58	66.3	21							561.60	127		
	HSK-A 100	32	131	160		72	80.3	24							577.31	132		
	HSK-A 100	40	131	160	80			27							600.97	140		

Spare parts facemill adapters

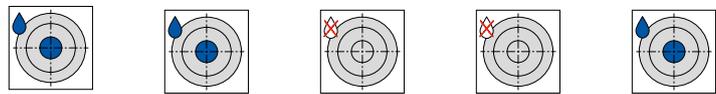
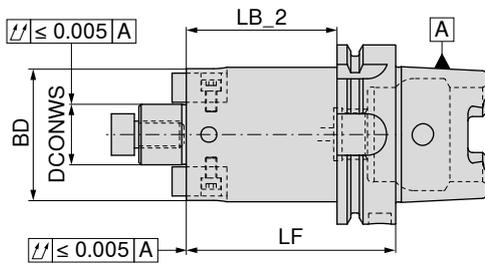
		Parallel key		Drive dogs		Differential screw		clamping screw				
		83 950 ...		62 950 ...		62 950 ...		83 950 ...				
Spare parts		£		£		£		£				
DCONWS		Y8		W7		W7		Y8				
16	4 x 4 x 20	3.45	284	M4x15	23.40	442	M8x16 - SW6	57.82	433	M8x25	5.93	113
22	6 x 6 x 25	3.45	285	M5x17	23.40	443	M10x18 - SW8	66.54	434	M10x25	6.70	124
27	7 x 7 x 25	5.48	286	M6x21	23.40	444	M12x20 - SW10	73.51	435	M12x30	7.40	125
32	8 x 7 x 28	3.90	287	M6x22	23.40	445	M16x26 - SW12	90.79	436	M16x35	9.02	126
40	10 x 8 x 32	4.60	288	M6x23	23.40	446	M20x30 - SW14	119.98	437	M20x40 - SW17	9.94	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		Y8		Y8		Y8		Y8		Y8	
mm											
LB_2											
mm											
LF											
mm											
BD											
mm											
short	HSK-A 63	16	24	50	38	359.53	216	229.09	616		
	HSK-A 63	22	24	50	48	365.49	222	233.88	622		
	HSK-A 63	27	34	60	58	385.11	227	245.95	627		
	HSK-A 63	32	34	60	78	391.92	232	255.95	632		
	HSK-A 63	40	34	60	88	357.50	240 ¹⁾	275.43	640 ¹⁾		
	HSK-A 100	16	21	50	38						
	HSK-A 100	22	21	50	48	385.31	116				
	HSK-A 100	27	21	50	58	395.20	122				
	HSK-A 100	32	21	50	78	405.28	127				
	HSK-A 100	40	31	60	88	420.21	132				
long	HSK-A 63	16	74	100	38			321.21	616	381.16	616
	HSK-A 63	22	74	100	48			326.26	622	381.16	622
	HSK-A 63	27	74	100	58			331.36	627	404.99	627
	HSK-A 63	32	74	100	78			331.36	632	404.99	632
	HSK-A 63	40	74	100	88			346.33	640 ¹⁾	423.89	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

						
	83 368 ...		83 367 ...		81 950 ...	
Spare parts	£		£		£	
DCONWS	Y8		Y8		Y8	
16	21.07	116	5.60	016	5.81	020
22	26.21	122	6.23	022	6.69	021
27	30.81	127	7.96	027	8.16	022
32	42.00	132	12.50	032	10.37	023
40	41.71	140	13.38	040		
60						

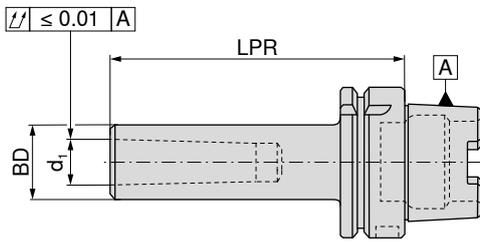
							
	81 950 ...		81 950 ...				
Spare parts	£		£				
DCONWS	Y8		Y8				
16		8x8x14	14.34	001	M3x8	1.02	010
22		10x10x17	14.81	002	M4x8	1.33	011
27		12x14x20	16.33	003	M4x14	1.37	012
32		14x14x22	16.15	004	M5x13	1.54	013
40		15,9x16x21	23.03	005	M6x16	1.69	014
60		25,4x25x31	30.40	006	M12x25	8.18	015

Accessories

		
Extensions	Coolant transfer pipe	Others
→ 252	→ 163	→ 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	BD	£	
		mm	mm	Y8	
HSK-A 63	MK1	100	25	261.05	601
HSK-A 63	MK2	120	32	271.07	602
HSK-A 63	MK3	140	40	281.25	603
HSK-A 63	MK4	160	48	321.21	604
HSK-A 100	MK1	110	25	322.13	101
HSK-A 100	MK2	120	32	337.26	102
HSK-A 100	MK3	150	40	347.93	103
HSK-A 100	MK4	170	48	379.48	104
HSK-A 100	MK5	200	63	460.20	105

Accessories

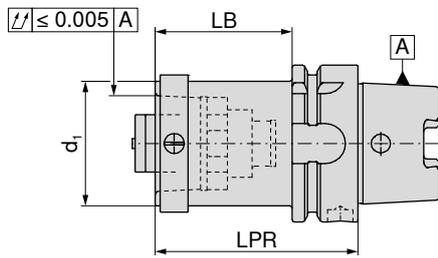
		
Morse taper adapter sleeve	Coolant transfer pipe	Others
→ 230	→ 163	→ 273

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



Adapter	d ₁	LB mm	LPR mm
HSK-A 63	HSK-A 40	54	80
HSK-A 63	HSK-A 50	54	80
HSK-A 100	HSK-A 50	51	80
HSK-A 100	HSK-A 63	71	100

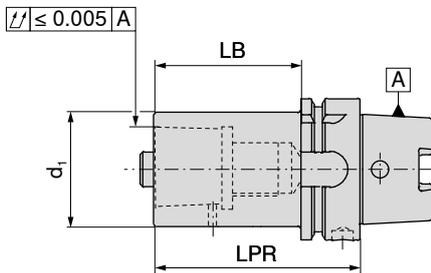
84 040 ...	
£	
Y8	
937.25	06359
954.83	06358
1,111.51	10058
1,111.51	10057

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



Adapter	d ₁	LB mm	LPR mm
HSK-A 63	PSC 32	49	75
HSK-A 63	PSC 40	54	80
HSK-A 63	PSC 50	64	90
HSK-A 100	PSC 32	51	80
HSK-A 100	PSC 40	61	90
HSK-A 100	PSC 50	71	100
HSK-A 100	PSC 63	81	110
HSK-A 100	PSC 80	91	120

84 013 ...	
£	
Y8	
484.41	06387
519.37	06395
519.37	06394
571.35	10087
588.74	10095
606.12	10094
693.44	10093
745.79	10086

Spare parts

d₁

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



84 950 ...

£	
Y8	
41.15	127
41.15	128
41.15	129
82.16	130
82.16	130

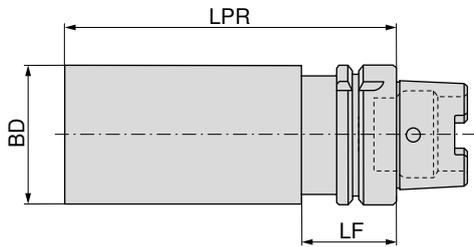


84 950 ...

£	
Y8	
29.87	122
33.67	123
33.67	124
37.47	126
37.47	126

Blank

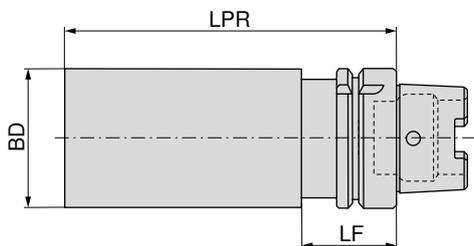
- ▲ Material: 20NiCrMo2
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Tool 35⁺³ HRc
- ▲ also available with Balluff chip **on request**



Adapter	BD mm	LPR mm	LF mm	81 745 ...	
				£	
				Y8	
HSK-A 32	35.0	150	35	190.88	335
HSK-A 40	40.0	150	35	200.78	440
HSK-A 40	52.0	200	35	220.96	452
HSK-A 50	52.0	200	42	240.84	552
HSK-A 50	63.0	200	42	240.84	563
HSK-A 63	63.0	200	42	251.18	663
HSK-A 63	80.0	250	42	281.25	680
HSK-A 100	63.0	200	45	316.21	163
HSK-A 100	80.0	250	45	368.98	180
HSK-A 100	97.5	250	45	453.17	190

Blank

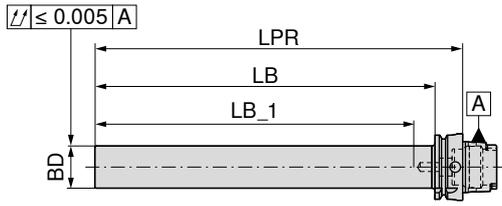
- ▲ For the production of special tools
- ▲ Material: case hardened steel 16MnCr5
- ▲ Taper hardened and ground
- ▲ Tool production area = soft
- ▲ also available with Balluff chip **on request**



Adapter	BD mm	LPR mm	LF mm	84 799 ...	
				£	
				Y8	
HSK 63	63	200	42	234.73	663
HSK 63	80	250	42	268.93	680

Test arbor

Scope of supply:
in wooden box



Adapter	BD mm	LPR mm	LB_1 mm	LB mm
HSK-A 63	40	346	300	320
HSK-A 100	40	349	300	320

81 746 ...

£
Y8

583.98 063

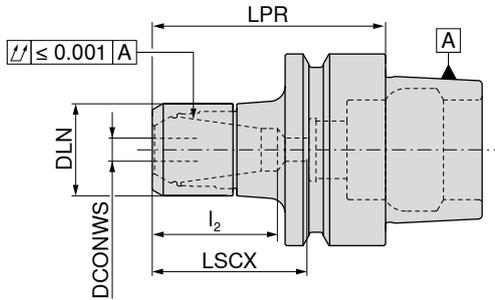
745.73 100

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

84 776 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 mm	for collet	£	Y8
HSK-E 40	2 - 16	60	40	39		430E (ER25)	371.11	417
HSK-E 50	2 - 16	70	40	49	30 - 39	430E (ER25)	408.32	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
84 950 ...	84 950 ...
£	£
Y8	Y8
85.18 013	63.06 003

Spare parts for collet

430E (ER25)

Accessories

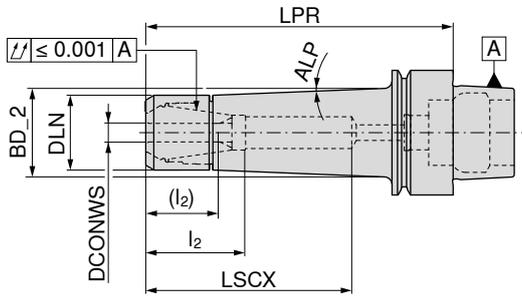
ER collet	Sealing ring	Roll key	Roll key device	Coolant transfer pipe	Others
→ 256-263, 266	→ 269	→ 275	→ 275	→ 163	→ 273

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

84 774 ...

	Adapter	DCONWS mm	LPR mm	DLN mm	BD_2 mm	LSCX mm	l_2 (l_2) mm	ALP	for collet	£	
short	HSK-E 25	1 - 7	35	16		22			4008E (ER11 mini)	249.62	07200
	HSK-E 32	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	334.08	307
	HSK-E 40	1 - 7	50	16	17,5	31	18 - 20	4,5°	4008E (ER11 mini)	273.12	407
	HSK-E 25	1 - 10	45	22		30			426E (ER16 mini)	234.72	101
	HSK-E 32	1 - 10	55	22	25,8	40	28 - 32 (12 - 22)	4,5°	426E (ER16 mini)	334.08	310
	HSK-E 40	1 - 10	55	22	25,8	38	28 - 30 (12 - 20)	4,5°	426E (ER16 mini)	260.05	410
	HSK-E 50	1 - 10	60	22	25,4	39	28 - 31 (12 - 21)	4,5°	426E (ER16 mini)	251.25	510
long	HSK-E 40	1 - 7	100	16	25,4	64	18 - 36 (12 - 26)	4,5°	4008E (ER11 mini)	334.08	408
	HSK-E 40	1 - 10	100	22	29,0	66	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	298.17	411
	HSK-E 50	1 - 10	100	22	28,2	72	28 - 48 (12 - 38)	2,5°	426E (ER16 mini)	308.36	511

→ Transmittable torque moments, Page 300

1 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

	£		£		£		£	
4008E (ER11 mini)	79.26	041	45.18	340	30.09	336		
426E (ER16 mini)	77.19	035	63.32	034	47.40	341	31.75	337

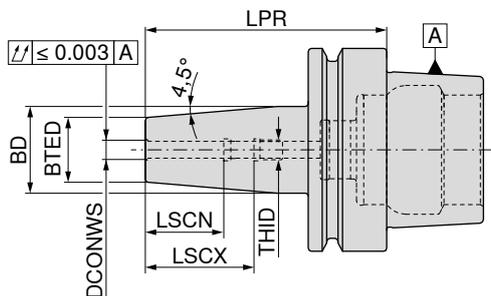
Accessories

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 adaptors

▲ 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	
								£	103
HSK-E 32	3	60	10	15	28	12	M5	236.20	103
HSK-E 32	4	60	10	15	28	16	M5	236.20	104
HSK-E 32	5	60	10	15	30	20	M5	236.20	105
HSK-E 32	6	70	21	25	36	26	M5	214.24	106
HSK-E 32	8	70	21	25	36	26	M6	214.24	108
HSK-E 32	10	75	24	29	41	31	M8x1	214.24	110
HSK-E 32	12	80	24	29	47	37	M10x1	214.24	112
short									
HSK-E 40	3	60	10	15	28	12	M6	285.52	103
HSK-E 40	4	60	10	15	28	16	M6	278.23	104
HSK-E 40	5	60	10	15	30	20	M6	278.23	105
HSK-E 40	6	80	21	27	36	26	M5	234.45	106
HSK-E 40	8	80	21	27	36	26	M6	234.45	108
HSK-E 40	10	80	24	32	41	31	M8x1	234.45	110
HSK-E 40	12	90	24	32	47	37	M10x1	234.45	112
HSK-E 40	14	90	27	34	47	37	M10x1	234.45	114
HSK-E 40	16	90	27	34	50	40	M12x1	234.45	116
HSK-E 50	3	80	10	15	22	12	M6	288.49	103
HSK-E 50	4	80	15	22	26	16	M6	281.17	104
HSK-E 50	5	80	15	22	30	20	M6	281.17	105
HSK-E 50	6	80	21	27	36	26	M5	265.83	106
HSK-E 50	8	80	21	27	36	26	M6	265.83	108
HSK-E 50	10	85	24	32	41	31	M8x1	265.83	110
HSK-E 50	12	90	24	32	47	37	M10x1	265.83	112
HSK-E 50	14	90	27	34	47	37	M10x1	265.83	114
HSK-E 50	16	95	27	34	50	40	M12x1	265.83	116
HSK-E 50	18	95	33	42	50	40	M12x1	265.83	118
HSK-E 50	20	100	33	42	52	42	M16x1	265.83	120

→ Min. clamping depth, Page 300

Spare parts DCONWS	83 950 ...		83 950 ...		83 950 ...						
	£	Y7	£	Y7	£	Y7					
3 - 5			M6x14 - SW2	19.83	417	M5x14 - SW2	19.83	411			
6									M5x12,5 - SW2,5	19.83	418
8									M6x12,5 - SW3	19.83	419
10									M8x1x13,5 - SW3	19.83	420
12 - 14									M10x1x13,5 - SW5	19.83	421
16 - 18									M12x1x13,5 - SW5	19.83	422
20									M16x1x13,5 - SW5	22.87	423

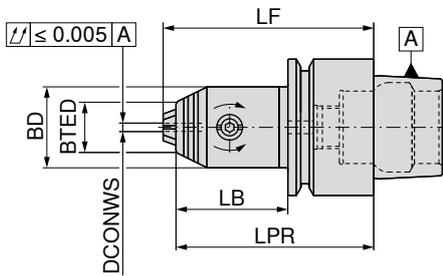
1 Spare part 83 950 411 only for HSK-E 32. Spare part 83 950 417 for HSK-E 40/HSK-E 50.

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

84 712 ...

Adapter	DCONWS mm	LB mm	LPR mm	LF mm	BD mm	BTED mm	TQX Nm	£	
HSK-E 25	0,2-3,4	27	37	40	19	12	2	1,140.12	234
HSK-E 32	0,2-3,4	26	46	49	19	12	2	1,230.90	334
HSK-E 40	0,2-3,4	26	46	49	19	12	2	1,276.31	434

Spare parts for Article no.

Article no.	£		TORX® blade	Torque screwdriver
84 712 234	9.42	152	1,8 Nm	122.33 018
84 712 334	9.42	152	1,8 Nm	122.33 018
84 712 434	9.42	152	1,8 Nm	122.33 018

TORX® blade

80 950 ...

£
Y7

Torque screwdriver

80 021 ...

£
Y7

Coolant pipe

▲ use up to 100 bar

Scope of supply:

complete, including seals



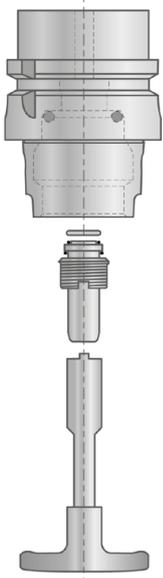
		83 760 ...	
Adapter	THOD	£	
		Y8	
HSK 32	M10 x 1	19.91	032
HSK 40	M12 x 1	19.91	040
HSK 50	M16 x 1	19.91	050
HSK 63	M18 x 1	10.88	063
HSK 80	M20 x 1,5	21.81	080
HSK 100	M24 x 1,5	17.78	100

Key

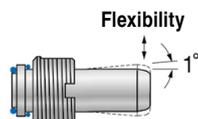


		83 758 ...	
Adapter		£	
		Y8	
HSK 32		34.29	032
HSK 40		34.58	040
HSK 50		37.50	050
HSK 63		23.33	063
HSK 80		44.17	080
HSK 100		43.79	100

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 ($\pm 1^\circ$).

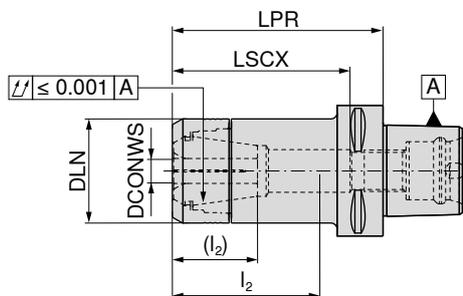


ER precision collet chuck – Centro-P

- ▲ 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

84 112 ...

Adapter	DCONWS mm	LPR mm	DLN mm	LSCX mm	l_2 (l_2) mm	for collet	£	
PSC 40	1 - 10	55	30	47	29 - 38	426E (ER16)	427.59	402
PSC 50	1 - 10	60	30	47	29 - 38	426E (ER16)	427.59	501
PSC 50	1 - 10	100	30	87	29 - 51 (29 - 37)	426E (ER16)	457.58	502
PSC 50	1 - 16	60	40	48		430E (ER25)	427.59	505
PSC 50	2 - 20	60	50	49		470E (ER32)	427.59	507
PSC 63	1 - 10	60	30	44		426E (ER16)	409.57	601
PSC 63	1 - 10	100	30	83	29 - 53 (25 - 39)	426E (ER16)	439.58	602
PSC 63	1 - 16	60	40	38		430E (ER25)	409.57	605
PSC 63	1 - 16	100	40	78	36 - 62 (30 - 45)	430E (ER25)	439.58	606
PSC 63	1 - 16	130	40	99	34 - 70 (30 - 50)	430E (ER25)	479.49	607
PSC 63	1 - 16	160	40	118	34 - 70 (30 - 50)	430E (ER25)	559.44	608
PSC 63	2 - 20	60	50	42		470E (ER32)	409.57	609
PSC 63	2 - 20	100	50	79	45 - 63 (25 - 45)	470E (ER32)	439.58	610
PSC 63	2 - 20	130	50	99	45 - 63 (25 - 53)	470E (ER32)	479.49	611
PSC 63	3 - 26	65	63	51		472E (ER40)	459.53	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

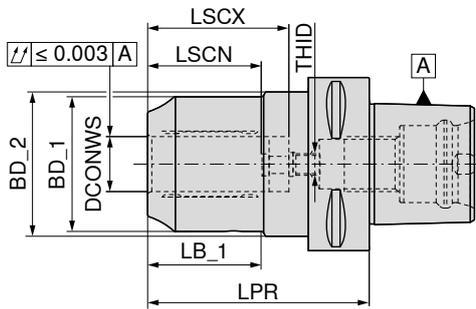
Spare parts for collet	Lock nut IK		Lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
426E (ER16)	76.42	011	56.75	001	47.40	341	31.75	337
430E (ER25)	85.18	013	63.06	003	33.34	432	23.78	431
470E (ER32)	91.08	015	69.36	005	28.16	402	20.51	401
472E (ER40)	124.56	017	100.91	007			28.75	400

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



G 2,5 n_{max} 25000

84 108 ...

£
Y8

719.20 62000

Adapter	DCONWS	LPR	LB_1	BD_1	BD_2	LSCX	LSCN	THID
PSC 63	mm	mm	mm	mm	mm	mm	mm	M8x1
	20	80	41	49	52.5	51	41	

→ Min. clamping depth, Page 300

Spare parts for Article no.	Cylindrical screw	Clamping key - T	Pressure screw	Stop screw IK
84 108 62000	M5x5 - SW2,5	SW5	M10x1x14	M16x1x13,5 - SW8
	£ 3.03	£ 6.39	£ 9.08	£ 22.87
	157	050	429	424

Accessories

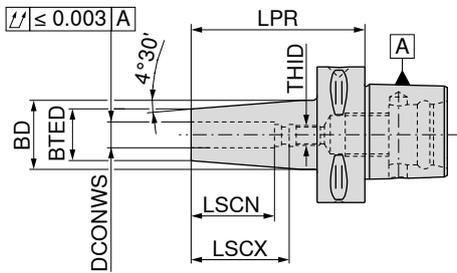
Reduction sleeve	Coolant transfer pipe	Others
→ 271	→ 182	→ 273

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



G 6,3 n_{max} 15000 G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 104 ...		84 105 ...		84 106 ...	
								£ Y8		£ Y8		£ Y8	
short	PSC 32	65	6	21	27	36	26	M5	263.00	306			
	PSC 32	65	8	21	27	36	26	M6	263.00	308			
	PSC 32	70	10	24	32	41	31	M8x1	263.00	310			
	PSC 32	75	12	24	32	47	37	M10x1	263.00	312			
	PSC 40	75	6	21	27	36	26	M5	268.02	406			
	PSC 40	75	8	21	27	36	26	M6	268.02	408			
	PSC 40	75	10	24	32	41	31	M8x1	268.02	410			
	PSC 40	75	12	24	32	47	37	M10x1	268.02	412			
	PSC 40	80	14	27	34	47	37	M10x1	268.02	414			
	PSC 40	80	16	27	34	50	40	M12x1	268.02	416			
	PSC 40	80	18	33	42	50	40	M12x1	268.02	418			
	PSC 40	85	20	33	42	52	42	M16x1	268.02	420			
short	PSC 50	65	3	12	17				332.19	503			
	PSC 50	65	4	12	17				332.19	504			
	PSC 50	65	5	12	17				332.19	505			
	PSC 50	75	6	21	30	36	26	M5	275.75	506			
	PSC 50	75	8	21	30	36	26	M6	275.75	508			
	PSC 50	75	10	24	33	41	31	M8x1	275.75	510			
	PSC 50	75	12	24	33	47	37	M10x1	275.75	512			
	PSC 50	80	14	27	34	47	37	M10x1	275.75	514			
	PSC 50	80	16	27	34	50	40	M12x1	275.75	516			
	PSC 50	80	18	33	42	50	40	M12x1	275.75	518			
	PSC 50	85	20	33	42	52	42	M16x1	275.75	520			
	PSC 50	90	25	44	53	58	48	M16x1	275.75	525			
long	PSC 50	120	6	21	32	36	26	M5			332.19	506	
	PSC 50	120	8	21	32	36	26	M6			332.19	508	
	PSC 50	120	10	24	34	41	31	M8x1			332.19	510	
	PSC 50	120	12	24	34	47	37	M10x1			332.19	512	
	PSC 50	120	14	27	36	47	37	M10x1			332.19	514	
	PSC 50	120	16	27	36	50	40	M12x1			332.19	516	
	PSC 50	120	18	33	42	50	40	M12x1			332.19	518	
	PSC 50	120	20	33	42	52	42	M16x1			332.19	520	
short	PSC 63	80	3	12	17				409.22	603			
	PSC 63	80	4	12	17				409.22	604			
	PSC 63	80	5	12	17				409.22	605			
	PSC 63	80	6	21	27	36	26	M5	345.06	606			
	PSC 63	80	8	21	27	36	26	M6	345.06	608			
	PSC 63	80	10	24	32	41	31	M8x1	345.06	610			
	PSC 63	80	12	24	32	47	37	M10x1	345.06	612			
	PSC 63	85	14	27	34	47	37	M10x1	345.06	614			
	PSC 63	85	16	27	34	50	40	M12x1	345.06	616			
	PSC 63	85	18	33	42	50	40	M12x1	345.06	618			
	PSC 63	85	20	33	42	52	42	M16x1	345.06	620			
	PSC 63	90	25	44	53	58	48	M16x1	345.06	625			
PSC 63	95	32	44	53	61	51	M16x1	345.06	632				

→ Min. clamping depth, Page 300

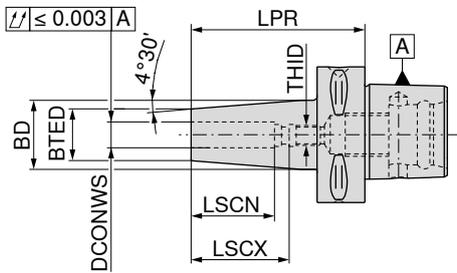
Shrink adapters

- ▲ 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



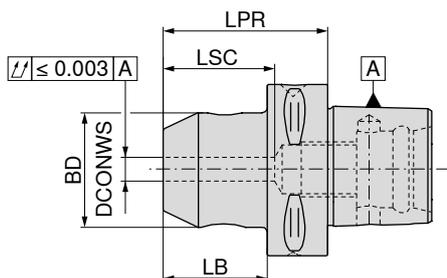
G 6,3 n_{max} 15000 G 6,3 n_{max} 15000 G 6,3 n_{max} 15000

Adapter	LPR mm	DCONWS mm	BTED mm	BD mm	LSCX mm	LSCN mm	THID	84 104 ...		84 105 ...		84 106 ...		
								£ Y8		£ Y8		£ Y8		
long	PSC 63	120	6	21	32	36	26	M5			409.22	606		
	PSC 63	120	8	21	32	36	26	M6			409.22	608		
	PSC 63	120	10	24	32	41	31	M8x1			409.22	610		
	PSC 63	120	12	24	32	47	37	M10x1			409.22	612		
	PSC 63	120	14	27	36	47	37	M10x1			409.22	614		
	PSC 63	120	16	27	36	50	40	M12x1			409.22	616		
	PSC 63	120	18	33	44	50	40	M12x1			409.22	618		
	PSC 63	120	20	33	44	52	42	M16x1			409.22	620		
	PSC 63	120	25	44	53	58	48	M16x1			409.22	625		
PSC 63	120	32	44	53	61	51	M16x1			409.22	632			
extra-long	PSC 63	160	6	21	32	36	26	M5					447.66	606
	PSC 63	160	8	21	32	36	26	M6					447.66	608
	PSC 63	160	10	24	34	41	31	M8x1					447.66	610
	PSC 63	160	12	24	34	47	37	M10x1					447.66	612
	PSC 63	160	14	27	36	47	37	M10x1					447.66	614
	PSC 63	160	16	27	36	50	40	M12x1					447.66	616
	PSC 63	160	18	33	44	50	40	M12x1					447.66	618
	PSC 63	160	20	33	44	52	42	M16x1					447.66	620
	PSC 63	160	25	44	53	58	48	M16x1					447.66	625
PSC 63	160	32	44	53	61	51	M16x1					447.66	632	
short	PSC 80	85	6	21	27	36	26	M5	370.77	806				
	PSC 80	85	8	21	27	36	26	M6	370.77	808				
	PSC 80	85	10	24	32	41	31	M8x1	370.77	810				
	PSC 80	85	12	24	32	47	37	M10x1	370.77	812				
	PSC 80	90	14	27	34	47	37	M10x1	370.77	814				
	PSC 80	90	16	27	34	50	40	M12x1	370.77	816				
	PSC 80	90	18	33	42	50	40	M12x1	370.77	818				
	PSC 80	90	20	33	42	52	42	M16x1	370.77	820				
	PSC 80	95	25	44	53	58	48	M16x1	370.77	825				
	PSC 80	100	32	44	53	61	51	M16x1	370.77	832				
long	PSC 80	120	6	21	32	36	26	M5			442.51	806		
	PSC 80	120	8	21	32	36	26	M6			442.51	808		
	PSC 80	120	10	24	34	41	31	M8x1			442.51	810		
	PSC 80	120	12	24	34	47	37	M10x1			442.51	812		
	PSC 80	120	14	27	36	47	37	M10x1			442.51	814		
	PSC 80	120	16	27	36	50	40	M12x1			442.51	816		
	PSC 80	120	18	33	44	50	40	M12x1			442.51	818		
	PSC 80	120	20	33	44	52	42	M16x1			442.51	820		
	PSC 80	120	25	44	53	58	48	M16x1			442.51	825		
	PSC 80	120	32	44	53	61	51	M16x1			442.51	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**



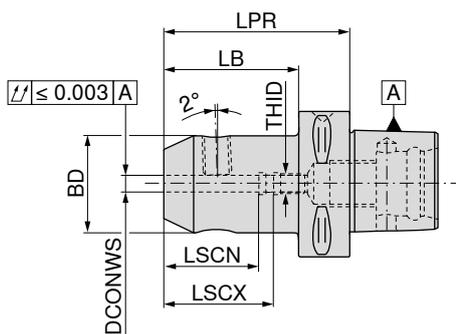
G 6,3 n_{max} 15000

84 100 ...

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	£	
PSC 32	6	45	25	30	35	216.73	306
PSC 32	8	45	28	30	35	216.73	308
PSC 32	10	50	35	35	39	216.73	310
PSC 32	12	55	42	40	44	216.73	312
PSC 40	6	50	25	30	35	237.30	406
PSC 40	8	50	28	30	35	237.30	408
PSC 40	10	50	35	30	39	237.30	410
PSC 40	12	55	42	35	44	237.30	412
PSC 40	14	55	44	35	44	237.30	414
PSC 40	16	55	48	35	47	237.30	416
PSC 50	6	50	25	30	35	242.45	506
PSC 50	8	50	28	30	35	242.45	508
PSC 50	10	55	35	35	39	242.45	510
PSC 50	12	60	42	40	44	242.45	512
PSC 50	14	60	44	40	44	242.45	514
PSC 50	16	60	48	40	47	242.45	516
PSC 50	18	60	50	40	47	242.45	518
PSC 50	20	60	52	40	47	242.45	520
PSC 50	25	80	65	60	54	242.45	525
PSC 63	6	55	25	33	35	268.02	606
PSC 63	8	55	28	33	35	268.02	608
PSC 63	10	60	35	38	39	268.02	610
PSC 63	12	60	42	38	44	268.02	612
PSC 63	14	60	44	38	44	268.02	614
PSC 63	16	65	48	43	47	268.02	616
PSC 63	18	65	50	43	47	268.02	618
PSC 63	20	65	52	43	49	268.02	620
PSC 63	25	80	65	58	54	268.02	625
PSC 63	32	90	72	68	58	268.02	632
PSC 63	40	100	80	78	75	268.02	640
PSC 80	6	70	25	40	35	293.75	806
PSC 80	8	70	28	40	35	293.75	808
PSC 80	10	70	35	40	39	293.75	810
PSC 80	12	70	42	40	44	293.75	812
PSC 80	14	70	44	40	44	293.75	814
PSC 80	16	70	48	50	47	293.75	816
PSC 80	18	70	50	40	47	293.75	818
PSC 80	20	70	52	40	49	293.75	820
PSC 80	25	80	65	50	54	293.75	825
PSC 80	32	80	72	50	58	293.75	832
PSC 80	40	110	80	80	75	293.75	840
PSC 80	50	120	100	90	83	293.75	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

84 102 ...

Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSCX mm	LSCN mm	THID	£ Y8	
PSC 32	6	70	25	55	38	28	M5	216.73	306
PSC 32	8	70	28	55	38	28	M6	216.73	308
PSC 32	10	70	35	55	41	31	M8	216.73	310
PSC 32	12	75	42	60	47	37	M10	216.73	312
PSC 40	6	70	25	50	38	28	M5	237.30	406
PSC 40	8	70	28	50	38	28	M6	237.30	408
PSC 40	10	70	35	50	41	31	M8	237.30	410
PSC 40	12	75	42	55	47	37	M10	237.30	412
PSC 40	14	75	44	55	47	37	M10	237.30	414
PSC 50	6	70	25	50	38	28	M5	242.45	506
PSC 50	8	70	28	50	38	28	M6	242.45	508
PSC 50	10	70	35	50	41	31	M8	242.45	510
PSC 50	12	75	42	55	47	37	M10	242.45	512
PSC 50	14	75	44	55	47	37	M10	242.45	514
PSC 50	16	80	48	60	50	40	M12	242.45	516
PSC 50	18	80	50	60	50	40	M12	242.45	518
PSC 50	20	85	52	65	52	42	M16	242.45	520
PSC 63	6	75	25	53	38	28	M5	268.02	606
PSC 63	8	75	28	53	38	28	M6	268.02	608
PSC 63	10	75	35	53	41	31	M8	268.02	610
PSC 63	12	80	42	58	47	37	M10	268.02	612
PSC 63	14	80	44	58	47	37	M10	268.02	614
PSC 63	16	80	48	58	50	40	M12	268.02	616
PSC 63	18	80	50	58	50	40	M12	268.02	618
PSC 63	20	85	52	63	52	42	M16	268.02	620
PSC 63	25	90	65	68	58	48	M16	268.02	625
PSC 63	32	95	72	73	61	51	M16	268.02	632
PSC 80	6	65	25	35	38	28	M5	293.75	806
PSC 80	8	65	28	35	38	28	M6	293.75	808
PSC 80	10	65	35	35	41	31	M8	293.75	810
PSC 80	12	70	42	40	47	37	M10	293.75	812
PSC 80	14	70	44	40	47	37	M10	293.75	814
PSC 80	16	75	48	45	50	40	M12	293.75	816
PSC 80	18	75	50	45	50	40	M12	293.75	818
PSC 80	20	80	52	50	52	42	M16	293.75	820
PSC 80	25	90	65	60	58	48	M16	293.75	825
PSC 80	32	95	72	65	61	51	M16	293.75	832

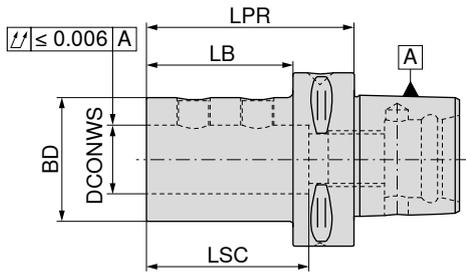


84 950 ...

Spare parts	DCONWS		£ Y8	
6		M5	13.35	146
8		M6	13.35	147
10		M8	13.35	148
12 - 14		M10	13.35	149
16 - 18		M12	13.35	150
20 - 32		M16	13.35	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 ...	
						£ Y8	
PSC 32	16	60	36	45	49	357.91	316
PSC 32	20	60	40	45	54	357.91	320
PSC 40	16	60	36	40	49	370.77	416
PSC 40	20	60	40	40	54	370.77	420
PSC 40	25	80	45	50	59	370.77	425
PSC 50	16	65	36	45	49	396.36	516
PSC 50	20	65	40	45	54	396.36	520
PSC 50	25	70	45	50	59	396.36	525
PSC 50	32	75	52	55	63	396.36	532
PSC 63	16	70	36	48	49	396.36	616
PSC 63	20	70	40	48	54	396.36	620
PSC 63	25	75	45	53	59	396.36	625
PSC 63	32	75	52	53	63	396.36	632
PSC 63	40	85	65	63	73	396.36	640
PSC 63	50	115	75	93	83	396.36	650
PSC 80	16	80	36	50	49	473.38	816
PSC 80	20	80	40	50	54	473.38	820
PSC 80	25	85	45	55	59	473.38	825
PSC 80	32	90	52	60	63	473.38	832
PSC 80	40	95	65	65	73	473.38	840
PSC 80	50	100	75	70	83	473.38	850



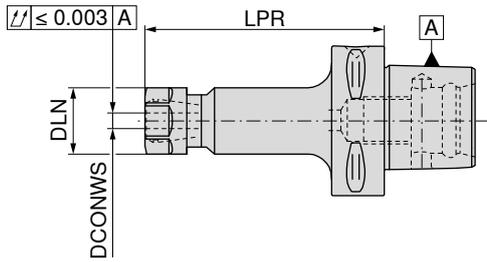
Grubscrew

Spare parts

DCONWS		£ Y8	
16-20	M10x1x10	7.13	180
25-32	M10x1x12	7.13	181
40-50	M16x1x13	6.36	182

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		
PSC 32	1 - 10	45	28	8 - 56	426E (ER16)	£	
						Y8	304
						191.14	
PSC 40	1 - 10	55	28	8 - 56	426E (ER16)	204.00	404
PSC 50	1 - 10	60	28	8 - 56	426E (ER16)	216.73	504
PSC 50	1 - 10	100	28	8 - 56	426E (ER16)	255.30	506
PSC 63	1 - 10	60	28	8 - 56	426E (ER16)	216.73	604
PSC 63	1 - 10	100	28	8 - 56	426E (ER16)	255.30	606
PSC 80	1 - 10	60	28	8 - 56	426E (ER16)	242.45	804
PSC 80	1 - 10	100	28	8 - 56	426E (ER16)	280.89	806

84 114 ...



Lock nut

62 950 ...

Spare parts for collet

426E (ER16)

	£	
M22x1,5 - SW25	W7	044
	26.65	

Accessories

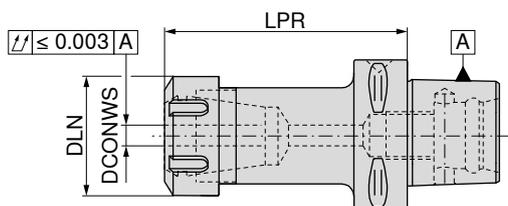


ER collet

→ 256-263, 266

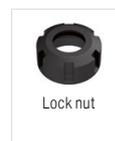
ER Collet chuck

- ▲ 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 ...	
						£	Y8
PSC 32	1 - 13	45	34	16 - 80	428E (ER20)	191.14	306
PSC 40	1 - 13	55	34	16 - 80	428E (ER20)	204.00	404
PSC 40	1 - 16	55	42	24 - 104	430E (ER25)	204.00	406
PSC 40	2 - 20	55	50	24 - 136	470E (ER32)	204.00	408
PSC 50	1 - 13	60	34	16 - 80	428E (ER20)	216.73	502
PSC 50	1 - 13	100	34	16 - 80	428E (ER20)	268.02	504
PSC 50	1 - 16	60	42	24 - 104	430E (ER25)	216.73	506
PSC 50	1 - 16	100	42	24 - 104	430E (ER25)	268.02	508
PSC 50	2 - 20	60	50	24 - 136	470E (ER32)	229.59	510
PSC 50	2 - 20	100	50	24 - 136	470E (ER32)	280.89	512
PSC 50	3 - 26	65	63	176	472E (ER40)	237.30	514
PSC 50	3 - 26	100	63	176	472E (ER40)	288.61	516
PSC 63	1 - 13	60	34	16 - 80	428E (ER20)	216.73	602
PSC 63	1 - 13	100	34	16 - 80	428E (ER20)	268.02	604
PSC 63	1 - 16	60	42	24 - 104	430E (ER25)	216.73	606
PSC 63	1 - 16	100	42	24 - 104	430E (ER25)	268.02	608
PSC 63	2 - 20	60	50	24 - 136	470E (ER32)	229.59	610
PSC 63	2 - 20	100	50	24 - 136	470E (ER32)	280.89	612
PSC 63	3 - 26	65	63	176	472E (ER40)	237.30	614
PSC 63	3 - 26	100	63	176	472E (ER40)	288.61	616
PSC 80	1 - 13	65	34	16 - 80	428E (ER20)	293.75	802
PSC 80	1 - 13	100	34	16 - 80	428E (ER20)	383.49	804
PSC 80	1 - 16	70	42	24 - 104	430E (ER25)	293.75	806
PSC 80	1 - 16	100	42	24 - 104	430E (ER25)	383.49	808
PSC 80	2 - 20	70	50	24 - 136	470E (ER32)	293.75	810
PSC 80	2 - 20	100	50	24 - 136	470E (ER32)	383.49	812
PSC 80	3 - 26	80	63	176	472E (ER40)	293.75	814
PSC 80	3 - 26	100	63	176	472E (ER40)	383.49	816



Spare parts for collet	62 950 ...		83 950 ...		62 950 ...		83 357 ...				
	£	W7	£	Y8	£	W7	£	Y8			
428E (ER20)	M25x1,5 - SW30	21.49	045	M25x1,5	77.94	053		33.81	12000		
430E (ER25)				M32x1,5	79.92	055	M32x1,5	22.08	055	23.31	125
470E (ER32)				M40x1,5	85.48	056	M40x1,5	22.64	056	33.95	132
472E (ER40)				M50x1,5	102.87	057	M50x1,5	23.45	057	38.47	140

Accessories

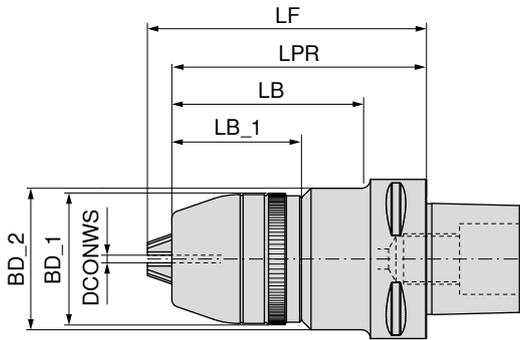


Short drill chuck – NC 2010

- ▲ 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 2,5 n_{max} 12000

84 111 ...

Adapter	DCONWS mm	BD_1 mm	BD_2 mm	LB_1 mm	LB mm	LPR mm	LF mm	£	
PSC 40	0,5 - 13	48.5	56	50.90	78.0	100	109.0	911.82	01395
PSC 40	2,5 - 16	51.0	56	52.15	78.0	100	110.5	935.76	01695
PSC 50	0,5 - 13	48.5	56	50.90	77.0	100	109.0	930.51	01394
PSC 50	2,5 - 16	51.0	56	52.15	77.0	100	110.5	954.87	01694
PSC 63	0,5 - 13	48.5	56	50.90	74.5	100	109.0	949.41	01393
PSC 63	2,5 - 16	51.0	56	52.15	74.5	100	110.5	974.40	01693

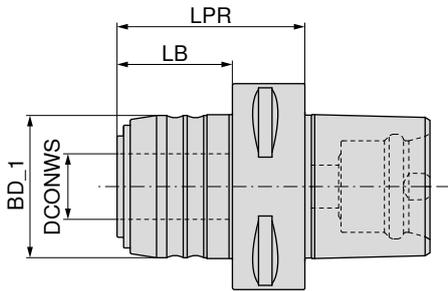
Can be used with G 2.5 to 30,000 1/min by subsequent balancing !

Accessories



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**



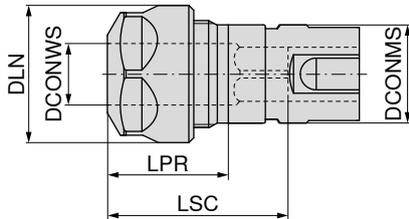
Adapter	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	LB mm	LZD± mm	84 140 ...	
PSC 63	M3 - M12	1	57	43	20	35	1,0 / 0,2	£	
								Y8	
								876.09	012
PSC 63	M6 - M20	2	77	60	32	55	1,0 / 0,2	985.18	020

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 ...	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	£	
								Y8	
								195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020

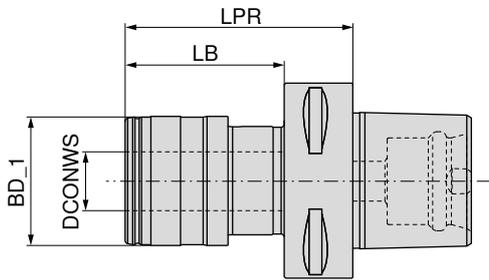
Spare parts

insert for synchro quick change tapping chuck with minimum length compensation

Spare parts for Article no.	62 950 ...		83 950 ...		62 950 ...		83 357 ...				
	£		£		£		£				
83 608 012	M22x1,5 - SW25	26.65	044	M22x1,5	68.61	054	M22x1,5	21.20	054	23.31	116
83 608 020				M32x1,5	79.92	055	M32x1,5	22.08	055	23.31	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 ...	
								£	
PSC 63	M3 - M12	01	73	41	19	51	7,5	909.15	612
PSC 63	M6 - M20	02	97	60	31	75	10	1,021.56	620

Accessories

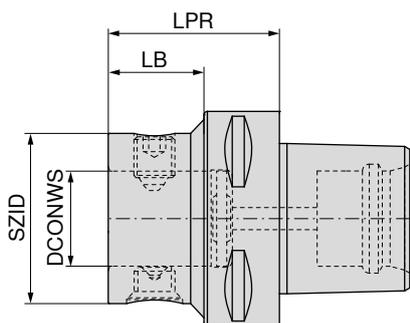


Collet

→ 277-281

Adapter with ABS Connection

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



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	LB mm	84 215 ...
PSC 40	A69 04050	ABS 50	28	50	30	£ Y8 1,435.30 04097
PSC 50	A69 05050	ABS 50	28	50	30	924.24 05097
PSC 63	A69 06050	ABS 50	28	50	28	960.28 06397
PSC 63	A69 06060	ABS 63	34	60	36	992.22 06396
PSC 80	A69 08050	ABS 50	28	50	23	1,360.77 08097
PSC 80	A69 08060	ABS 63	34	60	30	1,435.30 08096
PSC 80	A69 08070	ABS 80	46	80	48	1,518.23 08092

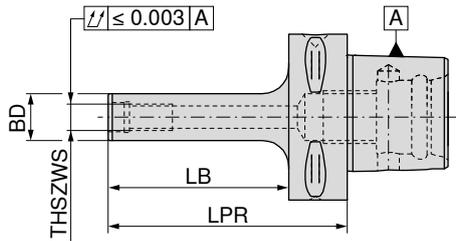
Spare parts
SZID

	84 950 ...		84 950 ...		84 950 ...	
	£		£		£	
ABS 50	12.18	20300	27.75	99800	15.63	20400
ABS 63	8.21	25500	18.47	99400	10.41	27300
ABS 80	10.12	25600	22.39	99300	12.32	25100

Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
£ XX	£ XX	£ XX

Adapter for screw-in milling cutter

▲ also available with Balluff chip on request



G 2,5 n_{max} 20000

Adapter	THSZWS	LPR mm	BD mm	LB mm	£	Y8
PSC 32	M8	60	13	45	293.75	302
PSC 32	M10	70	18	55	293.75	306
PSC 40	M8	70	13	50	301.47	402
PSC 40	M10	80	18	60	301.47	405
PSC 40	M12	80	21	60	301.47	408
PSC 50	M8	70	13	50	306.60	502
PSC 50	M10	80	18	60	306.60	505
PSC 50	M12	80	21	60	306.60	508
PSC 50	M16	80	29	60	306.60	512
PSC 63	M8	70	13	48	332.19	602
PSC 63	M10	90	18	68	332.19	605
PSC 63	M12	100	21	78	332.19	608
PSC 63	M16	100	29	78	332.19	612

Accessories



Coolant transfer pipe

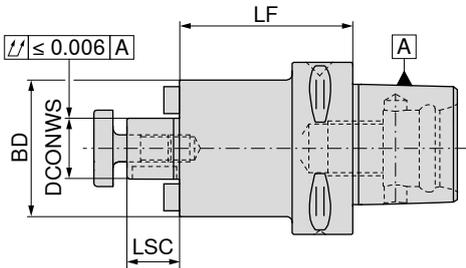
→ 182

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

84 122 ...

Adapter	DCONWS mm	LF mm	BD mm	LSC mm	£ Y8	
PSC 40	16	28	40	17	229.59	401
PSC 40	16	63	40	17	242.45	402
PSC 40	22	40	50	19	229.59	411
PSC 40	22	63	50	19	242.45	412
PSC 50	16	28	40	17	229.59	501
PSC 50	16	63	40	17	242.45	502
PSC 50	22	28	50	19	229.59	511
PSC 50	22	63	50	19	242.45	512
PSC 50	27	32	50	21	229.59	521
PSC 50	27	63	50	21	242.45	522
PSC 50	32	40	63	24	229.59	531
PSC 50	32	63	63	24	242.45	532
PSC 63	16	63	40	17	255.30	602
PSC 63	22	28	63	19	242.45	611
PSC 63	22	63	50	19	255.30	612
PSC 63	27	28	58	21	242.45	621
PSC 63	27	63	58	21	255.30	622
PSC 63	32	22	63	24	242.45	631
PSC 63	32	86	63	24	255.30	632
PSC 63	40	40	70	27	280.89	641
PSC 80	16	63	40	17	301.47	802
PSC 80	22	30	50	19	289.96	811
PSC 80	22	63	50	19	301.47	812
PSC 80	27	30	58	21	289.96	821
PSC 80	27	63	58	21	301.47	822
PSC 80	32	30	63	24	289.96	831
PSC 80	32	86	63	24	301.47	832
PSC 80	40	40	70	27	289.96	841

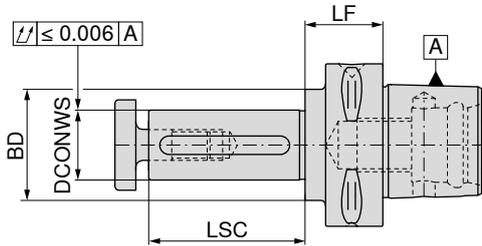
drive key		drive dog		Cross nut key		Retaining screw		clamping screw	
84 950 ...		84 950 ...		83 368 ...		83 367 ...		83 950 ...	
£ Y8		£ Y8		£ Y8		£ Y8		£ Y8	
16	5.02 108	11.38 113	21.07 116	M8	5.60 016	M8x25	5.93 113		
22	5.02 109	13.35 114	26.21 122	M10	6.23 022	M10x25	6.70 124		
27	5.02 110	14.45 115	30.81 127	M12	7.96 027	M12x30	7.40 125		
32	5.02 111	16.40 116	42.00 132	M16	12.50 032	M16x35	9.02 126		
40	5.02 112	18.24 117	41.71 140	M20	13.38 040	M20x40 - SW17	9.94 112		

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



					84 124 ...	
Adapter	DCONWS mm	LF mm	BD mm	LSC mm	£	
PSC 32	16	20	28	30	229.59	316
PSC 40	16	25	28	30	242.45	416
PSC 40	22	25	36	40	242.45	422
PSC 40	27	25	40	60	242.45	427
PSC 50	16	25	28	30	242.45	516
PSC 50	22	25	36	40	242.45	522
PSC 50	27	25	43	60	242.45	527
PSC 50	32	25	50	60	242.45	532
PSC 63	16	30	28	30	242.45	616
PSC 63	22	30	36	40	242.45	622
PSC 63	27	30	43	60	242.45	627
PSC 63	32	25	48	60	242.45	632
PSC 63	40	25	56	60	242.45	640
PSC 80	16	40	28	30	280.89	816
PSC 80	22	40	36	40	280.89	822
PSC 80	27	30	43	60	280.89	827
PSC 80	32	30	48	60	280.89	832
PSC 80	40	30	56	60	280.89	840
PSC 80	50	30	70	60	280.89	850
PSC 80	60	30	60	60	280.89	860

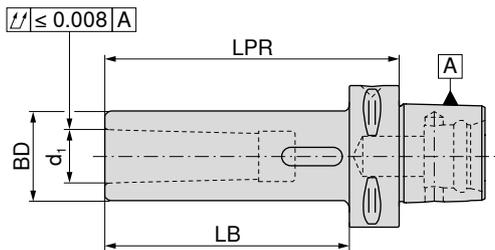


Spare parts

DCONWS	84 950 ...		83 368 ...		83 367 ...	
	£		£		£	
16	5.02	101	21.07	116	5.60	016
22	5.02	102	26.21	122	6.23	022
27	5.02	103	30.81	127	7.96	027
32	5.02	104	42.00	132	12.50	032
40	5.02	105	41.71	140	13.38	040
50	5.02	106	59.45	150	34.03	050
60	5.02	107				

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 ...	
					£ Y8	
PSC 40	MK2	110	32	90	242.45	402
PSC 40	MK3	130	40	119	255.30	403
PSC 50	MK2	110	32	90	255.30	502
PSC 50	MK3	130	40	110	268.02	503
PSC 50	MK4	150	48	132	280.89	504
PSC 63	MK2	110	32	88	255.30	602
PSC 63	MK3	130	40	108	268.02	603
PSC 63	MK4	150	48	128	280.89	604
PSC 80	MK2	120	32	90	293.75	802
PSC 80	MK3	140	40	110	319.34	803
PSC 80	MK4	160	48	130	345.06	804

Blank

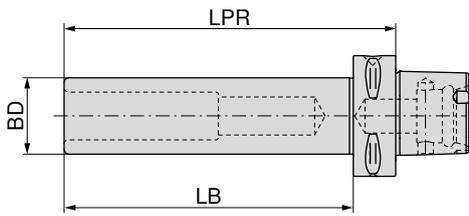
- ▲ Material: 25CrMoV4
- ▲ for production of special tools
- ▲ Taper hardened and ground
- ▲ Special tool area in soft state
- ▲ also available with Balluff chip **on request**



Adapter	BD mm	LPR mm	84 134 ...	
			£ Y8	
PSC 40	40	95	178.28	402
PSC 40	40	120	191.14	403
PSC 40	60	165	204.00	404
PSC 40	80	75	229.59	405
PSC 40	80	120	242.45	406
PSC 40	100	85	255.30	408
PSC 50	50	125	204.00	502
PSC 50	50	150	216.73	503
PSC 50	75	175	242.45	504
PSC 50	90	80	255.30	506
PSC 50	95	150	268.02	508
PSC 50	110	90	255.30	510
PSC 63	63	180	242.45	602
PSC 63	75	195	255.30	604
PSC 63	110	85	255.30	606
PSC 63	120	180	383.49	608
PSC 63	130	95	293.75	610
PSC 80	80	200	293.75	802
PSC 80	120	160	293.75	804
PSC 80	130	90	280.89	806
PSC 80	145	200	319.34	808

Test bar

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



Adapter	LPR mm	BD mm	LB mm	84 136 ...	
				£ Y8	
PSC 32	175	25	160	863.97	030
PSC 40	180	25	160	958.25	040
PSC 50	235	32	215	1,023.65	050
PSC 63	322	40	300	1,077.51	060
PSC 80	330	40	300	1,293.02	080

Coolant pipe

Scope of supply:

complete, including seals



Adapter	THOD	84 116 ...	
		£ Y8	
PSC 40	M14 x 1,5	45.36	04000
PSC 50	M16 x 1,5	47.69	05000
PSC 63	M20 x 2,0	50.04	06300
PSC 80	M20 x 2,0	62.34	08000

Key



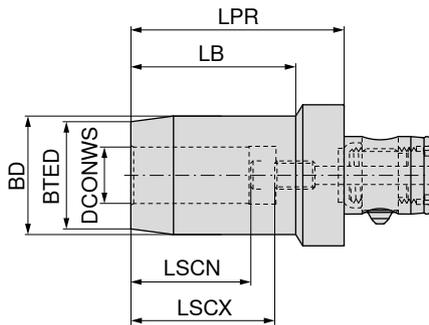
Adapter	84 117 ...	
	£ Y8	
PSC 40	40.74	04000
PSC 50	43.64	05000
PSC 63	46.62	06300
PSC 80	63.04	08000

Hydraulic chuck

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

Scope of supply:

Base body including backstop screw



Adapter	KOMET no.	DCONWS	BTED	BD	LPR	LB	LSCX	LSCN	84 223 ...	
									£	
ABS 40	A32 32060	8	24	28	60	42.0	37	27	628.09	00888
ABS 40	A32 32070	10	26	30	65	47.5	41	31	576.54	01088
ABS 40	A32 32080	12	28	32	65	48.0	46	36	566.04	01288
ABS 50	A32 42110	6	22	26	55	33.5	37	27	612.82	00697
ABS 50	A32 42120	8	24	28	55	34.0	37	27	627.13	00897
ABS 50	A32 42130	10	26	30	65	45.0	41	31	608.04	01097
ABS 50	A32 42140	12	28	32	65	45.5	46	36	607.09	01297
ABS 50	A32 42150	14	30	34	65	46.0	46	36	608.04	01497
ABS 50	A32 42160	16	34	38	70	52.0	49	39	561.28	01697
ABS 50	A32 42170	18	36	40	70	52.5	49	39	587.04	01897
ABS 50	A32 42101	20	38	42	75	58.0	51	41	572.72	02097
ABS 63	A32 52180	20	38	42	78	56.0	51	41	819.00	02096
ABS 63	A32 52190	25	53	57	85	60.0	57	47	917.32	02596
ABS 63	A32 52200	32	60	64	90	61.0	61	51	996.54	03296

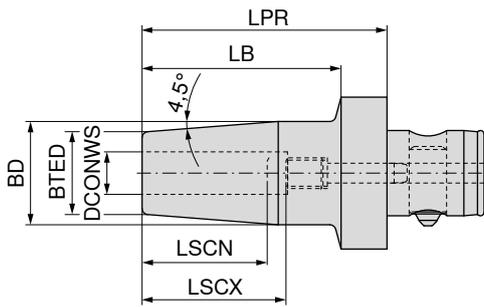


Spare parts for Article no.

Article no.	Part description	£	
84 223 00697	M6x12 - SW2,5	3.13	22000
84 223 00897	M8x1x12 - SW3	3.94	22100
84 223 00888	M6x12 - SW2,5	3.13	22000
84 223 01088	M8x1x12 - SW3	3.94	22100
84 223 01097	M10x1x12 - SW4	3.94	22200
84 223 01297	M10x1x12 - SW4	3.94	22200
84 223 01288	M10x1x12 - SW4	3.94	22200
84 223 01497	M10x1x12 - SW4	3.94	22200
84 223 01697	M10x1x12 - SW4	3.94	22200
84 223 01897	M16x1x16 - SW5	7.38	22400
84 223 02096	M16x1x16 - SW5	7.38	22400
84 223 02097	M5x12 - SW2	3.13	22300
84 223 02596	M16x1x16 - SW5	7.38	22400
84 223 03296	M16x1x16 - SW5	7.38	22400

Heat shrink adapter 4.5° with ABS connection

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



G 6,3 n_{max} 15000

84 222 ...

Adapter	KOMET no.	DCONWS	LPR	BD	BTED	LB	LSCX	LSCN	£	
		mm	mm	mm	mm	mm	mm	mm	3E	
ABS 32	A32 26040	6	70	27	21	56	36	26	342.68	00689
ABS 32	A32 26050	8	70	27	21	56	36	26	283.50	00889
ABS 32	A32 26061	10	70	32	24	56	42	32	342.68	01089
ABS 32	A32 26071	12	80	32	24	66	47	37	315.96	01289
ABS 40	A32 36050	8	70	27	21	56	36	26	315.96	00888
ABS 40	A32 36061	10	70	32	24	56	42	32	315.96	01088
ABS 40	A32 36071	12	80	32	24	66	47	37	319.78	01288
ABS 40	A32 36091	16	90	34	27	76	50	40	342.68	01688
ABS 50	A32 46040	6	75	27	21	56	36	26	244.37	00697
ABS 50	A32 46050	8	75	27	21	56	36	26	242.46	00897
ABS 50	A32 46061	10	80	32	24	61	42	32	296.87	01097
ABS 50	A32 46071	12	80	32	24	61	47	37	302.59	01297
ABS 50	A32 46081	14	80	34	27	61	47	37	342.68	01497
ABS 50	A32 46091	16	85	34	27	66	50	40	287.32	01697
ABS 50	A32 46101	18	85	42	33	66	50	40	342.68	01897
ABS 50	A32 46111	20	90	42	33	71	52	42	275.87	02097
ABS 63	A32 56111	20	90	42	33	71	52	42	276.82	02096
ABS 63	A32 56121	25	95	53	44	76	58	48	354.13	02596
ABS 63	A32 56131	32	95	53	44	76	58	48	354.13	03296



Backstop screw

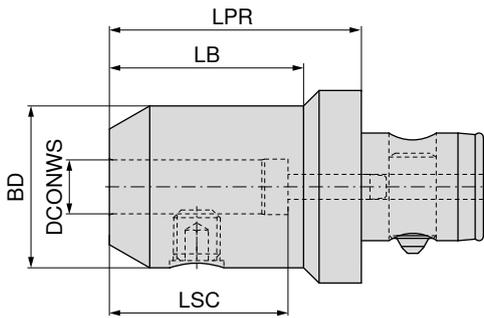
84 950 ...

Spare parts
DCONWS

DCONWS		£	
		W7	
6	M5x18	4.24	21400
8	M6x20	4.24	21500
10	M8x1x20	3.13	21600
12	M10x1x20	3.94	21700
14	M10x1x20	3.94	21700
16	M12x1x20	5.45	21800
18	M12x1x20	5.45	21800
20	M8x1x20	7.07	21900
25	M8x1x20	7.07	21900
32	M8x1x20	7.07	21900

Cylindrical shank adapter (Weldon) with ABS connection

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



							84 221 ...	
Adapter	KOMET no.	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	£	
ABS 50	A32 40010	6	45	25.0	27	40	202.37	00697
ABS 50	A32 40020	8	45	28.0	27	40	203.32	00897
ABS 50	A32 40030	10	55	35.0	37	44	202.37	01097
ABS 50	A32 40040	12	65	42.0	50	49	211.91	01297
ABS 50	A32 40080	14	65	44.0	50	49	221.46	01497
ABS 50	A32 40050	16	65	48.0	50	52	225.28	01697
ABS 50	A32 40090	18	65	49.9	50	52	202.37	01897
ABS 50	A32 40060	20	65	52.0	50	54	206.18	02097
ABS 50	A32 40070	25	75	65.0	60	60	351.28	02597
ABS 63	A32 50040	12	65	42.0	50	49	342.68	01296
ABS 63	A32 50100	14	65	44.0	50	49	336.00	01496
ABS 63	A32 50050	16	65	48.0	50	52	294.00	01696
ABS 63	A32 50110	18	65	50.0	50	52	308.32	01896
ABS 63	A32 50060	20	65	52.0	45	54	255.82	02096
ABS 63	A32 50070	25	75	65.0	60	60	286.37	02596
ABS 63	A32 50080	32	80	72.0	65	64	225.28	03296
ABS 80	A32 60060	20	65	52.0	45	54	364.63	02092
ABS 80	A32 60070	25	75	65.0	55	60	356.04	02592
ABS 80	A32 60080	32	80	72.0	66	64	266.32	03292

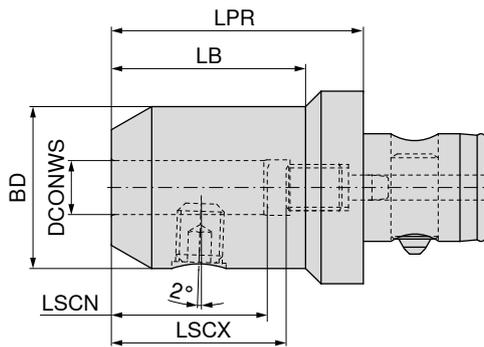


Spare parts
DCONWS

			62 950 ...	
DCONWS			£	
6	M6x10	0.91	006	
8	M8x10	0.91	008	
10	M10x12	1.75	010	
12	M12x16	1.39	012	
14	M12x16	1.39	012	
16	M14x16	1.71	016	
18	M14x16	1.71	016	
20	M16x16	1.83	020	
25	M18x2x20	3.53	025	
32	M20x2x20	3.69	032	

Cylindrical shank adapter (Whistle Notch) with ABS connection

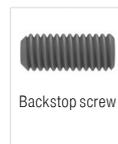
▲ For shanks according to DIN 6535 HE / 1835 E with angled clamping flat



84 220 ...

Adapter	KOMET no.	DCONWS mm	LPR mm	LB mm	BD mm	LSCX mm	LSCN mm	£ 3E	
ABS 25	A30 10601	6	55	40	24.9	36	26	227.18	00690
ABS 25	A30 10801	8	55	40	28.0	36	26	238.63	00890
ABS 25	A30 11001	10	60	45	35.0	40	30	226.22	01090
ABS 32	A30 20601	6	55	40	25.0	36	26	231.96	00689
ABS 32	A30 20801	8	55	40	28.0	36	26	232.91	00889
ABS 32	A30 20901	9	55	40	28.0	36	26	252.00	00989
ABS 32	A30 21001	10	60	45	35.0	40	30	211.91	01089
ABS 32	A30 21201	12	65	50	42.0	45	35	234.82	01289
ABS 32	A30 21401	14	65		42.0	45	35	318.82	01489
ABS 40	A30 30601	6	55	35	25.0	36	26	286.37	00688
ABS 40	A30 30801	8	55	35	28.0	36	26	264.41	00888
ABS 40	A30 31001	10	60	45	35.0	40	30	258.68	01088
ABS 40	A30 31201	12	65	50	42.0	45	35	241.50	01288
ABS 40	A30 31401	14	65	50	42.0	45	35	323.59	01488
ABS 40	A30 31601	16	70	55	48.0	48	38	270.13	01688
ABS 40	A30 31801	18	70	55	48.0	48	38	337.91	01888
ABS 50	A30 40601	6	55	30	25.0	36	26	231.00	00697
ABS 50	A30 40801	8	55	30	28.0	36	26	248.18	00897
ABS 50	A30 41001	10	60	40	35.0	40	30	229.09	01097
ABS 50	A30 41201	12	65	50	42.0	45	35	244.37	01297
ABS 50	A30 41301	13	65	50	42.0	45	35	341.72	01397
ABS 50	A30 41401	14	65	50	42.0	45	35	275.87	01497
ABS 50	A30 41601	16	70	55	48.0	48	38	255.82	01697
ABS 50	A30 41801	18	70	55	48.0	48	38	303.54	01897
ABS 50	A30 42002	20	75	60	52.0	50	40	252.00	02097
ABS 50	A30 42202	22	75	60	52.0	50	40	317.87	02297
ABS 50	A30 42502	25	75	60	52.0	50	40	267.28	02597
ABS 63	A30 51001	10	60	35	35.0	40	30	340.78	01096
ABS 63	A30 51201	12	65	45	42.0	45	35	298.78	01296
ABS 63	A30 51401	14	65	45	42.0	45	35	347.46	01496
ABS 63	A30 51601	16	70	50	48.0	48	38	311.18	01696
ABS 63	A30 51801	18	70	50	48.0	48	38	347.46	01896
ABS 63	A30 52001	20	75	55	52.0	50	40	258.68	02096
ABS 63	A30 52501	25	80	65	65.0	56	46	256.78	02596
ABS 63	A30 52801	28	80	65	65.0	56	46	370.37	02896
ABS 80	A30 62501	25	80	60	65.0	56	46	311.18	02592
ABS 80	A30 63201	32	90	70	72.0	60	50	380.87	03292

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

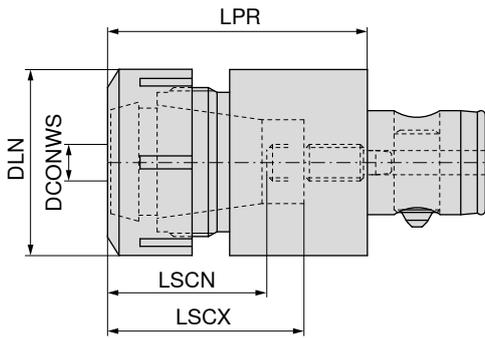


Spare parts DCONWS	62 950 ...			84 950 ...		
		£ W7			£ W7	
6	M6x10	0.91	006	M5x16	3.13	20500
8	M8x10	0.91	008	M6x16 - SW2,5	3.13	20600
9	M8x10	0.91	008	M8x1x16 - SW3	3.13	20800
10	M10x12	1.75	010	M8x1x16 - SW2,5	3.13	20700
12	M12x16	1.39	012	M10x1x18 - SW3	3.94	20900
13	M12x16	1.39	012	M12x1x17 - SW3	5.45	21000
14	M12x16	1.39	012	M12x1x17 - SW3	5.45	21000
16	M14x16	1.71	016	M14x1x19 - SW4	6.56	21100
18	M14x16	1.71	016	M14x1x19 - SW4	6.56	21100
20	M16x16	1.83	020	M16x1x21 - SW5	7.07	21200
22	M16x16	1.83	020	M16x1x21 - SW5	7.07	21200
25	M16x16	1.83	020	M16x1x21 - SW5	7.07	21200
28	M18x2x20	3.53	025	M16x1x21 - SW5	7.07	21200
32	M20x2x20	3.69	032	M20x1x27 - SW8	10.80	21300

ER collet chuck with ABS connection

Scope of supply:

Holder with lock nut and adjustable back stop



Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm	£	
ABS 25	A33 11120	1 - 10	40.1	28	31	28	204.28	01690
ABS 32	A33 12130	1 - 13	52.5	34	39	35	224.32	02089
ABS 40	A33 13141	1 - 16	62.0	42	46	43	239.59	02588
ABS 50	A33 14151	2 - 20	69.3	50	51	48	276.82	03297
ABS 63	A33 15161	3 - 26	78.3	63	55	52	273.00	04096

Spare parts	DCONWS	Lock nut	62 950 ...		Lock nut IK	83 950 ...		Lock nut	62 950 ...		Backstop screw	84 950 ...	
			£	W7		£	Y8		£	W7		£	W7
1 - 10	M22x1,5 - SW25	26.65	044	M22x1,5	68.61	054	M5x8 - SW2	3.13	22500				
1 - 13	M25x1,5 - SW30	21.49	045	M25x1,5	77.94	053	M6x12 - SW2,5	3.13	22000				
1 - 16				M32x1,5	79.92	055	M8x1x14 - SW4	3.43	22600				
2 - 20				M40x1,5	85.48	056	M40x1,5	22.64	056	M10x1x14 - SW5	3.94	22700	
3 - 26				M50x1,5	102.87	057	M50x1,5	23.45	057	M12x1x18 - SW8	5.45	22800	

Accessories

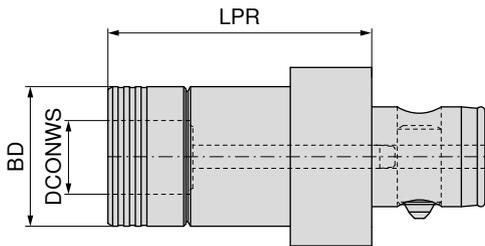


ER collet

→ 256-266

Quick change tapping chuck with length compensation

▲ With length compensation under tension and compression (LZD)



Adapter	KOMET no.	DCONWS mm	BD mm	LPR mm	84 225 ...
ABS 32	A34 32060	19	39	69	£ 1,652.33 01989
ABS 40	A34 33060	19	39	73	£ 1,652.33 01988
ABS 50	A34 34060	19	39	72	£ 1,652.33 01997
ABS 50	A34 34070	31	60	98	£ 1,918.51 03197
ABS 63	A34 35070	31	60	111	£ 1,918.51 03196

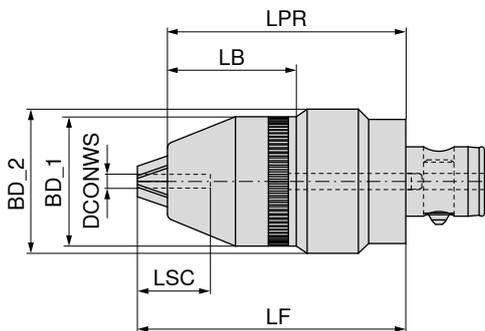
Accessories



Short drill chuck

Scope of supply:

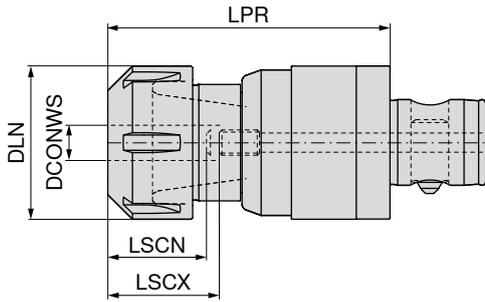
Holder with clamping key



G 6.3 n_{max.} 6500

Adapter	KOMET no.	DCONWS mm	LPR mm	BD_1 mm	BD_2 mm	LSC mm	LF mm	LB mm	84 227 ...
ABS 50	A34 24030	0,5 - 13	95	49	57.5	29	104.0	51.5	£ 744.54 01397
ABS 50	A34 24040	3 - 16	95	52	57.5	29	104.7	52.0	£ 863.87 01697

Synchro tapping shuck with ABS connection



Adapter	KOMET no.	DCONWS mm	LPR mm	DLN mm	LSCX mm	LSCN mm
ABS 32	50795131002000	1 - 13	78.0	34	42	29
ABS 50	50795135002000	1 - 13	85.0	34	42	29
ABS 50	50795135003200	2 - 20	90.5	50	45	31

84 226 ...	£	Y8
	1,273.35	02089
	1,273.35	02097
	1,396.80	03297

Accessories



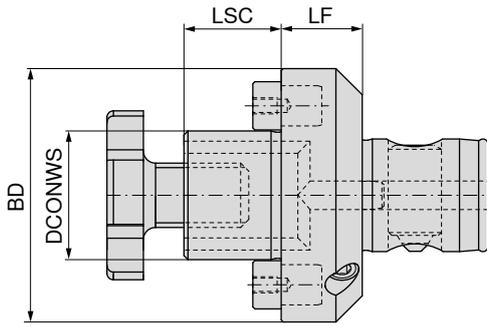
ER collet

→ 261-264

Shell mill adapter with ABS connection

Scope of supply:

Base body including drive dogs and retaining screw



Adapter	KOMET no.	DCONWS mm	LSC mm	LF mm	BD mm	84 228 ... £ 3E	84 228 ... £ 3E
ABS 50	A40 24023	16	17	20	50		284.46 01697
ABS 50	A40 24034	22	19	20	50		271.09 02297
ABS 50	A40 24043	27	21	20	50		290.18 02797
ABS 50	A40 24053	32	24	20	63		319.78 03297
ABS 63	A40 25032	22	19	22	63		328.37 02296
ABS 63	A40 25042	27	21	22	63		346.50 02796
ABS 63	A40 25052	32	24	22	63		357.00 03296
ABS 63	A40 25062	40	27	22	80		368.46 04096
ABS 80	A40 26042	27	21	25	80		359.87 02792
ABS 80	A40 26052	32	24	25	80		363.68 03292
ABS 80	A40 26062	40	27	25	80		367.50 04092
ABS 80	A40 16062	40	30	43	88	479.18 14092	
ABS 100	A40 27052	32	24	25	100		473.46 03291
ABS 100	A40 17062	40	30	38	88	407.59 14091	
ABS 100	A40 27062	40	27	25	100		412.37 04091
ABS 100	A40 17072	60	40	56	130	520.22 06091	



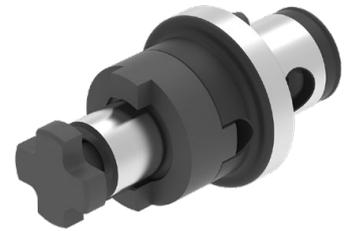
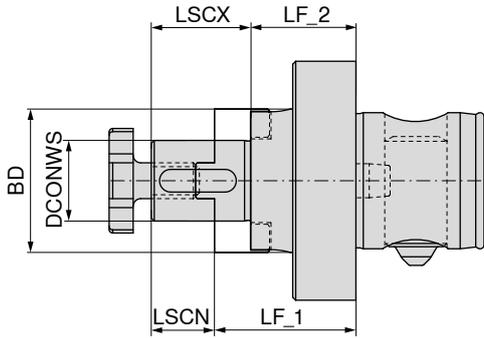
Spare parts	81 950 ... £ Y8	84 950 ... £ W7	83 950 ... £ Y8	83 367 ... £ Y8
DCONWS				
16	M3x8			M8
22		13,6x8x10	34.48 22900	M10
27		14,3x9x12	36.39 23000	M12
32		17x12x14	34.48 23100	M16
40	M6x16			M20
40			15,9x16,3x19,5	
60	M12x25		25,4x16,3x26,5	
	1.02 010		21.97 295	
	1.69 014		24.77 298	
	8.18 015			5.60 016
				6.23 022
				7.96 027
				12.50 032
				13.38 040

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



84 229 ...

Adapter	KOMET no.	DCONWS mm	BD mm	LF_1 mm	LF_2 mm	LSCX mm	LSCN mm	£	
ABS 50	A40 04022	16	32	32	22	27	17	220.50	01697
ABS 50	A40 04032	22	40	34	22	31	19	212.87	02297
ABS 63	A40 05021	16	32	36	26	27	17	309.28	01696
ABS 63	A40 05031	22	40	38	26	31	19	347.46	02296
ABS 63	A40 05041	27	48	38	26	33	21	270.13	02796
ABS 80	A40 06031	22	40	45	33	31	19	406.63	02292
ABS 80	A40 06041	27	48	45	33	33	21	365.59	02792
ABS 80	A40 06051	32	58	47	33	38	24	305.46	03292
ABS 80	A40 06061	40	70	47	33	41	27	321.68	04092



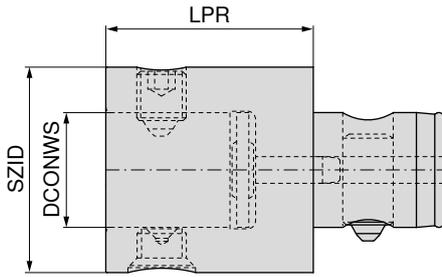
83 950 ...

83 370 ...

83 367 ...

Spare parts		£		£		£	
DCONWS		Y8		Y8		Y8	
16	4 x 4 x 20	3.45	284	12.74	116	5.60	016
22	6 x 6 x 25	3.45	285	12.23	122	6.23	022
27	7 x 7 x 25	5.48	286	15.26	127	7.96	027
32	8 x 7 x 28	3.90	287	16.01	132	12.50	032
40	10 x 8 x 32	4.60	288	26.96	140	13.38	040

Extension with ABS Connection



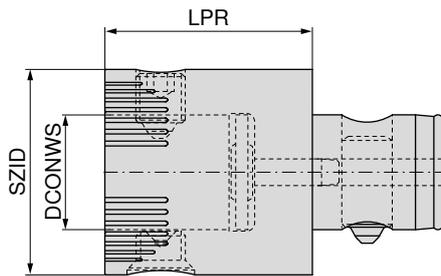
					84 209 ...	
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	£	
ABS 25	A20 00020	ABS 25	13	45	481.16	04590
ABS 25	A20 00220	ABS 25	13	60	481.16	06090
ABS 32	A20 00530	ABS 32	16	35	509.01	03589
ABS 32	A20 00030	ABS 32	16	50	509.01	05089
ABS 32	A20 00230	ABS 32	16	70	509.01	07089
ABS 40	A20 00540	ABS 40	20	40	536.66	04088
ABS 40	A20 00040	ABS 40	20	60	536.66	06088
ABS 40	A20 00240	ABS 40	20	90	536.66	09088
ABS 50	A20 00550	ABS 50	28	50	278.92	05097
ABS 50	A20 00050	ABS 50	28	65	278.92	06597
ABS 50	A20 00250	ABS 50	28	100	278.92	10097
ABS 50	A20 00150	ABS 50	28	150	278.92	15097
ABS 63	A20 00560	ABS 63	34	60	677.11	06096
ABS 63	A20 00060	ABS 63	34	85	677.11	08596
ABS 63	A20 00260	ABS 63	34	125	677.11	12596
ABS 63	A20 00160	ABS 63	34	190	677.11	19096
ABS 80	A20 00570	ABS 80	46	70	798.53	07092
ABS 80	A20 00070	ABS 80	46	85	798.53	08592
ABS 80	A20 00270	ABS 80	46	125	832.51	12592
ABS 80	A20 00170	ABS 80	46	240	832.51	24092
ABS 100	A20 00580	ABS 100	56	85	890.05	08591
ABS 100	A20 00080	ABS 100	56	125	890.05	12591
ABS 100	A20 00280	ABS 100	56	160	936.94	16091
ABS 125	A20 00090	ABS 125	70	160	1,054.05	16085
ABS 125	A20 00290	ABS 125	70	200	1,111.59	20085

Spare parts Adapter	Clamping screw		Clamping screw		Set		Set		Positioning pin		Pendulum bolt		Coolant pipe		Taper screw	
	£		£		£		£		£		£		£		£	
ABS 25	62 950 ...	XX	84 950 ...	5.68 26800	84 950 ...	26.17 98900	84 950 ...	13.77 99700	84 950 ...	0.34 23600	84 950 ...	19.69 26000	84 950 ...	6.02 24400	84 950 ...	8.22 27000
ABS 32	9.47 13989		6.43 26900		33.63 98700		14.92 99500		6.78 23700		14.64 26100		6.25 24500		8.22 27100	
ABS 40			8.63 20300		56.12 99900		19.57 99800		6.78 23800		20.53 26200		6.25 24600		8.54 27200	
ABS 50			8.22 25500		38.24 98600		18.45 99400		7.52 23900		23.95 26300		6.73 24700		10.42 27300	
ABS 63			10.10 25600		40.41 98500		22.38 99300		7.89 24000		25.81 26400		7.01 24800		12.30 25100	
ABS 80			12.45 25700		46.79 98400		26.03 99200		9.23 24100		29.67 26500		7.88 24900		13.65 25200	
ABS 100			22.30 25800		71.80 98300		45.45 99100		17.81 24200		45.40 26600		8.78 25000		23.17 25300	

Torsional vibration dampers with ABS Connection

Scope of supply:

Base body with sealing disc



Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 216 ...
ABS 50	A20 00651	ABS 50	28	50	£ 3E 1,151.92 05097
ABS 63	A20 00661	ABS 63	34	60	1,620.39 06096
ABS 80	A20 00670	ABS 80	46	70	1,740.72 07092

Spare parts
SZID

	£	84 950 ...	£	84 950 ...	£	84 950 ...
ABS 50	8.63	20300	19.57	99800	10.97	20400
ABS 63	8.22	25500	18.45	99400	10.42	27300
ABS 80	10.10	25600	22.38	99300	12.30	25100

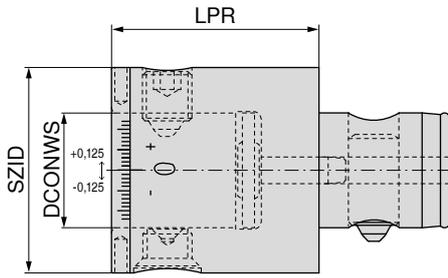
Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
£ XX	£ XX	£ XX

Eccentric adjuster with ABS Connection

▲ Adjustment ± 0.25 mm on diameter

Scope of supply:

Eccentric adjuster with adjuster key Ø 2.8 mm



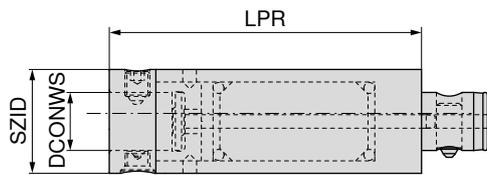
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 217 ...
ABS 50	A20 00620	ABS 50	28	50	£ W4 564.56 05097
ABS 63	A20 00630	ABS 63	34	60	610.19 06096

Spare parts

SZID	Clamping screw	Set	Taper screw
ABS 50	£ XX 8.63 20300	£ XX 19.57 99800	£ XX 10.97 20400
ABS 63	£ XX 8.22 25500	£ XX 18.45 99400	£ XX 10.42 27300

Damping element with ABS connection

▲ Reduction in undesirable tool vibrations



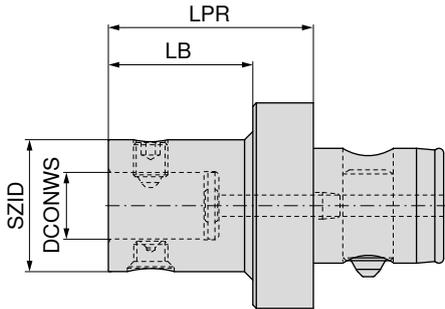
Adapter	KOMET no.	SZID	DCONWS mm	LPR mm	84 218 ...	
ABS 40	A20 01240	ABS 40	20	120	£ 3E	
ABS 50	A20 01250	ABS 50	28	150	1,110.13	12088
ABS 63	A20 01260	ABS 63	34	190	1,289.59	15097
ABS 80	A20 01270	ABS 80	46	240	1,686.68	19096
					2,349.13	24092

Spare parts

SZID	84 950 ...		84 950 ...		84 950 ...	
	£	XX	£	XX	£	XX
ABS 40	6.43	26900	14.92	99500	8.54	27200
ABS 50	8.63	20300	19.57	99800	10.97	20400
ABS 63	8.22	25500	18.45	99400	10.42	27300
ABS 80	10.10	25600	22.38	99300	12.30	25100

Clamping screw	Set	Taper screw
84 950 ...	84 950 ...	84 950 ...
£	£	£
XX	XX	XX

Reduction with ABS connection



Adapter	KOMET no.	SZID	DCONWS	LPR	LB	84 219 ...	
			mm	mm	mm	£	
ABS 32	A20 10120	ABS 25	13	40	30	538.70	03290
ABS 40	A20 10220	ABS 25	13	40	28	568.60	04090
ABS 40	A20 10230	ABS 32	16	40	28	568.60	04089
ABS 50	A20 10320	ABS 25	13	50	35	617.53	05090
ABS 50	A20 10330	ABS 32	16	50	35	617.53	05089
ABS 50	A20 10340	ABS 40	20	50	35	617.53	05088
ABS 63	A20 10420	ABS 25	13	60	40	692.06	06390
ABS 63	A20 10430	ABS 32	16	60	40	692.06	06389
ABS 63	A20 10440	ABS 40	20	60	40	692.06	06388
ABS 63	A20 10450	ABS 50	28	60	40	692.06	06397
ABS 80	A20 10530	ABS 32	16	60	35	817.77	08089
ABS 80	A20 10540	ABS 40	20	60	35	817.77	08088
ABS 80	A20 10550	ABS 50	28	60	35	817.77	08097
ABS 80	A20 10560	ABS 63	34	60	35	817.77	08096
ABS 100	A20 10650	ABS 50	28	80	50	892.30	10097
ABS 100	A20 10660	ABS 63	34	80	50	892.30	10096
ABS 100	A20 10670	ABS 80	46	80	50	892.30	10092
ABS 125	A20 10770	ABS 80	46	100	50	985.88	12592
ABS 125	A20 10780	ABS 100	56	100	50	985.88	12591

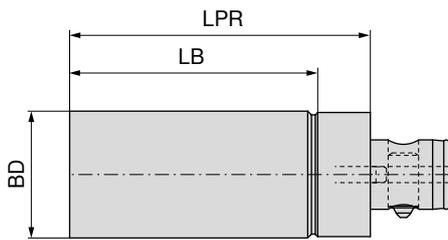
Spare parts
SZID

	62 950 ...	84 950 ...	84 950 ...	84 950 ...
	£	£	£	£
ABS 25	XX	XX	XX	XX
ABS 32	9.47	5.68	13.77	8.22
ABS 40		6.43	14.92	8.54
ABS 50		8.63	19.57	10.97
ABS 63		8.22	18.45	10.42
ABS 80		10.10	22.38	12.30
ABS 100		12.45	26.03	13.65

Clamping screw	Clamping screw	Set	Taper screw
62 950 ...	84 950 ...	84 950 ...	84 950 ...

Blank with ABS connection

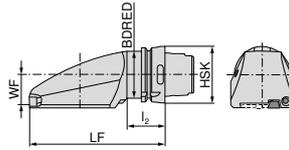
- ▲ Connection area hardened and ground
- ▲ Dimension BD x dimension LB = unhardened area for further processing



Adapter	KOMET no.	LPR mm	BD mm	LB mm
ABS 25	B10 01011	70	26	55
ABS 32	B10 02011	80	33	65
ABS 40	B10 03011	100	41	82
ABS 50	B10 04011	120	51	99
ABS 63	B10 05011	150	64	124
ABS 80	B10 06011	180	81	145
ABS 100	B10 07011	200	101	158

84 230 ...	
£	
W4	
124.09	02690
130.78	03389
152.72	04188
148.91	05197
188.04	06496
291.13	08192
383.72	10191

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

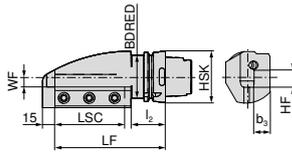


Illustrations show right-hand versions

ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	for parting blades	Left-hand		Right-hand	
							74 585 ...	74 584 ...	£	£
HSK T63 XCLCF 32 R/L 00	HSK-T 63	150	42	53	32	XLCF R/L 32...	2D/80	532	2D/80	532
HSK T100 XCLCF 32 R/L 00	HSK-T 100	160	45	88	45	XLCF R/L 32...	740.08	732	740.08	732

Spare parts for Article no.	UNJF 7/16"-20	Protection plugs		UNJF 7/16"-20		T25	Key D		UNJF 7/16"-20		Hollow key with nose			
		70 950 ...	£	70 950 ...	£		80 950 ...	£	70 950 ...	£	70 950 ...	£		
74 584 532 / 74 585 532	UNJF 7/16"-20	19.29	05600	2A/28	28	05500	Y7	14.16	115	2A/28	59.25	860	42.87	05700
74 584 732 / 74 585 732	UNJF 7/16"-20	19.29	05600	2A/28	28	05500	Y7	14.16	115	2A/28	59.25	860	42.87	05700

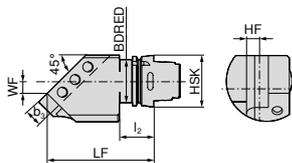
HSK-T square shank adapter 0°



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		Right-hand	
									£		£	
HSK T63 SH R/L 00 2525	HSK-T 63	135	42	53	13	85.5	25	25	74 571 ...		74 570 ...	
HSK T100 SH R/L 00 3232	HSK-T 100	145	45	88	15	87.5	32	32	£ 2D/80 443.44	525	£ 2D/80 443.44	532
									582.76	725	582.76	732

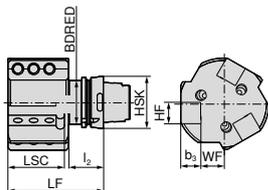
HSK-T square shank adapter 45°



Illustrations show right-hand versions

ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	b ₃ mm	HF mm	Left-hand		Right-hand	
								£		£	
HSK T63 SH R/L 45 2525	HSK-T 63	140	42	53	15	25	25	74 573 ...		74 572 ...	
HSK T100 SH R/L 45 3232	HSK-T 100	160	45	88	20	32	32	£ 2D/80 476.77	525	£ 2D/80 476.77	525
								611.27	732	611.27	732

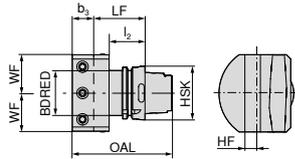
HSK-T square shank adapter 3-face 0°



ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	LSC mm	b ₃ mm	HF mm	Left-hand	
									£	
HSK T63 SH3 L 00 2525	HSK-T 63	115	42	53	28	68	25	25	74 576 ...	
HSK T100 SH3 L 00 2525	HSK-T 100	120	45	88	33	70	25	25	£ 2D/80 773.08	525
									1,095.83	725

Spare parts	Adapter	UNJF 7/16"-20	UNJF 7/16"-20	UNJF 7/16"-20	UNJF 7/16"-20	M12x1,75x25	M12x1,75x25	Protection plugs		Nozzle		Hollow key with nose		Grubscrew	
								£		£		£		£	
HSK-T 100								70 950 ...		70 950 ...		70 950 ...		70 950 ...	
HSK-T 63								£ 2A/28 19.29	05600	£ 28 27.73	05500	£ 2A/28 42.87	05700	£ 28 2.13	851
								19.29	05600	27.73	05500	42.87	05700	2.13	851

HSK-T square shank adapter 90°



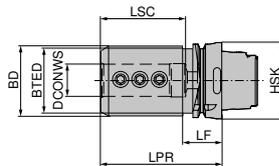
Neutral
74 575 ...

ISO designation	Adapter	LF mm	l ₂ mm	BDRED mm	WF mm	OAL mm	HF mm	b ₃ mm	£	
HSK T63 SH N 90 2525	HSK-T 63	60	42	53	45	85	25	25	452.90	525
HSK T100 SH N 90 3232	HSK-T 100	58	45	88	50	90	32	32	611.27	732



Spare parts	70 950 ...	70 950 ...	70 950 ...	70 950 ...
Adapter	£ 2A/28	£ 28	£ 2A/28	£ 28
HSK-T 100	UNJF 7/16"-20 19.29 05600	UNJF 7/16"-20 27.73 05500	M12x1,75x25 42.87 05700	M12x1,75x25 2.13 851
HSK-T 63	UNJF 7/16"-20 19.29 05600	UNJF 7/16"-20 27.73 05500	M12x1,75x25 42.87 05700	M12x1,75x25 2.13 851

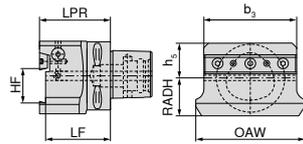
HSK-T Boring bar holder



74 577 ...

ISO designation	Adapter	LPR mm	DCONWS mm	BD mm	LSC mm	LF mm	BTED mm	£	
HSK T63 BH08 80	HSK-T 63	80	8	32	41			2D/80	
HSK T63 BH10 80	HSK-T 63	80	10	40	41			329.36	508
HSK T63 BH12 80	HSK-T 63	80	12	40	41			329.36	510
HSK T63 BH16 80	HSK-T 63	80	16	40	51			329.36	512
HSK T63 BH20 80	HSK-T 63	80	20	50	51			329.36	516
HSK T63 BH25 90	HSK-T 63	90	25	53	61			329.36	520
HSK T63 BH32 95	HSK-T 63	95	32	68	61	42	53	329.36	525
HSK T100 BH20 90	HSK-T 100	90	20	55	56			419.71	532
HSK T100 BH25 95	HSK-T 100	95	25	55	61			419.71	720
HSK T100 BH32 110	HSK-T 100	110	32	68	61			419.71	725
HSK T100 BH40 120	HSK-T 100	120	40	83	81			419.71	732
HSK T100 BH50 125	HSK-T 100	125	50	98	91	45	88	419.71	740
								419.71	750

Radial parting blade holder, right / left

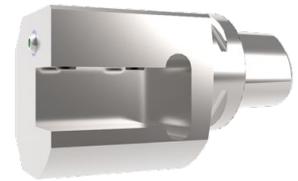
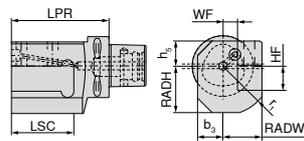


Neutral
84 132 ...

Adapter	HF mm	LPR mm	OAW mm	b ₃ mm	h ₅ mm	RADH mm	LF mm
PSC 63	26	65	91	75	30	30	60
PSC 63	32	65	100	85	32	35	88

£	Y8
409.22	626
409.22	632

Square section adapter, single face

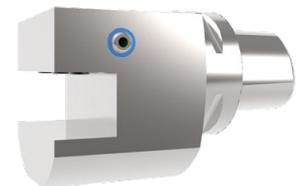
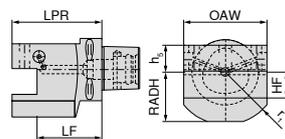


Illustrations show right-hand versions

Adapter	HF mm	LPR mm	b ₃ mm	RADW mm	r ₁ mm	WF mm	h ₅ mm	RADH mm	LSC mm
PSC 50	20	80	26	35	45	15	26	43	53
PSC 50	25	90	26	40	51	15	26	48	64
PSC 50	32	115	26	47	61	15	26	55	90
PSC 63	20	90	26	35	45	15	26	43	53
PSC 63	25	100	26	40	51	15	26	48	64
PSC 63	32	125	26	47	61	15	26	55	90
PSC 80	20	90	26	35	45	15	26	43	53
PSC 80	25	100	26	40	51	15	26	48	64
PSC 80	32	125	26	47	61	15	26	55	90

Left-hand 84 611 ...		Right-hand 84 610 ...	
£	Y8	£	Y8
332.19	520	332.19	520
332.19	525	332.19	525
332.19	532	332.19	532
383.49	620	383.49	620
383.49	625	383.49	625
383.49	632	383.49	632
460.53	820	460.53	820
460.53	825	460.53	825
460.53	832	460.53	832

Square section adapter

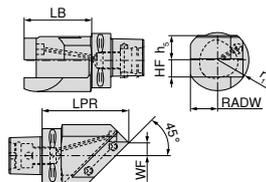


Neutral
84 602 ...

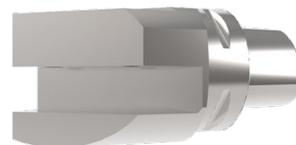
Adapter	HF mm	LPR mm	OAW mm	r ₁ mm	RADH mm	h ₅ mm	LF mm
PSC 50	20	70	70	45	43	26	50
PSC 50	25	80	80	51	48	26	55
PSC 50	32	90	90	61	55	26	58
PSC 63	20	80	70	45	43	26	60
PSC 63	25	90	80	51	48	26	65
PSC 63	32	100	90	61	55	26	68
PSC 80	20	80	70	45	43	26	60
PSC 80	25	90	80	51	48	26	65
PSC 80	32	100	90	61	55	26	68

£	Y8
332.19	520
345.06	525
370.77	532
383.49	620
409.22	625
434.79	632
409.22	820
434.79	825
460.53	832

Square section adapter 45°



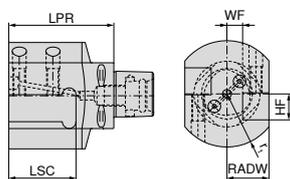
Illustrations show right-hand versions



Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	h ₅ mm	LB mm
PSC 50	20	100	31	36	15	26	80
PSC 63	20	100	32	36	15	28	78
PSC 80	32	135	45	70	17	40	105

Left-hand		Right-hand	
84 605 ...		84 604 ...	
£	Y8	£	Y8
332.19	520	332.19	520
396.36	620	396.36	620
447.66	832	447.66	832

Square section adapter, double face



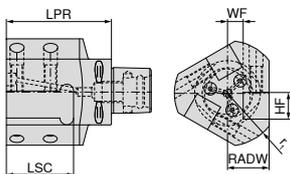
Illustrations show right-hand versions



Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	LSC mm
PSC 50	20	80	35	45	15	53
PSC 50	25	90	40	51	15	64
PSC 50	32	115	47	61	15	90
PSC 63	20	90	35	45	15	53
PSC 63	25	100	40	51	15	64
PSC 63	32	125	47	61	15	90
PSC 80	20	90	35	45	15	53
PSC 80	25	100	40	51	15	64
PSC 80	32	125	47	61	15	90

Left-hand		Right-hand	
84 613 ...		84 612 ...	
£	Y8	£	Y8
563.13	520	563.13	520
575.99	525	575.99	525
588.71	532	588.71	532
588.71	620	588.71	620
601.58	625	601.58	625
614.44	632	614.44	632
704.17	820	704.17	820
717.06	825	717.06	825
729.91	832	729.91	832

Square section adapter, triple face



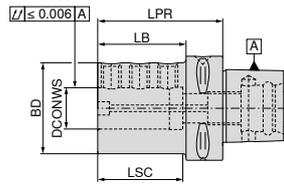
Illustrations show right-hand versions



Adapter	HF mm	LPR mm	RADW mm	r ₁ mm	WF mm	LSC mm
PSC 50	20	80	35	45	15	53
PSC 50	25	90	40	51	15	64
PSC 50	32	115	47	61	15	90
PSC 63	20	90	35	45	15	53
PSC 63	25	100	40	51	15	64
PSC 63	32	125	47	61	15	90
PSC 80	20	90	35	45	15	53
PSC 80	25	100	40	51	15	64
PSC 80	32	125	47	61	15	90

Left-hand		Right-hand	
84 615 ...		84 614 ...	
£	Y8	£	Y8
755.48	520	755.48	520
768.35	525	768.35	525
794.05	532	794.05	532
883.81	620	883.81	620
922.26	625	922.26	625
947.98	632	947.98	632
1,063.43	820	1,063.43	820
1,089.03	825	1,089.03	825
1,114.74	832	1,114.74	832

Boring bar holder



Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm
PSC 50	6	70	40	50	40
PSC 50	8	70	44	50	40
PSC 50	10	70	44	50	45
PSC 50	12	70	44	50	45
PSC 50	16	75	44	55	45
PSC 50	20	75	50	75	51
PSC 50	25	80	55	50	51
PSC 50	32	90	72	70	60
PSC 63	6	75	40	53	40
PSC 63	8	75	44	53	40
PSC 63	10	75	44	53	45
PSC 63	12	75	44	53	45
PSC 63	16	75	44	53	45
PSC 63	20	75	50	53	51
PSC 63	25	75	55	53	51
PSC 63	32	75	72	52	60
PSC 63	40	105	70	82	90

84 130 ...

£	
Y8	
293.75	506
293.75	508
293.75	510
293.75	512
293.75	516
293.75	520
293.75	525
293.75	532
293.75	606
293.75	608
293.75	610
293.75	612
293.75	616
293.75	620
293.75	625
293.75	632
293.75	640



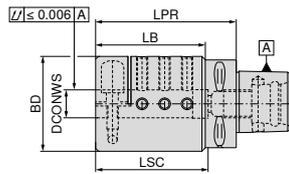
84 950 ...

Spare parts

DCONWS		£	
6	M6x16	6.76	153
8	M8x16	6.76	154
10	M10x16	6.76	155
12 - 40	M12x14	6.76	156

Boring bar adapter, split version

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

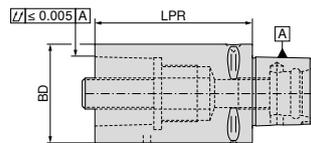


Adapter	DCONWS mm	LPR mm	BD mm	LB mm	LSC mm	84 131 ...	
						£	
PSC 63	6	80	40	58	60	357.91	606
PSC 63	8	85	45	63	65	357.91	608
PSC 63	10	85	50	63	65	357.91	610
PSC 63	12	100	63	78	80	357.91	612
PSC 63	16	100	63	78	80	357.91	616
PSC 63	20	100	68	78	80	357.91	620
PSC 63	25	100	68	78	80	357.91	625
PSC 63	32	100	72	78	80	357.91	632

Spare parts	DCONWS	Grubscrew	83 950 ...		84 950 ...		81 950 ...		
			£		£		£		
	6		Y8		Y8		Y8		
	8	M6x20	3.44	462			M5x15	2.97	050
	10				M6x16	6.76	153		
	12 - 20	M8x20	3.44	468					
	25	M8x25	3.44	467					
	32	M10x20	3.44	471					

Extension, axial clamping

▲ Run out ≤ 0,002mm



Adapter	BD mm	LPR mm	84 620 ...	
			£	
			Y8	
PSC 32	32	60	242.45	301
PSC 32	32	80	242.45	302
PSC 40	40	60	255.30	401
PSC 40	40	80	255.30	402
PSC 50	50	80	268.02	501
PSC 50	50	100	268.02	502
PSC 63	63	100	280.89	601
PSC 63	63	140	280.89	602
PSC 80	80	100	293.75	801
PSC 80	80	125	293.75	802

Spare parts

Adapter

Adapter	£		£	
	Y8		Y8	
PSC 32	41.15	127	29.87	122
PSC 40	41.15	128	33.67	123
PSC 50	41.15	129	33.67	124
PSC 63	82.16	130	37.47	126
PSC 80	82.16	130	37.47	126



84 950 ...

84 950 ...

Accessories

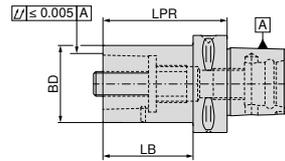


Hollow nose keys

→ 208

Cylindrical reduction

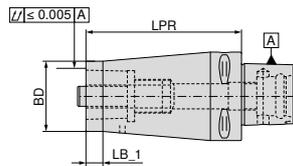
▲ Run out ≤ 0,002mm



Adapter	BD mm	LPR mm	LB mm	84 624 ...	
				£ Y8	
PSC 40	32	55	35	229.59	403
PSC 50	32	60	40	255.30	503
PSC 50	40	65	45	255.30	504
PSC 63	32	70	48	268.02	603
PSC 63	40	80	58	268.02	604
PSC 63	50	80	58	268.02	605
PSC 80	32	60	30	280.89	803
PSC 80	40	70	40	280.89	804
PSC 80	50	80	50	280.89	805
PSC 80	63	80	50	280.89	806
PSC 80X	63	80	48	370.77	816
PSC 80X	80	100	68	370.77	818

Tapered reduction

▲ Run out ≤ 0,002mm



Adapter	BD mm	LPR mm	LB_1 mm	84 625 ...	
				£ Y8	
PSC 40	32	70	12	229.59	403
PSC 50	40	85	12	255.30	504
PSC 63	50	110	12	268.02	605
PSC 80	63	120	12	293.75	806
PSC 80X	80	150	12	370.77	818

Spare parts

Adapter

PSC 40
PSC 50
PSC 63
PSC 80
PSC 80X



84 950 ...

84 950 ...

£
Y8
41.15 128
41.15 129
82.16 130
82.16 130
82.16 130

£
Y8
33.67 123
33.67 124
37.47 126
37.47 126
37.47 126

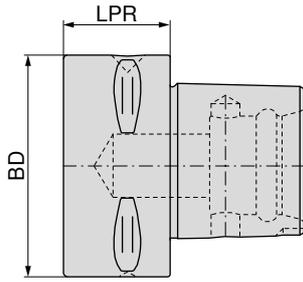
Accessories



Hollow nose keys

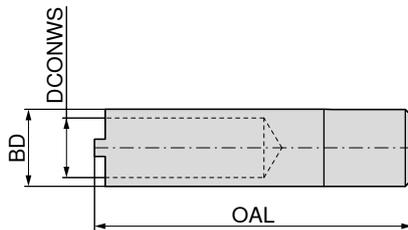
→ 208

Sealing plugs



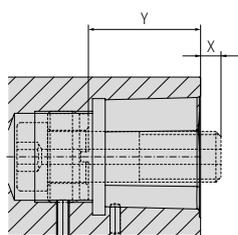
Adapter	BD mm	LPR mm	84 135 ...	
			£	
			Y8	
PSC 40	40	28	128.32	040
PSC 50	50	28	128.32	050
PSC 63	63	30	151.35	060
PSC 80	80	38	164.20	080

Hollow nose key for clamping screw for PSC extensions and reductions



Adapter	BD mm	OAL mm	DCONWS mm	84 651 ...	
				£	
				Y8	
PSC 32	16	80	12.5	66.82	032
PSC 40	20	80	15.0	70.53	040
PSC 50	22	90	17.0	70.53	050
PSC 63/80/80X	34	110	21.0	77.92	063

Installation instructions: clamping screw for PSC extensions and reductions

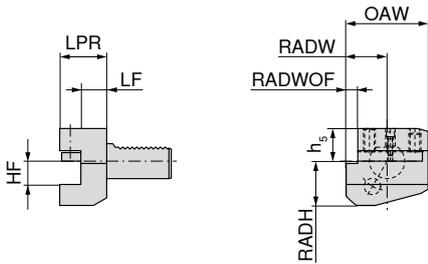


X = Screw leading edge
Y = Threaded ring insertion depth

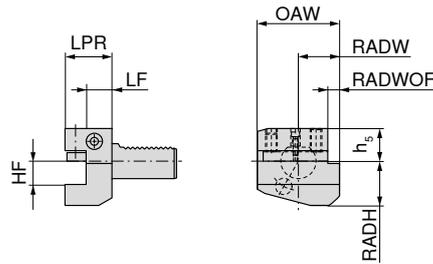
Threaded ring secured with threaded pin DIN 914.
Drilled threaded ring!

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



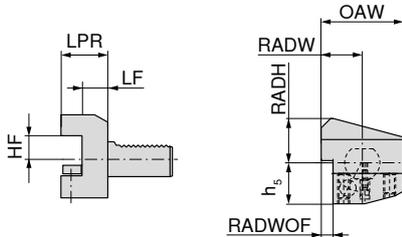
B1



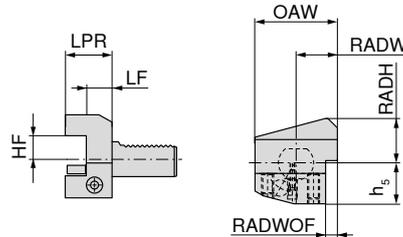
Adapter	HF _{0/-0.1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0.5} mm	LPR mm	Left-hand		Right-hand	
									£		£	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24	258.01	160	185.47	160
VDI 16	12	42	23.0	5.0	20.0	22	23.0	34	210.11	161		
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30	158.33	200	169.02	200
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	206.38	201	195.02	201
VDI 20	16	55	30.0	7.0	25.0	30	18.0	30	576.09	202 ¹⁾	550.62	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	25.5	40			487.29	203 ¹⁾
VDI 25	16	55	30.0	7.0	25.0	30	16.0	30	337.63	250	265.39	250
VDI 30	20	70	35.0	10.0	28.0	38	18.5	40	171.45	300	155.44	300
VDI 30	20	70	35.0	10.0	28.0	35	32.0	50			1,199.17	302 ¹⁾
VDI 30	20	70	35.0	10.0	28.0	38	42.0	60	271.09	301	257.26	301
VDI 40	25	85	42.5	12.5	32.5	48	18.5	44	173.73	400	158.62	400
VDI 50	32	100	50.0	16.0	35.0	60	30.0	55	269.37	500	264.95	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, short



B4



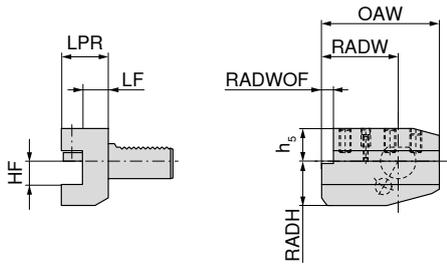
B3



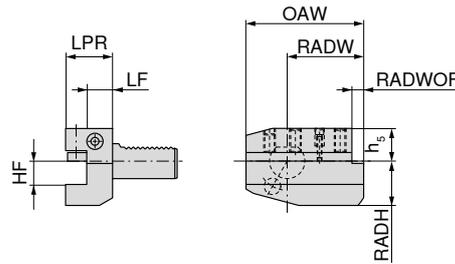
Adapter	HF _{0/-0.1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0.5} mm	LPR mm	Left-hand		Right-hand	
									£		£	
VDI 16	12	42	23.0	5.0	20.0	22	13.0	24			195.51	160
VDI 20	16	55	30.0	7.0	25.0	30	16.0	30	167.33	200	169.02	200
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	367.83	201	245.37	201
VDI 20	16	55	30.0	7.0	25.0	30	18.5	30	720.42	202 ¹⁾	595.70	202 ¹⁾
VDI 20	16	55	30.0	7.0	25.0	30	26.0	40	959.78	203 ¹⁾	625.22	203 ¹⁾
VDI 25	16	55	30.0	7.0	25.0	30	16.0	30	352.80	250	272.10	250
VDI 30	20	70	35.0	10.0	35.0	38	42.0	60	271.09	301	271.09	301
VDI 30	20	70	35.0	10.0	35.0	38	18.5	40	173.73	300	160.16	300
VDI 40	25	85	42.5	12.5	42.5	48	18.5	44	178.47	400	169.38	400
VDI 50	32	100	50.0	16.0	50.0	60	30.0	55	316.54	500	269.37	500

1) Height adjustable +/- 1 mm

Radial tool holders, long



B6



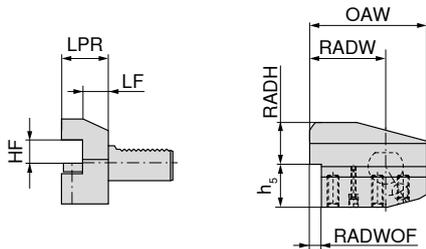
B5



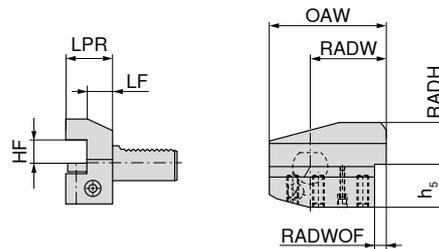
Adapter	HF _{0/-0.1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0.5} mm	LPR mm	Left-hand		Right-hand	
									82 202 ...	82 199 ...		
									£ Y8		£ Y8	
VDI 20	16	75	50.0	7.0	25.0	30	16.0	30	266.46	200	280.56	200
VDI 20	16	75	50.0	7.0	25.0	30	26.0	40	297.13	201	272.28	201
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30			699.66	202 ¹⁾
VDI 30	20	100	65.0	10.0	28.0	38	18.5	40	200.89	300	195.25	300
VDI 30	20	100	65.0	10.0	28.0	38	42.0	60	293.25	301	498.87	301
VDI 40	25	118	75.5	12.5	32.5	48	18.5	44	199.36	400	203.34	400
VDI 50	32	130	80.0	16.0	35.0	60	30.0	55	377.11	500	372.61	500

1) Height adjustable +/- 1 mm

Radial tool holders, overhead, long



B8



B7

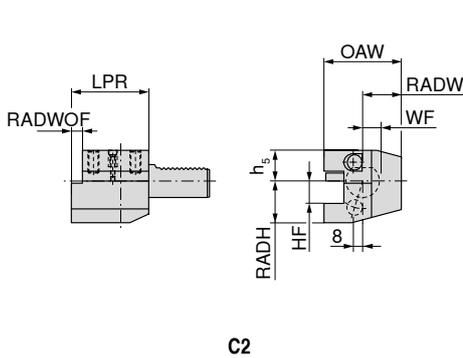


Adapter	HF _{0/-0.1} mm	OAW mm	RADW mm	RADWOF mm	h ₅ mm	RADH mm	LF _{0/+0.5} mm	LPR mm	Left-hand		Right-hand	
									82 208 ...	82 205 ...		
									£ Y8		£ Y8	
VDI 20	16	75	50.0	7.0	25.0	30	16.0	30	282.18	200	227.51	200
VDI 20	16	75	50.0	7.0	25.0	30	26.0	40			371.09	201
VDI 20	16	75	50.0	7.0	25.0	30	18.0	30			688.52	202 ¹⁾
VDI 30	20	100	65.0	10.0	35.0	38	18.5	40	229.56	300	200.89	300
VDI 30	20	100	65.0	10.0	35.0	38	42.0	60			296.73	301
VDI 40	25	118	75.5	12.5	42.5	48	18.5	44	222.69	400	222.69	400
VDI 50	32	130	80.0	16.0	50.0	60	30.0	55	362.28	500	378.96	500

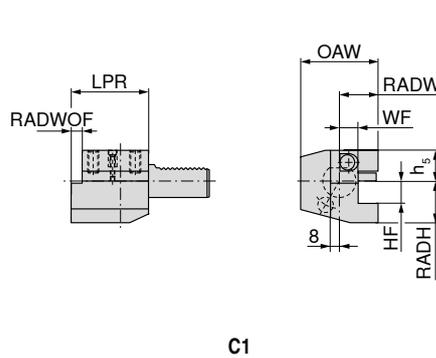
1) Height adjustable +/- 1 mm

You can find spare parts on → **Page 254**

Axial tool holders



C2



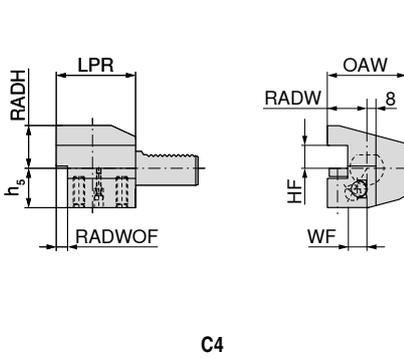
C1



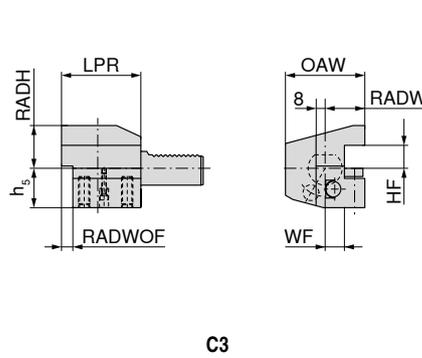
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								82 214 ...	82 211 ...	82 211 ...	82 211 ...
VDI 16	12	43	24.0	13.0	20.0	22	44	£ Y8		£ Y8	160
VDI 20	16	65	40.0	26.0	25.0	30	50	197.54	200	199.97	201
VDI 20	16	65	40.0	25.5	25.0	30	50			712.47	202 ¹⁾
VDI 20	16	52	27.0	13.0	25.0	30	55			232.98	200
VDI 25	16	58	33.0	19.0	25.0	30	55	242.98	250	244.65	250
VDI 30	20	70	35.0	17.0	28.0	38	70			180.30	300
VDI 30	20	76	41.0	23.0	28.0	38	70	192.18	300		
VDI 40	25	90	47.5	25.5	32.5	48	85	212.18	400		
VDI 40	25	85	42.5	20.5	32.5	48	85			209.74	400
VDI 50	32	100	50.0	25.5	35.0	60	100			305.82	500
VDI 50	32	105	55.0	30.5	35.0	60	100	383.37	500		

1) Height adjustable +/- 1 mm

Axial tool holders, overhead



C4



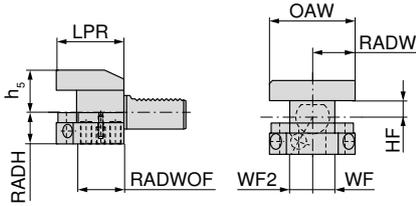
C3



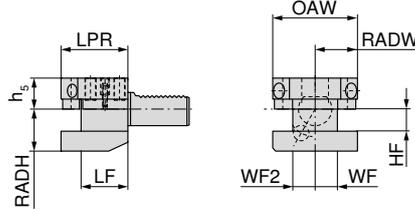
Adapter	HF _{0/-0,1} mm	OAW mm	RADW mm	WF _{0/+0,3} mm	h ₅ mm	RADH mm	LPR mm	Left-hand		Right-hand	
								82 220 ...	82 217 ...	82 217 ...	82 217 ...
VDI 16	12	43	24.0	13.0	20.0	22	44	£ Y8		£ Y8	160
VDI 20	16	65	40.0	26.0	25.0	30	50	211.42	200	241.61	201
VDI 20	16	65	40.0	25.5	30.0	25	50			918.67	202 ¹⁾
VDI 20	16	65	40.0	25.5	25.0	30	50	741.90	201 ¹⁾	287.27	200
VDI 20	16	52	27.0	13.0	25.0	30	55				
VDI 25	16	58	33.0	19.0	25.0	30	55	267.68	250	267.68	250
VDI 30	20	70	35.0	17.0	35.0	38	70			184.13	300
VDI 30	20	76	41.0	23.0	35.0	38	70	193.71	300		
VDI 40	25	85	42.5	20.5	42.5	48	85	212.18	400	212.18	400
VDI 40	25	90	47.5	25.5	42.5	48	85				
VDI 50	32	100	50.0	25.5	50.0	60	100			311.16	500
VDI 50	32	105	55.0	30.5	50.0	60	100	264.95	500		

1) Height adjustable +/- 1 mm

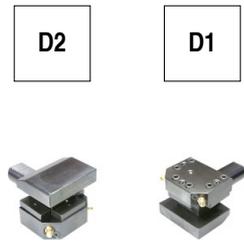
Multiple tool holders



D2



D1

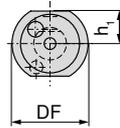
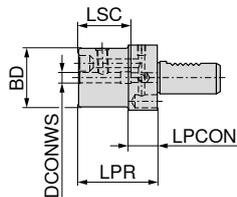


Adapter	HF _{0/-0.1} mm	RADW mm	WF _{0/+0.3} mm	WF2 _{0/+0.3} mm	OAW mm	h ₅ mm	RADH mm	LF _{0/+0.5} mm	LPR mm
VDI 25	16	33.0	19.0	19.0	66	22.0	30	34	48
VDI 25	16	33.0	19.0	19.0	66	25.0	30	34	48
VDI 30	20	35.0	17.0	23.0	76	28.0	38	42	60
VDI 30	20	35.0	17.0	23.0	76	35.0	38	42	60
VDI 40	25	42.5	20.5	25.5	90	32.5	48	50	72
VDI 40	25	42.5	20.5	25.5	90	42.5	48	50	72

82 224 ...		82 222 ...	
£		£	
Y8		Y8	
437.83	250	417.93	250
423.89	300	423.89	300
443.87	400	443.87	400

Cylindrical tool holders

- ▲ for tools with cylindrical 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



Cooling through nozzle

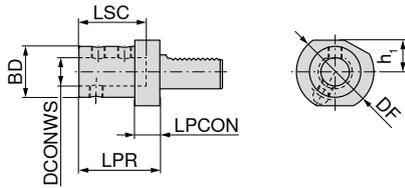
Adapter	DCONWS mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm
VDI 20	6	50	45	23.0	60	22	40
VDI 20	8	50	45	23.0	60	22	40
VDI 20	10	50	45	23.0	60	22	44
VDI 20	12	50	45	23.0	60	22	49
VDI 20	14	50	45	23.0	62	22	49
VDI 20	16	50	45	23.0	67	22	52
VDI 20	18	50	45	23.0	67	22	52
VDI 20	20	50	45	23.0	67	22	52
VDI 30	6	68	52	28.0	67	22	35
VDI 30	8	68	52	28.0	67	22	35
VDI 30	10	68	52	28.0	67	22	39
VDI 30	12	68	52	28.0	67	22	44
VDI 30	14	68	52	28.0	67	22	44
VDI 30	16	68	52	28.0	67	22	47
VDI 30	18	68	52	28.0	67	22	47
VDI 30	20	68	52	28.0	67	22	52
VDI 40	6	83	52	32.5	67	22	35
VDI 40	8	83	52	32.5	67	22	35
VDI 40	10	83	52	32.5	67	22	39
VDI 40	12	83	52	32.5	67	22	44
VDI 40	14	83	52	32.5	67	22	44
VDI 40	16	83	52	32.5	67	22	47
VDI 40	18	83	52	32.5	67	22	47
VDI 40	20	83	52	32.5	67	22	52

83 269 ...

£	
Y8	
284.77	206
272.10	208
272.10	210
272.10	212
272.10	214
262.96	216
262.96	218
262.96	220
294.08	306
281.57	308
281.57	310
281.57	312
271.82	314
270.59	316
281.57	318
270.59	320
328.39	406
315.90	408
315.90	410
315.90	412
315.90	414
305.07	416
305.07	418
305.07	420

Cylindrical tool holders for indexable insert drills

▲ for drilling tools with internal coolant supply



E1



AD

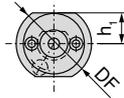
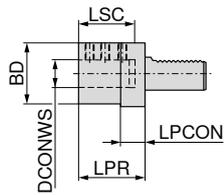
82 274 ...

Adapter	DCONWS _{H6} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£ Y8	
VDI 20	16	50	36	23.0	67	18	54	151.32	200
VDI 20	20	50	40	23.0	67	18	54	151.32	201
VDI 20	25	50	45	23.0	71	18	59	151.32	202
VDI 25	16	58	36	25.0	67	18	54	222.69	250
VDI 25	20	58	40	25.0	67	18	54	222.69	251
VDI 25	25	58	45	25.0	71	18	59	222.69	252
VDI 30	16	68	36	28.0	67	22	54	140.19	300
VDI 30	20	68	40	28.0	67	22	54	140.19	301
VDI 30	25	68	45	28.0	71	22	59	140.19	302
VDI 30	32	68	52	28.0	75	22	63	140.19	303
VDI 30	40	68	60	28.0	87	22	73	203.53	304
VDI 40	16	83	36	32.5	67	22	54	158.62	400
VDI 40	20	83	40	32.5	67	22	54	158.62	401
VDI 40	25	83	45	32.5	75	22	59	158.62	402
VDI 40	32	83	52	32.5	75	22	63	158.62	403
VDI 40	40	83	60	32.5	90	22	73	158.62	404
VDI 50	20	98	40	35.0	80	30	54	224.06	500
VDI 50	25	98	45	35.0	80	30	59	224.06	501
VDI 50	32	98	52	35.0	80	30	63	224.06	502
VDI 50	40	98	60	35.0	90	30	73	224.06	503
VDI 50	50	98	70	35.0	100	30	83	202.81	504

You can find spare parts on → **Page 254**

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

82 268 ...

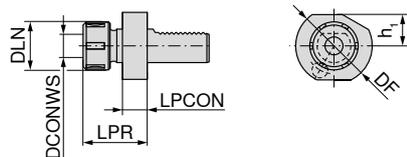
Adapter	DCONWS _{H7} mm	DF mm	BD mm	h ₁ mm	LPR mm	LPCON mm	LSC mm	£ Y8	
VDI 16	6	40	32	18.0	44	13	34	229.38	160 ¹⁾
VDI 16	8	40	32	18.0	44	13	34	175.05	161 ¹⁾
VDI 16	10	40	32	18.0	44	13	34	175.05	162 ¹⁾
VDI 16	12	40	40	18.0	44	13	34	175.05	163 ¹⁾
VDI 16	16	40	40	18.0	44	13	34	175.05	164 ¹⁾
VDI 20	8	50	40	23.0	50	18	41	162.75	200
VDI 20	10	50	40	23.0	50	18	41	162.75	201
VDI 20	12	50	40	23.0	50	18	41	162.75	202
VDI 20	16	50	40	23.0	50	18	41	162.75	203
VDI 20	20	50	50	23.0	50	18	41	162.75	204
VDI 20	25	50	50	23.0	60	18	51	162.75	205
VDI 25	8	58	40	25.0	50	18	41	265.39	250
VDI 25	10	58	40	25.0	50	18	41	265.39	251
VDI 25	12	58	40	25.0	50	18	41	265.39	252
VDI 25	16	58	40	25.0	50	18	41	265.39	253
VDI 25	20	58	58	25.0	50	18	41	265.39	254
VDI 25	25	58	58	25.0	60	18	51	265.39	255
VDI 30	8	68	55	28.0	60	22	51	158.62	300
VDI 30	10	68	55	28.0	60	22	51	158.62	301
VDI 30	12	68	55	28.0	60	22	51	158.62	302
VDI 30	16	68	55	28.0	60	22	51	158.62	303
VDI 30	20	68	55	28.0	60	22	51	158.62	304
VDI 30	25	68	55	28.0	60	22	51	158.62	305
VDI 30	32	68	68	28.0	75	22	61	158.62	306
VDI 40	8	83	55	32.5	75	22	61	161.70	400
VDI 40	10	83	55	32.5	75	22	61	161.70	401
VDI 40	12	83	55	32.5	75	22	61	161.70	402
VDI 40	16	83	55	32.5	75	22	61	161.70	403
VDI 40	20	83	55	32.5	75	22	61	161.70	404
VDI 40	25	83	55	32.5	75	22	61	161.70	405
VDI 40	32	83	83	32.5	75	22	61	161.70	406
VDI 40	40	83	83	32.5	90	22	76	161.70	407
VDI 50	12	98	68	35.0	90	30	76	232.92	500
VDI 50	16	98	68	35.0	90	30	76	232.92	501
VDI 50	20	98	68	35.0	90	30	76	232.92	502
VDI 50	25	98	68	35.0	90	30	76	223.31	503
VDI 50	32	98	68	35.0	90	30	76	223.31	504
VDI 50	40	98	98	35.0	90	30	76	223.31	505
VDI 50	50	98	98	35.0	100	30	86	223.31	506

1) Coolant supply through pipe joint

You can find spare parts on → **Page 254**

OZ-Collet chuck

E3

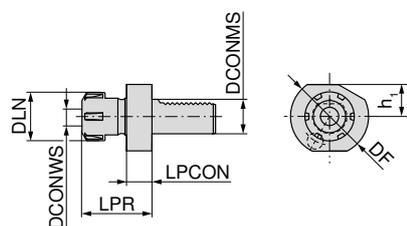


Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	82 285 ...	
								£ Y8	
VDI 20	2-16	50	43	23.0	57	18	415E / 421E (OZ)	293.25	202
VDI 30	2-16	68	43	28.0	57	22	415E / 421E (OZ)	300.98	301
VDI 30	2-25	68	60	28.0	75	22	459E / 462E (OZ)	300.98	302
VDI 40	2-25	83	60	32.5	75	22	459E / 462E (OZ)	314.83	402
VDI 40	4-32	83	72	32.5	90	22	460E / 467E (OZ)	328.65	403
VDI 50	2-25	98	60	35.0	75	30	459E / 462E (OZ)	476.95	500
VDI 50	4-32	98	72	35.0	90	30	460E / 467E (OZ)	470.61	501

OZ collets can be found on → **Page 268.**

ER Collet chucks

E4



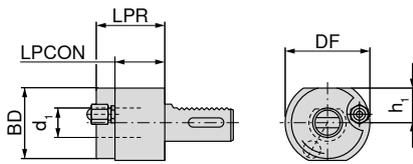
Adapter	DCONWS mm	DF mm	DLN mm	h ₁ mm	LPR mm	LPCON mm	for collet	82 286 ...	
								£ Y8	
VDI 16	1-10	40	28	18.0	45.5	14	426E (ER16)	267.40	160
VDI 16	1-13	40	34	18.0	44.0	14	428E (ER20)	264.61	161
VDI 20	1-16	50	42	23.0	57.0	18	430E (ER25)	217.82	202
VDI 20	2-20	50	50	23.0	62.0	18	470E (ER32)	227.73	203
VDI 25	1-16	58	42	25.0	57.0	18	430E (ER25)	359.96	250
VDI 25	2-20	58	50	25.0	62.0	18	470E (ER32)	364.40	251
VDI 30	1-16	68	42	28.0	57.0	22	430E (ER25)	215.01	300
VDI 30	2-20	68	50	28.0	75.0	22	470E (ER32)	215.21	301
VDI 40	1-16	83	42	32.5	63.0	22	430E (ER25)	233.13	400
VDI 40	2-20	83	50	32.5	75.0	22	470E (ER32)	233.13	401
VDI 40	3-26	83	63	32.5	75.0	22	472E (ER40)	228.95	402
VDI 50	2-20	94	50	35.0	75.0	30	470E (ER32)	339.54	500
VDI 50	3-26	94	63	35.0	63.0	30	472E (ER40)	339.54	501

ER collets can be found on → **Pages 256–266.**

Morse taper adapters

▲ For taper shanks with ejector tang

F1

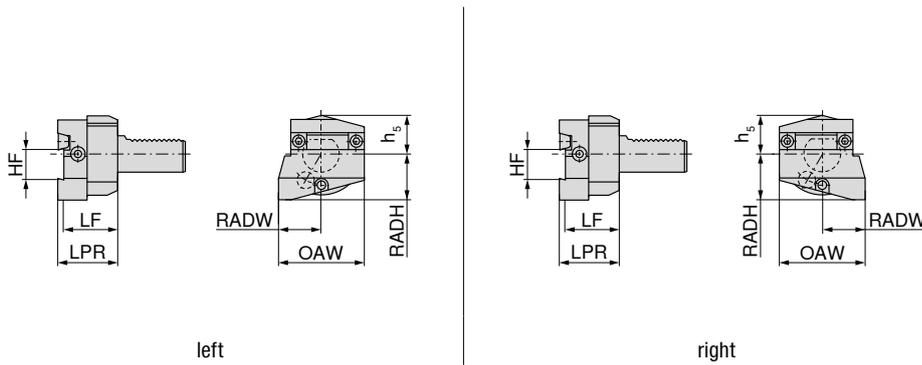


82 277 ...

Adapter	d_1	BD mm	DF mm	h_1 mm	LPR mm	LPCON mm	£	
VDI 20	MK1		50	23.0	23		Y8	200
VDI 20	MK2		50	23.0	87		161.42	201
VDI 30	MK1		68	28.0	27		158.47	300
VDI 30	MK2		68	28.0	27		159.56	301
VDI 30	MK3	58	68	28.0	55	40	159.56	302
VDI 40	MK2	55	83	32.5	36	22	162.45	401
VDI 40	MK3	58	83	32.5	36	22	162.45	402
VDI 40	MK4	68	83	32.5	80	22	162.45	403
VDI 50	MK2	55	98	35.0	36	30	246.35	500
VDI 50	MK3	58	98	35.0	36	30	246.35	501
VDI 50	MK4	68	98	35.0	50	30	246.35	502

Parting blade holders, height adjustable

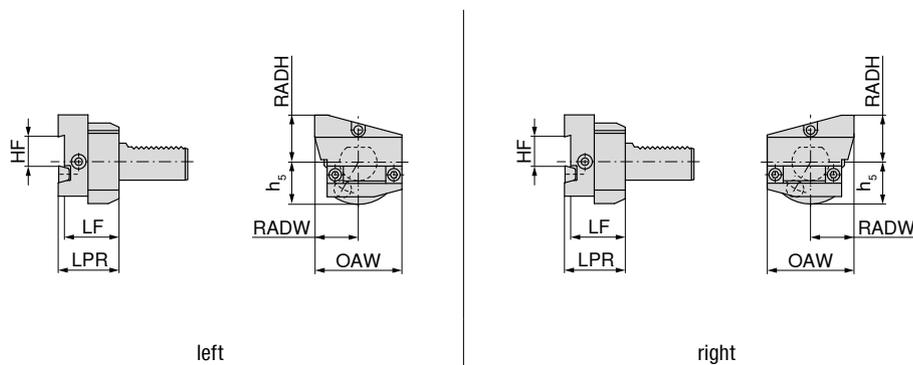
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



Adapter	OAW mm	RADW mm	HF mm	h ₅ mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 237 ...	82 236 ...	£	£
VDI 25	53	28.0	26	25.0	30	35	40	Y8		Y8	
										677.41	250
VDI 30	70	35.0	26	28.0	38	44	49	569.84	300	569.84	300
VDI 30	70	35.0	32	30.5	38	44	49	722.55	302	722.55	302
VDI 40	73	42.5	26	32.0	48	44	49	748.57	040	748.57	040
VDI 40	85	42.5	32	32.0	48	44	49	673.41	400	587.16	400

Parting blade holders, height adjustable, overhead

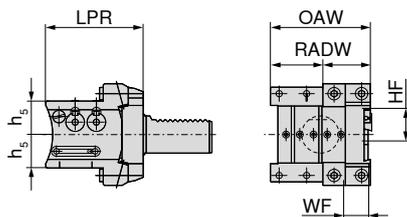
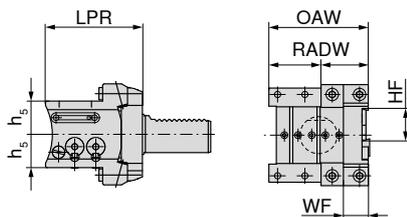
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



Adapter	OAW mm	RADW mm	HF mm	h ₅ mm	RADH mm	LF mm	LPR mm	Left-hand		Right-hand	
								82 243 ...	82 242 ...	£	£
VDI 30	70	35.0	26	34.0	38	44	49	856.58	300	856.58	300
VDI 30	70	35.0	32	30.5	38	44	49	722.55	302	810.18	302
VDI 40	73	42.5	26	32.0	48	44	49	748.57	040	748.57	040
VDI 40	85	42.5	32	32.0	48	44	49	586.33	400	586.33	400

Parting blade holders, height adjustable

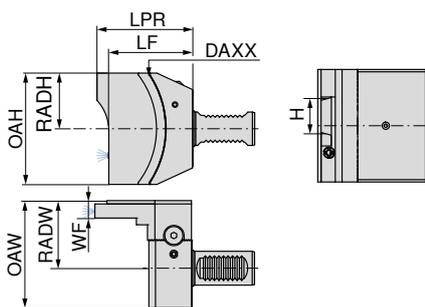
- ▲ Vertical adjustment ± 1 mm
- ▲ Suitable for internal cooling through the parting blade (DC)
- ▲ axially parallel, adjustable external coolant supply



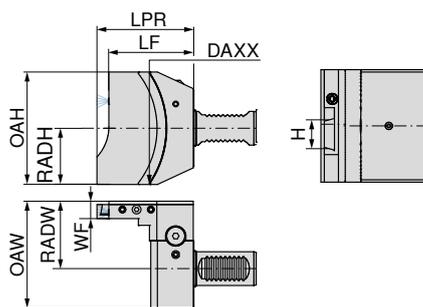
Adapter	OAW mm	RADW mm	HF mm	h ₅ mm	WF mm	LPR mm	Universal-overhead		Universal	
							£		£	
VDI 30	80	40	26	27	20	78	82 244 ...		82 238 ...	
							Y8		Y8	
							1,150.88	300	1,150.88	300
VDI 40	80	40	26	27	20	88				
VDI 40	80	40	32	32	20	88				
							1,276.98	400	1,276.98	400
							1,276.98	402	1,276.98	402

Parting blade holder

- ▲ doubles = reciprocally interlocked VDI shank



double – overhead



double



Adapter	LPR mm	LF mm	OAH mm	RADH mm	OAW mm	RADW mm	WF mm	DAXX mm	H mm	double - overhead		double	
										£		£	
VDI 20	85.5	75.0	94	47	85	60	15.5	176	26	83 227 ...		83 226 ...	
										Y7		Y7	
										1,240.61	02629 ¹⁾	1,240.61	02629 ¹⁾
VDI 25	85.2	74.7	73	39	72	43	15.5	176	32			1,240.61	03228 ¹⁾
VDI 25	85.2	74.7	73	39	72	43	15.5	176	26			1,240.61	02628 ¹⁾
										1,240.61	03227 ¹⁾	1,240.61	03227 ¹⁾
VDI 30	85.5	75.0	100	50	95	60	15.5	176	26			1,240.61	02627 ¹⁾
										1,240.61	02627 ¹⁾	1,240.61	02627 ¹⁾
VDI 40	88.5	78.0	100	50	95	60	15.5	176	32			1,337.82	03226 ¹⁾
VDI 40	88.5	78.0	100	50	95	60	15.5	176	26			1,337.82	02626 ¹⁾

1) Not ex-stock

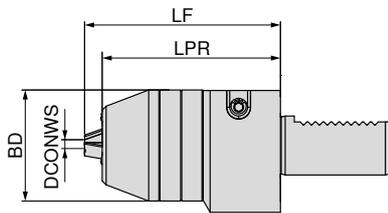
With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

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

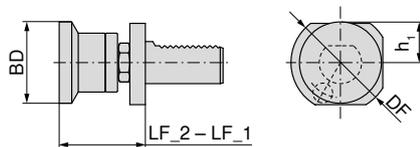


Adapter	DCONWS mm	BD mm	LPR mm	LF mm	84 297 ...	
					£	
VDI 20	0,5 - 10	48.5	40	50	561.90	210 ¹⁾
VDI 30	0,5 - 13	56.5	90	99	566.19	313
VDI 30	2,5 - 16	56.5	90	99	600.82	316
VDI 40	0,5 - 13	56.5	90	99	566.19	413
VDI 40	2,5 - 16	56.5	90	99	600.82	416

1) Without Through Coolant

Material stops

- ▲ Revolving, length adjustable

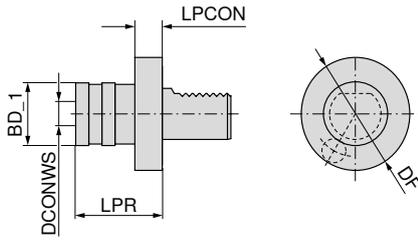


Adapter	BD mm	DF mm	h ₁ mm	LF_2 mm	LF_1 mm	83 292 ...	
						£	
VDI 20	26	50	23.0	50	70	563.23	200 ¹⁾
VDI 20	32	50	23.0	50	70	600.77	201 ¹⁾
VDI 20	42	50	23.0	50	70	587.69	202 ¹⁾
VDI 30	32	68	28.0	62	95	404.60	300
VDI 30	42	68	28.0	62	95	404.60	301
VDI 30	58	68	28.0	62	95	412.45	302
VDI 40	32	83	32.5	62	95	445.38	400
VDI 40	42	83	32.5	62	95	445.38	401
VDI 40	58	83	32.5	62	95	445.38	402

1) without VDI location

Quick-change tap chucks GSF

▲ LZD = Length compensation under tension and compression



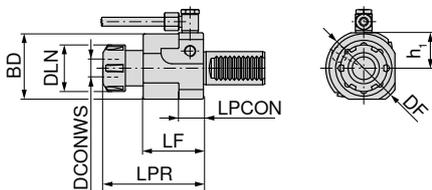
Adapter	cutting range	SZID	DCONWS mm	BD_1 mm	LPR mm	LZD± mm	83 307 ...	
							£	Y8
VDI 20	M3 - M12	01	19	38	55	9	624.31	112
VDI 25	M3 - M12	01	19	38	55	9	624.31	212
VDI 30	M3 - M12	01	19	38	55	9	478.63	312
VDI 40	M3 - M12	01	19	38	55	9	536.30	412
VDI 20	M6 - M20	02	31	55	77	15	681.95	120
VDI 25	M6 - M20	02	31	55	77	15	681.95	220
VDI 30	M6 - M20	02	31	55	77	15	632.54	320
VDI 40	M6 - M20	02	31	55	77	15	660.12	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 ...	
											£	Y8
VDI 20	0,5 - 10	28	45	50	23.0	65	40	18	6,0 / 1,5	4031E (ER16)	803.85	213
VDI 30	1 - 16	42	62	68	28.0	90	54	42	8,0 / 2,0	4282E (ER25)	807.64	316
VDI 40	1 - 16	42	62	83	32.5	85	49	42	8,0 / 2,0	4282E (ER25)	807.64	416

ER collets can be found on → **Pages 256–266.**

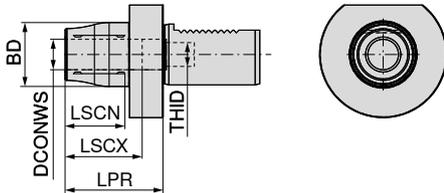
Hydraulic chuck

- ▲ 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

83 402 ...

£

Y8

782.27 02027

817.05 02026

Adapter	DCONWS mm	BD mm	LPR mm	LSCX mm	LSCN mm	THID
VDI 30	20	42	64	51	41	M16x1
VDI 40	20	42	64	51	41	M16x1



Stop screw IK

83 950 ...

£

Y7

M16x1x31 - SW5 25.84 48700

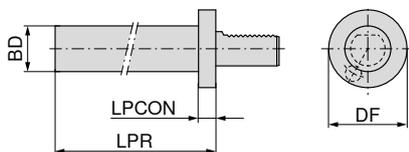
Spare parts

DCONWS

20

Test arbors

- ▲ Radial run-out ≤ 0.02 mm



83 324 ...

£

Y8

358.33 016

389.76 020

420.97 030

444.22 040

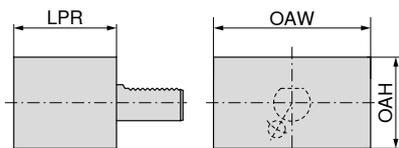
485.29 050

Adapter	BD _{h5} mm	DF mm	LPR mm	LPCON mm
VDI 16	30	40	120	15
VDI 20	40	50	150	15
VDI 30	40	68	200	15
VDI 40	40	83	200	15
VDI 50	40	98	200	15

Tool holders, rough machined, rectangular

▲ Manufactured from C45

A1



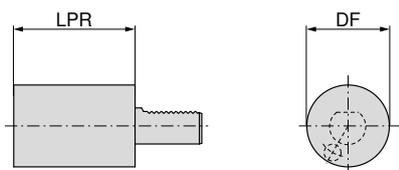
82 327 ...

Adapter	LPR mm	OAW mm	OAH mm	£ Y8	
VDI 16	44	78	44	168.70	160
VDI 20	65	100	60	292.17	200
VDI 25	75	100	60	229.56	250
VDI 30	85	130	76	293.25	300
VDI 40	100	151	96	318.08	400
VDI 50	125	160	120	443.43	500

Tool holders, rough machined, round

▲ Manufactured from C45

A2



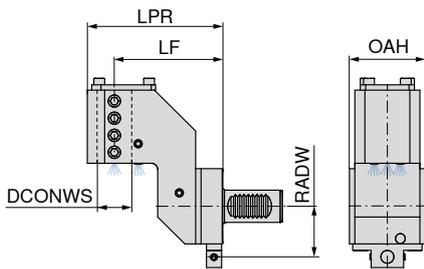
82 330 ...

Adapter	LPR mm	DF mm	£ Y8	
VDI 16	60	40	121.57	160
VDI 20	70	50	106.05	200
VDI 25	80	58	166.43	250
VDI 25	200	58	191.27	253
VDI 30	100	68	124.26	300
VDI 30	240	68	150.90	303
VDI 40	120	83	145.61	400
VDI 40	320	83	219.85	403
VDI 50	135	98	204.46	500
VDI 50	400	98	330.09	502

Boring bar holder, with offset, with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ external coolant supply available

NEW



83 229 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm
VDI 25	25	99.5	75	30	40
VDI 30	32	125.0	100	70	47
VDI 40	40	133.0	100	85	56

£	
Y7	
1,112.92	02528 ¹⁾
1,301.36	03227 ¹⁾
1,526.23	04026 ¹⁾

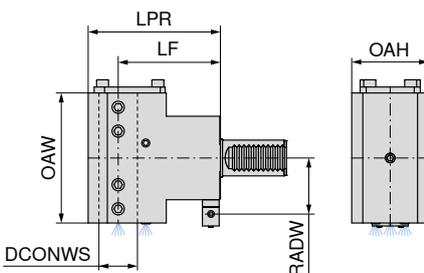
1) Not ex-stock

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



83 230 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	OAW mm
VDI 25	25	99.5	75	54	40	104
VDI 30	32	110.0	85	62	47	109
VDI 30	32	125.0	100	62	47	118
VDI 40	40	152.0	120	76	56	116

£	
Y7	
1,253.00	02528 ¹⁾
1,331.75	03227 ¹⁾
1,331.75	13227 ¹⁾
1,444.17	04026 ¹⁾

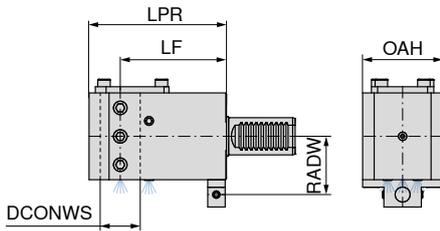
1) Not ex-stock

With star turrets, there is the danger of a collision for failure to comply to the machine-default nominal maximum height (LPR).

Boring bar holder with through coolant

- ▲ doubles = reciprocally interlocked VDI shank
- ▲ external coolant supply available

NEW



83 228 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	£	
VDI 25	25	100	75	60	40	739.50	02528 ¹⁾
VDI 30	32	110	85	64	47	866.54	03227 ¹⁾
VDI 30	32	125	100	64	47	900.03	13227 ¹⁾
VDI 40	40	130	100	76	56	1,088.48	04026 ¹⁾
VDI 40	40	152	120	76	56	1,125.06	14026 ¹⁾
VDI 50	50	155	120	98	64	1,298.24	05025 ¹⁾

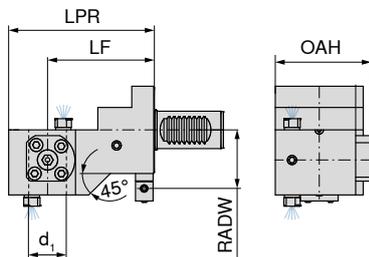
1) Not ex-stock

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



83 225 ...

Adapter	DCONWS mm	LPR mm	LF mm	OAH mm	RADW mm	£	
VDI 25	25	104	75	38.0	40	933.50	02528 ¹⁾
VDI 25	20	104	75	67.5	40	933.50	02028 ¹⁾
VDI 30	30	116	85	76.5	47	1,073.37	03027 ¹⁾
VDI 30	30	131	100	76.5	47	1,106.69	13027 ¹⁾
VDI 40	40	133	100	89.0	56	1,298.24	04026 ¹⁾
VDI 40	40	153	120	89.0	56	1,298.24	14026 ¹⁾

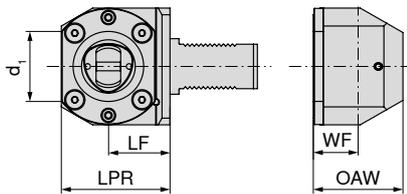
1) Not ex-stock

90° VDI to PSC adapter

Scope of supply:

including pull stud

NEW



90°

83 231 ...

Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm	£ Y7	
VDI 30	PSC 40	41	65	21	56	1,354.12	04027 ¹⁾
VDI 40	PSC 40	51	75	30	86	1,414.88	04026 ¹⁾
VDI 40	PSC 50	53	85	40	80	1,414.88	05026 ¹⁾
VDI 40	PSC 63	53	95	40	80	1,491.11	06326 ¹⁾
VDI 50	PSC 50	53	85	40	80	1,414.88	05025 ¹⁾
VDI 50	PSC 63	55	97	40	80	1,491.11	06325 ¹⁾

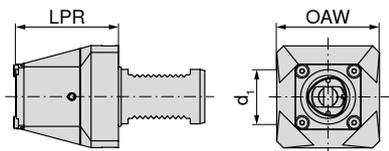
1) Not ex-stock

VDI to PSC adapter

Scope of supply:

including pull stud

NEW



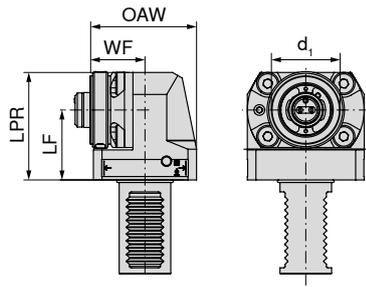
83 232 ...

Adapter	d ₁	LPR mm	OAW mm	£ Y7	
VDI 30	PSC 40	70	60	1,354.12	04027 ¹⁾
VDI 40	PSC 40	75	75	1,354.12	04026 ¹⁾
VDI 40	PSC 50	85	82	1,414.88	05026 ¹⁾
VDI 40	PSC 63	90	105	1,491.11	06326 ¹⁾
VDI 50	PSC 50	85	91	1,414.88	05025 ¹⁾
VDI 50	PSC 63	100	105	1,491.11	06325 ¹⁾

1) Not ex-stock

90° VDI to HSK-T adapter

NEW



90°

83 233 ...

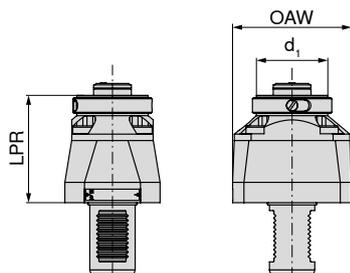
£
Y7

Adapter	d ₁	LF mm	LPR mm	WF mm	OAW mm		
VDI 30	HSK-T 40	41	65	25	60	1,354.12	04027 ¹⁾
VDI 40	HSK-T 40	51	75	34	90	1,354.12	04026 ¹⁾
VDI 40	HSK-T 63	53	90	45	85	1,491.11	06326 ¹⁾
VDI 50	HSK-T 63	55	97	45	85	1,491.11	06325 ¹⁾

1) Not ex-stock

VDI to HSK-T adapter

NEW



83 234 ...

£
Y7

Adapter	d ₁	LPR mm	OAW mm		
VDI 30	HSK-T 40	74	60	1,467.08	04027 ¹⁾
VDI 40	HSK-T 40	79	75	1,467.08	04026 ¹⁾
VDI 40	HSK-T 63	95	105	1,615.38	06326 ¹⁾
VDI 50	HSK-T 63	105	105	1,615.38	06325 ¹⁾

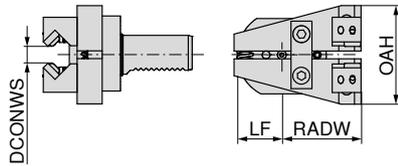
1) Not ex-stock

Bar pullers for disc turrets, radial

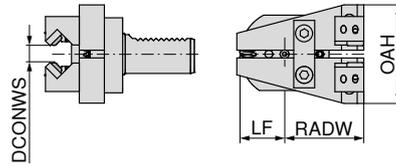
- ▲ Two adjustable, spring-mounted, replaceable grippers are fitted to the main body. Each of these is equipped with a carbide insert. The grippers are set to a slightly smaller diameter than the bar and then pressed onto the bar in an axial direction (x axis) by the tool turret.
- ▲ GA = Gripper set

Scope of supply:

Bar puller incl. GA 1 for VDI 16, and GA 3 from VDI 20



left



right



Adapter	DCONWS mm	LF mm	OAH mm	RADW mm	GA
VDI 16	2-22	28	74	35	1
VDI 20	2-42	34	85	61	3
VDI 30	2-42	34	105	61	3-4
VDI 40	2-65	34	125	61	3-4

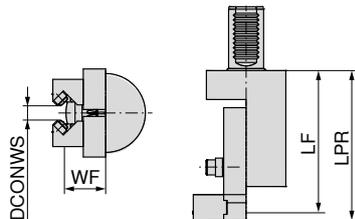
Left-hand		Right-hand	
80 309 ...		80 306 ...	
£		£	
Y7		Y7	
		1,736.82	01600
		2,052.71	02000
2,052.71	03000	2,052.71	03000
2,872.39	04000	2,872.39	04000

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

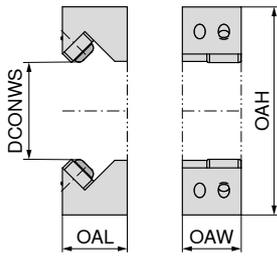


Adapter	DCONWS mm	LF mm	LPR mm	WF mm	GA
VDI 30	2-42	122.5	129	37.0	3-4
VDI 40	2-65	142.5	149	41.5	3-4

Left-hand	
80 310 ...	
£	
Y7	
2,254.96	03000
2,947.11	04000

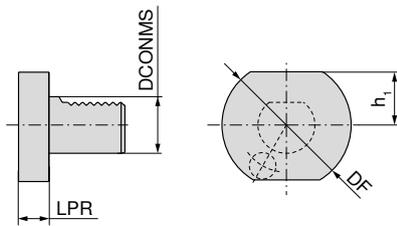
Gripper accessories

- ▲ For bar pullers 80 306 ... / 80 309 ... / 80 310 ...
- ▲ Price per pair

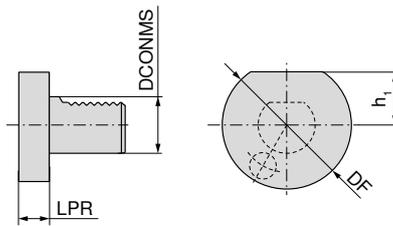


GA	DCONWS mm	OAL mm	OAW mm	OAH mm	80 312 ...	
					£ Y7	
1	2-22	24.5	13	58	375.70	12200
3	2-42	26.0	22	86	375.70	14200
4	42-65	29.5	22	102	502.71	16500

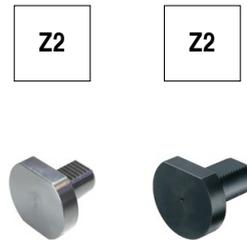
Protection plugs



Steel



Plastic



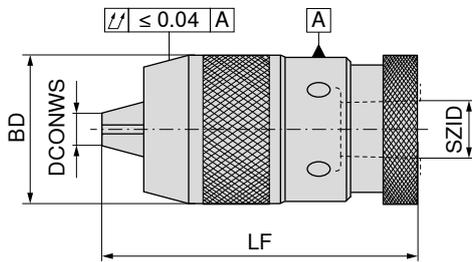
DCONMS _{h8} mm	DF mm	h ₁ mm	LPR mm	Steel		Plastic	
				82 317 ...		83 318 ...	
16	40	18.0	16	£ Y8 36.81	160	£ Y8 30.77	160
20	50	23.0	16	73.09	200	12.47	200
25	58	25.0	16	55.65	250		
30	68	28.0	16	39.05	300	12.44	300
40	83	32.5	20	45.92	400	14.33	400
50	98	35.0	20	89.93	500	20.38	500

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 ...	
				£	
				Y8	
B12	0 - 8	73	35	154.05	012
B12	0 - 10	92	43	182.16	112
B16	1 - 13	106	50	218.33	016
B16	3 - 16	110	57	178.26	116
B18	3 - 16	110	57	232.48	018



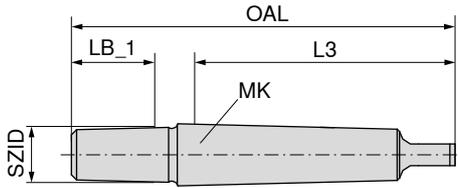
Spare parts
DCONWS

DCONWS	83 302 ...	
	£	
	Y8	
0 - 10	17.40	010
0 - 8	16.33	008
1 - 13	14.36	013
3 - 16	17.06	016

Suitable adapters can be found on **page 50+96**.

Drill chuck adapter DIN 238

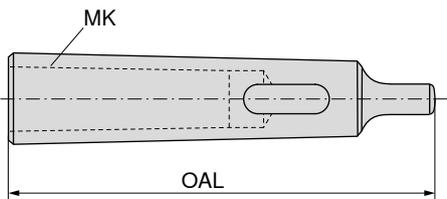
▲ Through-hardened and ground



Adapter	SZID	I ₃ mm	LB_1 mm	OAL mm	83 642 ...	
					£	
					Y8	
MK1	B12	62.0	18.5	89.0	14.24	120
MK1	B16	62.0	24.0	97.0	14.24	160
MK1	B18	62.0	32.0	106.0	14.24	180
MK2	B12	75.0	18.5	106.5	14.24	121
MK2	B16	75.0	24.0	110.5	14.24	161
MK2	B18	75.0	32.0	117.5	14.54	181
MK3	B12	94.0	18.5	125.0	14.24	122
MK3	B16	94.0	24.0	134.0	14.24	162
MK3	B18	94.0	32.0	141.0	19.33	182
MK4	B16	117.5	24.0	159.0	32.70	163
MK4	B18	117.5	32.0	168.0	32.70	183
MK5	B16	149.5	24.0	196.0	123.33	164
MK5	B18	149.5	32.0	204.5	123.33	184

Reduction sleeve DIN 2185

▲ Through-hardened, ground internally and externally



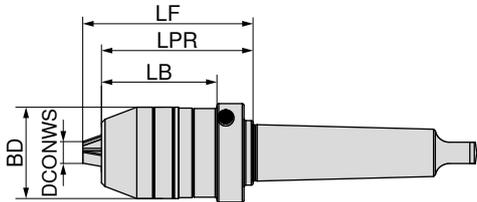
Adapter	d ₁	OAL mm	83 644 ...	
			£	
			Y8	
MK1	MK0	80	24.15	010
MK2	MK1	92	25.90	020
MK3	MK1	99	27.79	130
MK3	MK2	112	29.68	030
MK4	MK1	124	36.87	240
MK4	MK2	124	36.87	140
MK4	MK3	140	53.80	040
MK5	MK2	156	70.30	250
MK5	MK3	156	74.07	150
MK5	MK4	171	77.48	050

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
MK3	0,5 - 13	48.5	64	84	93.0
MK3	2,5 - 16	51.0	64	84	94.5
MK4	2,5 - 16	51.0	64	84	94.5

84 314 ...

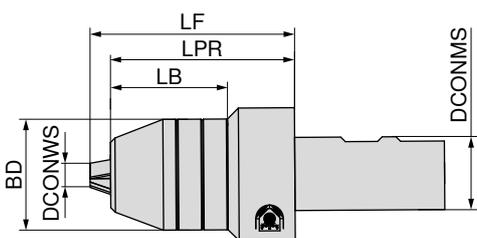
£	
Y8	
460.79	313
475.43	316
509.29	416

Short drill chuck – NC 2010

- ▲ bidirectional
- ▲ Torque moment = 12 Nm
- ▲ with cylindrical shank

Scope of supply:

Holder with clamping key



DCONMS mm	DCONWS mm	BD mm	LB mm	LPR mm	LF mm
25	0,5 - 13	48.5	50.9	80	89.0
32	0,5 - 13	48.5	50.9	80	89.0
32	2,5 - 16	51.0	50.9	80	90.5

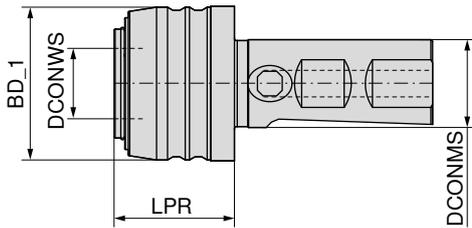
G 6,3 n_{max} 10000

84 311 ...

£	
Y8	
509.12	213
509.12	313
642.61	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



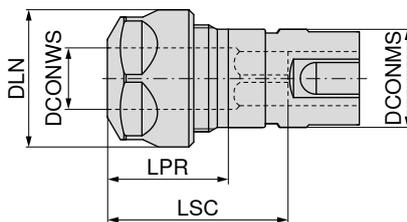
DCONWS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONMS mm	LZD± mm	83 641 ...	
							£	
20	M3 - M12	1	35	43.5	25	1,0 / 0,2	236.58	012
32	M6 - M20	2	56	60.0	25	1,0 / 0,2	269.66	020

Insert for synchro quick change tapping chuck with minimum length compensation

- ▲ SZID = for insert size

Scope of supply:

Includes lock nut



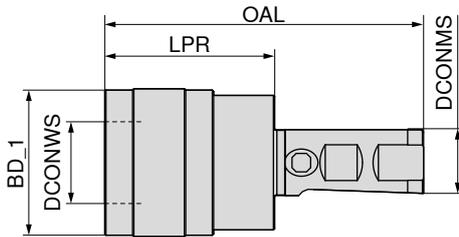
SZID	DCONWS mm	cutting range	LPR mm	DLN mm	LSC mm	for collet	DCONMS mm	83 608 ...	
								£	
1	2 - 10	M3 - M12	24	28	42	426E (ER16)	20	195.17	012
2	2 - 16	M6 - M20	28	42	59	430E (ER25)	32	227.34	020



Spare parts for Article no.	62 950 ...		83 950 ...		62 950 ...		83 357 ...				
	£		£		£		£				
83 608 012	W7	26.65	044	M22x1,5	68.61	054	M22x1,5	21.20	054	23.31	116
83 608 020				M32x1,5	79.92	055	M32x1,5	22.08	055	23.31	125

Quick change tap chuck with length compensation

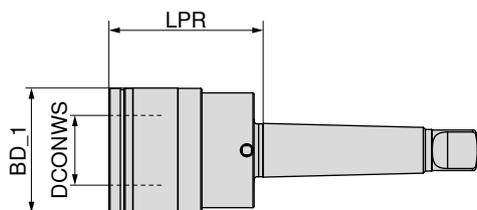
- ▲ With cylindrical shank
- ▲ With length compensation under tension and compression (LZD)
- ▲ Quick change adapters



DCONMS mm	cutting range	SZID	LPR mm	BD_1 mm	DCONWS mm	OAL mm	LZD± mm	83 648 ...	
								£	Y8
20	M3 - M12	01	41	38	19	91	9	350.37	112
	M6 - M20	02	63	55	31	138	15	480.15	120
25	M3 - M12	01	41	38	19	97	9	350.37	212
	M6 - M20	02	63	55	31	119	15	432.72	220
32	M3 - M12	01	41	38	19	102	9	357.68	312
	M6 - M20	02	63	55	31	124	15	447.69	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 ...	
							£	Y8
MK 2	M3 - M12	01	46	38	19	9	305.24	212
MK 3	M3 - M12	01	46	38	19	9	300.17	312
MK 3	M6 - M20	02	69	55	31	15	375.39	320
MK 4	M6 - M20	02	70	55	31	15	375.39	420

Accessories

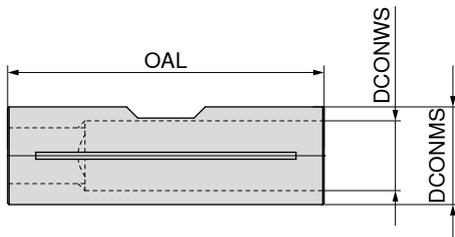


Collet

→ 277, 279-281

Clamping sleeve for taps in Weldon chucks

- ▲ For machines with rigid tapping
- ▲ For safe clamping of taps

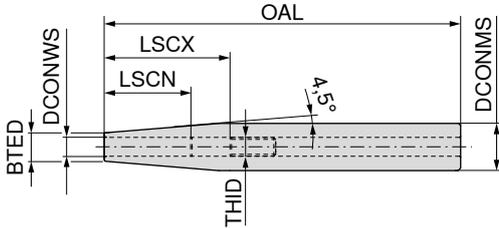


DCONWS _{H7}	DCONMS _{f6}	OAL	80 699 ...	
mm	mm	mm	£	
3.5	6	26	Y7	
4.0	8	32	74.76	03500
4.5	8	26	72.45	04000
6.0	10	30	72.45	04500
7.0	10	31	70.02	06000
8.0	12	38	70.02	07000
9.0	12	38	70.02	08000
10.0	14	42	70.02	09000
11.0	14	42	70.02	10000
12.0	16	44	70.02	11000
14.0	18	45	70.02	12000
16.0	20	46	70.02	14000
			70.02	16000

Shrink fit extension

- ▲ For solid carbide and HSS shanks with h6 tolerance or better
- ▲ DRVS = Key size of the adjustment screw

TG



								84 310 ...	
DCONMS _{h6}	DCONWS	BTED	OAL	LSCX	LSCN	THID	DRVS	£	
mm	mm	mm	mm	mm	mm	mm	mm	Y8	
12	3	8	150					211.11	003
12	4	8	150					211.11	004
12	5	10	150					211.11	005
12	6	10	150	36	26	M5	2.5	211.11	006
16	3	10	150					211.11	103
16	4	10	150					211.11	104
16	5	10	150					211.11	105
16	6	10	150	36	26	M5	2.5	211.11	106
16	8	12	150	36	26	M6	3.0	211.11	108
20	3	10	150					211.11	203
20	4	10	150					211.11	204
20	5	10	150					211.11	205
20	6	10	150	36	26	M5	2.5	211.11	206
20	8	12	150	36	26	M6	3.0	211.11	208
20	10	14	150	42	32	M8x1	3.0	211.11	210
20	12	16	150	47	37	M10x1	5.0	211.11	212
25	3	10	150					211.11	303
25	4	10	150					211.11	304
25	5	15	150					211.11	305
25	6	20	150	36	26	M5	2.5	211.11	306
25	8	20	150	36	26	M6	3.0	211.11	308
25	10	20	150	42	32	M8x1	3.0	211.11	310
25	12	20	150	47	37	M10x1	5.0	211.11	312
25	14	20	150	47	37	M10x1	5.0	211.11	314
25	16	22	150	50	40	M10x1	5.0	211.11	316
32	6	20	150	36	26	M5	2.5	211.11	406
32	8	20	150	36	26	M6	3.0	211.11	408
32	10	24	150	42	32	M8x1	3.0	211.11	410
32	12	24	150	47	37	M10x1	5.0	211.11	412
32	14	27	150	47	37	M10x1	5.0	211.11	414
32	16	27	150	50	40	M10x1	5.0	211.11	416
32	18	27	150	50	40	M10x1	5.0	211.11	418
32	20	27	150	52	42	M10x1	5.0	211.11	420

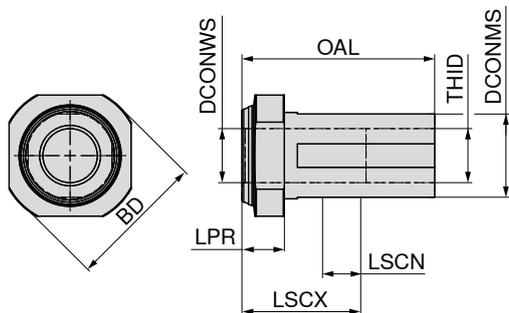
Observe the minimum clamping depth on → Page 300.

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



DCONMS mm	DCONWS mm	BD mm	LPR mm	OAL mm	LSCX mm	LSCN mm	THID
32	16	41	19.5	78.5	51	41	M22x1
32	20	41	19.5	78.5	51	41	M22x1
40	16	46	19.5	88.5	51	41	M22x1
40	20	46	19.5	88.5	51	41	M22x1
40	25	46	19.5	88.5	57	47	M27x1

83 402 ...

£	Y8
555.66	31699
555.66	32099

573.05	41699
573.05	42099
573.05	42599

Spare parts
DCONWS

16 - 20
25



Stop screw IK

83 950 ...

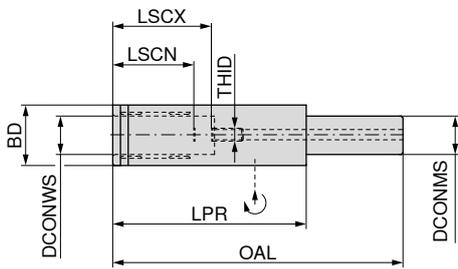
£	Y7
40.59	48500
64.05	48600

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

84 313 ...

DCONMS	DCONWS	BD	LPR	OAL	LSCX	LSCN	THID	
mm	mm	mm	mm	mm	mm	mm		
20	12	25.0	100	150	46	36	M6	£ 737.80 112
20	20	31.5	100	150	51	41	M10x1	£ 737.80 120
32	20	31.5	90	150	51	41	M10x1	£ 737.80 132
32	20	31.5	90	200	51	41	M10x1	£ 762.75 232

 Observe the minimum clamping depth on → **Page 300.**



Stop screw IK

83 950 ...

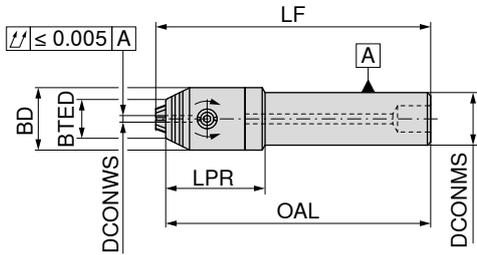
Spare parts for Article no.		£	
		Y7	
84 313 112	M6x12,5 - SW3	19.83	419
84 313 120	M10x1x13,5 - SW5	19.83	421
84 313 132	M10x1x13,5 - SW5	19.83	421
84 313 232	M10x1x13,5 - SW5	19.83	421

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

84 315 ...

DCONMS mm	DCONWS mm	LPR mm	OAL mm	LF mm	BD mm	BTED mm	TQX Nm
16	0,2 - 3,4	30	80	83	19	12	2
16	0,2 - 3,4	30	100	103	19	12	2
16	0,2 - 3,4	30	160	163	19	12	2
20	0,2 - 3,4	28	80	83	19	12	2
20	0,2 - 3,4	28	100	103	19	12	2
20	0,2 - 3,4	28	160	163	19	12	2

£	
Y7	
908.05	161
955.97	162
1,046.79	163
908.05	201
955.97	202
1,046.79	203

Spare parts for Article no.

Article no.	£		Torque	£	
84 315 161	9.42	152	1,8 Nm	122.33	018
84 315 162	9.42	152	1,8 Nm	122.33	018
84 315 163	9.42	152	1,8 Nm	122.33	018
84 315 201	9.42	152	1,8 Nm	122.33	018
84 315 202	9.42	152	1,8 Nm	122.33	018
84 315 203	9.42	152	1,8 Nm	122.33	018



80 950 ...



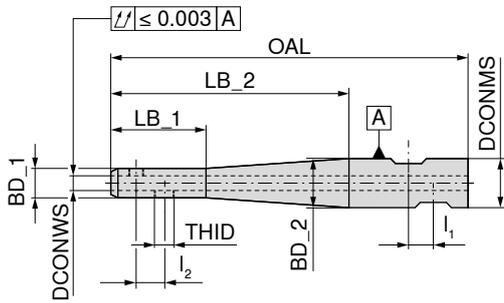
80 021 ...

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



80 642 ...

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 ...	
											£	Y7
6	12	40	40	85	12	12	10	10	M6 x 0,5	7	220.84	00600
6	12	40	100	150	20	20	10	10	M6 x 0,5	7	269.41	10600
8	15	40	40	88	16	15	10	10	M8 x 0,75	8	218.63	00800
8	15	40	100	150	20	20	10	10	M8 x 0,75	8	262.78	10800
10	18	40	40	90	20	18	10	10	M10 x 1	12	218.63	01000
10	18	40	100	150	20	20	10	10	M10 x 1	12	262.78	11000
12	21	40	40	90	20	21	10	10	M12 x 1	15	218.63	01200
12	21	40	100	150	20	21	10	10	M12 x 1	15	262.78	11200
14	23	40	40	90	20	23	10	10	M12 x 1	15	223.04	01400
14	23	40	100	150	20	23	10	10	M12 x 1	15	269.41	11400
16	26	40	50	106	25	26	10	12	M14 x 1	18	227.45	01600 ¹⁾
16	26	40	100	156	25	26	10	12	M14 x 1	18	284.89	11600 ¹⁾
18	28	40	50	106	25	28	10	12	M14 x 1	18	238.49	01800 ¹⁾
18	28	40	100	156	25	28	10	12	M14 x 1	18	291.49	11800 ¹⁾
20	31	40	50	110	32	31	10	14	M16 x 1	20	236.30	02000 ¹⁾
20	31	40	100	160	32	31	10	14	M16 x 1	20	287.09	12000 ¹⁾

1) only pre-balanced design



80 950 ...

Spare parts

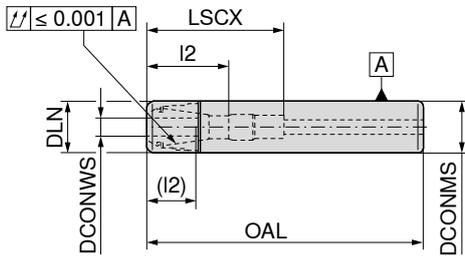
DCONWS		£	Y7
6	M6X0,5X3	15.56	21700
8	M8x0,75x4	15.56	21800
10	M10x1x5	15.56	21900
12 - 14	M12x1x5	16.01	30000
16 - 18	M14x1x6,5	16.44	31000
20	M16x1x6,5	16.91	32000

ER-Mini 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



							84 456 ...	
							£	
							Y8	
10	1-5	10	80	16		4004E (ER08)	216.23	00400
10	1-5	10	150	16		4004E (ER08)	341.36	005
10	1-5	10	200	16		4004E (ER08)	328.07	006
12	1-5	10	120	16		4004E (ER08)	232.12	11000
12	1-5	10	160	16		4004E (ER08)	241.68	11200
12	1-5	10	200	16		4004E (ER08)	295.72	11400
16	1-7	16	150	68	18-36 (12-26)	4008E (ER11)	251.25	007
16	1-7	16	200	68	18-36 (12-26)	4008E (ER11)	260.18	008
16	1-10	22	150	68	28-48 (16-35)	426E (ER16)	251.25	010
16	1-10	22	200	68	28-48 (16-35)	426E (ER16)	240.08	12000
20	1-10	22	150	68	28-48 (16-35)	426E (ER16)	222.50	102
20	1-10	22	200	68	28-48 (16-35)	426E (ER16)	260.18	104

i LSCX = Clamping depth without back stop screw for shanks
 l₂ = with back stop screw 1, dimension in brackets () = with back stop screw 2
 dimension OAL when using tightening nuts with seals 4 mm longer

Spare parts for collet	Mini lock nut IK		Mini lock nut		Stop screw 2		Stop screw 1	
	£		£		£		£	
4004E (ER08)			95.25	040				
4008E (ER11)			79.26	041	45.18	340	30.09	336
426E (ER16)	77.19	035	63.32	034	47.40	341	31.75	337

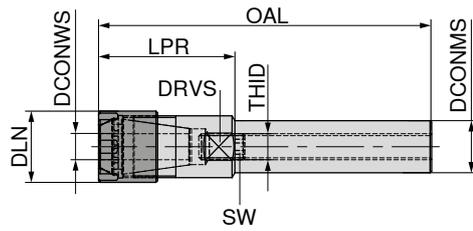
Accessories

ER collet	Device	Roll key	Roll key device
→ 256-263, 266	→ 274	→ 275	→ 275

i The transferable torques can be found on → **Page 300.**

ER collet chuck with mini clamping nut

▲ with cylindrical shank

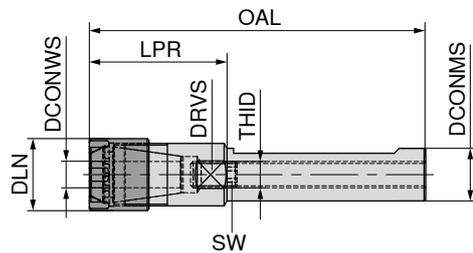


DCONMS _{h6} mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	83 453 ...	
									£	Y8
8	1 - 5	81	26	12		9		4004E (ER08)	129.74	081 ¹⁾
12	1 - 5	157	20	12	M5x0,8	10	2.5	4004E (ER08)	274.42	122
16	1 - 7	185	25	16	M7,5x0,5	14	3.0	4008E (ER11)	269.61	163
16	1 - 10	117	37	22	M11x1	17	5.0	426E (ER16)	274.42	164
16	1 - 10	199	39	22	M8x1,25	17	4.0	426E (ER16)	269.61	165
20	1 - 10	168	28	22	M11x1	17	5.0	426E (ER16)	193.37	204
25	1 - 13	168	28	28	M14x1	22	5.0	428E (ER20)	223.71	254
25	1 - 16	189	39	35	M18x1	27	5.0	430E (ER25)	281.82	256

1) without coolant supply (form A)

ER collet chuck with mini clamping nut

▲ with cylindrical shank and clamping flat



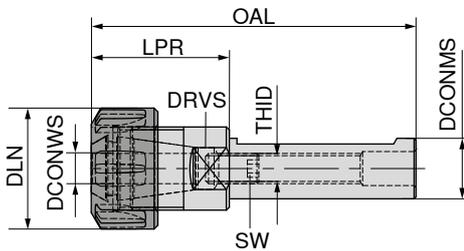
DCONMS _{h6} mm	DCONWS mm	OAL mm	LPR mm	DLN mm	THID	DRVS mm	SW mm	for collet	83 454 ...	
									£	Y8
20	1 - 10	168	28	22	M11x1	17	5	426E (ER16)	193.37	204
20	1 - 13	138	38	28	M11x1	22	5	428E (ER20)	139.03	206
20	1 - 16	146	46	35	M14x1	27	5	430E (ER25)	162.11	208
25	1 - 13	168	28	28	M14x1	22	5	428E (ER20)	223.71	254
25	1 - 16	189	39	35	M18x1	27	5	430E (ER25)	281.82	256

Spare parts for ER collet chuck with mini lock nut

Spare parts for collet	ER Mini clamping key		Mini lock nut		Stop screw IK	
	£		£		£	
4004E (ER08)	35.02	099	58.70	067	2.63	003
4008E (ER11)	35.02	100	52.73	065	3.07	004
426E (ER16)	37.35	101	35.07	066	3.49	006
426E (ER16)	37.35	101	35.07	066	3.36	005
428E (ER20)	36.77	102	58.40	068	3.66	007
430E (ER25)	36.77	103	58.40	069	3.93	008

ER Collet Chuck

▲ with cylindrical shank and clamping flat



DCONMS _{h6}	DCONWS	OAL	LPR	DLN	THID	DRVS	SW	for collet	83 455 ...
mm	mm	mm	mm	mm	mm	mm	mm		£
40	2-20	100	35	50	M22x1,5	36	5	470E (ER32)	164.72
40	2-20	160	35	50	M22x1,5	36	5	470E (ER32)	203.39
40	3-30	139	59	63	M28x1,5	40	6	472E (ER40)	188.84

Spare parts for collet	Lock nut		Y clamping key		Stop screw IK		Stop screw	
	£		£		£		£	
470E (ER32)	22.64	056	33.95	132	6.26	096	5.08	095
472E (ER40)	23.45	057	38.47	140				

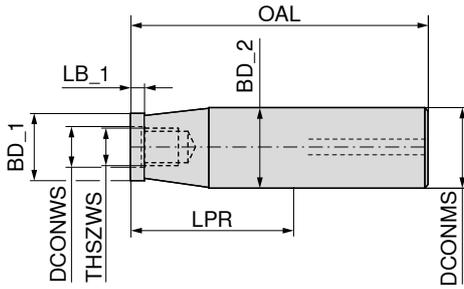
Accessories



ER collet

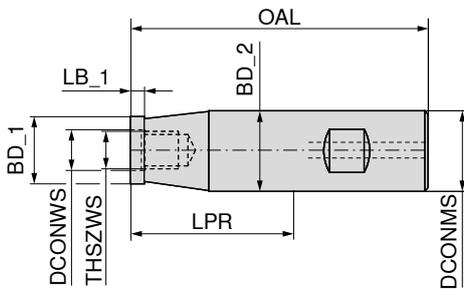
→ 256-266

Cylindrical milling bar for cutters with threaded end



								56 727 ...	
DCONMS _{h6}	THSZWS	DCONWS	LPR	BD_1	LB_1	BD_2	OAL	£	
mm		mm	mm	mm	mm	mm	mm	WA	
12	M5	5.5	20	9.5	7.8	11.5	65	118.04	052
12	M6	6.5	20	11.5	7.8	11.5	65	109.41	060
12	M6	6.5	40	11.5	7.8	11.5	85	118.03	062
16	M8	8.5	20	13.8	7.8	15.8	68	122.13	081
16	M8	8.5	40	13.8	7.8	15.8	88	131.30	082
20	M10	10.5	25	18.0	7.8	19.8	75	127.23	101
20	M10	10.5	45	18.0	7.8	19.8	95	137.55	102
25	M12	12.5	50	21.0	7.8	24.8	106	143.65	122
32	M16	17.0	50	29.0	12.0	31.8	110	154.96	162

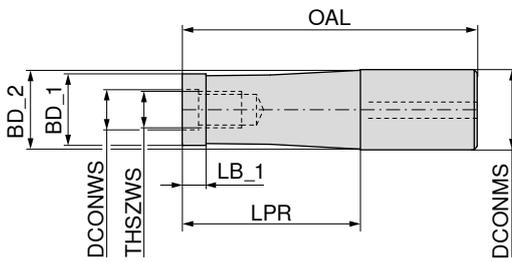
Milling bar for cutters with threaded end (Weldon)



								56 729 ...	
DCONMS _{h6}	THSZWS	DCONWS	LPR	BD_1	LB_1	BD_2	OAL	£	
mm		mm	mm	mm	mm	mm	mm	WA	
12	M6	6.5	20	11.5	7.8	11.5	65	109.41	060
12	M6	6.5	40	11.5	7.8	11.5	85	118.03	062
16	M8	8.5	20	13.8	12.0	15.8	68	122.13	081
16	M8	8.5	40	13.8	8.0	15.8	88	131.30	082
20	M10	10.5	25	18.0	8.0	19.8	75	127.23	101
20	M10	10.5	45	18.0	12.0	19.8	95	137.55	102
25	M12	12.5	30	21.0	12.0	24.9	86	132.47	121
25	M12	12.5	50	21.0	8.0	24.9	106	143.65	122
32	M16	17.0	50	29.0	12.0	31.8	110	154.96	162

Screw-in adapter with cylindrical shank

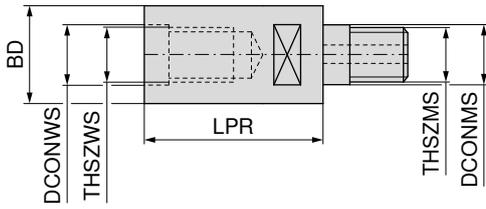
▲ Vibration-damped



DCONMS _{h6} mm	THSZWS	DCONWS mm	LPR mm	BD_1 mm	LB_1 mm	BD_2 mm	OAL mm	Solid carbide		Densimet		Densimet	
								56 743 ... £ WC		56 744 ... £ WC		56 721 ... £ WC	
12	M5	5.5	40	9.5	9	11.3	85			437.24	052	428.89	052
12	M5	5.5	60	9.5	9	11.3	105			472.58	053	457.23	053
12	M5	5.5	80	9.5	9	11.3	125			525.59	054	492.44	054
12	M6	6.5	20	11.5		11.5	65	575.83	060				
12	M6	6.5	40	11.5		11.5	85	614.94	062				
12	M6	6.5	60	11.5		11.5	105	681.75	063				
12	M6	6.5	80	11.5		11.5	125	746.24	064				
12	M6	6.5	100	11.5		11.5	145	810.73	065				
16	M8	8.5	40	14.2	9	15.3	88	652.32	082	536.61	082	536.90	082
16	M8	8.5	60	14.2	9	15.3	108	720.95	083	580.80	083	591.85	083
16	M8	8.5	80	14.2	9	15.3	128	777.06	084	636.01	084	625.98	084
16	M8	8.5	100	14.2	9	15.3	148	764.67	085	700.05	085	683.43	085
16	M8	8.5	120	14.2	9	15.3	168	817.61	086	770.71	086	740.51	086
16	M8	8.5	150	14.2	9	15.3	198			971.66	087	929.94	087
20	M10	10.5	60	18.5	9	19.3	110	829.29	103	677.95	103	679.86	103
20	M10	10.5	80	18.5	9	19.3	130	845.28	104	755.27	104	742.91	104
20	M10	10.5	100	18.5	9	19.3	150	1,014.27	105	843.59	105	817.15	105
20	M10	10.5	120	18.5	9	19.3	170	1,045.62	106	936.33	106	911.49	106
20	M10	10.5	140	18.5	9	19.3	190	1,165.42	107	1,090.92	107	1,068.10	107
25	M12	12.5	75	23.0	9	24.3	131			1,018.04	124	1,004.65	124
25	M12	12.5	80	23.0	9	24.3	136	902.85	124				
25	M12	12.5	100	23.0	9	24.3	156	1,161.01	125	1,126.25	125	1,157.03	125
25	M12	12.5	120	23.0	9	24.3	176	1,305.92	126				
25	M12	12.5	125	23.0	9	24.3	181			1,232.25	126	1,236.34	126
25	M12	12.5	140	23.0	9	24.3	196	1,508.59	127				
25	M12	12.5	150	23.0	9	24.3	206			1,384.64	127	1,375.79	127
25	M12	12.5	160	23.0	9	24.3	216	1,711.27	128				
25	M12	12.5	175	23.0	9	24.3	231			1,567.92	128	1,559.49	128
32	M16	17.0	100	29.0	9	31.5	160	1,923.16	165 ¹⁾				
32	M16	17.0	150	29.0	9	31.5	210	2,333.13	166 ¹⁾				
32	M16	17.0	200	29.0	9	31.5	260	2,812.19	167 ¹⁾				
32	M16	17.0	250	29.0	9	31.5	310	3,378.80	168 ¹⁾				
32	M16	17.0	300	29.0	9	31.5	360	3,862.47	169 ¹⁾				
36	M16	17.0	100	31.5	9	34.3	160					2,232.98	165 ¹⁾
36	M16	17.0	150	31.5	9	34.3	210					2,738.28	166 ¹⁾
36	M16	17.0	200	31.5	9	34.3	260					3,492.41	167 ¹⁾

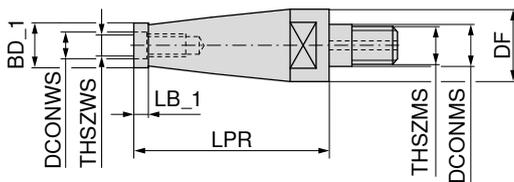
1) On request

Extensions for milling cutters with threaded end



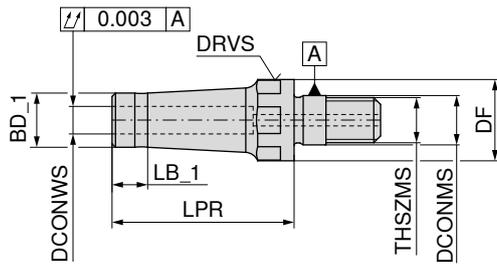
THSZWS	THSZMS	DCONWS	DCONMS	LPR	BD	56 733 ...	
		mm	mm	mm	mm	£	
M8	M8	8.5	8.5	40	13.8	132.47	081
M8	M8	8.5	8.5	60	13.8	163.17	082
M10	M10	10.5	10.5	40	18.0	137.55	101
M10	M10	10.5	10.5	60	18.0	168.26	102
M12	M12	12.5	12.5	40	21.0	142.64	121
M12	M12	12.5	12.5	60	21.0	173.34	122
M16	M16	17.0	17.0	40	29.0	147.74	161
M16	M16	17.0	17.0	60	29.0	178.61	162

Reductions for milling cutters with threaded end



THSZWS	THSZMS	DCONMS	DCONWS	LPR	BD_1	DF	LB_1	56 735 ...	
		mm	mm	mm	mm	mm	mm	£	
M6	M8	8.5	6.5	20	9.5	13.8	7.8	117.10	060
M8	M10	10.5	8.5	40	13.8	18.0	7.8	137.55	081
M8	M12	12.5	8.5	60	13.8	21.0	7.8	148.72	082
M10	M12	12.5	10.5	40	18.0	21.0	7.8	142.64	101
M10	M16	17.0	10.5	60	18.0	29.0	7.8	173.34	102
M12	M16	17.0	12.5	40	21.0	29.0	7.8	142.64	121

Threaded shrink adapter

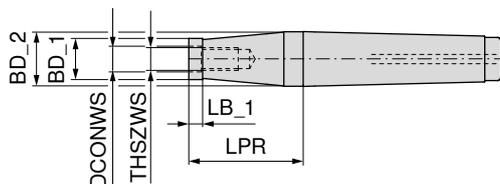


56 708 ...

THSZMS	DCONWS mm	BD_1 mm	LPR mm	LB_1 mm	DF mm	DCONMS mm	TQX Nm	DRVS mm	£ WA	
M10	6	12	40	7.8	18	10.5	30	17	157.70	061
M12	6	12	40	7.8	21	12.5	50	19	157.70	062
M16	6	12	40	7.8	29	17.0	100	27	157.70	063
M10	8	16	40	7.8	18	10.5	30	17	157.70	081
M12	8	16	40	7.8	21	12.5	50	19	157.70	082
M16	8	16	40	7.8	29	17.0	100	27	157.70	083
M10	10	18	60		18	10.5	30	17	157.70	101
M12	10	20	60	7.8	21	12.5	50	19	157.70	102
M16	10	20	60	7.8	29	17.0	100	27	157.70	103
M12	12	21	60		21	12.5	50	19	157.70	122
M16	12	24	60	7.8	29	17.0	100	27	157.70	123

Observe the minimum clamping depth on → **Page 300.**

Morse taper milling bar for cutters with threaded end



56 731 ...

Adapter	THSZWS	DCONWS	BD_1	LB_1	BD_2	LPR	£	
		mm	mm	mm	mm	mm	WA	
MK2	M8	8.5	13.8	8.5	18.0	20	82.10	081
MK2	M8	8.5	13.8	8.5	18.0	40	87.36	082
MK2	M8	8.5	13.8	8.5	18.0	60	91.44	083
MK3	M8	8.5	13.8	8.5	24.1	80	96.52	084
MK3	M8	8.5	13.8	8.5	24.1	100	102.62	085
MK2	M10	10.5	18.0		18.0	20	82.10	101
MK2	M10	10.5	18.0		18.0	40	87.36	102
MK2	M10	10.5	18.0		18.0	60	91.44	103
MK3	M10	10.5	18.0	8.5	24.1	80	96.52	104
MK3	M10	10.5	18.0	8.5	24.1	100	102.62	105
MK3	M12	12.5	21.0	8.5	24.0	10	80.13	121
MK3	M12	12.5	21.0	8.5	24.1	30	82.10	122
MK3	M12	12.5	21.0	8.5	24.1	45	86.19	123
MK3	M12	12.5	21.0	8.5	24.1	60	90.31	124
MK3	M12	12.5	21.0	8.5	24.1	75	96.52	125
MK3	M12	12.5	21.0	8.5	24.1	85	105.71	126
MK3	M12	12.5	21.0	8.5	24.1	95	111.78	127
MK4	M12	12.5	21.0	8.5	31.6	120	160.21	129
MK4	M16	17.0	29.0	12.0	31.6	10	87.36	161
MK4	M16	17.0	29.0	12.0	31.6	35	89.28	162
MK4	M16	17.0	29.0	12.0	31.6	50	97.51	163
MK4	M16	17.0	29.0	9.0	31.6	65	104.59	164
MK4	M16	17.0	29.0	12.0	31.6	80	113.78	165
MK4	M16	17.0	29.0	12.0	31.6	95	126.25	166
MK5	M16	17.0	29.0	9.0	44.7	150	179.58	168
MK5	M16	17.0	29.0	9.0	44.7	180	190.90	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 hole 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**

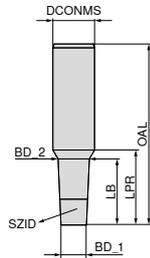
MultiChange – Holders

▲ Tapered 87°

▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel



Steel



Solid carbide



Solid carbide



Solid carbide



SZID	BD_1 mm	BD_2 mm	DCONMS mm	OAL mm	LB mm	LPR mm	84 001 ...		84 004 ...		84 005 ...		84 007 ...		84 010 ...	
							£	080	£	080	£	080	£	080	£	080
06	7.8	9.4	10	60	18	19	155.19									
06	7.8	9.4	10	85	43	44		183.75		311.14			344.32			
06	7.8	9.4	10	110	68	69										396.77
06	7.8	9.4	10	150	108	109										
08	9.8	12.0	16	70	25	29	157.72									
08	9.8	13.0	16	90	38	41		188.38		339.33			381.03			
08	9.8	14.9	16	110	60	61										443.48
08	9.8	15.4	16	150	100	101										
10	11.8	14.2	16	70	27	29	174.85									
10	11.8	15.2	16	90	40	41		192.31		339.33						
10	11.8	16.6	20	110	56	59						486.65				
10	11.8	19.5	20	150	98	99										524.12
12	15.8	18.2	20	80	27	29	187.68									
12	15.8	19.5	20	105	53	54		231.56		477.06						
12	15.8	19.5	20	130	78	79						569.81				
12	15.8	19.5	20	150	98	99										584.59
16	19.8	23.2	25	90	39	41	220.16									
16	19.8	24.5	25	120	60	61		270.81		584.77						
16	19.8	24.5	25	150	90	91						661.13				
16	19.8	24.5	25	200	140	141										741.75

Assembly instructions can be found on → **Page 282**

Accessories



insertion key

→ 282



Adjustable wrench

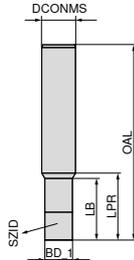
→ 282

MultiChange – Holders

- ▲ cylindrical
- ▲ Only suitable for milling
- ▲ SZID = Coupling Size

Scope of supply:

Holder without mounting key



Steel

Steel

Steel

Steel



SZID	BD_1 mm	DCONMS mm	OAL mm	LB mm	LPR mm
06	7.8	10	60	17	19
06	7.8	10	85	42	44
06	7.8	10	150	107	109
08	9.8	12	70	22	24
08	9.8	12	90	42	44
08	9.8	12	150	102	104
10	11.8	16	70	17	21
10	11.8	16	90	37	41
10	11.8	16	150	97	101
12	15.8	16	80	30	31
12	15.8	16	105	55	56
12	15.8	16	150	100	101
12	15.8	16	200	150	151
16	19.8	25	90	26	31
16	19.8	25	120	56	61
16	19.8	25	200	136	141
16	19.8	25	250	186	191

84 000 ...	84 002 ...	84 008 ...	84 011 ...
£ Y8	£ Y8	£ Y8	£ Y8
140.94	165.36	231.56	
143.27	169.48	237.27	
158.94	173.06	242.28	
170.71	208.37	291.85	
200.16	243.68	341.09	528.78
			587.64

Assembly instructions can be found on → **Page 282**

Accessories



insertion key

Adjustable wrench

→ 282

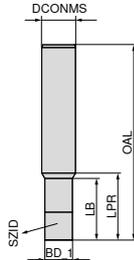
→ 282

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



SZID	BD_1 mm	DCONMS mm	OAL mm	LB mm	LPR mm
06	7.8	10	85	42	44
06	7.8	10	110	67	69
06	7.8	10	150	107	109
08	9.8	12	90	42	44
08	9.8	12	110	62	64
08	9.8	12	150	102	104
10	11.8	16	90	37	41
10	11.8	16	110	57	61
10	11.8	16	150	97	101
12	15.8	16	105	55	56
12	15.8	16	130	80	81
12	15.8	16	150	100	101
12	15.8	16	200	150	151
16	19.8	25	120	56	61
16	19.8	25	150	86	91
16	19.8	25	200	136	141
16	19.8	25	250	186	191

84 003 ...	84 006 ...	84 009 ...	84 012 ...
£ Y8	£ Y8	£ Y8	£ Y8
311.14	080		
344.32	080	396.77	080
329.66	100	421.01	100
339.33	120	443.48	120
369.27	160	571.91	160
584.77	200		754.99
		741.75	200
			1,142.79
			200

Assembly instructions can be found on → **Page 282**

Accessories



insertion key

Adjustable wrench

→ 282

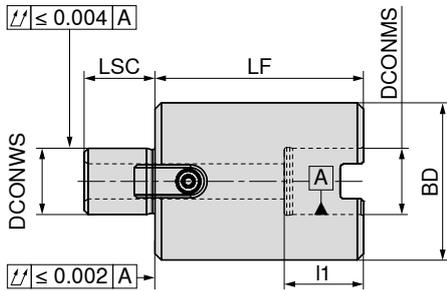
→ 282

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



						82 648 ...	
						£	
						Y8	
DCONWS _{h5}	DCONMS _{h5}	LF	BD	LSC	I ₁		
mm	mm	mm	mm	mm	mm		
16	16	75	38	17	19	121.22	075
16	16	50	38	17	19	120.38	050
22	22	50	48	19	21	123.27	150
22	22	75	48	19	21	124.47	175
27	27	75	58	21	23	131.45	275
27	27	50	58	21	23	129.06	250
32	32	75	78	24	26	144.91	375
32	32	50	78	24	26	139.95	350
40	40	50	88	27	29	173.67	450
40	40	75	88	27	29	180.47	475



Screw for drivers



Driver



Retaining screw

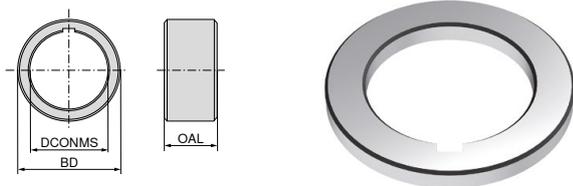


Retaining screw

		83 950 ...		83 950 ...		82 649 ...		82 649 ...				
		£		£		£		£				
		Y8		Y8		Y8		Y8				
Spare parts for Article no.												
82 648 075	M3x8	1.02	296	8x9x17,5	14.34	120		M8x100	5.82	075		
82 648 050	M3x8	1.02	296	8x9x17,5	14.34	120	M8x125	6.81	001	M8x80	4.19	050
82 648 150	M4x12	1.33	297	10x11x20,5	14.81	121	M10x125	10.09	100	M10x80	6.66	150
82 648 175	M4x12	1.33	297	10x11x20,5	14.81	121				M10x100	8.79	175
82 648 275	M5x12	1.37	136	12x13x24,3	16.33	122				M12x100	13.14	275
82 648 250	M5x12	1.37	136	12x13x24,3	16.33	122	M12x125	15.44	200	M12x80	9.73	250
82 648 375	M5x20	1.45	137	14x21x21,2	16.50	123				M16x100	19.92	375
82 648 350	M5x20	1.45	137	14x21x21,2	16.50	123	M16x125	22.65	300	M16x80	14.30	350
82 648 450	M6x16	1.65	138	15,9x16,3x19,5	21.97	295						
82 648 475	M6x16	1.65	138	15,9x16,3x19,5	21.97	295						

When using two extension pieces (max. 2 x 50 mm) please use a tightening bolt with a length of 125 mm.

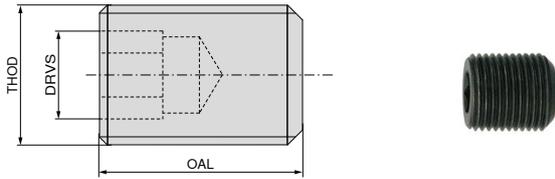
Milling Adapter Rings DIN 2084 Form B



83 385 ...

DCONMS mm	BD mm	OAL mm	£ Y8	
13	22	2	12.01	013
	22	3	12.08	113
	22	4	12.57	213
	22	5	12.99	313
	22	6	13.65	413
	22	10	15.20	513
16	26	2	10.64	016
	26	3	10.64	116
	26	4	10.79	216
	26	5	11.20	316
	26	6	11.57	416
	26	10	16.43	516
	26	20	20.91	616
	26	30	26.05	716
22	34	2	10.96	022
	34	3	11.20	122
	34	4	11.35	222
	34	5	12.43	322
	34	6	14.02	422
	34	10	19.28	522
	34	20	24.16	622
	34	30	32.04	722
27	41	2	12.08	027
	41	3	12.38	127
	41	4	13.65	227
	41	5	14.15	327
	41	6	15.88	427
	41	10	19.70	527
	41	20	26.53	627
	41	30	35.49	727
32	47	2	13.48	032
	47	3	14.31	132
	47	4	15.56	232
	47	5	16.85	332
	47	6	17.84	432
	47	10	21.74	532
	47	20	32.85	632
	47	30	39.91	732
40	55	2	15.67	040
	55	3	17.40	140
	55	4	19.19	240
	55	5	20.91	340
	55	6	22.54	440
	55	10	30.22	540
	55	20	41.57	640
	55	30	51.33	740

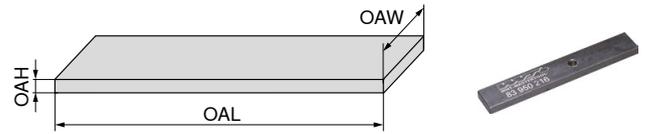
Screw for cylindrical adapters E2



			83 950 ...	
THOD	OAL	DRVS	£	
	mm	mm	Y8	
M6	12	3	3.54	461
M6	16	3	3.44	462
M6	25	3	3.54	463
M8	10	4	3.54	464
M8	12	4	3.54	465
M8	16	4	3.54	466
M8	20	4	3.44	467
M8	25	4	3.44	468
M8	30	4	3.54	469
M10	16	5	3.54	470
M10	20	5	3.44	471
M10	25	5	4.21	472
M10	30	5	3.89	473
M12	12	6	4.21	474
M12	16	6	4.21	475
M12	20	6	4.21	476
M12	25	6	4.21	477

Levelling plates

- ▲ For axial and radial tool holders
- ▲ Without mounting thread



			83 950 ...	
OAH	OAL	OAW	£	
mm	mm	mm	Y8	
4	38	14	20.20	210
4	48	14	17.28	211
4	54	14	17.28	212
4	55	12	20.20	213
4	69	16	17.28	214
4	72	14	17.28	215
4	75	12	20.20	216
4	99	16	17.28	217
5	84	20	19.83	218
5	117	20	17.28	219
7	99	25	17.28	220
7	120	25	23.53	221
7	129	25	20.20	222
7	143	25	20.20	223

Clamping screw for cylindrical adapters E1



			83 950 ...	
THOD			£	
			Y8	
M10x1x10			7.13	180
M12x1x12			7.13	181
M16x1x13			6.36	182

Lock nut with external thread form ER for sealing rings with internal cooling



for collet	THOD	DRVS mm	83 950 ...	
			£	Y8
ER 16	M24x1	19	86.95	45600
ER 20	M28x1,5	22	91.22	45700
ER 25	M32x1,5	24	89.30	45800
ER 32	M40x1,5	32	97.11	45900

Ball-shaped spray nozzle



83 950 ...		£	Y8
Ø 8 - M 5		5.46	200
Ø 10 - M 6		6.89	201
Ø 14 - M 8		6.79	202

Pipe joints

▲ steel pipe



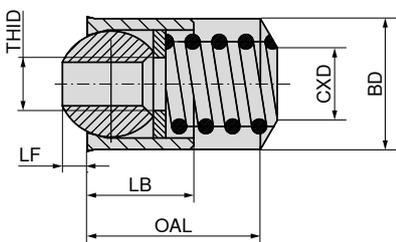
THOD	CXD mm	Type	83 950 ...	
			£	Y7
M8x1	5	A	14.81	372
M10x1	6	A	32.18	373
M10x1	8	A	18.87	374
M8x1	5	B	14.81	375
M10x1	6	B	32.18	376
M10x1	8	B	32.18	377

O-Ring



Adapter	Size	83 950 ...	
		£	Y8
VDI 16	15 x 1,5	1.65	205
VDI 20	18,77 x 1,78	1.65	206
VDI 30	28,3 x 1,78	1.91	207
VDI 40	37,77 x 2,62	2.21	208
VDI 50	47,29 x 2,62	2.21	209

Spray nozzle element

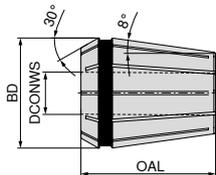


BD mm	THID	OAL mm	LB mm	LF mm	CXD mm	83 950 ...	
						£	Y8
9.88	M4	13	8	2.2	5.5	14.35	247
11.88	M6	15	10	3.0	6.8	14.35	248
13.88	M6	17	12	4.0	6.8	14.35	249

ER precision collet for precision collet chucks – 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



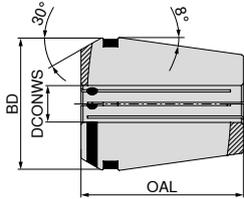
DCONWS mm	BD = 8.5 OAL = 13.6 4004 E / ER08		BD = 11.5 OAL = 18 4008 E / ER11		BD = 17 OAL = 27.5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32		BD = 41 OAL = 46 472 E / ER40	
	£		£		£		£		£		£	
	84 577 ...		84 585 ...		84 596 ...		84 597 ...		84 598 ...		84 599 ...	
	Y8		Y8		Y8		Y8		Y8		Y8	
1.0	99.17	010	95.88	010	94.23	010						
1.1					168.54	011						
1.2					168.54	012						
1.4					168.54	014						
1.5	99.17	015	95.88	015	94.23	015						
1.6					168.54	016						
1.8					168.54	018						
2.0	88.07	020	84.27	020	80.49	020	83.32	020	85.22	020		
2.2					149.60	022						
2.4					149.60	024						
2.5	88.07	025	84.27	025	80.49	025	83.32	025				
2.6					149.60	026						
2.8					149.60	028						
3.0	74.80	030	71.03	030	68.17	030	70.08	030	71.03	030	104.13	030
3.2					132.57	032						
3.4					117.37	034						
3.5	74.80	035	71.03	035	86.79	035	90.92	035				
3.6					132.57	036						
3.8					132.57	038						
4.0	74.80	040	71.03	040	68.17	040	70.08	040	71.03	040	90.90	040
4.5	74.80	045	71.03	045	86.79	045	90.92	045				
5.0	74.80	050	71.03	050	68.17	050	70.08	050	71.03	050	90.90	050
5.5			71.03	055	86.79	055	90.92	055				
5.6					132.57	056						
6.0			71.03	060	68.17	060	70.08	060	71.03	060	90.90	060
6.3					132.57	063						
6.5			71.03	065	86.79	065	90.92	065				
7.0			71.03	070	68.17	070	70.08	070	71.03	070	90.90	070
7.1					132.57	071						
7.5					86.79	075	90.92	075				
8.0					68.17	080	70.08	080	71.03	080	90.90	080
8.5					86.79	085	90.92	085				
9.0					68.17	090	70.08	090	71.03	090	90.90	090
9.5					86.79	095	90.92	095				
10.0					68.17	100	70.08	100	71.03	100	90.90	100
10.5							90.92	105				
11.0							70.08	110	71.03	110	90.90	110
11.5							90.92	115				
12.0							70.08	120	71.03	120	90.90	120
12.5							90.92	125				
13.0							70.08	130	71.03	130	90.90	130
13.5							90.92	135				
14.0							70.08	140	71.03	140	90.90	140
14.5							90.92	145				
15.0							70.08	150	71.03	150	90.90	150
15.5							90.92	155				
16.0							70.08	160	71.03	160	90.90	160
17.0									71.03	170	90.90	170
18.0									71.03	180	90.90	180
19.0									71.03	190	90.90	190
20.0									71.03	200	90.90	200
21.0											90.90	210
22.0											90.90	220
23.0											90.90	230
24.0											90.90	240
25.0											90.90	250
26.0											90.90	260
	Set in wooden box				439.34	999	530.26	999	609.79	999		

1) Included in the set

ER precision collet, sealed, for precision collet chucks – 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

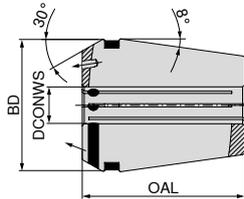


DCONWS mm	BD = 11.3 OAL = 18 425 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	£		£		£		£		£	
	84 536 ...		84 537 ...		84 538 ...		84 539 ...		84 540 ...	
	Y8		Y8		Y8		Y8		Y8	
3	89.26	030	92.79	030	94.23	030	97.55	030		
4	89.26	040	92.79	040	98.48	040	89.26	040		
5	97.55	050	89.26	050	94.23	050	97.55	050		
6	89.26	060	92.79	060	98.48	060	89.26	060	102.49	060
7			89.26	070	94.23	070	97.55	070		
8			92.79	080	98.48	080	89.26	080	102.49	080
9			89.26	090	94.23	090	97.55	090		
10			92.79	100	98.48	100	89.26	100	102.49	100
11					94.23	110	97.55	110		
12					98.48	120	89.26	120	102.49	120
13					94.23	130	97.55	130		
14					98.48	140	89.26	140	102.49	140
15					94.23	150	97.55	150		
16					98.48	160	89.26	160	102.49	160
17							97.55	170		
18							89.26	180	102.49	180
19							97.55	190		
20							89.26	200	102.49	200
22									112.41	220
25									102.49	250

ER precision collet, sealed with coolant holes, for precision collet chucks – 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

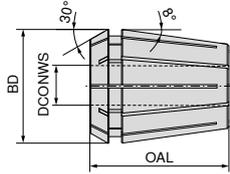


DCONWS mm	BD = 11.3 OAL = 18 4012 E / ER11		BD = 16.7 OAL = 27.5 425 E / ER16		BD = 25.7 OAL = 34 429 E / ER25		BD = 32.7 OAL = 40 469 E / ER32		BD = 40.7 OAL = 46 471 E / ER40	
	£		£		£		£		£	
	Y8		Y8		Y8		Y8		Y8	
3	136.73	03000	122.33	03000						
4	136.73	04000	122.33	040	130.59	040	135.54	040		
6	136.73	06000	122.33	060	130.59	060	135.54	060	157.05	06000
8			122.33	080	130.59	080	135.54	080	157.05	08000
10			122.33	10000	130.59	100	135.54	100	157.05	100
12					130.59	120	135.54	120	157.05	120
14					130.59	140	135.54	140		
16					130.59	16000	135.54	160	157.05	160
18							135.54	180		
20							135.54	200	157.05	200
25									157.05	250

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ 12 times slotted
- ▲ Double taper collet
- ▲ Coated collet

ER-B
5 µm



DCONWS mm	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 ...		
	£ Y8		£ Y8		£ Y8		£ Y8		£ Y8		£ Y8		
1.0	41.09	010	39.69	010	40.91	010 ¹⁾	43.17	010 ¹⁾					
1.5	41.09	015	39.69	015 ¹⁾	40.91	015 ¹⁾	43.17	015 ¹⁾					
2.0	41.09	020	39.69	020	40.91	020	43.17	020	45.59	020 ¹⁾			
2.5	41.09	025	39.69	025 ¹⁾	40.91	025 ¹⁾	43.17	025	45.59	025 ¹⁾			
3.0	33.29	030	31.38	030	32.41	030	33.29	030	35.54	030	61.54	030 ¹⁾	
3.5	33.29	035											
4.0	33.29	040	31.38	040	32.41	040	33.29	040	35.54	040	45.94	040	
4.5	33.29	045											
5.0	33.29	050	31.38	050	32.41	050	33.29	050	35.54	050	45.94	050	
5.5	33.29	055											
6.0	33.29	060	31.38	060	32.41	060	33.29	060	35.54	060	45.94	060	
6.5	33.29	065											
7.0	33.29	070	31.38	070	32.41	070	33.29	070	35.54	070	45.94	070	
8.0			31.38	080	32.41	080	33.29	080	35.54	080	45.94	080	
9.0			31.38	090	32.41	090	33.18	090	35.54	090	45.94	090	
10.0			31.38	100	32.41	100	33.29	100	35.54	100	45.94	100	
11.0					32.41	110	33.29	110	35.54	110	45.94	110	
12.0					32.41	120	33.29	120	35.54	120	45.94	120	
13.0					32.41	130	33.29	130	35.54	130	45.94	130	
14.0							33.29	140	35.54	140	45.94	140	
15.0							33.29	150	35.54	150	45.94	150	
16.0							33.29	160	35.54	160	45.94	160	
17.0									35.54	170	45.94	170	
18.0									35.54	180	45.94	180	
19.0									35.54	190	45.94	190	
20.0									35.54	200	45.94	200	
21.0											45.94	210	
22.0											45.94	220	
23.0											45.94	230	
24.0											45.94	240	
25.0											45.94	250	
26.0											45.94	260	
Set in wooden box		495.72	999	358.79	999	436.78	999	552.92	999	691.55	999	1,117.96	999

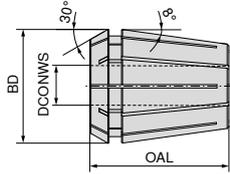
1) not included in the set

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



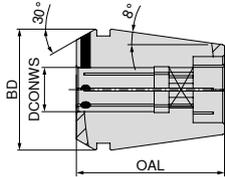
DCONWS mm	NEW		NEW		NEW		NEW	
	£		£		£		£	
		BD = 8.5 OAL = 13.6 4004 E / ER08		BD = 17 OAL = 27.5 426 E / ER16		BD = 26 OAL = 34 430 E / ER25		BD = 33 OAL = 40 470 E / ER32
		82 666 ...		82 663 ...		82 664 ...		82 665 ...
	Y8		Y8		Y8		Y8	
1.0	36.74	01000	29.83	01000				
1.5	36.74	01500						
2.0	36.74	02000	29.83	02000	31.84	02000		
2.5	36.74	02500						
3.0	36.74	03000	29.83	03000	31.84	03000	33.89	03000
3.5	36.74	03500						
4.0	36.74	04000	29.83	04000	31.84	04000	33.89	04000
4.5	36.74	04500						
5.0	36.74	05000	29.83	05000	31.84	05000	33.89	05000
6.0			29.83	06000	31.84	06000	33.89	06000
7.0			29.83	07000	31.84	07000	33.89	07000
8.0			29.83	08000	31.84	08000	33.89	08000
9.0			29.83	09000	31.84	09000	33.89	09000
10.0			29.83	10000	31.84	10000	33.89	10000
11.0					31.84	11000	33.89	11000
12.0					31.84	12000	33.89	12000
13.0					31.84	13000	33.89	13000
14.0					31.84	14000	33.89	14000
15.0					31.84	15000	33.89	15000
16.0					31.84	16000	33.89	16000
17.0							33.89	17000
18.0							33.89	18000
19.0							33.89	19000
20.0							33.89	20000
Set in wooden box	413.70	99900	357.00	99900	514.50	99900	684.60	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



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
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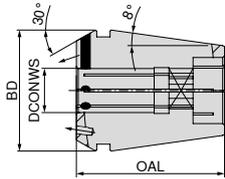
DCONWS
mm

	84 531 ...		84 533 ...		84 534 ...	
	£		£		£	
	Y8		Y8		Y8	
2.8	86.73	028				
3.5	66.13	035	72.73	035		
4.0	66.13	040	72.73	040	89.51	040
4.5	66.13	045	72.73	045	89.51	045
6.0	66.13	060	72.73	060	89.51	060
7.0	66.13	070	72.73	070	89.51	070
8.0	66.13	080	72.73	080	89.51	080
9.0	66.13	090	72.73	090	89.51	090
10.0			72.73	100	89.51	100
11.0			72.73	110	89.51	110
12.0			72.73	120	89.51	120
14.0			72.73	140	89.51	140
16.0			72.73	160	89.51	160
18.0					89.51	180
20.0					89.51	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
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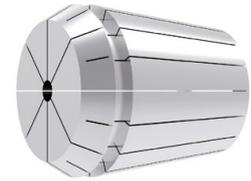
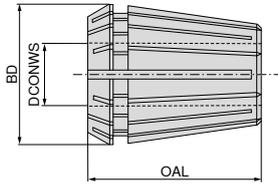
DCONWS

mm	84 567 ...		84 568 ...		84 569 ...	
	£		£		£	
	Y8		Y8		Y8	
3.5	119.97	035				
4.5	119.97	045	132.87	045	143.94	045
6.0	119.97	060	132.87	060	143.94	060
7.0	119.97	070	132.87	070	143.94	070
8.0	119.97	080	132.87	080	143.94	080
9.0	119.97	09000	132.87	090	143.94	090
10.0			132.87	100	143.94	100
11.0			132.87	110	143.94	110
12.0			132.87	120	143.94	120
14.0			132.87	140	143.94	140
16.0			132.87	16000	143.94	160
18.0					143.94	180
20.0					143.94	200

ER precision collet

- ▲ DIN ISO 15488-B (old DIN 6499-B)
- ▲ Double taper collet
- ▲ 16 times slotted

ER-B
20 µm



DCONWS mm	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 ...
	£	Y8	£	Y8	£	Y8	£	Y8	£	Y8	£	Y8	£	Y8
1	26.75	01000	26.13	01000 ¹⁾										
2	26.75	02000	26.13	02000	26.95	02000								
3	21.95	03000	17.69	03000	18.61	03000	20.14	03000	25.44	03000				
4	21.95	04000	17.69	04000	18.61	04000	20.14	04000	25.44	04000				
5	21.95	05000	17.69	05000	18.61	05000	20.14	05000	25.44	05000				
6	21.95	06000	17.69	06000	18.61	06000	20.14	06000	25.44	06000				
7	21.95	07000	17.69	07000	18.61	07000	20.14	07000	25.44	07000				
8	21.95	08000	17.69	08000	18.61	08000	20.14	08000	25.44	08000				
9	21.95	09000	17.69	09000	18.61	09000	20.14	09000	25.44	09000				
10	21.95	10000	17.69	10000	18.61	10000	20.14	10000	25.44	10000				
11			17.69	11000	18.61	11000	20.14	11000	25.44	11000				
12			17.69	12000	18.61	12000	20.14	12000	25.44	12000				
13			17.69	13000	18.61	13000	20.14	13000	25.44	13000				
14					18.61	14000	20.14	14000	25.44	14000				
15					18.61	15000	20.14	15000	25.44	15000				
16					18.61	16000	20.14	16000	25.44	16000				
17							20.14	17000	25.44	17000				
18							20.14	18000	25.44	18000				
19							20.14	19000	25.44	19000				
20							20.14	20000	25.44	20000				
21									25.44	21000				
22									25.44	22000				
23									25.44	23000				
24									25.44	24000				
25									25.44	25000				
26									25.44	26000				
Set in wooden box		352.03	99900	352.03	99900	352.03	99900	376.71	99900	592.50	99900			

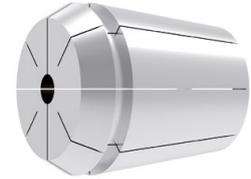
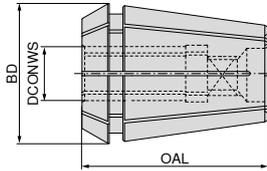
1) not included in the set

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



DCONWS
mm
4.5
5.5
6.0
7.0
8.0
9.0
10.0
11.0
12.0
14.0
16.0
18.0
20.0

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 ...
£ Y8	£ Y8	£ Y8
81.36 04500	89.34 04500	
81.36 05500	89.34 05500	
81.36 06000	89.34 06000	
81.36 07000	89.34 07000	105.05 07000
81.36 08000	89.34 08000	105.05 08000
81.36 09000	89.34 09000	105.05 09000
81.36 10000	89.34 10000	105.05 10000
81.36 11000	89.34 11000	105.05 11000
81.36 12000	89.34 12000	105.05 12000
	89.34 14000	105.05 14000
	89.34 16000	105.05 16000
		105.05 18000
		105.05 20000

Wooden boxes for collets

- ▲ For collets form A+B

Scope of supply:
empty wooden box

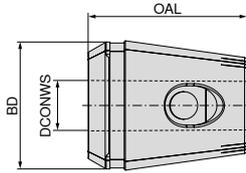


for collet	Piece	83 689 ...	
		£	
4004E (ER08)	9	28.92	008
4008E (ER11)	13	43.30	011
426E (ER16)	10	32.69	116
428E (ER20)	11	51.86	020
430E (ER25)	14	54.04	025
470E (ER32)	18	70.02	032
472E (ER40)	24	88.46	040

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	£ Y8	
12	179.99	120
16	179.99	160



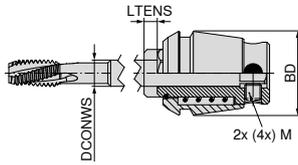
83 950 ...

Spare parts DCONWS	CP 32	£ Y8	
12	CP 32	10.79	455
16	CP 32	10.79	455

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



DCONWS mm	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 ...	
	£		£		£		£		£	
2.2	Y7		Y7		Y7		Y7		Y7	
2.5	227.88	022	227.88	022	241.63	025				
2.8	227.88	028	227.88	028	241.63	028				
3.0	227.88	030	227.88	030	241.63	030				
3.5	227.88	035	227.88	035	241.63	035				
4.0	227.88	040	227.88	040	241.63	040				
4.5	227.88	045	227.88	045	241.63	045	257.18	045		
5.0							257.18	050		
5.5	227.88	055	227.88	055	241.63	055	257.18	055		
6.0	227.88	060	227.88	060	241.63	060	257.18	060	282.33	060
7.0			227.88	070	241.63	070	257.18	070	282.33	070
8.0					241.63	080	257.18	080	282.33	080
9.0					241.63	090	257.18	090	290.36	090
10.0					241.63	100	257.18	100	290.36	100
11.0							257.18	110	290.36	110
12.0							257.18	120	290.36	120
14.0									290.36	140
16.0									290.36	160

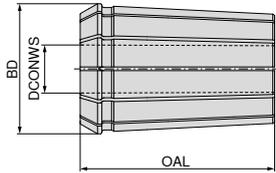


When using CNC machines apply canned cycles with a feed rate or pitch of only 95 % with small threads and up to 99 % with large threads. In this way when reversing the rotation of the spindle an optimum length compensation in both directions is guaranteed.

OZ precision collet for precision collet chucks – Centro-P

- ▲ DIN ISO 10897-B (old DIN 6388-B)
- ▲ $\varnothing = 10\text{ mm}$ 10 slots, $\varnothing > 10\text{ mm}$ 12 slots
- ▲ Double angle collets

OZ-B
3 μm



BD = 35.05
OAL = 52
462 E / OZ

83 660 ...	
£	
Y8	
90.93	030
90.93	040
90.93	060
90.93	080
90.93	100
90.93	120
90.93	140
90.93	160
90.93	180
90.93	200
90.93	250

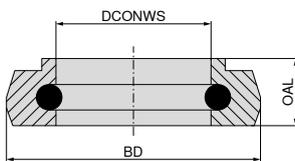
DCONWS	mm
	3
	4
	6
	8
	10
	12
	14
	16
	18
	20
	25

Clamping range covered: H10 corresponding to shank \varnothing 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



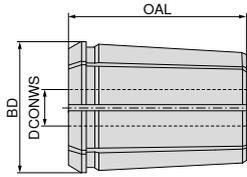
BD = 31
OAL = 4
462E

83 675 ...	
£	
Y8	
38.98	040
38.98	050
38.98	060
38.98	080
38.98	100
38.98	120
38.98	140
38.98	160
38.98	180
38.98	200
38.98	220
38.98	250

DCONWS	mm
	4
	5
	6
	8
	10
	12
	14
	16
	18
	20
	22
	25

OZ-collets

- ▲ DIN ISO 10897-B (old DIN 6388-B)
- ▲ Ø = 10 mm 10 slots, Ø > 10 mm 12 slots

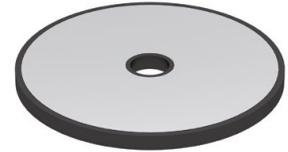
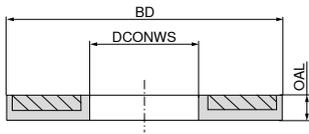


	OZ-B 6 µm	OZ-B 6 µm	OZ-B 10 µm	NEW OZ-B 20 µm	NEW OZ-B 20 µm	NEW OZ-B 20 µm
	BD = 25.5 OAL = 40 415 E / OZ	BD = 35.05 OAL = 52 462 E / OZ	BD = 43.7 OAL = 60 467 E / OZ	BD = 25.5 OAL = 40 415 E / OZ	BD = 35.05 OAL = 52 462 E / OZ	BD = 43.7 OAL = 60 467 E / OZ
	83 651 ...	83 652 ...	83 653 ...	82 653 ...	82 654 ...	82 655 ...
DCONWS mm	£ Y8	£ Y8	£ Y8	£ Y8	£ Y8	£ Y8
2.0				38.38	43.68	
2.5				38.38	43.68	
3.0	54.80			31.56	37.42	
3.5				31.56	37.42	
4.0	54.80	64.46		31.56	37.42	58.87
4.5				31.56	37.42	58.87
5.0	54.80	64.46		31.56	37.42	58.87
5.5				31.56	37.42	58.87
6.0	54.80	64.46		31.56	37.42	58.87
6.5				31.56	37.42	58.87
7.0				31.56	37.42	58.87
7.5				31.56	37.42	58.87
8.0	54.80	64.46		31.56	37.42	58.87
8.5				31.56	37.42	58.87
9.0				31.56	37.42	58.87
9.5				31.56	37.42	58.87
10.0	54.80	64.46	84.40	31.56	37.42	58.87
10.5				31.56	37.42	58.87
11.0				31.56	37.42	58.87
11.5				31.56	37.42	58.87
12.0	54.80	64.46	84.40	31.56	37.42	58.87
12.5				31.56	37.42	58.87
13.0				31.56	37.42	58.87
13.5				31.56	37.42	58.87
14.0		64.46	84.40	31.56	37.42	58.87
14.5				31.56	37.42	58.87
15.0				31.56	37.42	58.87
15.5				31.56	37.42	58.87
16.0	54.80	64.46	84.40	31.56	37.42	58.87
16.5					37.42	58.87
17.0					37.42	58.87
17.5					37.42	58.87
18.0		64.46	84.40		37.42	58.87
18.5					37.42	58.87
19.0					37.42	58.87
19.5					37.42	58.87
20.0		64.46	84.40		37.42	58.87
20.5					37.42	58.87
21.0					37.42	58.87
21.5					37.42	58.87
22.0					37.42	58.87
22.5					37.42	58.87
23.0					37.42	58.87
23.5					37.42	58.87
24.0					37.42	58.87
24.5					37.42	58.87
25.0		64.46	84.40		37.42	58.87
25.5					37.42	58.87
26.0					37.42	58.87
26.5					37.42	58.87
27.0					37.42	58.87
27.5					37.42	58.87
28.0					37.42	58.87
28.5					37.42	58.87
29.0					37.42	58.87
29.5					37.42	58.87
30.0			84.40		37.42	58.87
30.5					37.42	58.87
31.0					37.42	58.87
31.5					37.42	58.87
32.0			84.40		37.42	58.87

The collet has a clamping range of 0.5 mm (+0.1 / -0.4 mm)

Sealing discs for precision collet chucks – Centro-P

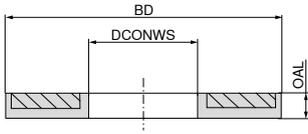
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 80 bar



DCONWS mm	BD = 12.6 OAL = 2 426E (ER16)		BD = 15.8 OAL = 2 428E (ER20)		BD = 20.2 OAL = 2 430E (ER25)		BD = 26.2 OAL = 2 444E / OZ (ER32)		BD = 34.2 OAL = 2 472E (ER40)	
	£		£		£		£		£	
	83 690 ...		83 694 ...		83 691 ...		83 692 ...		83 693 ...	
	Y8		Y8		Y8		Y8		Y8	
1.0	28.90	010								
1.5	28.90	015								
2.0	26.31	020	29.56	020	26.31	020	32.01	020		
2.5	26.31	025	29.56	025	26.31	025	32.01	025		
3.0	25.05	030	22.85	030	25.05	030	26.08	030	31.22	030
3.5	25.05	035	22.85	035	25.05	035	26.08	035	31.22	035
4.0	25.05	040	22.85	040	25.05	040	26.08	040	31.22	040
4.5	25.05	045	22.85	045	25.05	045	26.08	045	31.22	045
5.0	25.05	050	22.85	050	25.05	050	26.08	050	31.22	050
5.5	25.05	055	22.85	055	25.05	055	26.08	055	31.22	055
6.0	25.05	060	22.85	060	25.05	060	26.08	060	31.22	060
6.5	25.05	065	22.85	065	25.05	065	26.08	065	31.22	065
7.0	25.05	070	22.85	070	25.05	070	26.08	070	31.22	070
7.5	25.05	075	22.85	075	25.05	075	26.08	075	31.22	075
8.0	25.05	080	22.85	080	25.05	080	26.08	080	31.22	080
8.5	25.05	085	22.85	085	25.05	085	26.08	085	31.22	085
9.0	25.05	090	22.85	090	25.05	090	26.08	090	31.22	090
9.5	25.05	095	22.85	095	25.05	095	26.08	095	31.22	095
10.0	25.05	100	22.85	100	25.05	100	26.08	100	31.22	100
10.5			22.85	105	25.05	105	26.08	105	31.22	105
11.0			22.85	110	25.05	110	26.08	110	31.22	110
11.5			22.85	115	25.05	115	26.08	115	31.22	115
12.0			22.85	120	25.05	120	26.08	120	31.22	120
12.5			22.85	125	25.05	125	26.08	125	31.22	125
13.0			22.85	130	25.05	130	26.08	130	31.22	130
13.5					25.05	135	26.08	135	31.22	135
14.0					25.05	140	26.08	140	31.22	140
14.5					25.05	145	26.08	145	31.22	145
15.0					25.05	150	26.08	150	31.22	150
15.5					25.05	155	26.08	155	31.22	155
16.0					25.05	160	26.08	160	31.22	160
16.5							26.08	165	31.22	165
17.0							26.08	170	31.22	170
17.5							26.08	175	31.22	175
18.0							26.08	180	31.22	180
18.5							26.08	185	31.22	185
19.0							26.08	190	31.22	190
19.5							26.08	195	31.22	195
20.0							26.08	200	31.22	200
20.5									31.22	205
21.0									31.22	210
21.5									31.22	215
22.0									31.22	220
22.5									31.22	225
23.0									31.22	230
23.5									31.22	235
24.0									31.22	240
24.5									31.22	245
25.0									31.22	250
25.5									31.22	255
26.0									31.22	260

Sealing rings for precision collet chucks – PCC

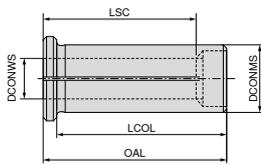
- ▲ For sealing when using tools with internal cooling
- ▲ Sealing range: nominal diameter -0,1 mm / +0,4 mm
- ▲ Can be applied up to 100 bar



DCONWS mm	NEW		NEW		NEW		
	BD = 13 OAL = 4 426E (ER16)	BD = 21 OAL = 4 430E (ER25)	BD = 27 OAL = 4 470E (ER32)	£	Y8	£	Y8
	82 630 ...	82 631 ...	82 632 ...				
3.0	33.80 03000	33.80 03000	33.80 03000	33.80	03000	33.80	03000
3.5	33.80 03500	33.80 03500	33.80 03500	33.80	03500	33.80	03500
4.0	33.80 04000	33.80 04000	33.80 04000	33.80	04000	33.80	04000
4.5	33.80 04500	33.80 04500	33.80 04500	33.80	04500	33.80	04500
5.0	33.80 05000	33.80 05000	33.80 05000	33.80	05000	33.80	05000
5.5	33.80 05500	33.80 05500	33.80 05500	33.80	05500	33.80	05500
6.0	33.80 06000	33.80 06000	33.80 06000	33.80	06000	33.80	06000
6.5	33.80 06500	33.80 06500	33.80 06500	33.80	06500	33.80	06500
7.0	33.80 07000	33.80 07000	33.80 07000	33.80	07000	33.80	07000
7.5	33.80 07500	33.80 07500	33.80 07500	33.80	07500	33.80	07500
8.0	33.80 08000	33.80 08000	33.80 08000	33.80	08000	33.80	08000
8.5	33.80 08500	33.80 08500	33.80 08500	33.80	08500	33.80	08500
9.0	33.80 09000	33.80 09000	33.80 09000	33.80	09000	33.80	09000
9.5	33.80 09500	33.80 09500	33.80 09500	33.80	09500	33.80	09500
10.0	33.80 10000	33.80 10000	33.80 10000	33.80	10000	33.80	10000
10.5		33.80 10500	33.80 10500			33.80	10500
11.0		33.80 11000	33.80 11000			33.80	11000
11.5		33.80 11500	33.80 11500			33.80	11500
12.0		33.80 12000	33.80 12000			33.80	12000
12.5		33.80 12500	33.80 12500			33.80	12500
13.0		33.80 13000	33.80 13000			33.80	13000
13.5		33.80 13500	33.80 13500			33.80	13500
14.0		33.80 14000	33.80 14000			33.80	14000
14.5		33.80 14500	33.80 14500			33.80	14500
15.0		33.80 15000	33.80 15000			33.80	15000
15.5		33.80 15500	33.80 15500			33.80	15500
16.0		33.80 16000				33.80	16000
16.5			33.80 16500			33.80	16500
17.0			33.80 17000			33.80	17000
17.5			33.80 17500			33.80	17500
18.0			33.80 18000			33.80	18000
18.5			33.80 18500			33.80	18500
19.0			33.80 19000			33.80	19000
19.5			33.80 19500			33.80	19500
20.0			33.80 20000			33.80	20000

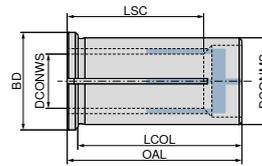
Reducing sleeves for hydraulic and high pressure chucks

▲ Thro' coolant to 80 bar



Reduction sleeves with coolant hole for hydraulic and high pressure chucks

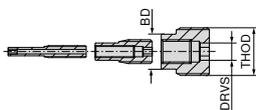
▲ with coolant holes, for flexible diameter application



83 609 ...					
DCONMS	DCONWS	OAL	LCOL	LSC	£
mm	mm	mm	mm	mm	Y8
12	3	40	36	29	225.73
12	4	40	36	29	225.73
12	5	40	36	29	225.73
12	6	40	36	36	225.73
12	8	40	36	37	225.73
20	3	54	50	28	212.03
20	4	54	50	28	212.03
20	5	54	50	28	212.03
20	6	54	50	36	164.72
20	8	54	50	37	164.72
20	10	54	50	40	164.72
20	12	54	50	45	164.72
20	14	54	50	45	164.72
20	16	54	50	48	164.72
25	6	60	56	37	172.92
25	8	60	56	37	172.92
25	10	60	56	40	172.92
25	12	60	56	46	172.92
25	14	60	56	47	172.92
25	16	60	56	48	172.92
25	18	60	56	48	172.92
25	20	60	56	50	172.92
32	6	64	60	36	212.03
32	8	64	60	36	212.03
32	10	64	60	40	212.03
32	12	64	60	45	212.03
32	14	64	60	46	212.03
32	16	64	60	48	212.03
32	18	64	60	49	212.03
32	20	64	60	50	212.03
32	25	64	60	56	212.03

83 611 ...						
DCONMS	DCONWS	BD	OAL	LCOL	LSC	£
mm	mm	mm	mm	mm	mm	Y8
12	3	16	44	40	29	366.53
12	4	16	44	40	29	366.53
12	5	16	44	40	29	366.53
12	6	16	44	40	36	366.53
12	8	16	44	40	37	366.53
20	3	25	54	50	28	230.67
20	4	25	54	50	28	230.67
20	5	25	54	50	28	230.67
20	6	25	54	50	36	230.67
20	8	25	54	50	37	230.67
20	10	25	54	50	40	230.67
20	12	25	54	50	45	230.67
20	14	25	54	50	45	230.67
20	16	25	54	50	48	230.67
32	6	36	64	60	36	260.84
32	8	36	64	60	36	260.84
32	10	36	64	60	40	260.84
32	12	36	64	60	45	260.84
32	14	36	64	60	46	260.84
32	16	36	64	60	48	260.84
32	18	36	64	60	49	260.84
32	20	36	64	60	50	260.84
32	25	36	64	60	56	260.84

Stop screw for use with reducing sleeves in hydraulic chuck



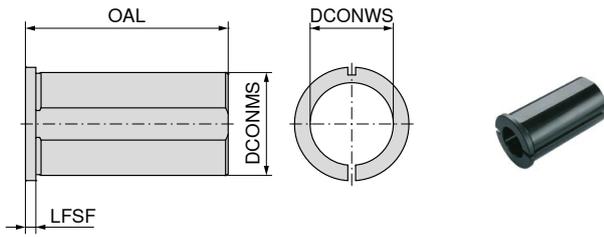
Adaptation for the use of stop screws for reducing sleeves

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

83 950 ...			
THOD	BD	DRVS	£
	mm	mm	Y7
M4x0,5x26	2.8	2	19.83
M8x1x19	5.8	2,5	19.83
M10x1x16	5.8	3	19.83
M16x1x16	11.7	5	19.83

Slotted reduction sleeves

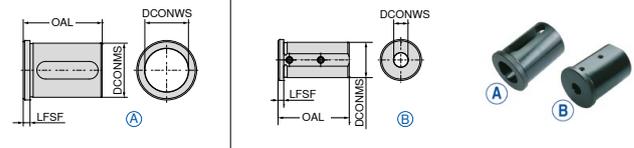
- ▲ For cylindrical and other tool holders
- ▲ For tools with cylindrical shank



				83 271 ...	
DCONMS	DCONWS	OAL	LFSF	£	
mm	mm	mm	mm	Y8	
20	6	30	4	102.92	206
20	8	30	4	81.03	208
20	10	30	4	81.03	210
20	12	30	4	81.03	212
20	15	30	4	81.03	215
20	16	30	4	81.03	216
25	6	40	4	115.74	256
25	8	40	4	86.35	258
25	10	40	4	86.35	260
25	12	40	4	86.35	262
25	15	40	4	92.23	265
25	16	40	4	86.35	266
25	20	40	4	86.35	270
32	6	50	4	111.78	326
32	8	50	4	86.35	328
32	10	50	4	86.35	330
32	12	50	4	86.35	332
32	15	50	4	86.35	335
32	16	50	4	86.35	336
32	20	50	4	86.35	340
40	10	78	4	104.08	410
40	12	78	4	104.08	412
40	15	78	4	104.08	415
40	16	78	4	104.08	416
40	20	78	4	104.08	420
40	25	78	4	104.08	425
40	32	78	4	104.08	432
50	20	88	4	139.67	520
50	25	88	4	139.67	525
50	32	88	4	139.67	532
50	40	88	4	139.67	540

Reduction sleeves for direct clamping

- ▲ For tools with cylindrical shank



					83 272 ...	
DCONMS	DCONWS	OAL	LFSF	Fig.	£	
mm	mm	mm	mm		Y8	
25	6	50	4	B	138.36	256
25	8	50	4	B	105.50	258
25	10	50	4	B	105.50	260
25	12	50	4	B	105.50	262
25	14	50	4	A	97.17	264
25	16	50	4	A	105.50	266
25	20	50	4	A	105.50	270
32	6	58	5	B	142.77	326
32	8	58	5	B	142.77	328
32	10	58	5	B	108.49	330
32	12	58	5	B	108.49	332
32	16	58	5	A	108.49	336
32	20	58	5	A	108.49	340
32	25	58	5	A	108.49	345
40	8	58	5	B	173.45	408
40	10	58	5	B	142.77	410
40	12	58	5	B	142.77	412
40	16	58	5	A	142.77	416
40	20	58	5	A	142.77	420
40	25	58	5	A	142.77	425
40	32	58	5	A	142.77	432
50	12	75	5	B	161.07	512
50	16	75	5	A	161.07	516
50	20	75	5	A	161.07	520
50	25	75	5	A	161.07	525
50	32	75	5	A	161.07	532
50	40	75	5	A	161.07	540

Taper wiper

▲ Version made from hard wood with suede inserts



Adapter	83 715 ...	
	£	
	Y8	
MK 1	11.75	001
MK 2	14.24	002
MK 3	18.31	003
MK 4	22.53	004
MK 5	32.11	005
HSK 100	123.64	100
HSK 32	77.65	320
HSK 40	84.36	400
HSK 50	85.61	500
HSK 63	81.28	630
HSK 80	129.20	800
SK 30	21.53	130
SK 40	25.48	140
SK 50	33.15	150

Assembly device for ISO adapters

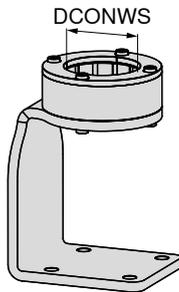
▲ Aluminium



Adapter	80 720 ...	
	£	
	Y7	
SK 30	209.49	030
SK 40	209.49	040
SK 50	348.50	050

Assembly fixture for tool holders

- ▲ gripping by roller
- ▲ secure clamping
- ▲ quick assembly, no additional clamping necessary



Holder Type	DCONWS mm	80 722 ...	
		£	
HSK 32, PSC 32	32.0	302.42	032
HSK 40, PSC 40	40.0	302.42	040
MAS-BT 30	46.0	265.56	046
ISO 7388-1 / DIN 2080 - SK 30, HSK 50, PSC 50	50.0	265.56	050
ISO 7388-1 / DIN 2080 - SK 40, HSK 63, PSC 63, MAS-BT 40, ANSI-CAT 40	63.0	265.56	063
ISO 7388-1 - SK 50	97.5	528.47	097
HSK 100, MAS-BT 50, ANSI-CAT 50	100.0	528.47	100

 Safety Note: The clamping devices must be free of oil and grease to avoid slipping!

ER standard lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	30	80	56.75	001	76.42	011
430E (ER25)	2 - 16	40	90	63.06	003	85.18	013
470E (ER32)	2 - 20	50	180	69.36	005	91.08	015
472E (ER40)	3 - 26	63	200	100.91	007	124.56	017

Mini lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
4004E (ER08)	1 - 5	10	5 - 8	95.25	040		
4008E (ER11)	1 - 7	16	10	79.26	041		
4008E (ER11)	∅ 3,0	16	10	164.90	042 ¹⁾		
4008E (ER11)	∅ 4,0	16	10	164.90	043 ¹⁾		
4008E (ER11)	∅ 5,0	16	10	164.90	044 ¹⁾		
4008E (ER11)	∅ 6,0	16	10	164.90	045 ¹⁾		
4008E (ER11)	∅ 7,0	16	10	164.90	046 ¹⁾		
426E (ER16)	1 - 10	22	30	63.32	034		
426E (ER16)	1 - 10	22	28			77.19	035

1) directly sealed

OZ standard lock nut for precision collet chucks – Centro-P

▲ can be used without sealing ring



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
462E (OZ)	2 - 25	50	200	71.45	009		
462E (OZ)	2 - 25	50	140			75.33	020

Collet removal aid for Mini lock nuts for precision collet chucks – Centro-P



for collet	84 950 ...	
	£ Y8	
4004E (ER08)	47.40	070
4008E (ER11)	66.68	072

Tapered lock nut for precision collet chucks – Centro-P



for seals

for collet	DCONWS mm	DLN mm	TQX Nm	84 950 ...		84 950 ...	
				£ Y8		£ Y8	
426E (ER16)	1 - 10	24	80	79.26	031	93.82	033

Roll key

- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



		84 950 ...	
for lock nut	DLN mm	£ Y8	
4004E / ER08 CP mini	10	280.07	050
4008E / ER 11 CP mini / mini	16	129.11	080 1)
426E / ER 16 CP / ER 16 mini	22	115.00	026
426E / ER 16 CP / CP mini	24	129.11	082 2)
426E / ER 16 CP	30	115.00	027
426E / ER 16 STD	32	115.00	028
428E / ER 20 STD	35	115.00	029
430E / ER 25 CP	40	134.81	054
430E / ER 25 STD	42	126.81	055
470E / ER 32 CP + STD / OZ 462E CP	50	126.39	056
470E / ER 32 HDC	53	153.62	30200
472E / ER 40 CP + STD	63	143.96	057

- 1) Special key for mini lock nuts
- 2) Key for tapered lock nuts / Special key for mini lock nuts

Torque key



		84 435 ...	
TQX Nm	Square mm	£ Y8	
5 - 30	9 x 12	237.89	030
10 - 80	9 x 12	281.48	080
20 - 200	14 x 18	287.45	200

Additional roll key device for torque key

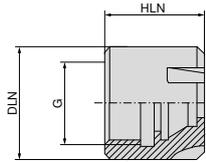
- ▲ Version CP = for Centro-P lock nuts
- ▲ Version STD = for standard lock nuts
- ▲ Version HDC = for HDC lock nuts



		84 950 ...			
for lock nut	DLN mm	TQX Nm	Square mm	£ Y8	
4008E / ER 11 CP	16	5 - 30	9 x 12	129.14	060 1)
426E / ER 16 CP / ER 16 mini	22	5 - 30	9 x 12	115.00	170
426E / ER 16 CP	24	10 - 80	9 x 12	129.14	061 1)
426E / ER 16 CP	30	20 - 200	14 x 18	115.00	171
426E / ER 16 STD	32	20 - 200	14 x 18	115.00	172
426E / ER 20 STD	35	20 - 200	14 x 18	115.00	173
430E / ER 25 CP	40	20 - 200	14 x 18	129.14	065
430E / ER 25 STD	42	20 - 200	14 x 18	129.14	066
470E / ER 32 CP + STD / OZ 462E CP	50	20 - 200	14 x 18	129.14	067
470E / ER 32 HDC	53	20 - 200	14 x 18	153.62	30300
472E / ER 40 CP + STD	63	20 - 200	14 x 18	129.14	068

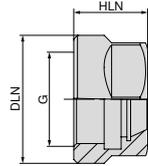
- 1) for mini and tapered lock nuts

Mini ER lock nut



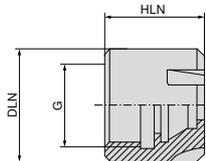
					62 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ W7	
4004E (ER08)	M10x0,75	12	11.0	8	58.70	067
4008E (ER11)	M13x0,75	16	12.0	18	52.73	065
426E (ER16)	M19x1	22	18.0	28	35.07	066
428E (ER20)	M24x1	28	19.5	35	58.40	068
430E (ER25)	M30x1	35	21.0	40	58.40	069

ER Lock nut



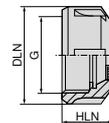
					62 950 ...	
for collet	THSZMS	DRVS mm	DLN mm	HLN mm	£ W7	
426E (ER16)	M22x1,5	25	28	18.0	26.65	044
428E (ER20)	M25x1,5	30	34	19.5	21.49	045

Mini ER lock nut for sealing rings



					83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ Y8	
426E (ER16-DS)	M19x1	22	22.0	28	84.36	058
428E (ER20-DS)	M24x1	28	23.2	35	90.13	059
430E (ER25-DS)	M30x1	35	24.7	40	95.01	060

ER Lock nut

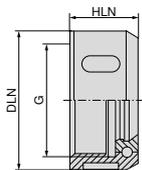


for seals

					62 950 ...		83 950 ...	
for collet	THSZMS	DLN mm	HLN mm	£ W7		£ Y8		
426E (ER16)	M22x1,5	32	17.0	21.20	054			
426E (ER16)	M22x1,5	32	22.0			68.61	054	
428E (ER20)	M25x1,5	35	23.2			77.94	053	
430E (ER25)	M32x1,5	42	20.0	22.08	055			
430E (ER25)	M32x1,5	42	24.7			79.92	055	
470E (ER32)	M40x1,5	50	22.3	22.64	056			
470E (ER32)	M40x1,5	50	27.0			85.48	056	
472E (ER40)	M50x1,5	63	25.3	23.45	057			
472E (ER40)	M50x1,5	63	30.7			102.87	057	

OZ lock nut Form B + C

▲ with ball bearings



					62 950 ...	
for collet	THSZMS	DLN mm	HLN mm	TQX Nm	£ W7	
415E / 421E (OZ)	M33x1,5	43	24.0	85	37.10	050
459E / 462E (OZ)	M48x2	60	30.0	140	38.72	051
460E / 467E (OZ)	M60x2,5	72	33.5	170	63.47	052

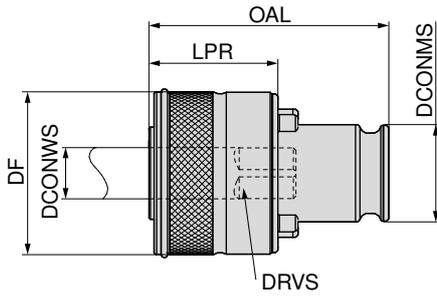
Y clamping key



			83 357 ...	
for lock nut			£ Y8	
ER 16			23.31	116
ER 20			33.81	12000
ER 25			23.31	125
ER 32			33.95	132
ER 40			38.47	140

Quick change tap adapter with overload clutch

- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps

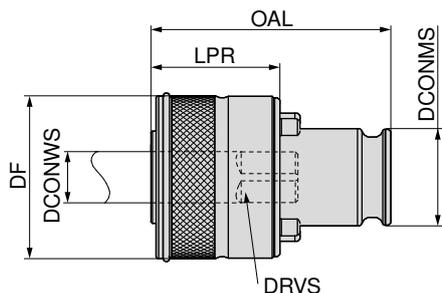


83 612 ...

SZID	DCONWS	DRVS	DIN 371	DIN 374 / 376	DF	DCONMS	OAL	LPR	£	
	mm	mm			mm	mm	mm	mm	Y8	
01	2.8	2.1	M2		33	19	46.5	25	105.23	100
01	2.8	2.1	M2,5		33	19	46.5	25	105.23	101
01	3.5	2.7	M3		33	19	46.5	25	105.23	102
01	4.0	3.0	M3,5		33	19	46.5	25	105.23	103
01	4.5	3.4	M4		33	19	46.5	25	105.23	104
01	6.0	4.9	M4,5		33	19	46.5	25	105.23	105
01	6.0	4.9	M5		33	19	46.5	25	105.23	106
01	4.5	3.4		M6	33	19	46.5	25	105.23	107
01	6.0	4.9	M6		33	19	46.5	25	105.23	108
01	5.5	4.3		M7	33	19	46.5	25	105.23	109
01	7.0	5.5	M7		33	19	46.5	25	105.23	110
01	6.0	4.9		M8	33	19	46.5	25	105.23	111
01	8.0	6.2	M8		33	19	46.5	25	105.23	112
01	9.0	7.0	M9		33	19	46.5	25	105.23	113
01	7.0	5.5		M10	33	19	46.5	25	105.23	114
01	10.0	8.0	M10		33	19	46.5	25	105.23	115
01	8.0	6.2		M11	33	19	46.5	25	105.23	116
01	9.0	7.0		M12	33	19	46.5	25	105.23	117
02	6.0	4.9	M4,5 - M6		50	31	69.0	34	137.75	200
02	6.0	4.9	M7 (DIN 352)		50	31	69.0	34	137.75	201
02	7.0	5.5	M7		50	31	69.0	34	137.75	202
02	6.0	4.9		M8	50	31	69.0	34	137.75	203
02	8.0	6.2	M8		50	31	69.0	34	137.75	204
02	9.0	7.0	M9		50	31	69.0	34	137.75	205
02	7.0	5.5		M10	50	31	69.0	34	137.75	206
02	10.0	8.0	M10		50	31	69.0	34	137.75	207
02	8.0	6.2		M11	50	31	69.0	34	137.75	208
02	9.0	7.0		M12	50	31	69.0	34	137.75	209
02	11.0	9.0		M14	50	31	69.0	34	137.75	210
02	12.0	9.0		M16	50	31	69.0	34	137.75	211
02	14.0	11.0		M18	50	31	69.0	34	137.75	212
02	16.0	12.0		M20	50	31	69.0	34	137.75	213

Quick change tap adapter with overload clutch, with through coolant

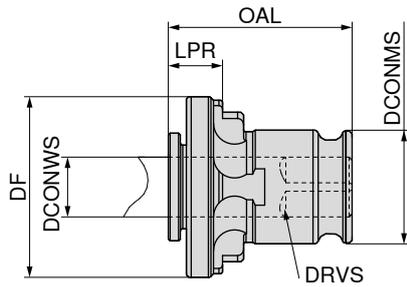
- ▲ Adapter with adjustable overload clutch
- ▲ for use with taps



SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	83 616 ...	
									£	Y8
01	3.5	2.7	M3	M4,5 - M5	33	19	46.5	25	175.27	100
01	4.5	3.4	M4	M6	33	19	46.5	25	175.27	102
01	5.5	4.3		M7	33	19	46.5	25	175.27	104
01	6.0	4.9	M4,5 - M6	M8	33	19	46.5	25	175.27	106
01	7.0	5.5	M7	M10	33	19	46.5	25	175.27	108
01	8.0	6.2	M8	M11	33	19	46.5	25	175.27	110
01	9.0	7.0	M9	M12	33	19	46.5	25	175.27	112
01	10.0	8.0	M10		33	19	46.5	25	175.27	114
01	11.0	9.0		M14	33	19	46.5	25	175.27	116
02	6.0	4.9	M4,5 - M6	M8	50	31	69.0	34	212.77	200
02	7.0	5.5	M7	M10	50	31	69.0	34	212.77	202
02	8.0	6.2	M8	M11	50	31	69.0	34	212.77	204
02	9.0	7.0	M9	M12	50	31	69.0	34	212.77	206
02	10.0	8.0	M10		50	31	69.0	34	212.77	208
02	11.0	9.0		M14	50	31	69.0	34	212.77	210
02	12.0	9.0	M12	M16	50	31	69.0	34	212.77	212
02	14.0	11.0		M18	50	31	69.0	34	212.77	214
02	16.0	12.0		M20	50	31	69.0	34	212.77	216

Quick change tap adapter

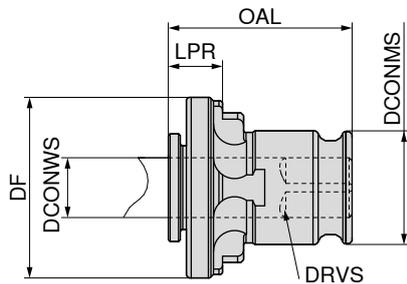
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	83 610 ...	
									£	
01	3.5	2.7	M3		30	19	28.5	7	40.28	100
01	4.5	3.4	M4		30	19	28.5	7	40.28	101
01	4.0	3.0	M3,5		30	19	28.5	7	40.28	102
01	2.8	2.1	M2 - M2,6		30	19	28.5	7	40.28	103
01	5.5	4.3		M7	30	19	28.5	7	40.28	104
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	7	40.28	105
01	7.0	5.5	M7	M10	30	19	28.5	7	40.28	106
01	8.0	6.2	M8	M11	30	19	28.5	7	40.28	107
01	9.0	7.0	M9	M12	30	19	28.5	7	40.28	108
01	10.0	8.0	M10		30	19	28.5	7	40.28	109
01	11.0	9.0		M14	30	19	28.5	7	40.28	110
02	6.0	4.9	M4,5 - M6		46	31	46.0	11	55.39	200
02	7.0	5.5	M7		46	31	46.0	11	55.39	201
02	8.0	6.2	M8		46	31	46.0	11	55.39	202
02	9.0	7.0	M9		46	31	46.0	11	55.39	203
02	10.0	8.0	M10		46	31	46.0	11	55.39	204
02	11.0	9.0		M14	46	31	46.0	11	55.39	205
02	12.0	9.0		M16	46	31	46.0	11	55.39	206
02	14.0	11.0		M18	46	31	46.0	11	55.39	207
02	16.0	12.0		M20	46	31	46.0	11	55.39	208
02	18.0	14.5		M22 - M24	46	31	46.0	11	55.39	209

Quick change tap adapter, with through coolant

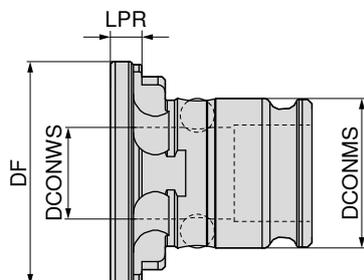
- ▲ Normal version without overload clutch
- ▲ For mounting taps
- ▲ For right-hand and left-hand threads



SZID	DCONWS mm	DRVS mm	DIN 371	DIN 374 / 376	DF mm	DCONMS mm	OAL mm	LPR mm	83 614 ...	
									£	Y8
01	3.5	2.7		M4,5 - M5	30	19	28.5	7	80.39	100
01	4.5	3.4	M4	M6	30	19	28.5	7	80.39	102
01	5.5	4.3		M7	30	19	28.5	7	80.39	104
01	6.0	4.9	M4,5 - M6	M8	30	19	28.5	7	80.39	106
01	7.0	5.5		M7	30	19	28.5	7	80.39	108
01	8.0	6.2	M8	M11	30	19	28.5	7	80.39	110
01	9.0	7.0	M9	M12	30	19	28.5	7	80.39	112
01	10.0	8.0	M10		30	19	28.5	7	80.39	114
02	6.0	4.9	M4,5 - M6	M8	46	31	46.0	11	105.23	200
02	7.0	5.5	M7	M10	46	31	46.0	11	105.23	202
02	8.0	6.2	M8	M11	46	31	46.0	11	105.23	204
02	9.0	7.0	M9	M12	46	31	46.0	11	105.23	206
02	10.0	8.0	M10		46	31	46.0	11	105.23	208
02	11.0	9.0		M14	46	31	46.0	11	105.23	210
02	12.0	9.0	M12	M16	46	31	46.0	11	105.23	212
02	14.0	11.0		M18	46	31	46.0	11	105.23	214
02	16.0	12.0		M20	46	31	46.0	11	105.23	216

Reducing adapter for quick change adapters

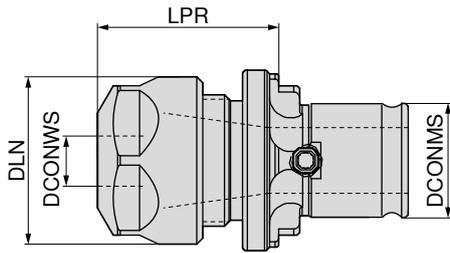
- ▲ Reducing adapter for reducing size O2 to O1. In this way the clamping ranges can be extended to smaller sizes.



SZID	DF mm	DCONMS mm	DCONWS mm	LPR mm	83 624 ...	
					£	Y8
02	46	31	19	8.5	124.01	200

Quick change tap adapters

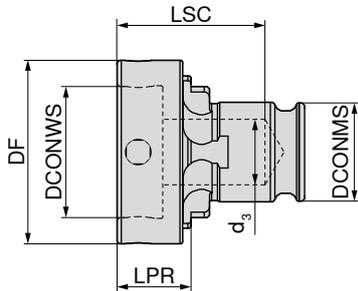
▲ Adapters for collets ER 16 / ER 25



SZID	DCONWS mm	DLN mm	DCONMS mm	LPR mm	for collet	83 618 ...	
						£ Y8	
01	1 - 10	28	19	29.5	ER 16	170.23	010
02	2 - 16	42	31	38.5	ER 25	240.06	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 ...	
									£ Y8	
01	16 x 5	M1 - M4	25	19	16	9	12.5	23	172.66	116
01	20 x 5	M3 - M4	30	19	20	9	12.5	23	231.13	120
01	20 x 7	M4,5 - M6	30	19	20	11	12.5	25	160.93	121
01	25 x 9	M7 - M9	35	19	25	14	12.5	28	231.13	125
01	30 x 11	M10 - M11	40	19	30	16	12.5	30	231.13	130
01	38 x 10	M12x1 - M15x1,5	48	19	38	15	14.2	29	231.13	138
01	38 x 14	M12 - M14	48	19	38	19	14.2	33	160.93	139
02	20 x 5	M3 - M4	30	31	20	22	15.0	57	242.67	220
02	20 x 7	M4,5 - M6	30	31	20	22	15.0	57	226.04	221
02	25 x 9	M7 - M9	35	31	35	22	15.0	57	226.04	225
02	30 x 11	M10 - M11	40	31	30	22	22.0	57	226.04	230
02	38 x 10	M12x1 - M15x1,5	48	31	38	22	22.0	57	242.67	238
02	38 x 14	M12 - M14	48	31	38	25	22.0	60	226.04	239
02	45 x 14	M16x1 - M20x2	57	31	45	29	22.0	64	242.67	245
02	45 x 14	M16 - M20	57	31	45	29	22.0	64	226.04	246

MultiChange – Spanner



DRVS mm	TQX Nm	84 357 ...	
		£	
		Y8	
6	5	11.42	006
8	12,5	11.76	008
10	15	13.22	010
13	20	14.30	013
16	25	19.26	016
19	25	28.46	019 ¹⁾
21	25	31.14	021 ¹⁾
24	25	32.81	024 ¹⁾

1) only for MultiChange reamers

MultiChange – Spanner Head



DRVS mm	TQX Nm	Square mm	84 358 ...	
			£	
			Y8	
6	5	9 x 12	82.44	006
8	12,5	9 x 12	82.44	008
10	15	9 x 12	82.44	010
13	20	9 x 12	82.44	013
16	25	9 x 12	82.44	016
19	25	9 x 12	132.24	190
19	25	14 x 18	166.22	019 ¹⁾
21	25	9 x 12	184.89	210
21	25	14 x 18	202.55	021 ¹⁾
24	25	9 x 12	184.89	240
24	25	14 x 18	202.55	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 ...	
			£ Y7	
T05	35	0,5	6.36	082
T06	35	0,9	6.45	083
T07	35	1,7	6.45	084
T08	40	2,6	6.45	085
T09	40	3,4	6.98	086
T10	40	4,5	6.98	087
T15	45	7,7	7.34	088
T20	45	12,7	8.03	089

TORX® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06, T07, T08, T09, T10, T15, T20	60.48	090

TORX PLUS® Screwdriver



Size	LB mm	TQX Nm	80 950 ...	
			£ Y7	
T05-IP	35	0,5	8.05	057
T06-IP	35	0,9	8.05	058
T07-IP	35	1,7	7.88	059
T08-IP	40	2,6	8.72	060
T09-IP	40	3,4	8.55	061
T10-IP	40	4,5	8.55	062
T15-IP	45	7,7	9.03	063
T20-IP	45	12,7	10.04	064

TORX PLUS® Screwdriver sets



Size	80 950 ...	
	£ Y7	
T06IP, T07IP, T08IP, T09IP, T10IP, T15IP, T20IP	94.25	091

Allen key with cross handle



DRVS mm	TQX Nm	80 397 ...	
		£ Y7	
2	1,9	5.02	020
2,5	3,8	5.21	025
3	6,6	5.02	030
4	16	5.02	040
5	30	6.39	050
6	52	6.28	060
8	120	7.80	080
10	220	13.01	100

Allen keys with cross handle – set

▲ 7-piece Allen key set in workbench stand



Size	80 397 ...	
	£ Y7	
SW2, SW2,5, SW3, SW4, SW5, SW6, SW8	75.92	99900

TORX® Screwdriver



		80 950 ...	
Size	LB mm	£	
		Y7	
T06	60	8.79	100
T07	60	8.79	101
T08	60	8.79	102
T09	60	9.46	103
T10	80	9.54	104
T15	80	9.83	105
T20	100	10.09	106
T25	100	10.99	107
T30	115	11.70	092

TORX PLUS® Screwdriver



		80 950 ...	
Size	LB mm	£	
		Y7	
T06-IP	60	11.21	116
T07-IP	60	10.99	117
T08-IP	60	9.16	039
T09-IP	60	11.88	118
T10-IP	80	12.32	119
T15-IP	80	12.65	120
T20-IP	100	13.55	121
T25-IP	100	14.16	122

TORX® MagicSpring®



		80 950 ...	
Size	LB mm	£	
		Y7	
MS T06	60	11.71	108
MS T07	60	10.82	109
MS T08	60	10.82	110
MS T09	60	12.32	111
MS T10	80	12.65	112
MS T15	80	12.87	113
MS T20	100	13.77	114
MS T25	100	14.16	115
MS T30	100	14.86	131

TORX PLUS® MagicSpring®



		80 950 ...	
Size	LB mm	£	
		Y7	
MS T06-IP	60	14.36	123
MS T07-IP	60	14.16	124
MS T08-IP	60	14.16	125
MS T09-IP	60	15.51	126
MS T10-IP	80	16.08	127
MS T15-IP	80	16.56	128
MS T20-IP	100	17.39	129
MS T25-IP	100	20.07	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
80 021 ...

TQX Nm	£	Y7	
0,4	97.92	00400	
0,5	97.92	00500	
0,6	123.54	006	
0,7	108.49	007	
0,8	110.93	008	
0,9	97.92	00900	
1	110.93	010	
1,1	97.04	01100	
1,2	122.33	012	
1,5	97.04	01500	
1,6	122.33	016	
1,8	122.33	018	
2	122.33	020	
2,5	97.04	02500	
3	129.31	030	
3,2	129.31	032	
3,8	102.50	03800	
4	129.31	040	
5	129.31	050	
5,5	145.10	055	
6	145.10	060	
7,2	114.50	07200	

TorqueVario®-S

- ▲ Patented handle

Scope of supply:

incl. Torque-Setter setting tool



80 950 ...

TQX Nm	£	Y7	
0,4 - 1,0	172.38	046	
0,5 - 2,0	171.76	191	
0,8 - 5,0	162.00	192	
2,0 - 7,0	192.38	193	

Universal holder for Bits

- ▲ 162 mm long



80 950 ...

for	£	Y7	
DIN3126-C/E 6,3-1/4"	10.63	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
80 392 ...

TQX Nm	DRVS mm	£	Y7	
0,5	4	77.74	00500	
0,6	4	77.74	00600	
0,9	4	77.74	00900	
1,1	4	77.74	01100	
1,2	4	77.74	01200	
1,4	4	77.74	01400	
2,0	4	77.74	02000	
2,5	4	77.74	02500	
3,0	4	77.74	03000	
3,8	4	77.74	03800	
4,0	4	77.74	04000	

Interchangeable blade for hex drive and micro precision chucks



Size	TQX Nm
SW1,5	0,9
SW2	1,8
SW2,5	3,8
SW3	5,5
SW4	8,0

NEW		short 75 mm	long 175 mm
80 393 ...	80 950 ...		
£	£		
Y7	Y7		
6.34 01500	9.42 151		
6.34 02000	9.42 152		
6.34 02500	9.42 153		
6.34 03000	9.42 154		
6.34 04000	9.42 155		

Replaceable Blade for TORX®



		NEW	
		short 75 mm	long 175 mm
		80 394 ...	80 950 ...
Size	TQX Nm	£	£
		Y7	Y7
T05	0,4		7.62 048
T06	0,6	6.34 00600	7.02 031
T07	0,9	6.34 00700	7.02 032
T08	1,3	6.34 00800	7.02 033
T09	2,5	6.34 00900	7.02 034
T10	3,8	6.34 01000	7.02 035
T15	5,5	6.34 01500	7.02 036
T20	8,0	6.34 02000	7.02 037
T25	8,0	6.34 02500	7.02 038

Replaceable Blade for TORX PLUS®



		NEW	
		short 75 mm	long 175 mm
		80 395 ...	80 950 ...
Size	TQX Nm	£	£
		Y7	Y7
T05-IP	0,5		7.02 049
T06-IP	0,8	6.34 00600	7.02 050
T07-IP	1,3	6.34 00700	7.02 051
T08-IP	2,0	6.34 00800	7.02 043
T09-IP	3,0	6.34 00900	7.02 052
T10-IP	4,5	6.34 01000	7.02 053
T15-IP	6,6	6.34 01500	7.02 054
T20-IP	8,0	6.34 02000	7.02 055
T25-IP	8,0	6.34 02500	7.02 056



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® short bit (25 mm)

▲ DIN3126-C 6,3 - 1/4"



		80 950 ...	
Size	TQX Nm	£ Y7	
T06	0,9	1.54	015
T07	1,7	1.54	016
T08	2,6	1.54	017
T09	3,4	1.54	018
T10	4,5	1.54	019
T15	7,7	1.54	020
T20	12,7	1.54	021
T25	19	1.54	022
T30	37,4	1.30	093

TORX® long bit (50 mm)

▲ DIN3126-E 6,3 - 1/4"



		80 950 ...	
Size	TQX Nm	£ Y7	
T06	0,9	4.95	023
T07	1,7	4.95	024
T08	2,6	4.95	025
T09	3,4	4.95	026
T10	4,5	4.95	027
T15	7,7	4.95	028
T20	12,7	4.95	029
T25	19	4.95	030
T30	37,4	6.01	094

TORX PLUS® short bit (25 mm)

▲ DIN3126-C 6,3 - 1/4"



		80 950 ...	
Size	TQX Nm	£ Y7	
T05-IP	0,5	3.71	065
T06-IP	0,9	3.71	066
T07-IP	1,7	3.71	067
T08-IP	2,6	3.71	068
T09-IP	3,4	3.71	069
T10-IP	4,5	3.71	070
T15-IP	7,7	3.71	071
T20-IP	12,7	3.71	072
T25-IP	19	3.71	073

TORX PLUS® long bit (50 mm)

▲ DIN3126-E 6,3 - 1/4"



		80 950 ...	
Size	TQX Nm	£ Y7	
T05-IP	0,5	7.39	074
T06-IP	0,9	7.39	075
T07-IP	1,7	7.39	076
T08-IP	2,6	7.52	040
T09-IP	3,4	7.39	077
T10-IP	4,5	7.39	078
T15-IP	7,7	7.39	079
T20-IP	12,7	7.39	080
T25-IP	19	7.39	081

Bit – hexagonal



		80 398 ...	
		£ Y7	
SW1,5-50mm		6.43	01500
SW2,5-50mm		6.43	02500
SW2-50mm		6.43	02000
SW3,5-50mm		6.49	03500
SW3-50mm		5.84	03000
SW4,5-50mm		6.49	04500
SW4-50mm		4.79	04000
SW5-50mm		5.84	05000
SW6-50mm		4.79	06000
SW8-50mm		10.09	08000

TORX® Allen key



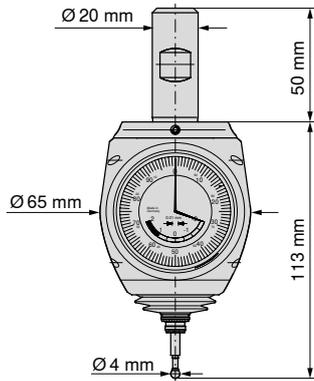
		80 951 ...	
Size	OAL mm	£ Y7	
T07-IP	44	7.77	00700
T08-IP	47	7.77	00800
T09-IP	51	7.77	00900
T10-IP	54	7.94	01000
T15-IP	58	8.02	01500
T20-IP	62	8.54	02000
T25-IP	67	8.98	02500
T27-IP	73	9.33	02700
T30-IP	79	10.06	03000
T40-IP	88	11.48	04000

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 ...

£

XX

331.07 100

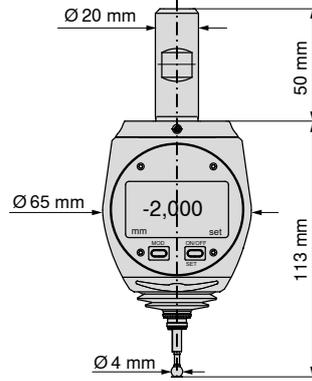
Universal-3D-Tester

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 ...

£

XX

753.43 100

Digital 3D Tester

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 ...

£

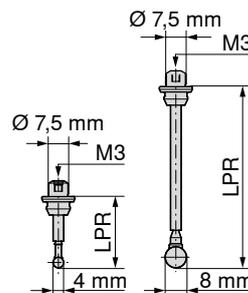
Y7

220.84 018

OAH
mm
100

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 ...

£

XX

25.98 102

55.35 104

LPR
mm

25

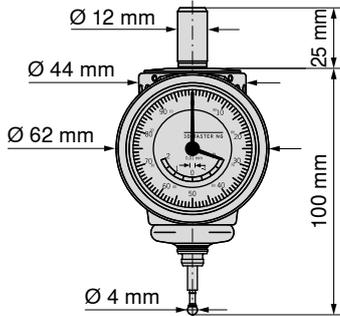
65

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 ...

£
XX
346.83 100

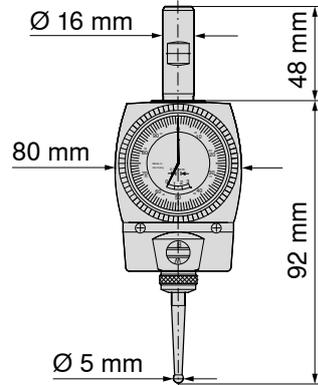
Universal 3D-Tester HQ

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 ...

£
XX
437.00 100

Centre finder

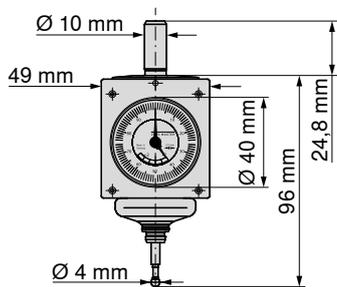
Range with probe tip Ø 5 mm holes
Ø 6-125 mm, shaft Ø 0-125 mm

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

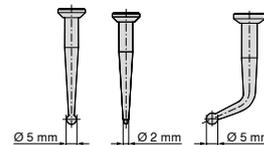


85 295 ...

£
XX
331.07 100

Universal 3D-Tester Mini

Stylii for Centre Finder



85 299 ...

£
XX
33.11 102
32.48 104
39.74 106

Straight stylus / Ball-Ø 2 mm
Straight stylus / Ball-Ø 5 mm
Curved stylus / Ball Ø 5 mm

Telescopic rod for Centre Finder



85 299 ...

DCONMS mm	OAL mm
6	478

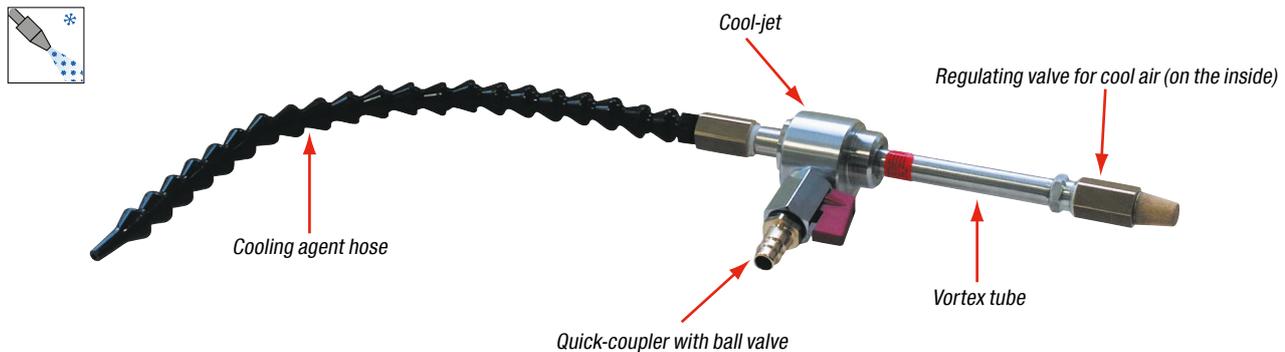
£
XX
13.00 111

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 prevent **chip jamming**.



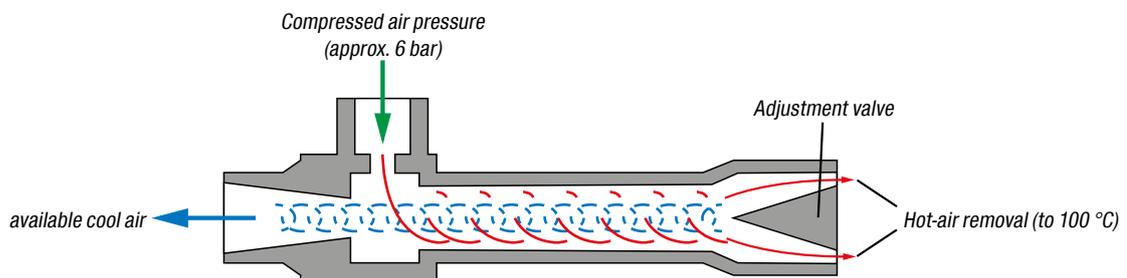
Cool-jet		81 900 ...	Accessories		81 900 ...
		£			£
3-7 bar air pressure, at -46 °C		Y7			Y7
		1,265.44	Magnetic plate Ø 80 mm without clamping arm		67.75
		100	Spare tube, length 300 mm		67.75
			Jet silencer (air filter)		14.23
			Clamping arm, length 75 mm		199.91
			Complete set (with magnetic set and clamping arm), weight 0,4 kg		263.82
					101
					104
					105
					106
					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



1 Utilizable air temperature measured at the effective discharge of the vortex tube (not the nozzle end)

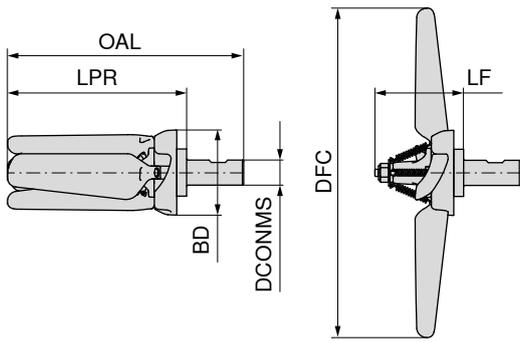
1  Air consumption at an inlet temperature of +21 °C and an inlet pressure of 6.9 bar: 7,08 l / sec. (25.5 m³ / h)

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

1 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

80 399 ...

£
Y7

450.19 02000

DCONMS	OAL	LPR	LF	DFC	BD	RPMX
mm	mm	mm	mm	mm	mm	1/min.
20	186.3	141.3	69.75	254	67.68	5000 - 8000

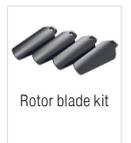


Rotor blade

80 399 ...

£
Y7

55.23 30100



Rotor blade kit

80 399 ...

£
Y7

213.44 30200

Spare parts
for Article no.
80 399 02000

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 | ▲ DIN1809 | ▲ Baruffaldi Toem | milling |
| ▲ Baruffaldi | ▲ DIN5480 | ▲ Bevel gear milling | ▲ BMT (bolt on) |
| ▲ Diplomatic | ▲ DIN5482 | ▲ Spline / tooth | |

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

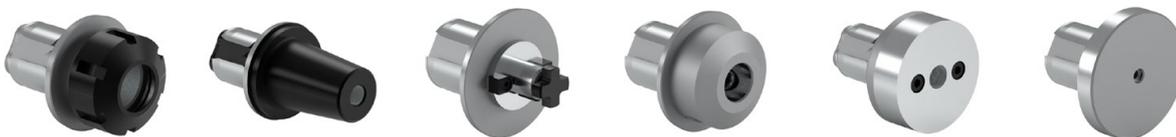
The face & taper contact interface ensures maximum concentricity. The torque is transmitted via a form-fitting polygon, which can transmit up to 200 Nm.

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



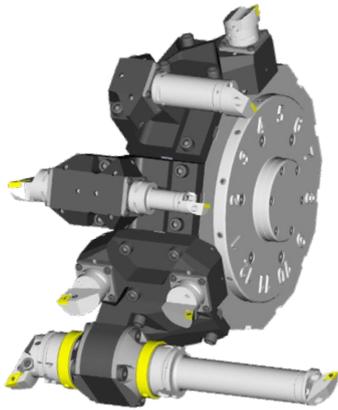
System Preci-Flex® – The stable solution for long tool life and high surface quality

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.



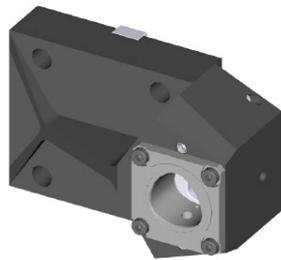
The program includes base holders for the collet sizes ER20, ER25, ER32, ER40 and ER50 and collet holders with male or female nut, adapters Weldon, Whistle Notch, shrink, boring bars, Shell mill arbors, hydraulic chucks, Test arbors and blanks. Also available for static VDI holders and rotating SK and HSK holders.

Quick-Change

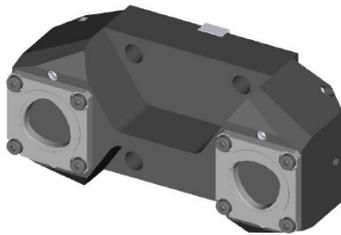


The tool holder range comprises both innovative and technologically proven solutions for all common CNC turning centres. We offer solutions that are perfectly tailored to the make of machine, regardless of whether the machine has a BMT, VDI or other connection type.

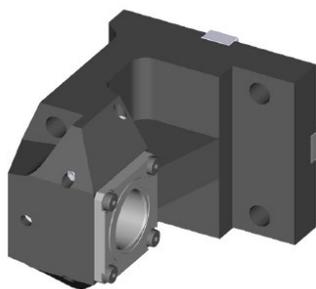
Every quick-change system has a standardised interface to DIN/ISO requirements and is available for HSK-T 40/63/100 and PSC 40/50/63 sizes. The tool change itself is carried out quickly and easily, minimising idle times and thus boosting productivity.



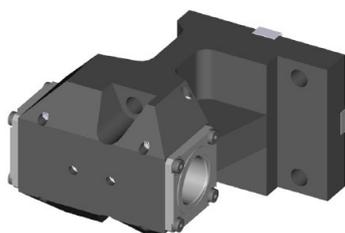
Tool holder single and straight



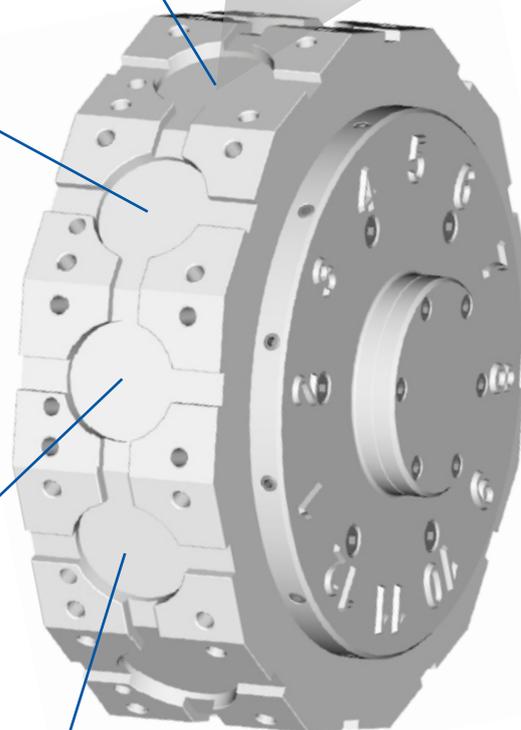
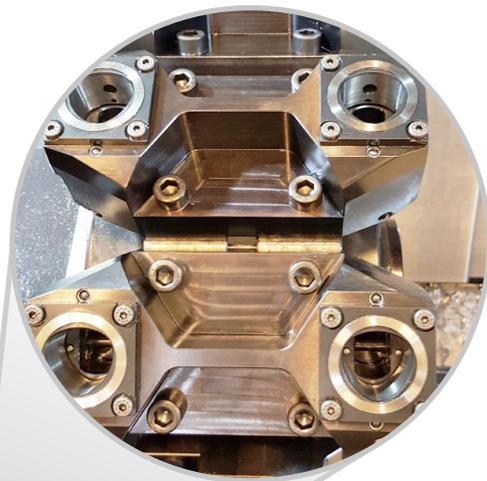
Tool holder double and straight



Single angle tool holder



Double angle tool holder



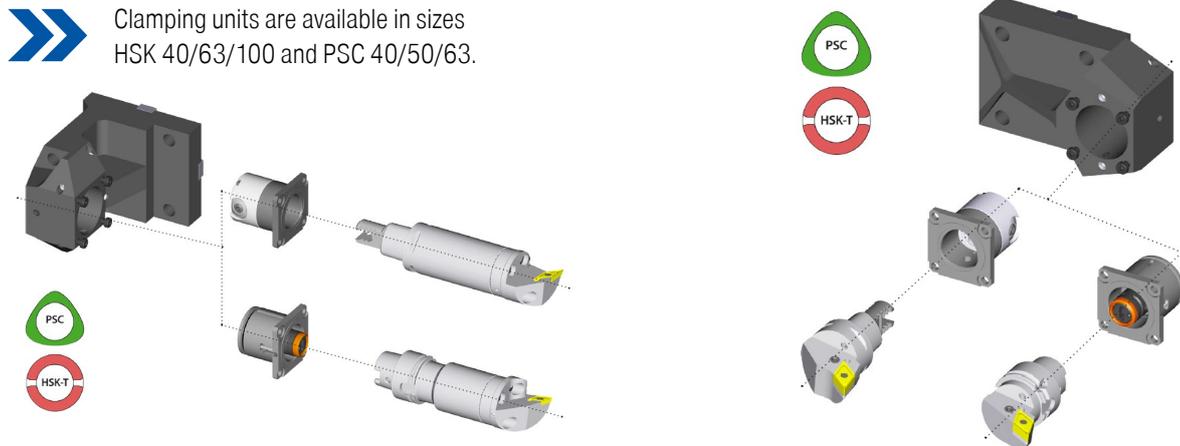
Revolverdisk BMT/VDI/...

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

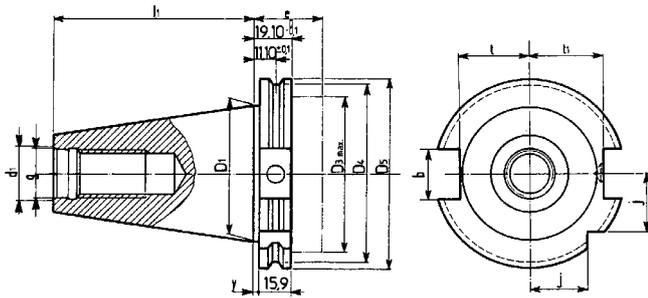
To make the enquiry process as easy as possible, please use our enquiry form to enter the most important machine data and information on the machining process.

Please fill in this form carefully and send it to us by email or fax. → cutting.tools/en/download-quickchange

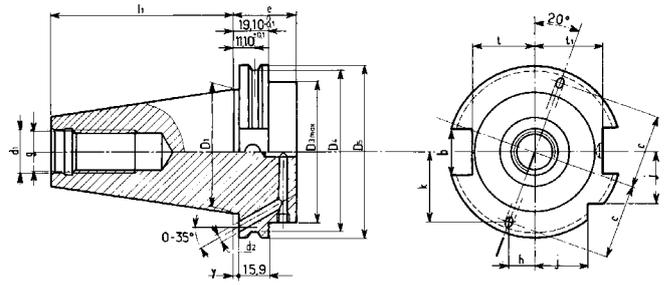
If you have any questions regarding the ordering process or the form itself, your CERATIZIT Technical Sales Engineer will be happy to help.

Technical data for steep taper tools

ISO 7388-1 – Form A

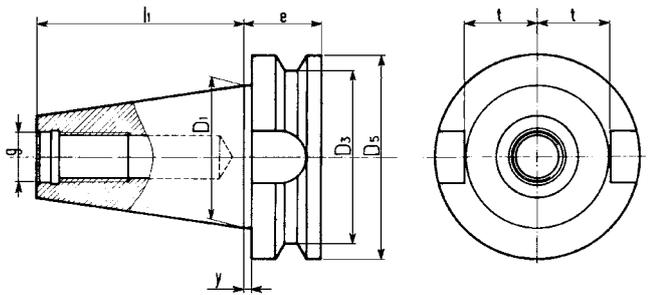


ISO 7388-1 – 871 Form B



	D ₁ mm	D _{3 max} mm	D ₄ mm	D ₅ mm	l _{1,0} ^{+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

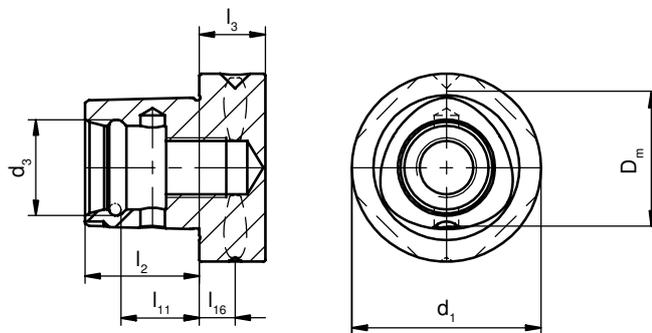


Maximum recommended rpm
for steep taper toolholders:

- 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

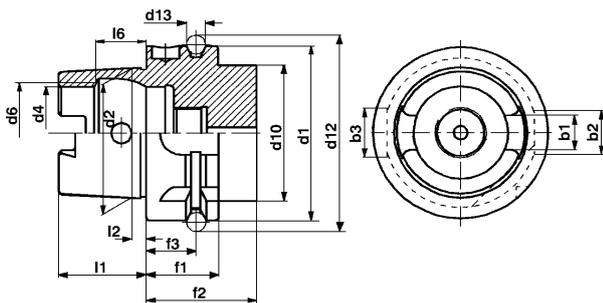
Technical Data for Polygon shank adapters



Shank size	d ₁ mm	d ₃ ^{+0,05} mm	l ₂ ^{+0,1} mm	l ₃ mm	l ₁₁ ^{+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 $\frac{1}{\text{min}}$.
- HSK-A 40 to 42.000 $\frac{1}{\text{min}}$.
- HSK-A 50 to 30.000 $\frac{1}{\text{min}}$.
- HSK-A 63 to 25.000 $\frac{1}{\text{min}}$.
- HSK-A 100 to 16.000 $\frac{1}{\text{min}}$.

	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

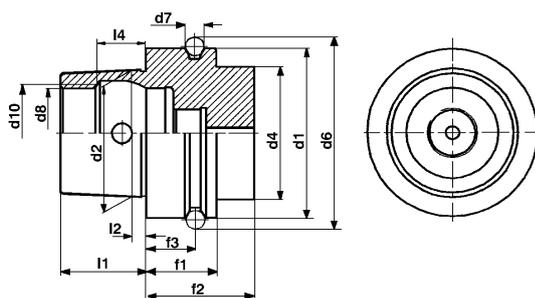
DIN 69893 Form A

- ▲ 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



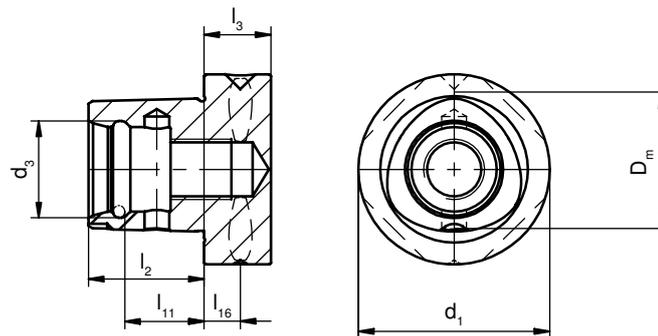
	d ₁ mm	d ₂ mm	d ₄ mm	d ₆ mm	d ₇ mm	d ₈ mm	d ₁₀ mm	f ₁ mm	f ₂ mm	f ₃ mm	l ₁ mm	l ₂ mm	l ₄ mm
HSK 40	40	30	34	45	4	21	23	20	35	16	20	4	11,42
HSK 50	50	38	42	59,3	7	26	29	26	42	18	25	5	14,13
HSK 63	63	48	53	72,3	7	34	37	26	42	18	32	6,3	18,13

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 $\pm 0,05$	l_2 $\pm 0,1$	l_3	l_{11} $\pm 0,1$	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

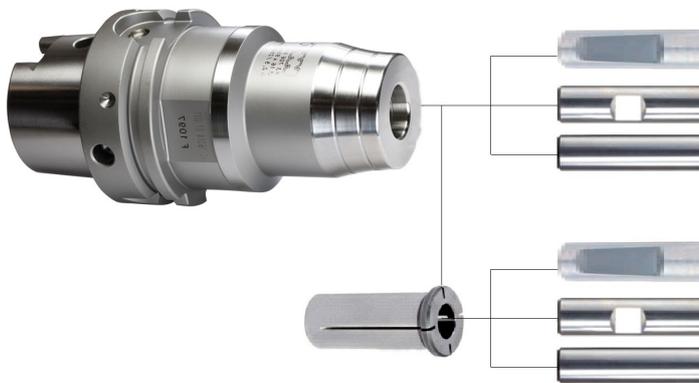
High pressure clamping with optimum damping properties was the aim in the development of the high-pressure chuck. Here, all applications over a continuous operation test were covered over thousands of machining operations. In addition, extensive continuous pressure and positive pressure tests, and vibration 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



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.

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



The main applications for Milling Chuck

- ▲ HPC Milling
- ▲ HSC Milling
- ▲ Hard Machining
- ▲ Drilling
- ▲ Reaming

Key Benefits

- ▲ Increased Process Security
- ▲ Longer Tool Life
- ▲ Improved Surface Quality
- ▲ Extended spindle life

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

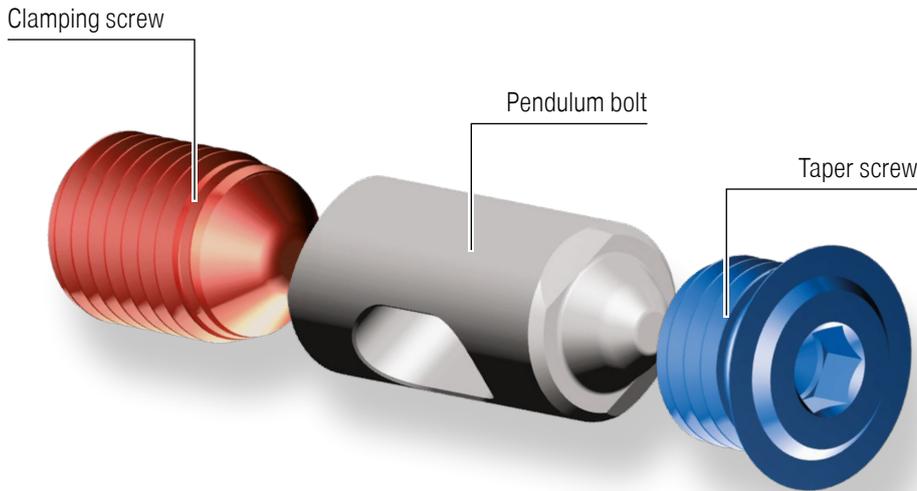
Shank type & size	3	4	5	6	8	10	12	14	16	18	20	25	32	mm
Minimum clamping depth	12	16	20	26	26	31	37	37	40	40	42	48	52	mm
permissible torque moment	4	11	17	24	45	82	145	190	200	290	450	530	700	Nm



Technical information – ABS

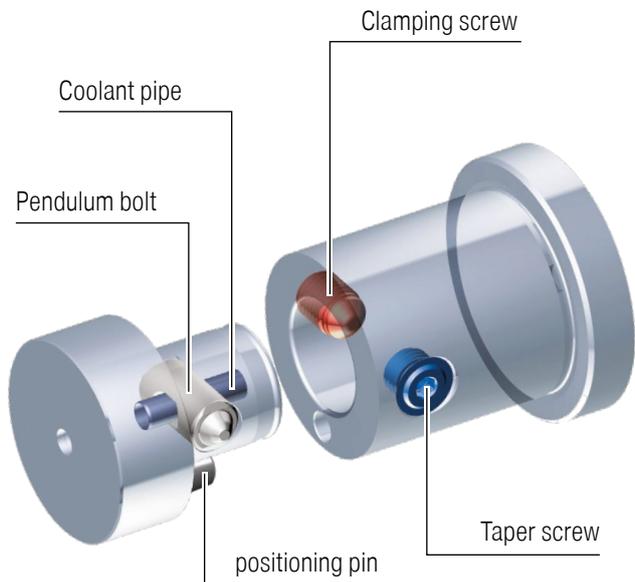
Even better connected

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. Adaptors also have a considerable impact on the quality of the machining result. They also contribute to the cost-effectiveness of the machining process.

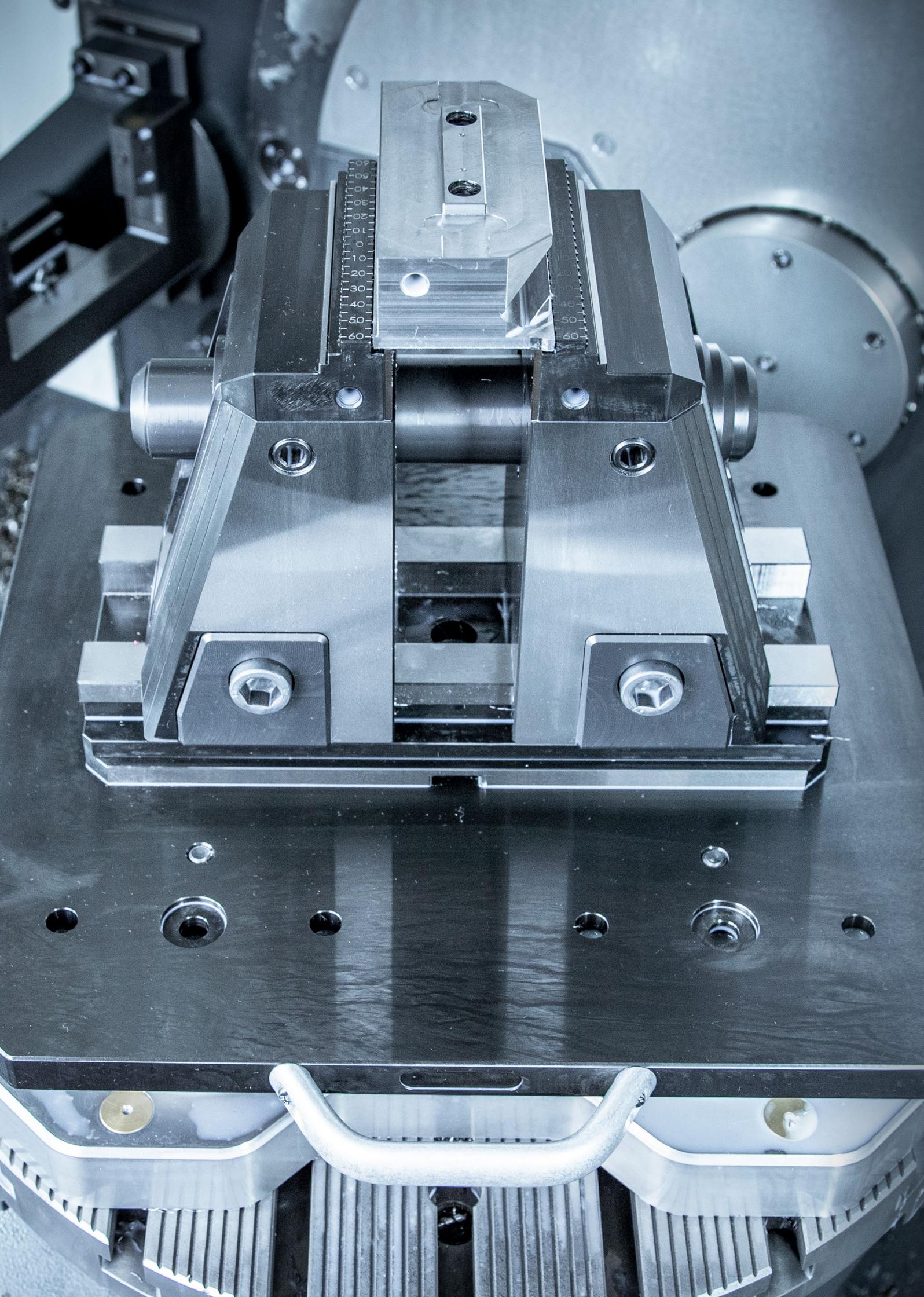


Advantages

- ▲ 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

6 Taps and thread formers

Threading

7 Circular and Thread Milling

8 Thread turning

9 Turning Tools

Turning

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

17

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

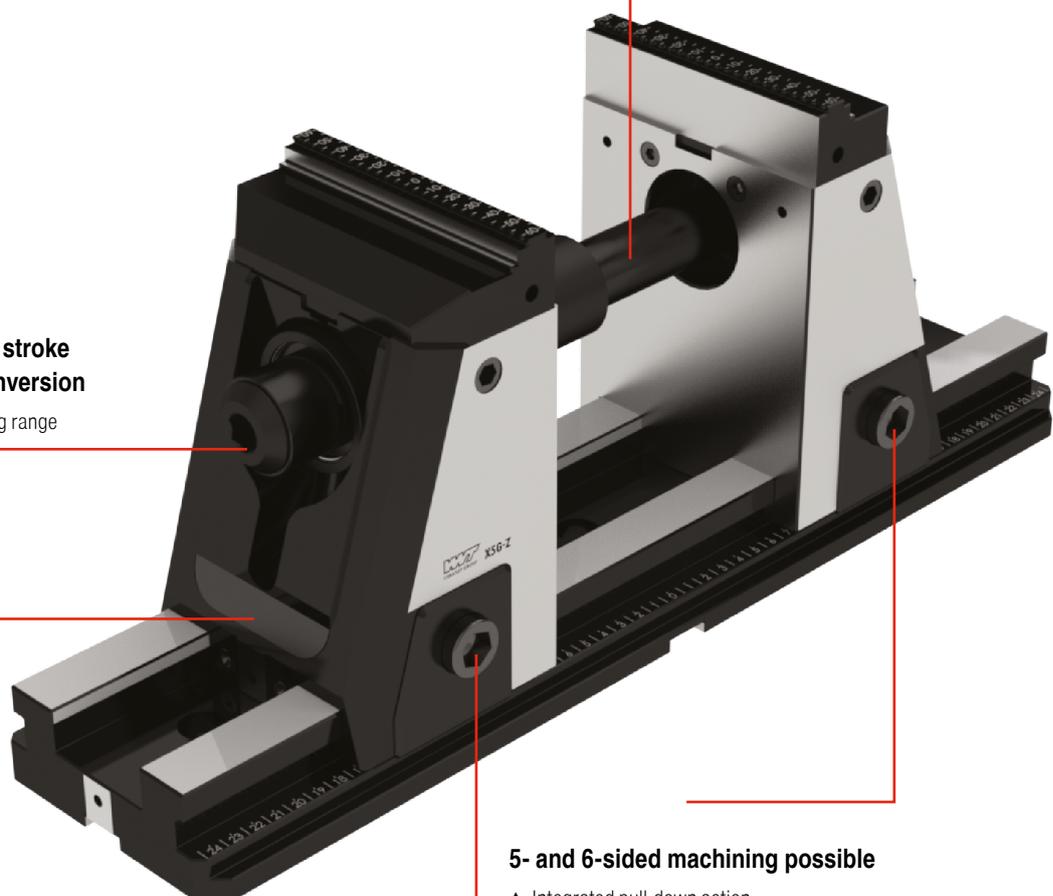
- ▲ Quick adjustment of clamping range

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



➤ Automation made easy



A variety of clamping towers can be found in our online shop at cuttingtools.ceratizit.com

Toolfinder clamping systems – Vices

Type	Description	3 axis	5 axis
Single clamping vice	NCG  <ul style="list-style-type: none"> ▲ 160° quick clamping ▲ rapid installation and removal of the spindle assembly ▲ quick span adjustment 	✓	
	NCG 5A  <ul style="list-style-type: none"> ▲ 160° quick clamping ▲ for 5 axis machining ▲ quick span adjustment 	✓	✓
	H5G  <ul style="list-style-type: none"> ▲ fast handle clamping ▲ 5 axis high power vice ▲ 100% encapsulated 	✓	✓
	H5G -Z  <ul style="list-style-type: none"> ▲ Fast handle clamping ▲ 5-axis high power vice ▲ 100% encapsulated ▲ With movable fixed jaw 	✓	✓
	X5G -Z  <ul style="list-style-type: none"> ▲ 100% encapsulated ▲ Optimum accessibility ▲ 5- and 6-sided machining possible ▲ Fast jaw changeover without tools 	✓	✓
	ESG 4  <ul style="list-style-type: none"> ▲ 100 % encapsulated ▲ Precision base body ▲ High clamping force ▲ Large clamping range 	✓	✓
	ESG 5  <ul style="list-style-type: none"> ▲ New version of the sealed centric vice ZSG 4 as single vice ▲ Identical dimensions and function as the ZSG 4 	✓	✓
	ESG mini  <ul style="list-style-type: none"> ▲ 100% encapsulated ▲ Compact and precise ▲ Fixed zero point ▲ Hydraulic versions also available 	✓	✓
	HDG 2  <ul style="list-style-type: none"> ▲ mechanical power transmission ▲ clamping force with only one turn of the handle ▲ infinitely variable clamping force setting 	✓	
	Centric vice	ZSG 4  <ul style="list-style-type: none"> ▲ ball bearing, backlash free spindle ▲ high precision, clamping force and process security ▲ repeatability ±0.01 mm 	✓
Multiple vice	DSG 4  <ul style="list-style-type: none"> ▲ Quick assembly and disassembly ▲ Flexible clamping system ▲ Can be converted into single vice 	✓	✓
	MSG 2  <ul style="list-style-type: none"> ▲ 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

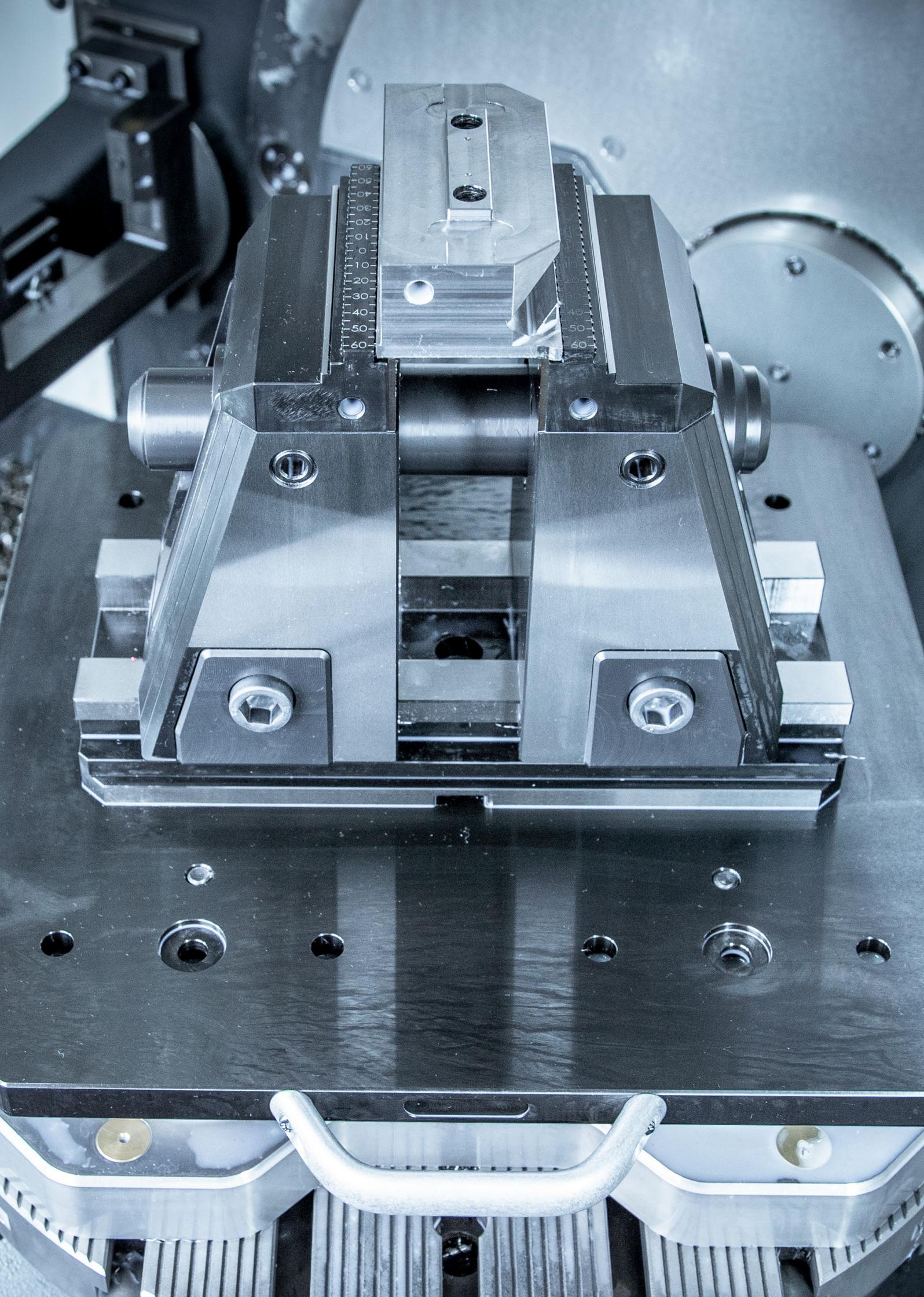
Toolfinder clamping systems – Clamping variants and clamping towers

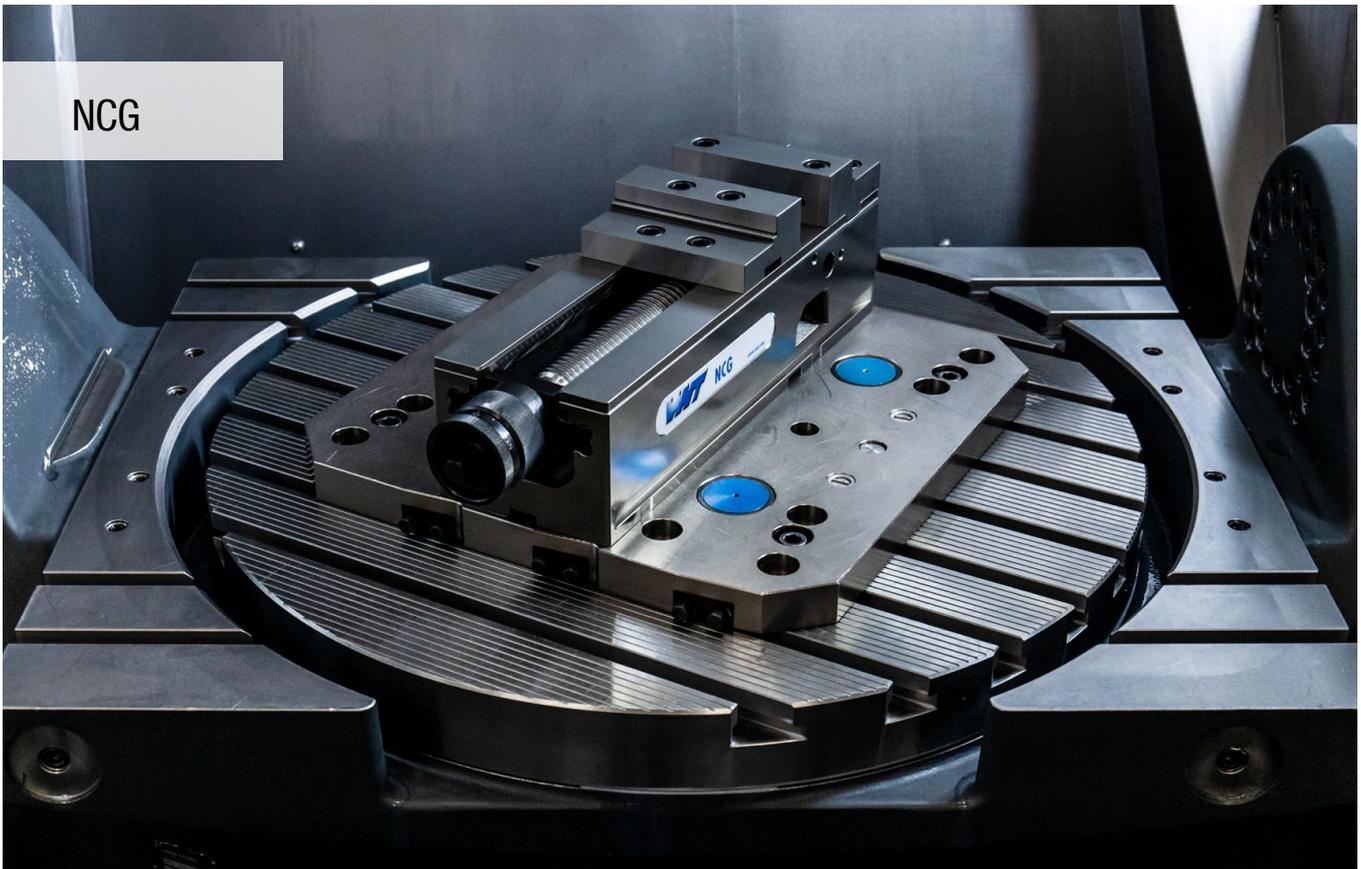
Type	mechanical	pneumatic	Comments	Page No.
Zero point clamping system grid plate MNG 	✓		All round plate for all machine tables	107-121
Multi-adapter pallets PNG 		✓	Process security thanks to self-locking mechanism	122-133
Clamping Towers 	✓		Increased machine uptime	

Manual machine vice

Drilling machine vice HSG 	✓		fast jaw adjustment, compact and precise	104-106
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 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. 12₁₇ / M12 (NCG 100) **Article no. 80 890 313** or
dia. 16₉₅ / 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



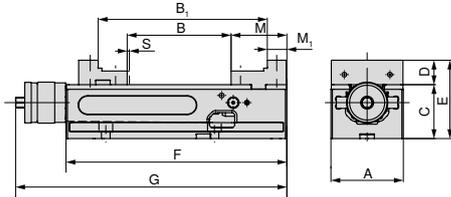
Alignment and clamping with MNG zero point
clamping system (2 - 3 mounting bolts)

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

80 890 ...

£

Y4

2,774.00 12500

A	B	B ₁	C _{-0.02}	D	E	F	G	M	M ₁	S	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
125	0-212	96-307	100	39	139	390	457	89	39	3	4-40	34

NC-quick clamping vice with combination jaw

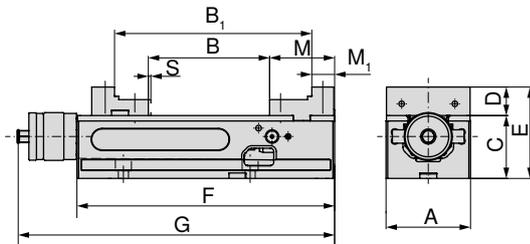
▲ Fast 160° handle clamping

▲ 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.



80 890 ...

£

Y4

2,720.56 602

3,148.96 627

4,135.10 662

A	B	B ₁	C _{-0.02}	D	E	F	G	M	M ₁	S	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
100	0-155	91-245	75	34	109	305	374	77	27	2,5	4-30	19
125	0-212	96-307	100	39	139	390	457	89	39	3	4-40	34
160	0-314	113-426	115	49	164	530	600	108	52	3	4-40	68

Vice guide

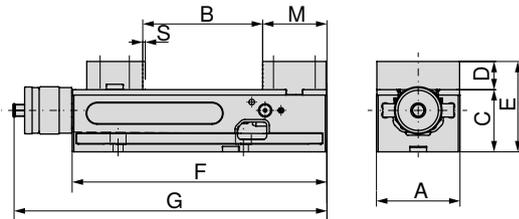
Underside Dimensions	12	System accessories	14-18
MNG-/PNG zero point clamping system	107-126	General accessories	134-149

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.



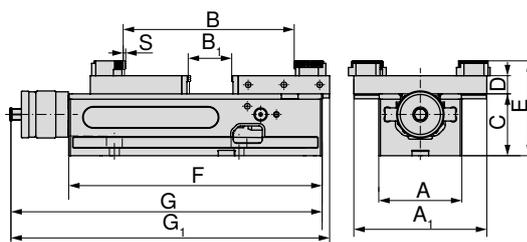
A	B	C _{-0.02}	D	E	F	G	M	S	MXC	WT	80 890 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	£	
100	0-155	75	34	109	305	374	77	2,5	4-30	19.5	Y4	600
125	0-212	100	39	139	390	457	89	3	4-40	35.0	2,642.67	625
160	0-314	115	49	164	530	600	108	3	4-40	70.0	3,072.46	660
											4,057.19	

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



A	A ₁	B	B ₁	C _{-0.02}	D	E	F	G	G ₁	S	MXC	WT	80 890 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	£	
100	160	10-230	0-77	75	22	115	305	374	383	2,5	4-30	19	Y4	636
125	192	16-343	0-152	100	22	140	390	457	478	3	4-40	34	2,830.45	637
160	256	15-506	0-237	115	22	155	530	600	631	3	4-40	68	3,294.99	638
													4,347.89	

Vice guide

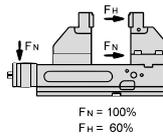
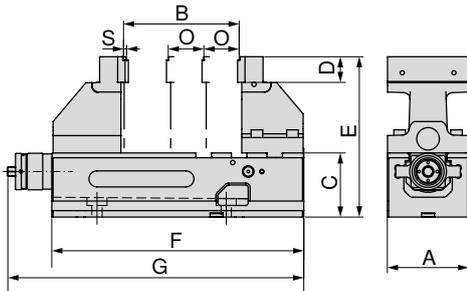
Underside Dimensions	12	System accessories	14-18
MNG-/PNG zero point clamping system	107-126	General accessories	134-149

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.



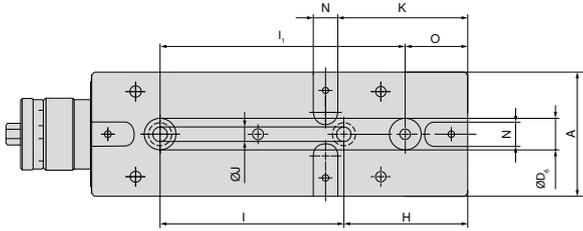
A	B	C	D	E	F	G	O	S	MXC	WT	80 890 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	£	
100	6-127	75	35	200	305	374	50	2,5	4 - 18 (30)	21.5	Y4	605
125	6-179	100	40	250	390	457	55	3	4 - 24 (40)	42.0		635

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		

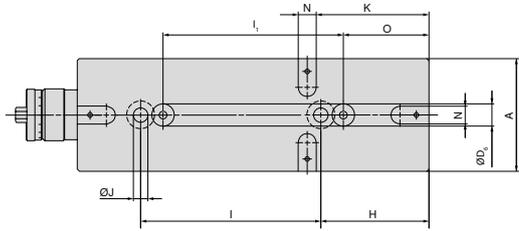
NCG underside dimensions

Base width 100 mm



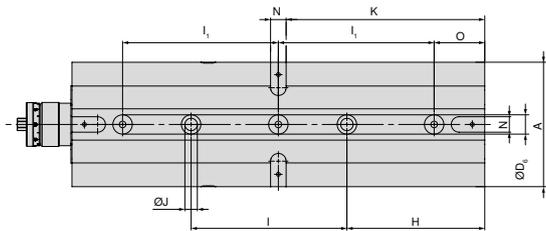
A	H	I _{±0,015}	J _{F7}	K	N _{H7}	O	I _{1±0,015}	D _{6 H7}
mm	mm	mm	mm	mm	mm	mm	mm	mm
100	100	150	12	105	20	50	200	25

Base width 125 mm



A	H	I _{±0,015}	J _{F7}	K	N _{H7}	O	I _{1±0,015}	D _{6 H7}
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	120	200	16	125	20	95	200	25

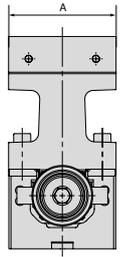
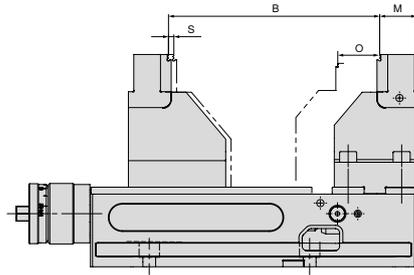
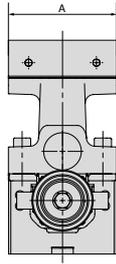
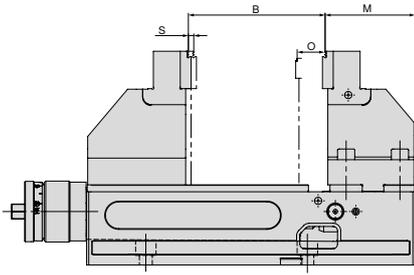
Base width 160 mm



A	H	I _{±0,015}	J _{F7}	K	N _{H7}	O	I _{1±0,015}	D _{6 H7}
mm	mm	mm	mm	mm	mm	mm	mm	mm
160	177	200	16	255	20	65	200	25

NCG 5A structural dimension table for different jaw positions

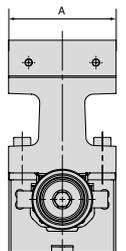
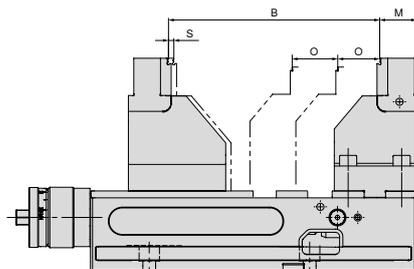
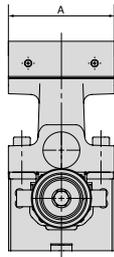
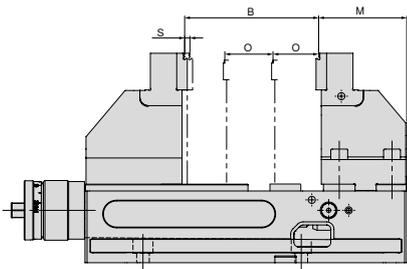
NCG 5A 100 mm



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



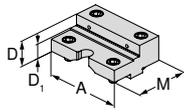
A mm	B mm	M mm	O mm	S mm
125	6 - 182	91	55	3

A mm	B mm	M mm	O mm	S mm
125	117 - 269	36	55	3

System jaws overview

Description	A	D	D ₁	M	M ₁	price	Article no.	Type association
-------------	---	---	----------------	---	----------------	-------	-------------	------------------

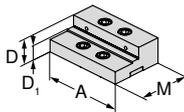
Combi reversible jaw plus, fixed



- ▲ For the extension of the clamping range
- ▲ Jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

						£	NEW 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			330.00	80 890 35100	●									

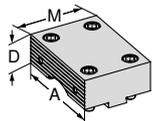
Combi reversible jaw plus, movable



- ▲ For the extension of the clamping range
- ▲ Jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

						£	NEW 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			330.00	80 890 35200	●									

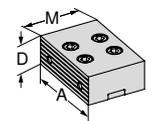
Standard reversible jaw, fixed



- ▲ 1 side smooth, 1 side grooved
- ▲ includes fixing bolts
- ▲ price per piece

						£	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			246.18	80 890 323	●									
125	39		88			324.08	80 890 324	●									
160	49		108			408.91	80 890 325	●									

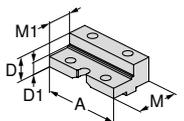
Standard reversible jaw, movable



- ▲ 1 side smooth, 1 side grooved
- ▲ includes fixing bolts
- ▲ price per piece

						£	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			246.18	80 890 327	●									
125	39		82			324.08	80 890 328	●									
160	49		108			408.91	80 890 329	●									

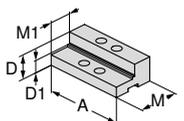
Combi reversible jaw, fixed



- ▲ For the extension of the clamping range
- ▲ Jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

						£	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		285.14	80 890 343	●					●				
125	39	25	88	50		363.02	80 890 344	●									
160	49	28	108	56		447.85	80 890 342	●									

Combi reversible jaw, movable



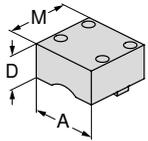
- ▲ For the extension of the clamping range
- ▲ Jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

						£	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		285.14	80 890 347	●					●				
125	39	25	82	45		363.02	80 890 348	●									
160	49	28	108	56		447.85	80 890 346	●									

System jaws overview

Description	A	A ₁	D	E	M	price	Article no.	Type association
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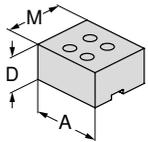
Soft jaw, steel, fixed



- ▲ For producing shaped jaws (hardenable)
- ▲ Without fixing screws
- ▲ Price per piece

					£	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	107.10	80 890 763	●									
125		50		110	103.81	80 890 764	●									

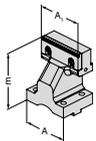
Soft jaw, steel, movable



- ▲ For producing shaped jaws (hardenable)
- ▲ Without fixing screws
- ▲ Price per piece

					£	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	125.18	80 890 767	●									
125		50		100	119.62	80 890 768	●									

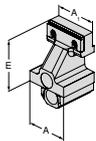
5A carrier jaw, fixed



- ▲ Price per piece
- ▲ With stepped grip jaw, 5 mm

					£	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		557.74	80 890 364	●									
125	125		150		669.02	80 890 366	●									

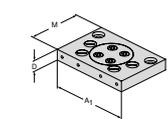
5A carrier jaw, movable



- ▲ Price per piece
- ▲ With stepped grip jaw, 5 mm

					£	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		592.52	80 890 365	●									
125	125		150		732.99	80 890 367	●									

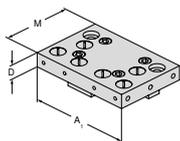
Pendulum jaw, movable



- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws (with A = 100 mm, 4 pieces)

					£	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	401.97	80 890 322	●					●				
125	192	22		130	472.91	80 890 338	●									
160	256	22		170	584.17	80 890 340	●									

Fixed adaptor jaw



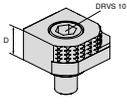
- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws

					£	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	278.18	80 890 321	●									
125	192	22		130	399.18	80 890 337	●									
160	256	22		170	522.97	80 890 339	●									

System jaws overview

Description	A	A ₁	D	M	M ₁	price	Article no.	Type association
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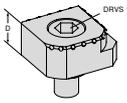
6 function indexable jaw



- ▲ 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

						£	Y4													
		18				75.11		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

						£	Y4													
		18				98.00		80 890 35300	●	●	●	●	●	●	●	●	●	●	●	●

System accessories overview

Spindle body

▲ For the conversion of the NCG 5AC into an NCG vice

NCG NCG 5A



		80 890 ...	
		£	
for width	mm	Y4	
	100	168.28	385
	125	197.49	387
	160	223.93	389

Spring Loaded Locator

NCG

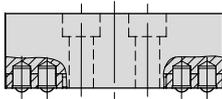


		80 890 ...	
		£	
for width	mm	Y4	
	100/125	2.44	008
	160	2.44	014

Protection plate

▲ For standard moving and combi reversible jaw

NCG



		80 890 ...	
		£	
for width	mm	Y4	
	100	2.44	010
	125	3.69	012
	160	21.68	013

Cover plate set

NCG NCG 5AC



		80 890 ...	
		£	
for width	mm	Y4	
	100	26.42	442
	125	27.35	443
	160	32.00	444

Drawbar extension

▲ For connecting 2 NCG vices

NCG NCG 5A



		80 890 ...	
		£	
for width	B mm	Y4	
	100	318.51	460
	125	349.10	470

Carrying handle

▲ for simple and safe transporting

Scope of supply:

1 piece Hand grip including fixing bolts

NCG NCG 5AC



		80 890 ...	
		£	
for width	mm	Y4	
	100/125	12.53	685

System accessories overview

Clamping lever

▲ including control accessories

NCG	H5G
NCG 5A	



for width mm	DRVS mm	80 890 ...	
100/125/160	14	£ Y4	
		125.77	501

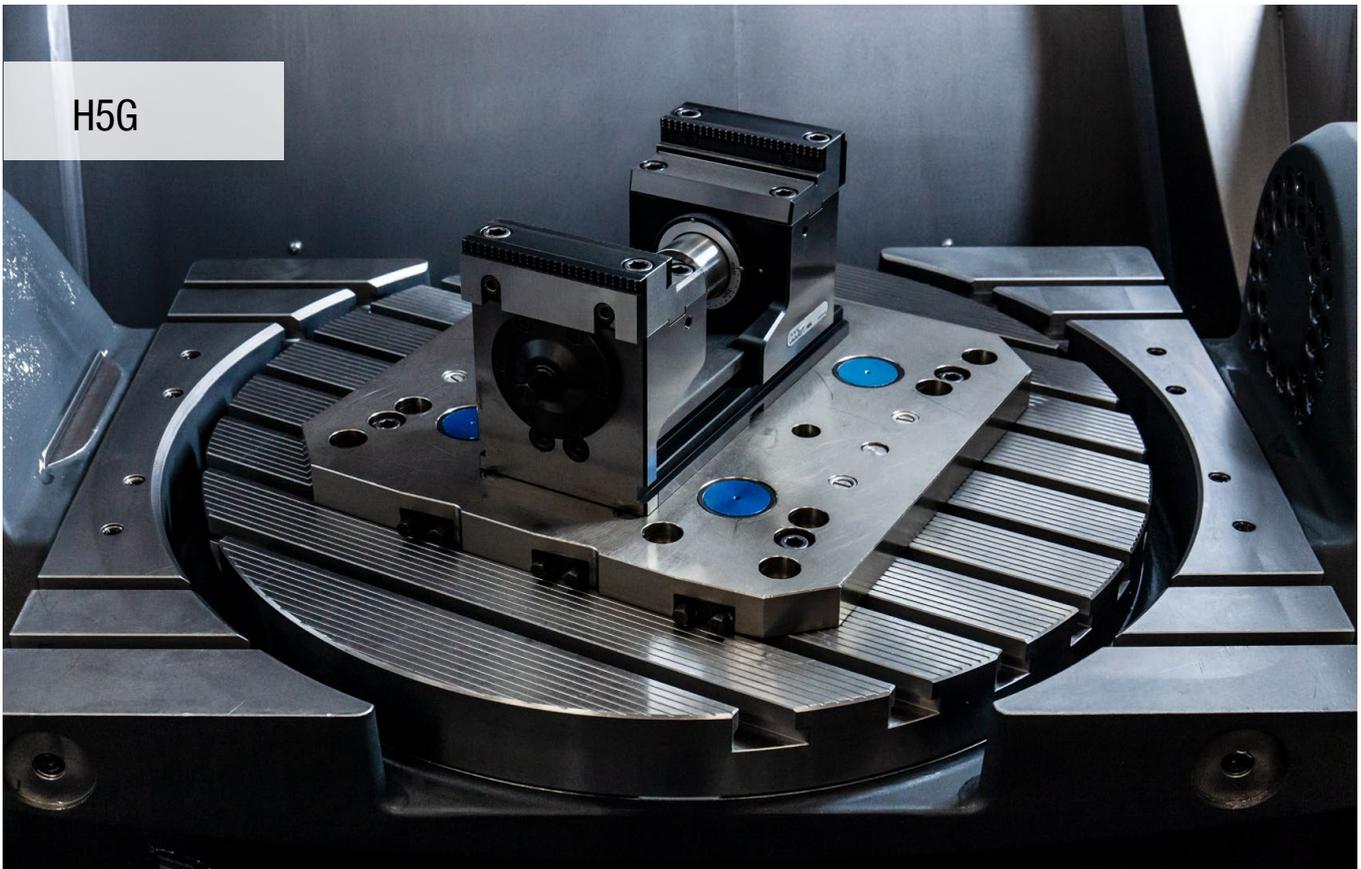
High-speed operation device

▲ For faster span adjustment with removable grip

NCG	NCG 5AC
-----	------------



for width mm	80 890 ...	
100	£ Y4	
125/160	57.40	550
	67.34	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. 12₁₇ / 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.



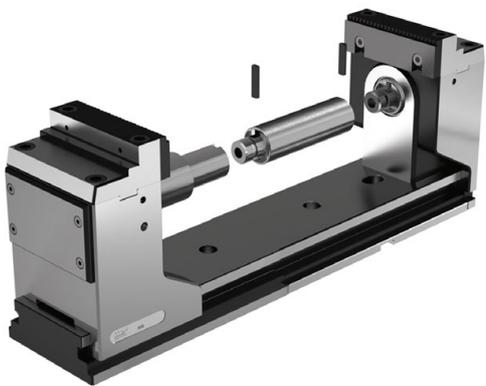
Alignment and clamping with MNG zero point clamping system (2 – 3 mounting bolts).
Optional: Positioning and fixing holes at the customer's request.

Alignment of extension base body:



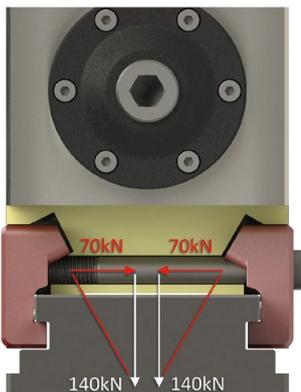
- ▲ Loosely mount the extension base body
- ▲ Distance to basic base body 0.2 – 10 mm
- ▲ Slide movable supporting jaw overlapping onto both base bodies
- ▲ Align the extension base body so it is parallel with the basic base body
- ▲ Secure the extension base body

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

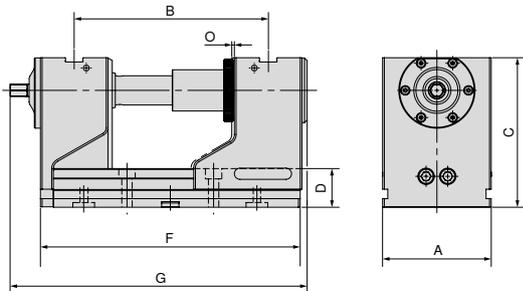
In the case of the H5G-Z and H5G-Z-S, both supporting jaws can be moved as desired. The movable fixed jaw can be clamped on any position on the base body via 1 or 2 screws (1 = H5G-Z / 2 = H5G-Z-S) (tighten screw with 90 Nm). The clamping force of the fixed jaw is almost identical to that of the H5G 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 \varnothing 12^{F7}

Scope of supply:

Vice incl. 4 clamping claws, hand crank and clamping wrench, without system jaws.

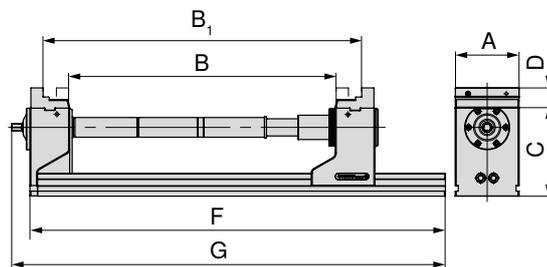
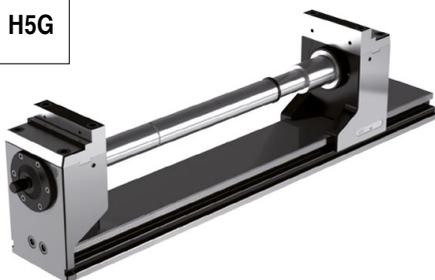


A	B	C	D	F	G	O	MXC	WT
mm	mm	mm	mm	mm	mm	mm	kN	kg
125	97 - 223	174	45	300	336,5	1	40	30.2

80 898 ...

£
Y4
3,193.47 125

5 axis high power vice, long version, 174 mm height



A	C	D	F	G	Clamping force
mm	mm	mm	mm	mm	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

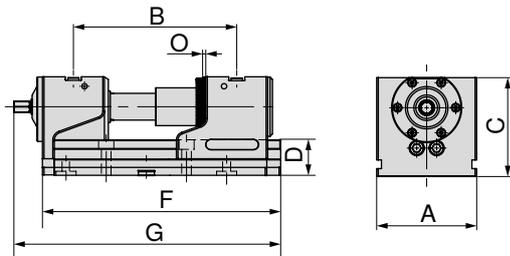
Underside Dimensions	24	Structural dimension tables for the different jaws	25
System accessories	27-29	MNG-/PNG zero point clamping system	107-126
General accessories	134-149		

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 $\varnothing 25^{H7}$ centering
- ▲ Length F = 265 mm with $\varnothing 32^{H6}$
- ▲ Vice with longitudinal and transverse grooves 20^{H7} and alignment holes $\varnothing 12^{F7}$

Scope of supply:

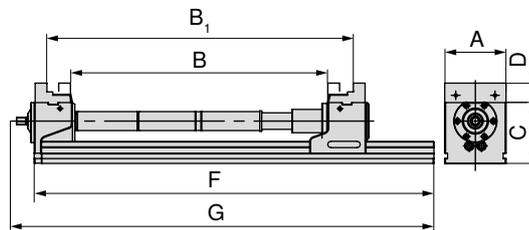
Vice incl. 4 clamping claws, hand crank and clamping wrench, without system jaws.



A	B	C	D	F	G	O	MXC	WT	80 898 ...	
mm	mm	mm	mm	mm	mm	mm	kN	kg	£	
125	97 - 186	125	45	265	301,5	1	40	21.0	2,919.46	123 ¹⁾
125	97 - 223	125	45	300	336,5	1	40	22.6	2,980.67	124

1) not standardised

5 axis high power vice, long version, 125 mm height



A	C	D	F	G	Clamping force
mm	mm	mm	mm	mm	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

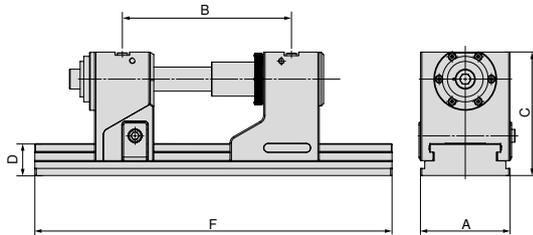
Underside Dimensions	24	Structural dimension tables for the different jaws	25
System accessories	27-29	MNG-/PNG zero point clamping system	107-126
General accessories	134-149		

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



NEW

80 907 ...

A mm	B _{±0,015} mm	C mm	D mm	F mm	DRVS mm	MXC kN	WT kg	£ Y4	
125	131 - 246	174	45	330	14	40	32.5	3,143.00	12800
125	131 - 352	174	45	430	14	40	36.0	3,625.20	125
125	131 - 422	174	45	500	14	40	38.5	3,796.64	126
125	131 - 552	174	45	630	14	40	43.0	4,115.67	127



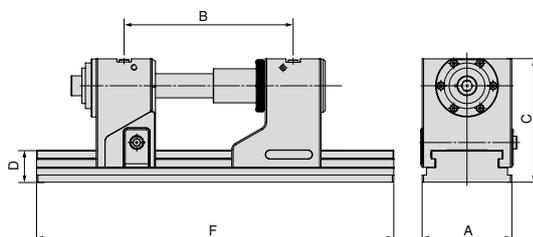
Maximum clamping ranges only possible with the use of additional drawbar extensions, see → Page 29.

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



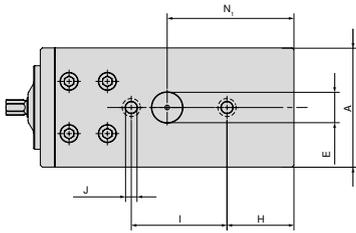
NEW

80 907 ...

A mm	B _{±0,015} mm	C mm	D mm	F mm	DRVS mm	MXC kN	WT kg	£ Y4	
125	131 - 246	125	45	330	14	40	24.5	2,958.00	22500
125	131 - 352	125	45	430	14	40	28.5	3,008.00	22600
125	131 - 422	125	45	500	14	40	30.5	3,159.00	22700
125	131 - 552	125	45	630	14	40	35.5	3,440.00	22800

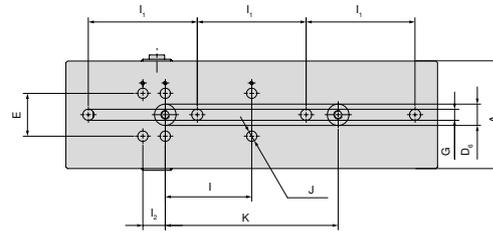
H5G/H5G-Z underside dimensions

Base width 125 mm and 265 mm length



A	E	H	I $_{\pm 0,015}$	J $_{F7}$	N $_1$
125	32	70	100	12	132,5

Base width 125 mm and 430 mm length

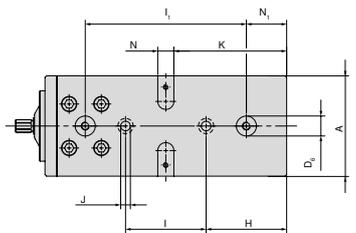


A	E $_{\pm 0,01}$	I $_{1 \pm 0,3}$	I $_2$	I $_{\pm 0,015}$	K $_{\pm 0,015}$	J $_{H7}$	G	D $_{6 H6}$
125	50	126	26	100	200	12	13	25



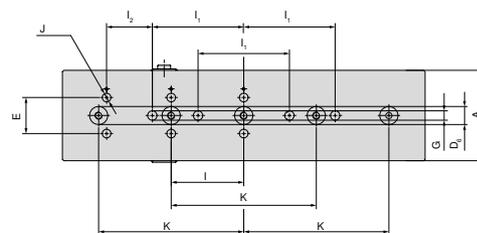
H5G with 265 mm length is not compatible with MNG

Base width 125 mm and 300 mm length



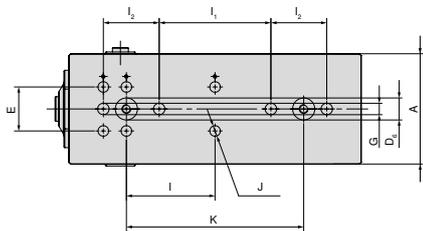
A	D $_{6 H7}$	H	I $_{\pm 0,015}$	J $_{F7}$	K	N $_{H7}$	I $_{1 \pm 0,015}$	N $_1$
125	25	100	100	12	140	20	200	50

Base width 125 mm and 500 mm length



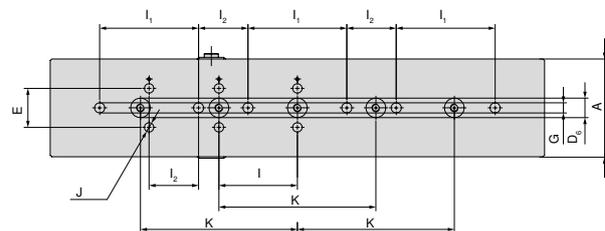
A	E $_{\pm 0,01}$	I $_{1 \pm 0,3}$	I $_{\pm 0,015}$	K $_{\pm 0,015}$	I $_2$	G	D $_{6 H6}$	J $_{H7}$
125	50	126	100	200	63	13	25	12

Base width 125 mm and 330 mm length



A	E $_{\pm 0,01}$	I $_{\pm 0,015}$	I $_2$	I $_{1 \pm 0,3}$	D $_{6 H6}$	J $_{H7}$	K $_{\pm 0,015}$	G
125	50	100	26	126	25	12	200	13

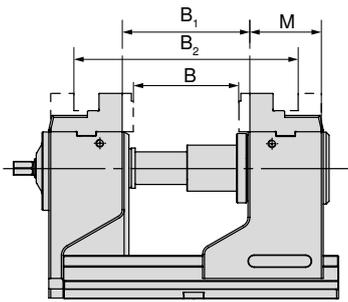
Base width 125 mm and 630 mm length



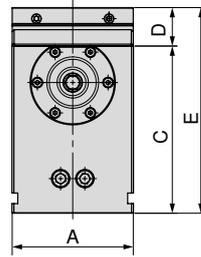
A	E $_{\pm 0,01}$	I $_{1 \pm 0,3}$	I $_2$	I $_{\pm 0,015}$	K $_{\pm 0,015}$	G	D $_{6 H6}$	J $_{H7}$
125	50	126	63	100	200	13	25	12

H5G/H5G-S – Structural dimension table for the different jaws

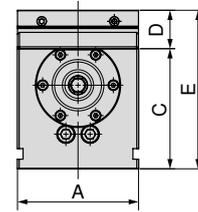
with combi jaws



H5G



H5G-S

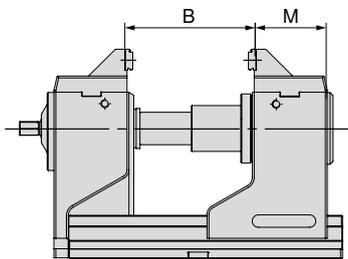


B mm	B ₁ mm	B ₂ mm	M mm	Article no. System jaws
0 - 126	22 - 149	123 - 249	76	80 898 225

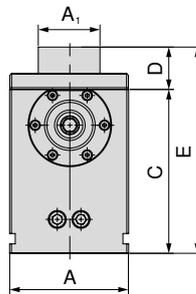
A mm	C mm	D mm	E mm
125	174	40	214

A mm	C mm	D mm	E mm
125	125	40	165

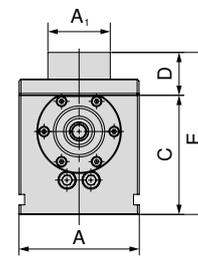
with 5A – Top jaws



H5G



H5G-S

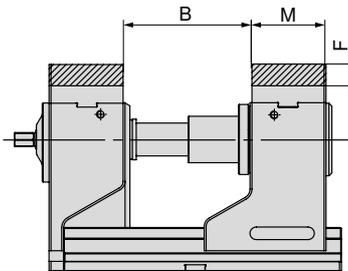


B mm	M mm	Article no. System jaws
27 - 153	74	80 898 325

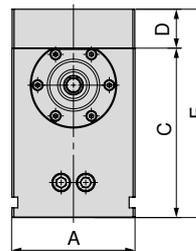
A mm	A ₁ mm	C mm	D mm	E mm
125	65	174	45	219

A mm	A ₁ mm	C mm	D mm	E mm
125	65	125	45	170

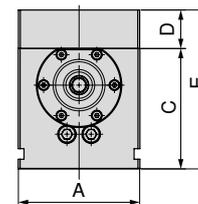
with soft jaws



H5G



H5G-S

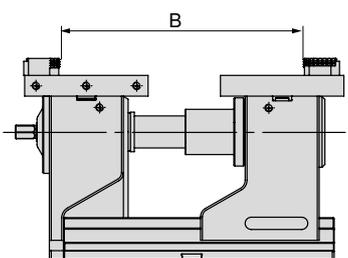


B mm	F mm	M mm	Article no. System jaws
27 - 153	22	76	80 898 625

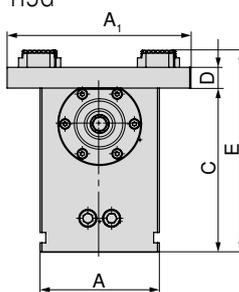
A mm	C mm	D mm	E mm
125	174	40	214

A mm	C mm	D mm	E mm
125	125	40	165

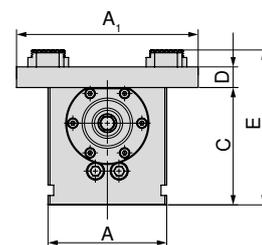
with pendulum and adapter plate



H5G



H5G-S



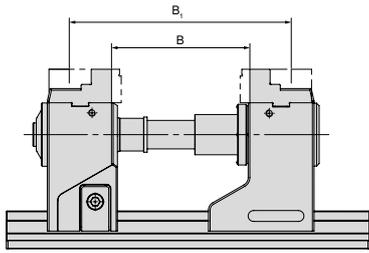
B mm	Article no. System jaws
17 - 274	80 898 525 + 80 898 425

A mm	A ₁ mm	C mm	D mm	E mm
125	192	174	22	214

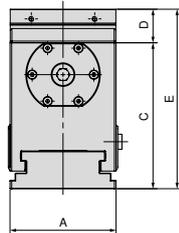
A mm	A ₁ mm	C mm	D mm	E mm
125	192	125	22	165

H5G-Z/-S structural dimension table for the different jaws

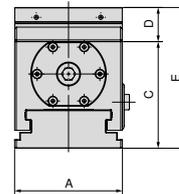
with combi jaws



H5G-Z



H5G-Z-S

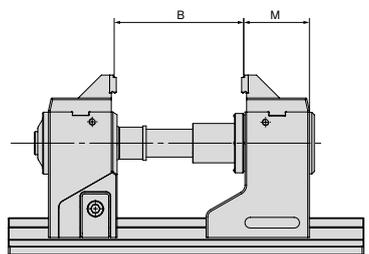


B mm	B ₁ mm	Article no. System jaws
14 - 139	157 - 282	80 898 225

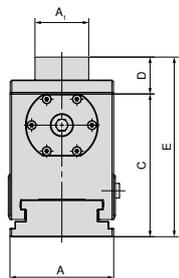
A mm	C mm	D mm	E mm
125	174	40	214

A mm	C mm	D mm	E mm
125	125	40	165

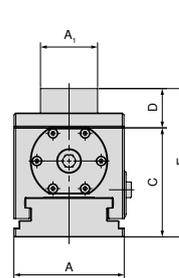
with 5A – Top jaws



H5G-Z



H5G-Z-S

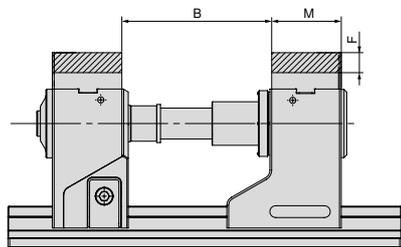


B mm	M mm	Article no. System jaws
27 - 153	74	80 898 325

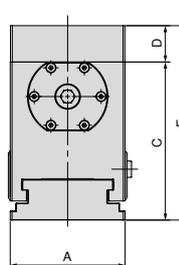
A mm	A ₁ mm	C mm	D mm	E mm
125	65	125	45	170

A mm	A ₁ mm	C mm	D mm	E mm
125	65	125	45	165

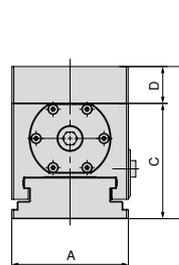
with soft jaws



H5G-Z



H5G-Z-S

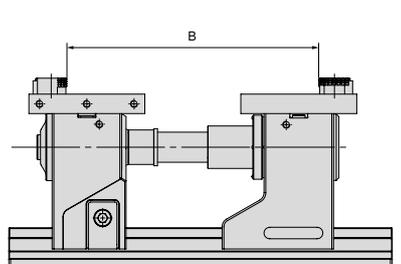


B mm	F mm	M mm	Article no. System jaws
27 - 153	22	76	80 898 625

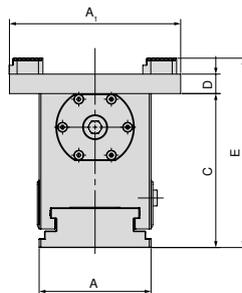
A mm	C mm	D mm	E mm
125	125	40	165

A mm	C mm	D mm	E mm
125	125	40	165

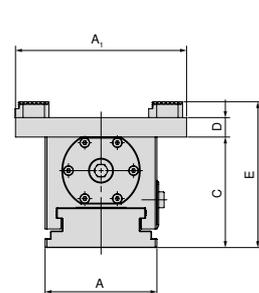
with pendulum and adapter plate



H5G-Z



H5G-Z-S



B mm	Article no. System jaws
17 - 274	80 898 525 + 80 898 425

A mm	A ₁ mm	C mm	D mm	E mm
125	192	174	22	214

A mm	A ₁ mm	C mm	D mm	E mm
125	192	125	22	165

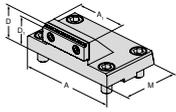


Clamping ranges also apply to 500 mm and 630 mm base bodies. Extended clamping ranges with drawbar extension possible.

System jaws overview

Description	A	A ₁	D	D ₁	M	price	Article no.	Type association
-------------	---	----------------	---	----------------	---	-------	-------------	------------------

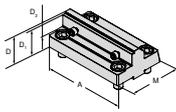
5A stepped top jaw



- ▲ including 125/65 mm attachment and 3 mm grip step
- ▲ price per piece

125	65	45	42	76	£	Y4	80 898 325	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2		●								
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
	●																											
					378.32																							

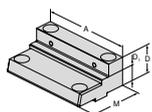
5A - Top jaw



- ▲ Improved accessibility through tapered rear section
- ▲ Price per piece

125		40	37	78	£	Y4	80 907 300	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2		●								
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
	●																											
					351.96																							

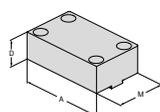
Combi reversable jaw



- ▲ to extend the clamping range
- ▲ Price per piece

125		40	22	76	£	Y4	80 898 225	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2		●								
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
	●																											
					378.32																							

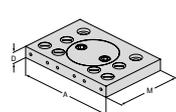
Soft Alu-jaw



- ▲ for producing shaped jaws
- ▲ Price per piece

125		40		76	£	Y4	80 898 625	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2		●								
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
	●																											
					111.28																							

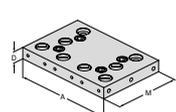
Pendulum jaw, movable



- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

192		22		130	£	Y4	80 898 525	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2		●								
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
	●																											
					492.37																							

Adapter plate



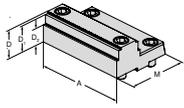
- ▲ to accommodate 6-way reversible jaws
- ▲ Price per piece

192		22		130	£	Y4	80 898 425	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2		●								
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
	●																											
					414.50																							

System jaws overview

Description	A	D	D ₁	D ₂	M	price	Article no.	Type association
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Indexable jaw, grip 3 mm, 16 mm smooth step, on both sides

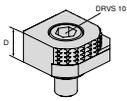


▲ Price per piece

125	40	37	24	82,5	£	350.00	Y4	80 898 35000
-----	----	----	----	------	---	--------	----	--------------

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
●	●	●	●	●	●	●	●	●	●

6 function indexable jaw

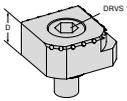


- ▲ 1 = Smooth, carbide coated
- ▲ 2 = Grip with 3 mm step
- ▲ 3 = Grip with 8 mm step
- ▲ 4 = Grip with 18 mm step
- ▲ 5 = Rough grip with 8 mm step
- ▲ 6 = Round grip
- ▲ M_{max} = 60 Nm
- ▲ Including fixation screws

	18				£	75.11	Y4	80 892 246
--	----	--	--	--	---	-------	----	------------

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
●	●	●	●	●	●	●	●	●	●

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

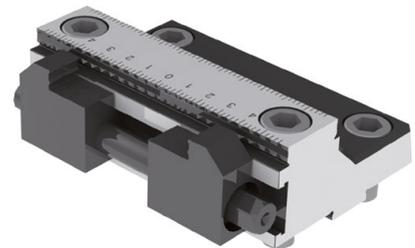
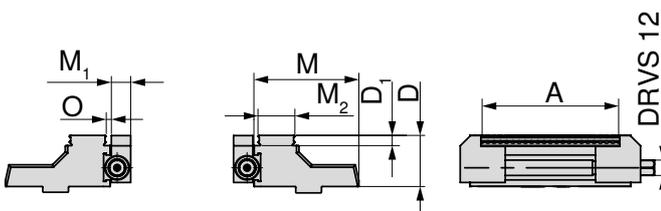
	18				£	98.00	NEW Y4	80 890 35300
--	----	--	--	--	---	-------	--------	--------------

NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
●	●	●	●	●	●	●	●	●	●

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



for width mm	A mm	D mm	D ₁ mm	M mm	M ₁ mm	M ₂ mm	O mm	WT kg
125	37 - 101	40	8	81,5	15	28,7	3,2	4.5

80 898 ...

£
Y4
2,050.41 230

System accessories overview

Protection plugs

▲ Price per piece

H5G
-Z

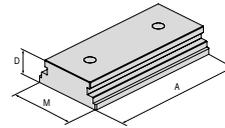


D₁
mm
19

80 907 ...
£
Y4
0.59 501

Base plate to extend

H5G

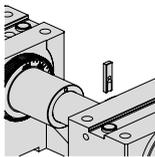


A mm	D mm	M mm
250	45	125,5

80 898 ...
£
Y4
639.72 725

Anti-twist plate

H5G



80 898 ...
£
Y4
12.53 024

Clamping lever

▲ including control accessories

NCG

H5G

NCG
5A

H5G
-Z



DRVS
mm
14

80 890 ...
£
Y4
125.77 501

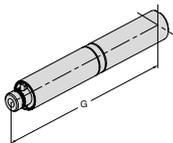
Drawbar

▲ Incl. anti-rotation

H5G

H5G
-S

H5G
-Z



80 898 ...
£
Y4
359.99 826
407.85 827

G
mm
125
250

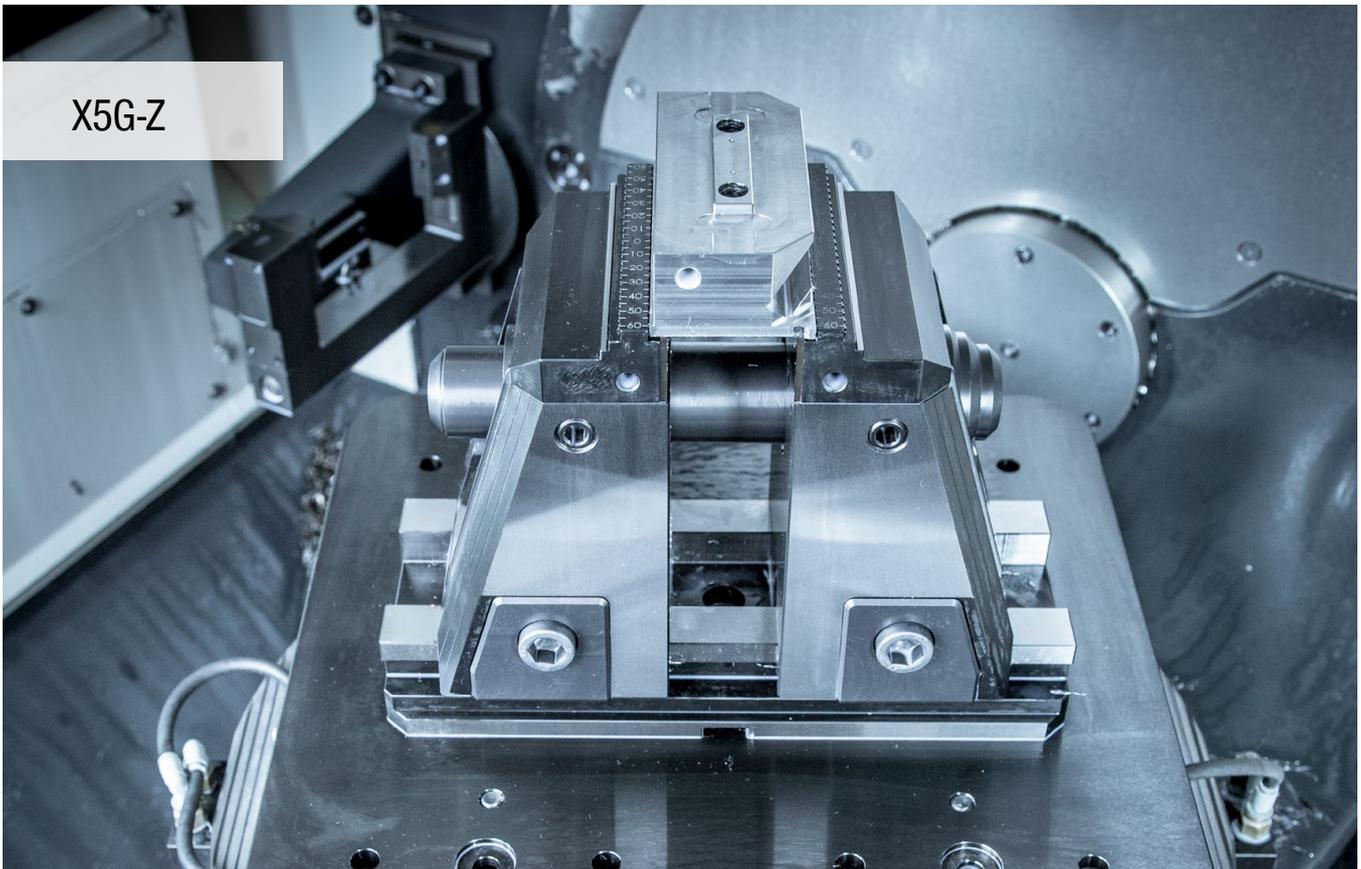
Hand crank

▲ for fast adjustment



DRVS
mm
14

H5G-Z		H5G-S		H5G	
80 907 ...	£ Y4 77.21	500	80 898 ...	£ Y4 77.89	026
			80 898 ...	£ Y4 77.89	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. 12₁₇ / M12 and clamping screws **Article no. 80 895 019**



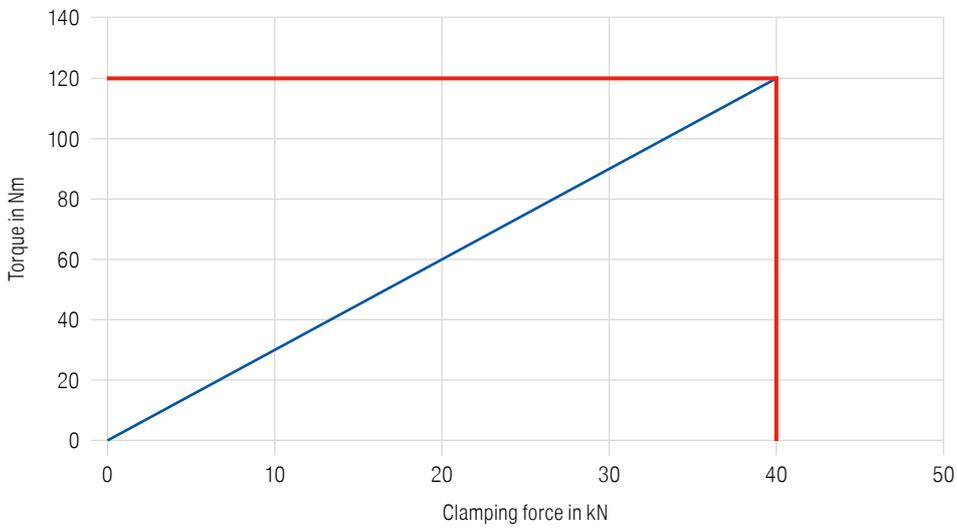
Alignment through 20^{H7} precision slot nuts in the base body in the machine table's T-slot. Clamping with clamping claws.



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

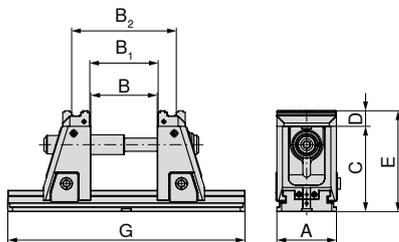


Mechanical 5-axis vice with movable fixed jaw, 181 mm height

- ▲ 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



NEW

80 908 ...

A	B _{±0,015}	B ₁	B ₂	C	D	E _{±0,01}	G	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
125	4-134	12-141	80-210	181	33	214	330	14	40	33.2
125	4-234	12-241	80-310	181	33	214	430	14	40	36.1
125	4-304	12-311	80-380	181	33	214	500	14	40	38.1
125	4-434	12-441	80-510	181	33	214	630	14	40	41.8
125	4-604	12-611	80-680	181	33	214	800	14	40	46.6

£	
Y4	
3,257.10	12500
3,449.25	12600
3,574.20	12700
3,798.90	12800
4,091.85	12900 ¹⁾

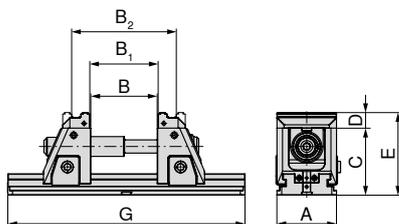
1) Not ex-stock

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



NEW

80 908 ...

A	B _{±0,015}	B ₁	B ₂	C	D	E _{±0,01}	G	DRVS	MXC	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg
125	4-144	12-151	80-220	142	33	175	330	14	40	27.3
125	4-234	12-241	80-310	142	33	175	430	14	40	30.2
125	4-304	12-311	80-380	142	33	175	500	14	40	32.2
125	4-434	12-441	80-510	142	33	175	630	14	40	35.9
125	4-604	12-611	80-680	142	33	175	800	14	40	40.7

£	
Y4	
3,009.30	22500
3,201.45	22600
3,326.40	22700
3,553.20	22800
3,845.10	22900 ¹⁾

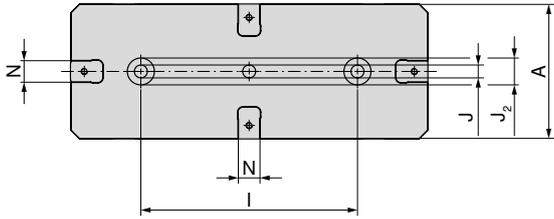
1) Not ex-stock

Vice guide

Underside Dimensions	33	Spindle extensions	37
System accessories	35-39	MNG-/PNG zero point clamping system	107-126
General accessories	134-149		

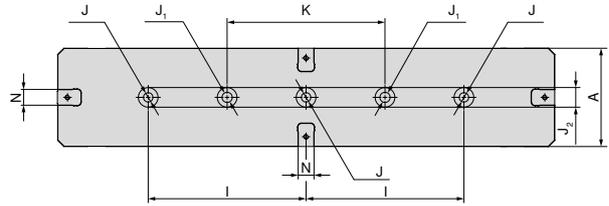
X5G-Z/-S underside dimensions

Base width 125 mm and 330 mm length



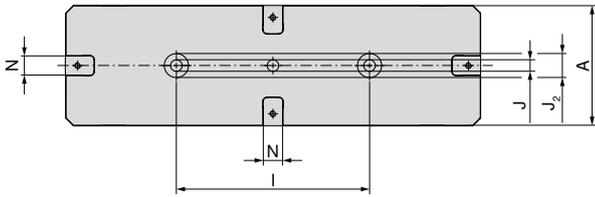
A	I _{±0,02}	J _{H7}	J _{2 H6}	N _{H7}
mm	mm	mm	mm	mm
125	200	12	25	20

Base width 125 mm and 630 mm length



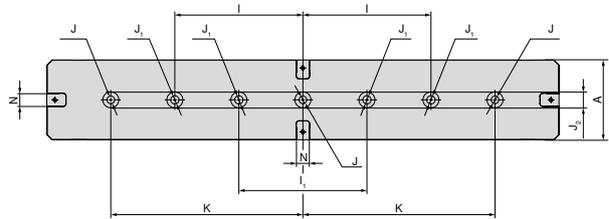
A	I _{±0,02}	J _{H7}	J ₁	J _{2 H6}	K _{±0,02}	N _{H7}
mm	mm	mm	mm	mm	mm	mm
125	200	12	13	25	200	20

Base width 125 mm and 430 mm length



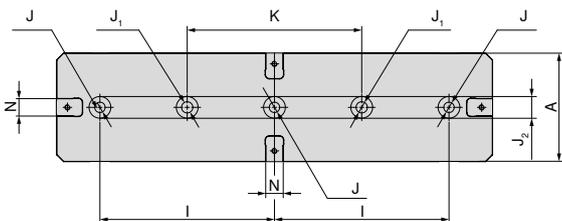
A	I _{±0,02}	J _{H7}	J _{2 H6}	N _{H7}
mm	mm	mm	mm	mm
125	200	12	25	20

Base width 125 mm and 800 mm length



A	I _{±0,02}	I _{1 ±0,02}	J _{H7}	J ₁	J _{2 H6}	K _{±0,02}	N _{H7}
mm	mm	mm	mm	mm	mm	mm	mm
125	200	200	12	13	25	300	20

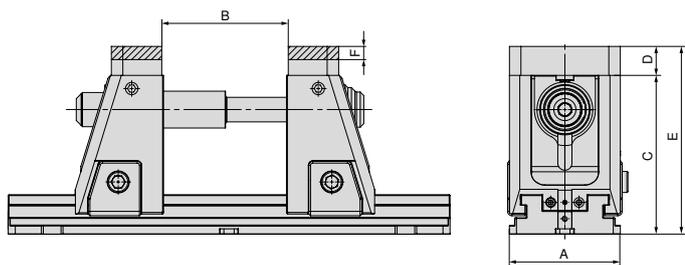
Base width 125 mm and 500 mm length



A	I _{±0,02}	J _{H7}	J ₁	J _{2 H6}	N _{H7}	K _{±0,02}
mm	mm	mm	mm	mm	mm	mm
125	200	12	13	25	20	200

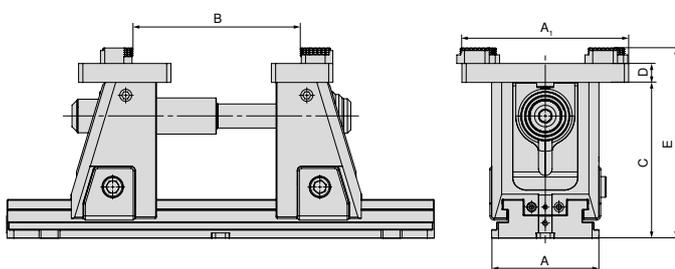
X5G-Z/-S structural dimension table for the different jaws

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

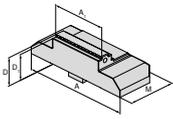


A mm	A ₁ mm	B mm	C mm	D mm	E mm	Article no. System jaws
125	195	8 - 193	142 - 181	22	175 - 214	80 909 31500 + 80 909 31300

System jaws overview

Description	A	A ₁	D	D ₁	M	price	Article no.	Type association
-------------	---	----------------	---	----------------	---	-------	-------------	------------------

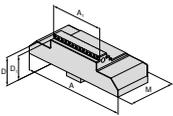
Indexable grip jaw, 3 mm



▲ Price per piece

					£	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	257.25		80 909 30300			●							
125	65	33	30	57	267.75		80 909 30200			●							
125	80	33	30	57	267.75		80 909 30100			●							
125	125	33	30	57	277.20		80 909 30000			●							

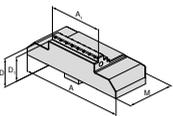
Indexable grip jaw, 5 mm



▲ Price per piece

					£	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	257.25		80 909 30700			●							
125	65	33	28	57	267.75		80 909 30600			●							
125	80	33	28	57	267.75		80 909 30500			●							
125	125	33	28	57	277.20		80 909 30400			●							

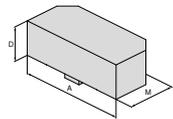
Stepped jaw, carbide grip 5 mm



▲ Price per piece

					£	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	305.55		80 909 31100			●							
125	65	33	28	57	315.00		80 909 31000			●							
125	80	33	28	57	324.45		80 909 30900			●							
125	125	33	28	57	333.90		80 909 30800			●							

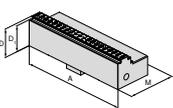
Soft jaws, steel



▲ Price per piece

					£	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	119.70		80 909 31200			●							

Indexable jaw embossed profile



▲ Price per piece

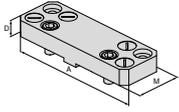
▲ suitable for LANG embossed profile

					£	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	277.20		80 909 31400			●							

System jaws overview

Description	for width	A	D	D ₁	M	price	Article no.	Type association
-------------	-----------	---	---	----------------	---	-------	-------------	------------------

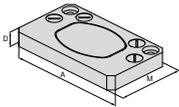
Adapter plate



- ▲ for holding 6-function indexable jaws
- ▲ Price per piece
- ▲ incl. cover screws

125	180	22		104	£ 352.80	NEW Y4	80 909 31500	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	●									
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
●																												

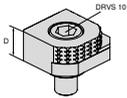
Floating jaw



- ▲ for holding 6-function indexable jaws
- ▲ Price per piece
- ▲ incl. cover screws

125	180	22		62	£ 472.50	NEW Y4	80 909 31300	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	●									
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
●																												

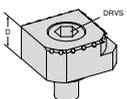
6 function indexable jaw



- ▲ 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

		18			£ 75.11	Y4	80 892 246	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	●									
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
●																												

6x indexable jaw, carbide grip

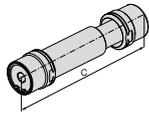


- ▲ 1 = Smooth
- ▲ 2 = Carbide grip
- ▲ 3 = Carbide grip with 3 mm step
- ▲ 4 = Carbide grip with 8mm step
- ▲ 5 = Round carbide grip with 8 mm step
- ▲ 6 = Round carbide grip
- ▲ Incl. fixing screws

		18			£ 98.00	NEW Y4	80 890 35300	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td>●</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	●									
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																			
●																												

System accessories overview

Spindle unit X5G-Z



NEW

80 908 ...

£

Y4

333.90 50100

C mm	WT kg
227,5	2.5

Drawbar



NEW

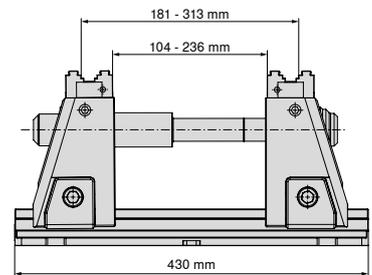
80 908 ...

£

Y4

139.37 80000

for width mm	G mm
125	430



Base body G = 430 mm,
stroke 140 mm, with extension,
total clamping range 4-310 mm

Drawbar



NEW

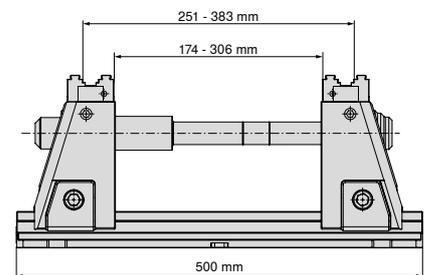
80 908 ...

£

Y4

150.82 80100

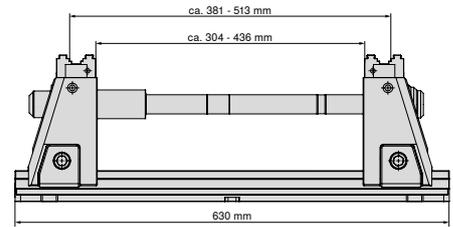
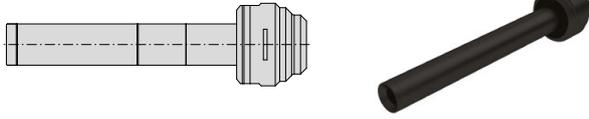
for width mm	G mm
125	500



Base body G = 500 mm,
stroke 140 mm, with extension,
total clamping range 4-380 mm

System accessories overview

Drawbar



Base body G = 630 mm,
stroke 140 mm, with extension,
total clamping range 4-510 mm

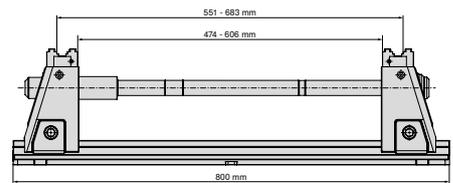
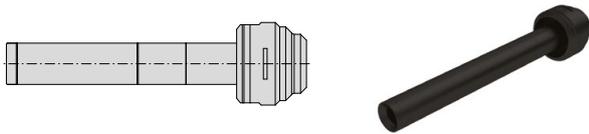
NEW

80 908 ...

£
Y4
175.63 80200

for width mm	G mm
125	630

Drawbar



Base body G = 800 mm,
stroke 140 mm, with extension,
total clamping range 4-680 mm

NEW

80 908 ...

£
Y4
200.46 80300

for width mm	G mm
125	800

System accessories overview

Torque Wrench

▲ without socket



		80 884 ...	
Square	TQX Nm	£	
1/2"	20 - 200	Y4	
		306.24	504

Socket



		80 877 ...	
Square	DRVS mm	£	
1/2"	14	Y4	
		17.98	214

Hand crank

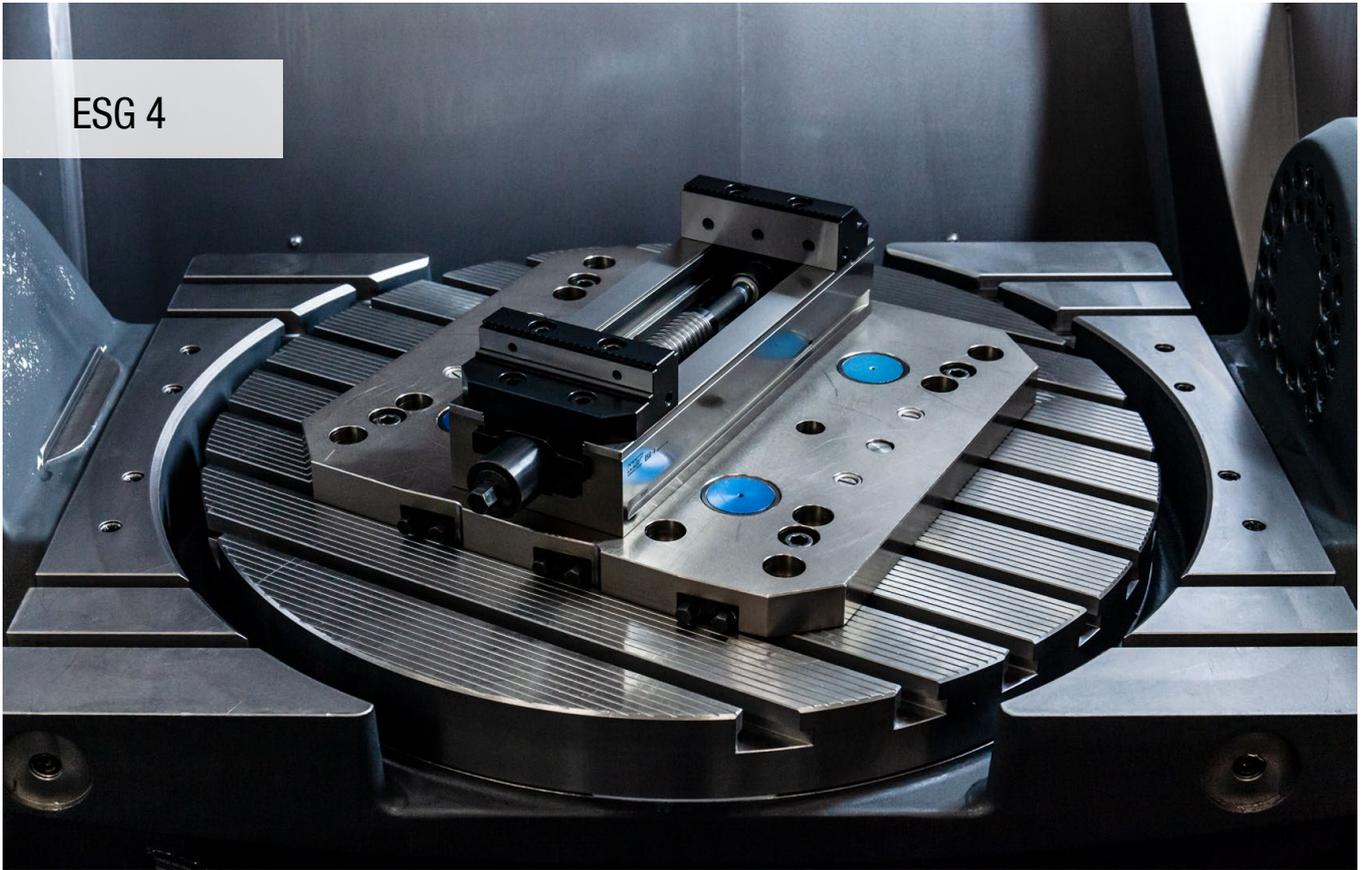
▲ Version with external hex

▲ For quick adjustment



		H5G-Z	
		80 907 ...	
for width mm	DRVS mm	£	
125	14	Y4	
		77.21	500

ESG 4



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



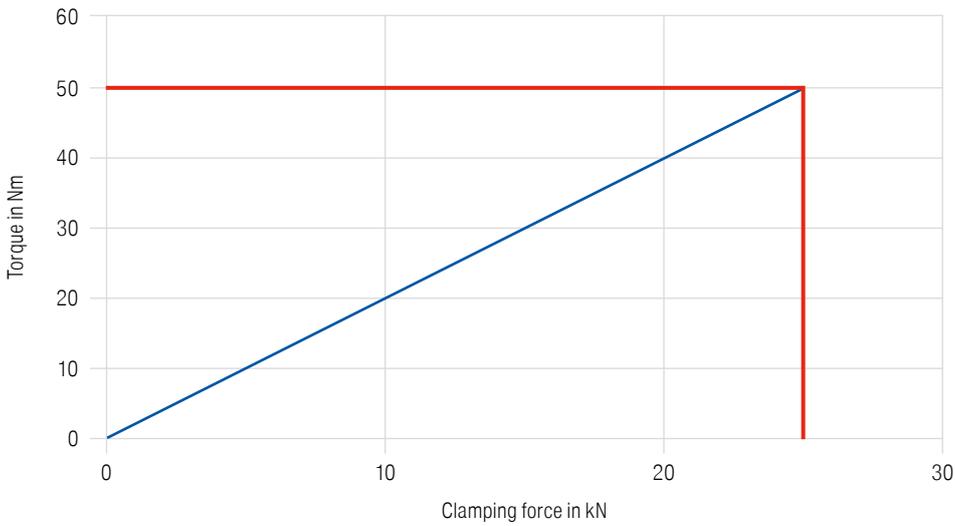
Mounting with 4 clamping claws
Article no. 80 890 315



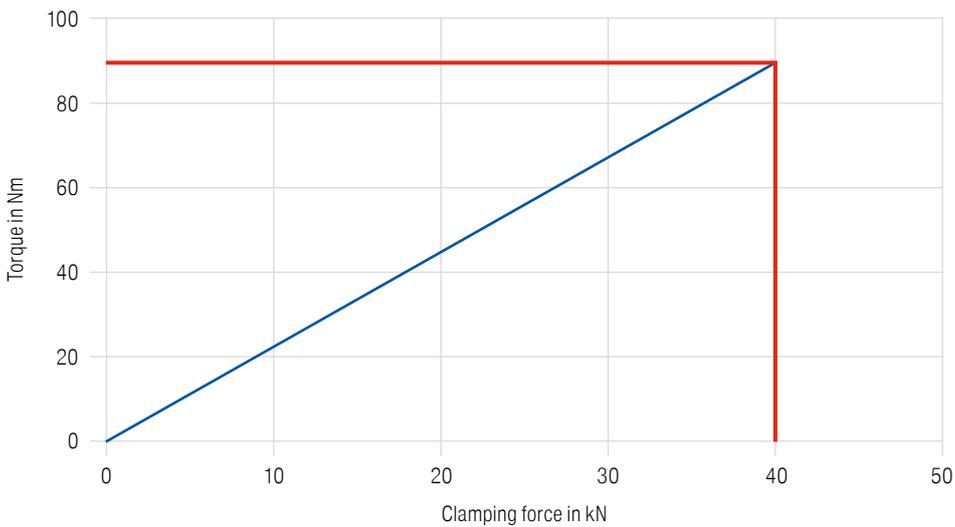
Mounting with zero point clamping systems
ESG 4 - 80 mm = 1 mounting bolt + anti-twist protection
ESG 4 - 125 / 160 mm = 2 mounting bolts, centre distance 200 mm

Clamping force:

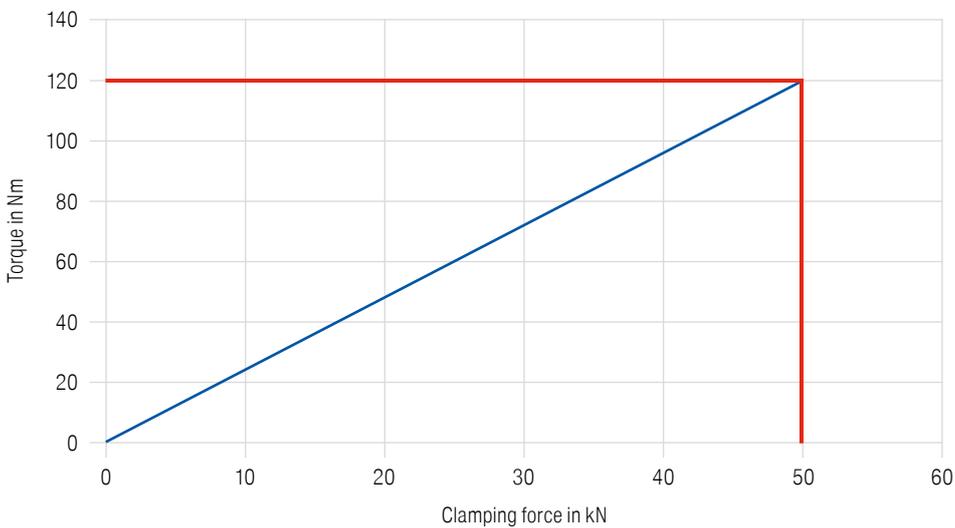
ESG 4 – 80 mm tightening torque/clamping force



ESG 4 – 125 mm tightening torque/clamping force



ESG 4 – 160 mm tightening torque/clamping force

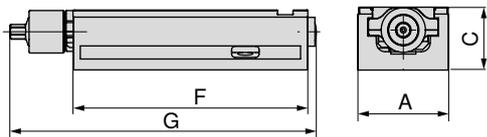


Single vice without system jaws

- ▲ 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



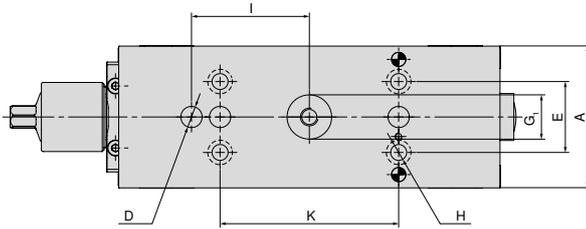
A	C ^{-0.02}	F	G	MXC	WT	DRVS	clamping range	80 901 ...	
mm	mm	mm	mm	kN	kg	mm	mm	£	
80	55	214	284	25	5.0	12	0-192	1,241.15	080
125	60	362	433	40	15.0	14	0-308	1,539.85	125
160	70	480	559	50	28.5	14	0-434	2,256.41	160

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		

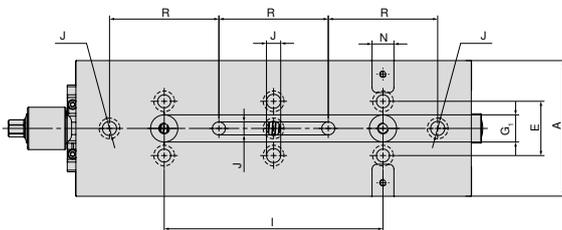
ESG 4 underside dimensions

Base width 80 mm and length 214 mm



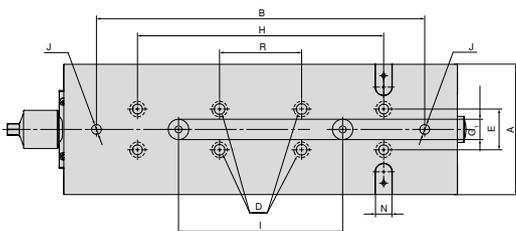
A	D	E	G ₁	H	I	K
mm	mm	mm	mm	mm	mm	mm
80	12	40	25	9	66	100

Base width 125 mm and length 362 mm



A	E	G ₁	I	J	N _{H7}	R
mm	mm	mm	mm	mm	mm	mm
125	50	25	200	13	12	100

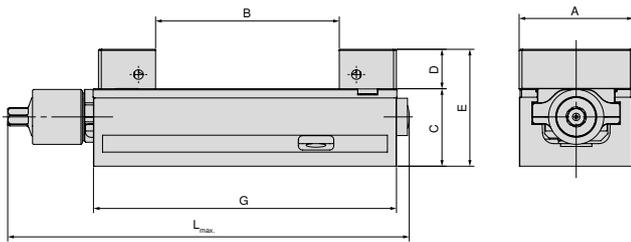
Base width 160 mm and length 480 mm



A	B	D	E	G ₁	H	I	J	N _{H7}	R
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	400	13	50	25	300	200	12	20	100

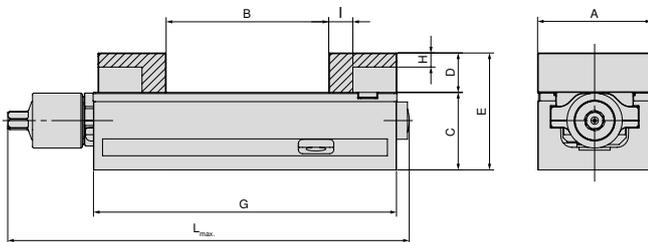
ESG 4 structural dimension table for the different jaws

With block jaws



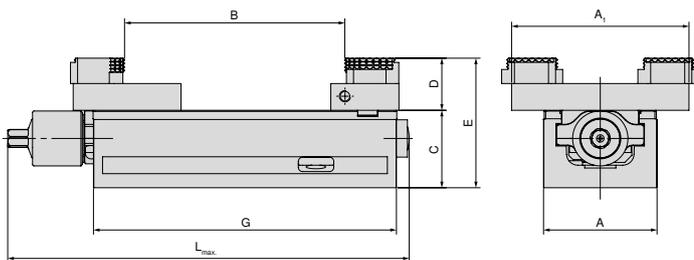
A mm	B mm	C mm	D mm	E mm	G mm	L _{max.} mm	Article no. System jaws
80	0 - 130	55	28	83	214	308	80 901 31200 + 80 901 31300
125	0 - 231	60	40	100	362	432	80 901 3140 + 80 901 31500
160	0 - 312	70	50	120	480	559	80 901 31600 + 80 901 31700

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

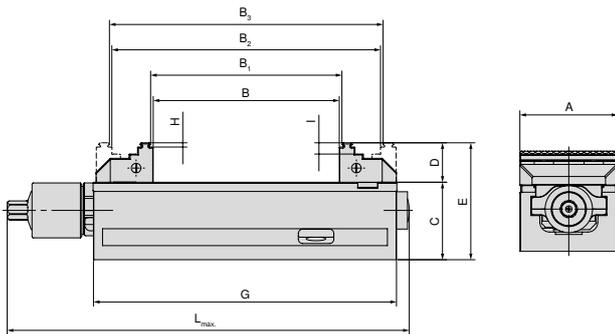
with pendulum and adapter plate



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

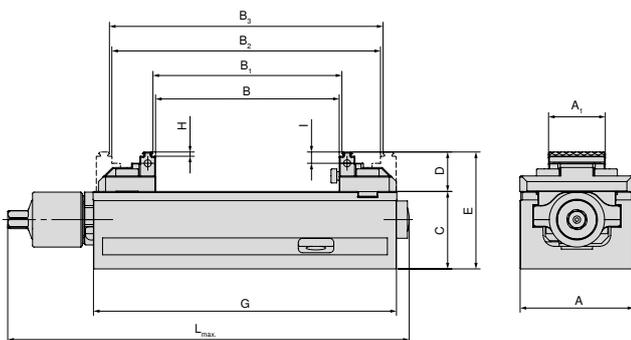
ESG 4 structural dimension table for the different jaws

With indexable jaws, grip 3 mm



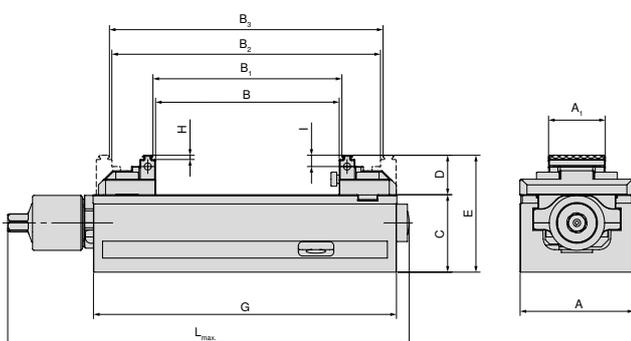
A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
80	0 - 130	4 - 134	59 - 188	63 - 192	55	28	83	214	3	8	284	80 901 306 + 80 878 810
125	0 - 231	8 - 238	71 - 301	78 - 308	60	40	100	362	3	18	433	80 901 302 + 80 901 303
160	0 - 310	8 - 317	117 - 427	125 - 434	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

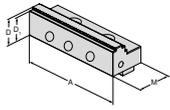


A mm	A ₁ mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	G mm	H mm	I mm	L _{max} mm	Article no. System jaws
125	65	0 - 240	8 - 247	77 - 317	84 - 324	60	33	93	362	3	9	432	80 901 305 + 0 878 565

System jaws overview

Description	A	D	D ₁	M	price	Article no.	Type association
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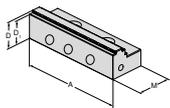
Indexable jaw, grip 3 mm, fixed



▲ Price per piece

				£	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	165.65	80 901 306				●	●					
125	40	37	66	228.41	80 901 302				●	●					
160	50	47	81	411.63	80 901 300				●	●				●	

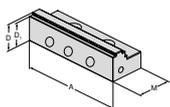
Indexable jaw, grip 3 mm, movable



▲ Price per piece

				£	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	66	228.41	80 901 303				●	●			●	●	

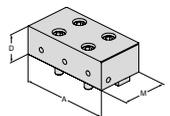
Indexable jaw, grip 3 mm, movable



▲ Price per piece

				£	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	159.77	80 878 810				●	●					
160	50	47	81	466.00	80 878 610				●	●			●	●	

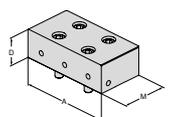
Block jaw, fixed



▲ Price per piece

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	28		40	291.81	80 901 31200				●	●					
125	40		66	406.44	80 901 31400				●	●					
160	50		81	513.27	80 901 31600				●	●					

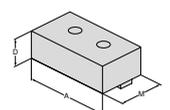
Block jaw, movable



▲ Price per piece

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	28		40	282.68	80 901 31300				●	●			●	●	
125	40		66	397.32	80 901 31500				●	●			●	●	
160	50		81	501.54	80 901 31700				●	●			●	●	

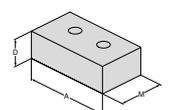
Alu jaw, fixed



▲ for producing shaped jaws
▲ Price per piece

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	28		48	102.91	80 901 307				●	●					
125	40		68	111.70	80 901 304				●	●					
160	50		85	125.50	80 901 301				●	●					

Alu jaw, movable



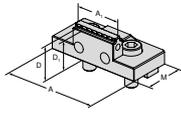
▲ for producing shaped jaws
▲ Price per piece

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80	28		48	99.86	80 878 850				●	●					
125	40		68	114.85	80 878 550				●	●			●	●	
160	50		85	125.50	80 878 305				●	●			●	●	

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	price	Article no.	Type association
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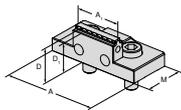
Reversible grip jaw, width 40 mm, fixed



- ▲ Price per piece
- ▲ Double-sided grip step

80	80	40	28	25	40	£	Y4	80 901 308	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input checked="" type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
						199.55			

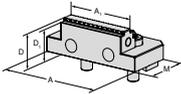
Indexable grip jaw 3 mm, width 40 mm, movable



- ▲ Price per piece

80	80	40	28	25	40	£	Y4	80 878 840	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input checked="" type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input checked="" type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
						213.03			

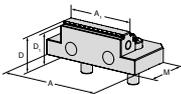
5-axis reversible grip jaw, width 65 mm, fixed



- ▲ price per piece
- ▲ double sided grip step

125	125	65	33	30	57	£	Y4	80 901 305	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input checked="" type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
						217.12			

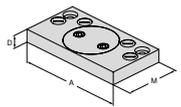
5-axis indexable jaw, grip 3 mm, width 65 mm, movable



- ▲ double sided grip step
- ▲ price per piece

125	95	65	33	30	57	£	Y4	80 878 565	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input checked="" type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input checked="" type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
						226.35			

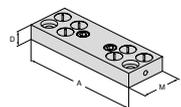
Pendulum jaw, movable



- ▲ Price per piece

80	125		19		76	£	Y4	80 878 870	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input checked="" type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input checked="" type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
125	180		22		95	472.67		80 878 570	
160	256		22		170	495.98		80 878 670	
						838.81			

Adapter jaw



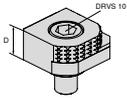
- ▲ Price per piece

80	125		19		48	£	Y4	80 901 501	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input checked="" type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
125	180		22		62	296.17		80 901 502	
160	256		22		125	352.64		80 901 503	
						494.46			

System jaws overview

Description	A	D	D ₁	M	price	Article no.	Type association
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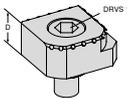
6 function indexable jaw



- ▲ 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

					£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	18				75.11	80 892 246	●	●	●	●	●	●	●	●	●	●

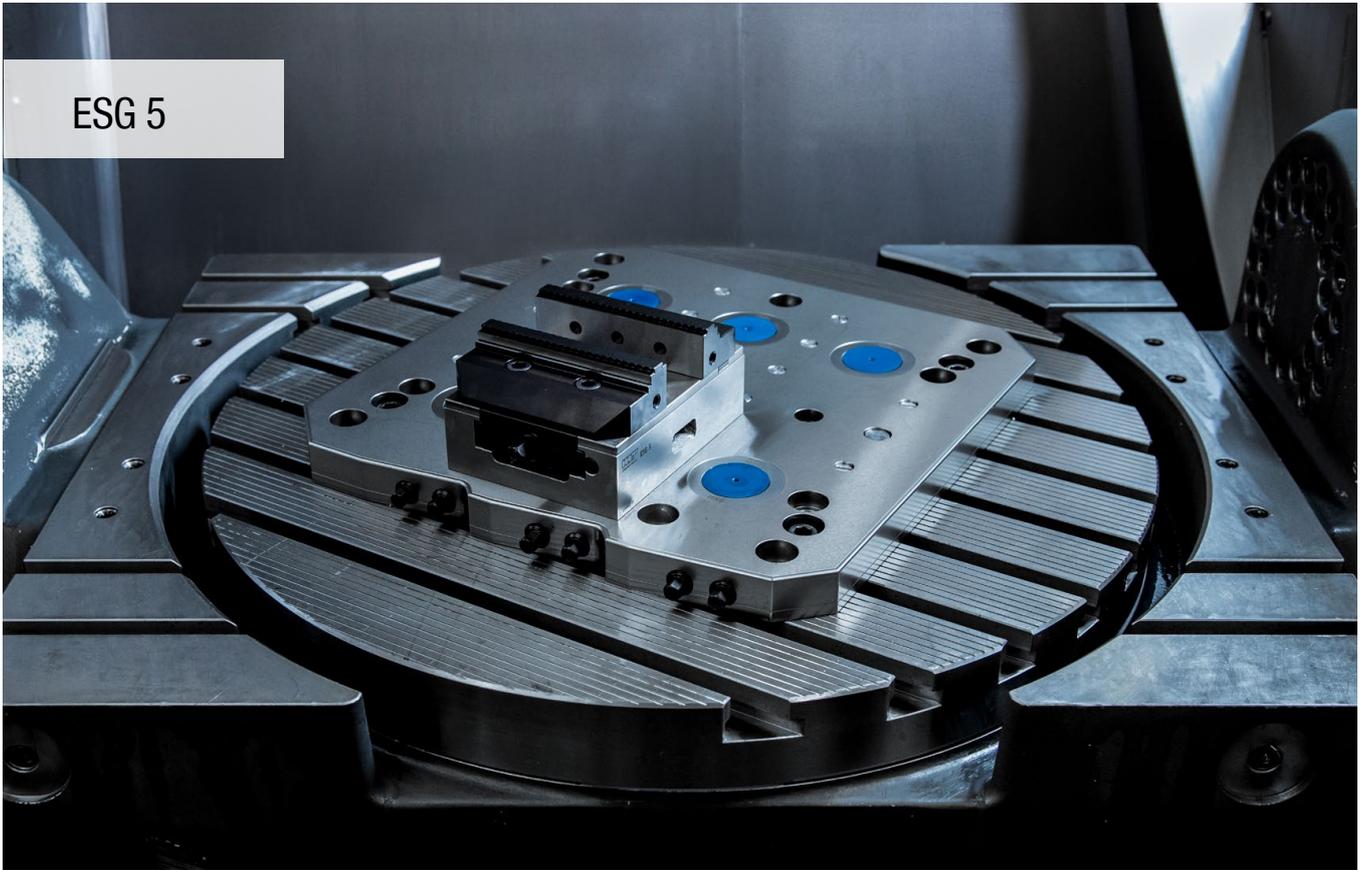
6x indexable jaw, carbide grip



- ▲ 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 Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	18				98.00	80 890 35300	●	●	●	●	●	●	●	●	●	●

ESG 5



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:

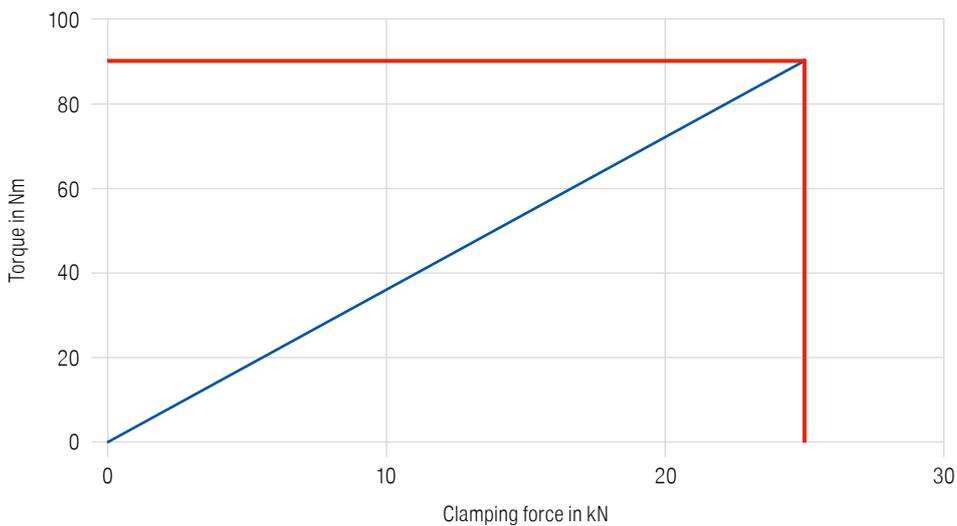


ESG 5 - 125 mm L-235 mm + L-300 mm
ESG 5 - 160 mm L-280 mm + L-480 mm

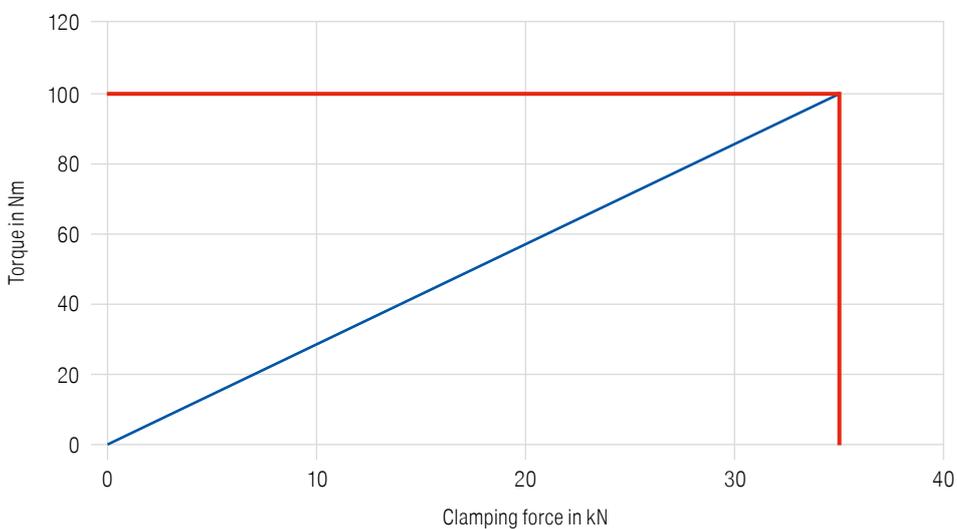
These 4 variants can also be clamped with clamping claws as an alternative.

Clamping force:

ESG 5 - 80 mm tightening torque / clamping force

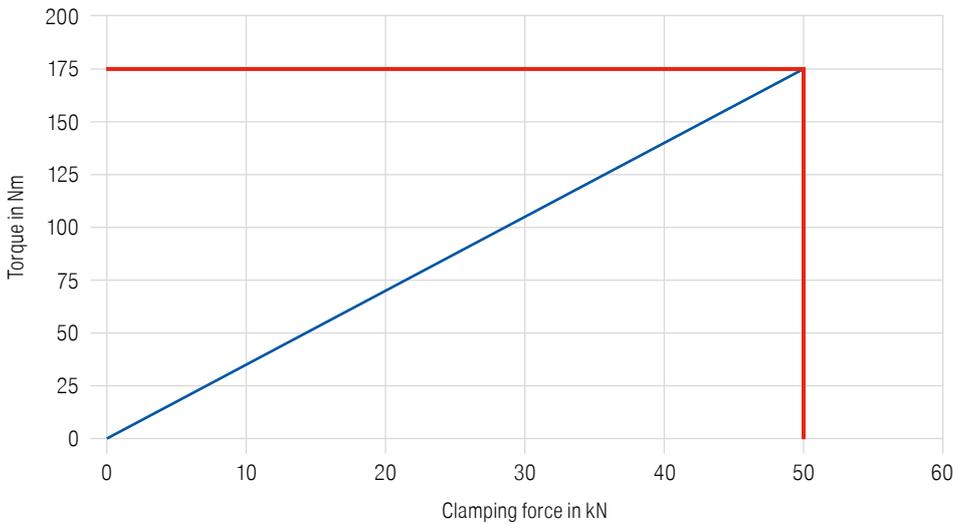


ESG 5 - 125 mm tightening torque / clamping force



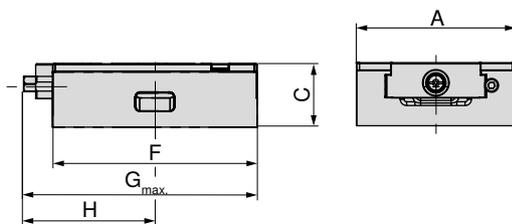
Clamping force:

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



NEW

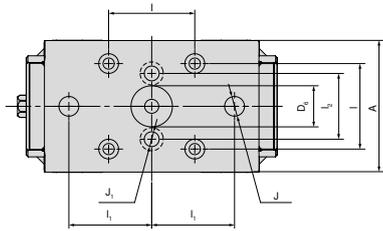
A	C _{±0.01}	F	G _{max.}	H	MXC	DRVS	WT	80 857 ...	
mm	mm	mm	mm	mm	kN	mm	kg	£	
80	50	130	155	82	25	12	2.9	472.50	08000
80	50	190	205	102	25	12	4.4	567.96	08100
125	50	160	183	103	35	12	6.0	699.00	12500
125	50	235	250	132	35	12	8.4	791.32	12600
125	50	300	320	170	35	12	10.5	963.13	12700
160	70	280	328	169	50	14	17.0	1,460.46	16000
160	70	480	506	267	50	14	30.0	1,742.04	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		

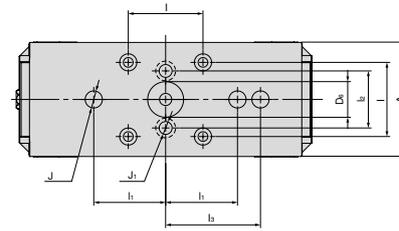
ESG 5 underside dimensions

Base width 80 mm and 130 mm length



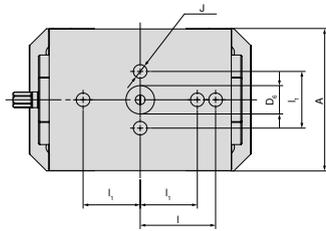
A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	I ₂	J H ₇	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	52	50	40	12	9

Base width 80 mm and length 190 mm



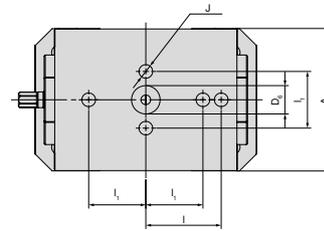
A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	I ₂	J H ₇	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	52	50	40	12	9

Base width 125 mm and length 160 mm



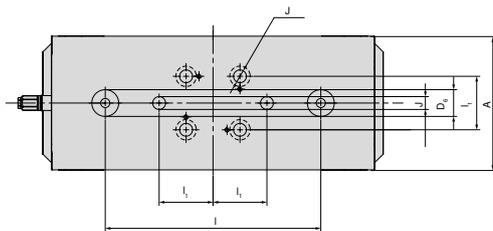
A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	J H ₇
mm	mm	mm	mm	mm
125	25	66	50	12

Base width 125 mm and length 235 mm



A	D ₆ H ₆	I ±0,015	I ₁	J
mm	mm	mm	mm	mm
125	25	200	50	12

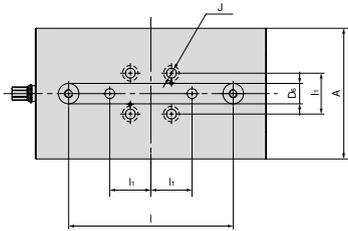
Base width 125 mm and 300 mm length



A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	J H ₇
mm	mm	mm	mm	mm
125	25	200	50	12

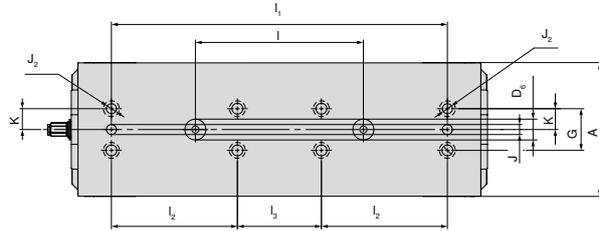
ESG 5 underside dimensions

Base width 160 mm and length 280 mm



A	D ₆ H ₆	l ±0,015	l ₁ ±0,015	J H ₇
mm	mm	mm	mm	mm
160	25	200	50	12

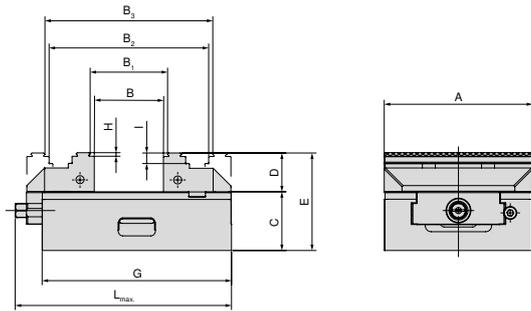
Base width 160 mm and length 480 mm



A	D ₆ H ₆	l ±0,015	l ₁ ±0,015	l ₂	l ₃ ±0,015	J H ₇	J ₂ F ₇	K ±0,02	G
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	25	200	400	150	100	12	12	25	50

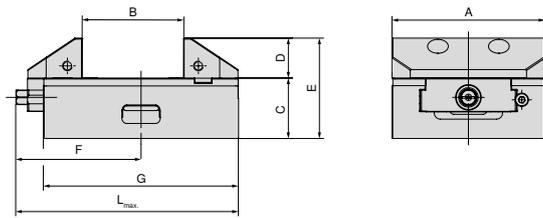
ESG 5 structural dimension table for the different jaws

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

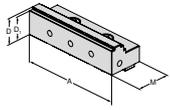


A mm	B mm	C mm	D mm	E mm	F mm	G mm	L _{max.} mm	Article no. System jaws
125	25 - 82	50	33	83	103	160	183	80 857 30200 + 80 857 30100
125	25 - 152	50	33	83	132	235	250	80 857 30200 + 80 857 30100
125	25 - 222	50	33	83	170	300	320	80 857 30200 + 80 857 30100

System jaws overview

Description	A	D	D ₁	M	price	Article no.	Type association
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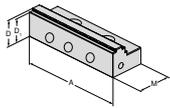
Indexable jaw, grip 3 mm, fixed



▲ Price per piece

125	33	30	66	£	Y4	80 857 30000	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td></td><td>●</td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2				●	●				●	
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																		
			●	●				●																			
				198.00																							

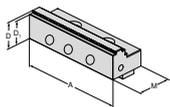
Indexable jaw, grip 3 mm, movable



▲ Price per piece

125	33	30	57	£	Y4	80 878 510	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td></td><td></td><td></td><td>●</td><td></td><td></td><td>●</td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2					●			●		
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																		
				●			●																				
				174.76																							

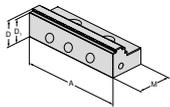
Indexable jaw, grip 3 mm, fixed



▲ Price per piece

80	28	25	40	£	Y4	80 901 306	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2				●	●					
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																		
			●	●																							
160	50	47	81	165.65		80 901 300	<table border="1"> <tr><td></td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr> </table>				●	●															
			●	●																							
				411.63																							

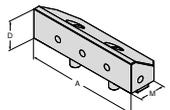
Indexable jaw, grip 3 mm, movable



▲ Price per piece

80	28	25	40	£	Y4	80 878 810	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td>●</td><td>●</td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2				●	●			●	●	
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																		
			●	●			●	●																			
160	50	47	81	159.77		80 878 610	<table border="1"> <tr><td></td><td></td><td></td><td>●</td><td>●</td><td></td><td></td><td>●</td><td></td><td></td></tr> </table>				●	●			●												
			●	●			●																				
				466.00																							

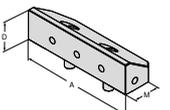
5-axis indexable jaw, fixed



▲ price per piece

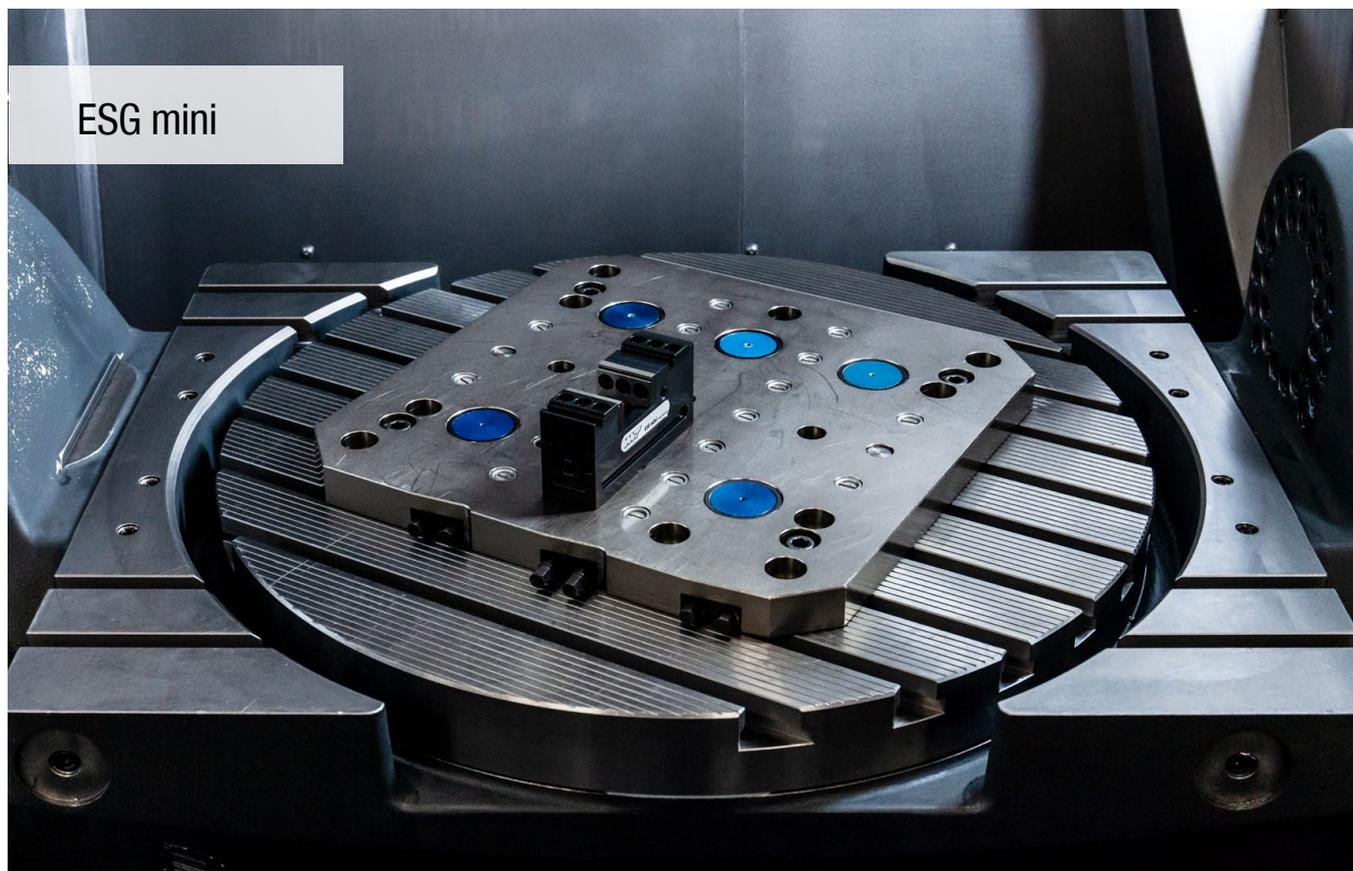
125	33		44,5	£	Y4	80 857 30100	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td></td><td></td><td></td><td>●</td><td></td><td></td><td>●</td><td>●</td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2					●			●	●	
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																		
				●			●	●																			
				190.91																							

5-axis indexable jaw, movable



▲ price per piece

125	33		44,5	£	Y4	80 857 30200	<table border="1"> <tr><td>NCG</td><td>H5G / -S / -Z</td><td>X5G-Z / -S</td><td>ESG 4</td><td>ESG 5</td><td>ESG mini</td><td>HDG 2</td><td>ZSG 4</td><td>DSG 4</td><td>MSG 2</td></tr> <tr><td></td><td></td><td></td><td></td><td>●</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2					●					
NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2																		
				●																							
				190.91																							



ESG mini

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).



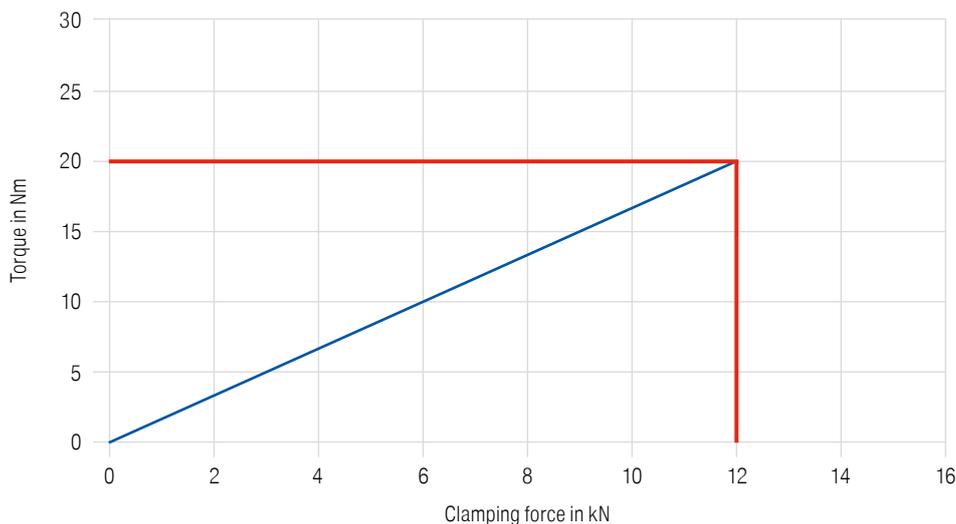
With clamping claws, the ESG mini 100 mm can be directly clamped on grid plates (50 mm x 50 mm) in a grid dimension of 100 mm x 100 mm or T-slot tables with 100 mm spacing.



An MNG mounting hole is integrated in the ESG mini 100 mm base body for the MNG zero point clamping system.

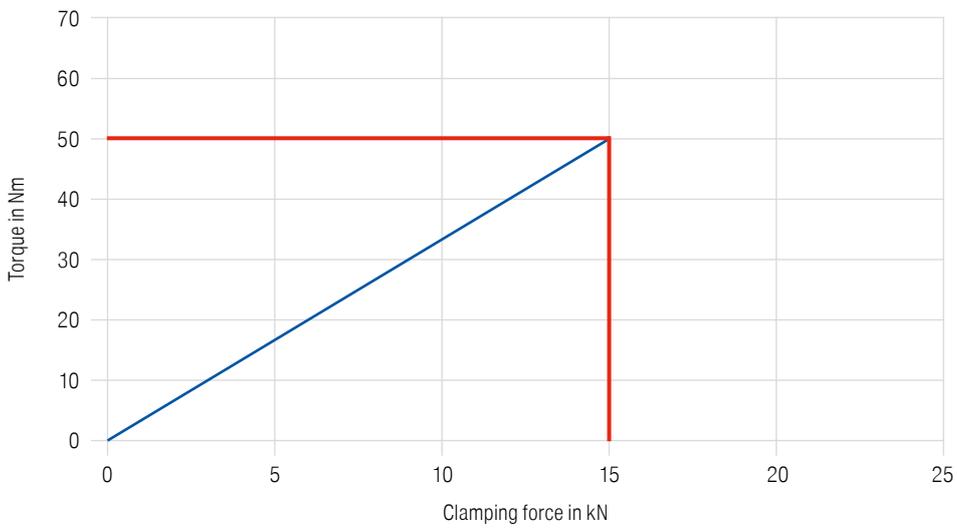
Clamping force:

ESG mini – 40 mm tightening torque/clamping force

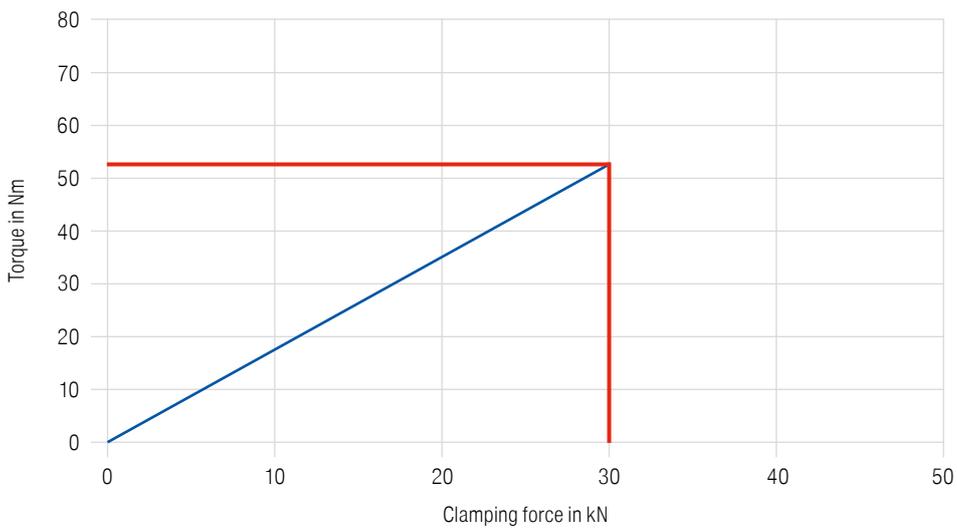


Clamping force:

ESG mini – 65 mm tightening torque/clamping force



ESG mini – 100 mm tightening torque/clamping force



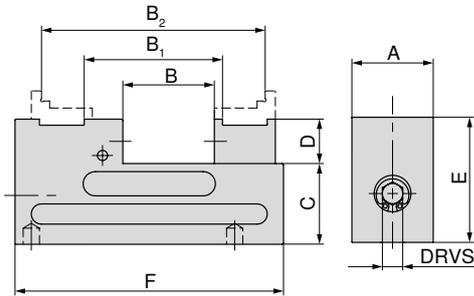
Sealed single small parts vice, 40 mm

- ▲ 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**



80 897 ...

A	B	B ₁	B ₂	C _{+0/-0.01}	D	E	F	TQX	MXC	DRVS	WT
mm	mm	mm	mm	mm	mm	mm	mm	Nm	kN	mm	kg
40	0-58	40-81	83-122	40	22	62	132	20	12	8	1.7

£
Y4
577.23 040

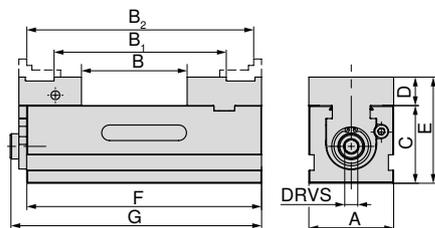
Sealed small parts single vice, 65 mm

- ▲ Adapter plate for mounting with MNG possible

Scope of supply:

ESG mini incl. base jaws

**ESG
mini**



80 897 ...

A	B	B ₁	B ₂	C _{+0/-0.02}	D	E	F	G	TQX	MXC	DRVS	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	Nm	kN	mm	kg
65	17-80	68-131	111-174	60	22	82	180	193	65	20	10	5.5

£
Y4
1,012.57 067

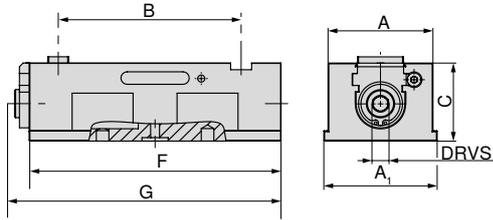
Vice guide

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



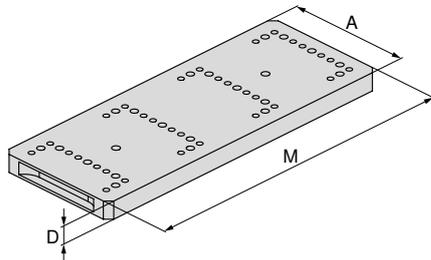
A	A ₁	B	C _{-0/-0.02}	F	G	TQX	MXC	DRVS	WT	80 897 ...	
mm	mm	mm	mm	mm	mm	Nm	kN	mm	kg	£	Y4
100	100	91 - 189	75	240	269	70	40	14	11.3	1,520.23	100

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



Picture shows 4 location design

for	A	D	M	80 897 ...	
	mm	mm	mm	£	Y4
4 x ESG mini 40	140	20	360	649.54	944 ¹⁾
6 x ESG mini 40	140	20	560	1,002.82	946 ¹⁾

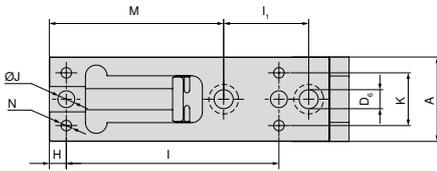
1) Not ex-stock

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		

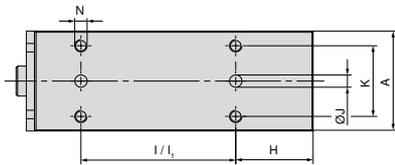
ESG mini underside dimensions

Base width 40 mm



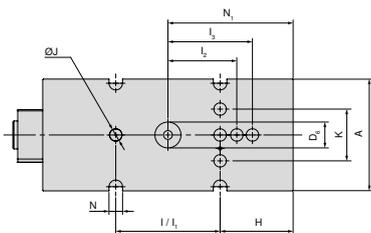
A	H	I ±0.02	I ₁	J _{H7}	M	K	N
mm	mm	mm	mm	mm	mm	mm	
40	8	100	40	8	82	25	M6

Base width 65 mm



A	I	I ₁ ±0.015	K	J _{H7}	H	N
mm	mm	mm	mm	mm	mm	
65	100	100	46	8	50	M8

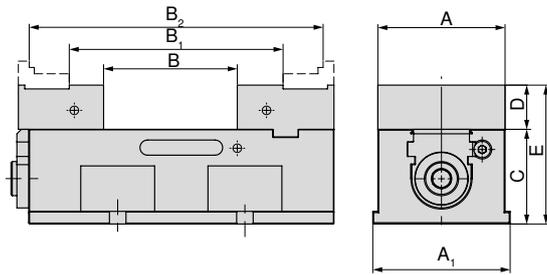
Base width 100 mm



A	D _{6 H7}	I ₁ ±0.015	I ₂ ±0.015	I ₃ ±0.015	H	I ±0.015	K	J _{H7}	N ₁	N
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	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

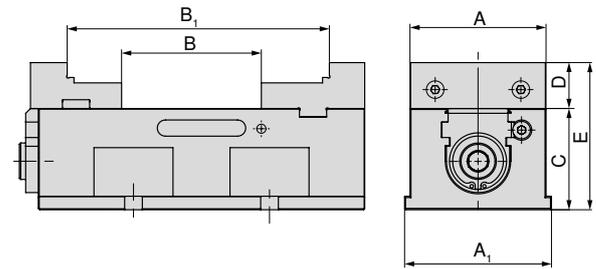


A mm	A ₁ mm	B mm	B ₁ mm	B ₂ mm	C mm	D mm	E mm
100	108	21 - 117	84 - 180	147 - 243	75	35	110

Article no.
System jaws

80 897 900 + 80 897 901, 2 x 80 895 349

with combi jaws from the NCG 100 system

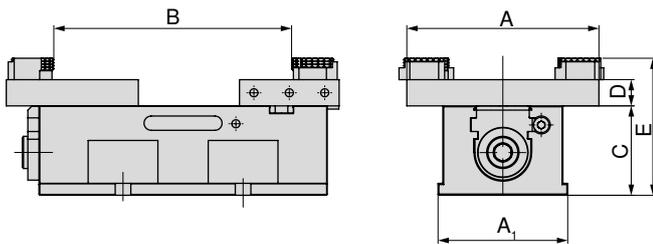


A mm	A ₁ mm	B mm	B ₁ mm	C mm	D mm	E mm
100	108	21 - 117	111 - 207	75	34	109

Article no.
System jaws

80 890 343 + 80 890 347

with pendulum jaws from the NCG system and adapter jaws, fixed

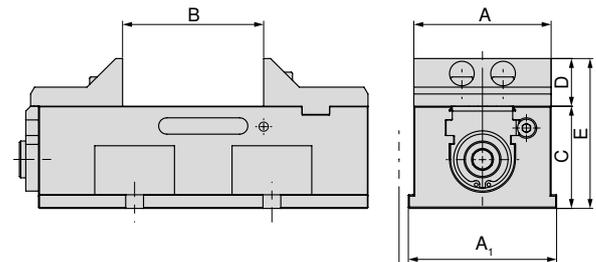


A mm	A ₁ mm	B mm	C mm	D mm	E mm
160	108	24 - 212	75	22	115

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

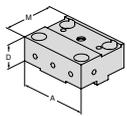
Article no.
System jaws

80 897 916 + 80 897 917

System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	price	Article no.	Type association
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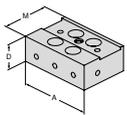
Standard base jaws, fixed



▲ Price per piece

100			35				76		£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									229.50	80 897 900						●				

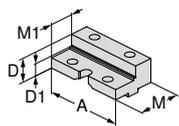
Standard base jaw, movable



▲ Price per piece

100			35				67		£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									229.50	80 897 901						●				

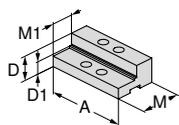
Combi reversible jaw, fixed



- ▲ For the extension of the clamping range
- ▲ Jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

100			34	23			76	50	£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									285.14	80 890 343						●				

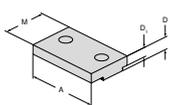
Combi reversible jaw, movable



- ▲ For the extension of the clamping range
- ▲ Jaws hardened
- ▲ includes fixing bolts
- ▲ price per piece

100			34	23			67	40	£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									285.14	80 890 347						●				

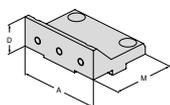
Soft jaw, horizontal



- ▲ for producing shaped jaws
- ▲ Price per piece

65			11,5	8,6			40		£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
100			13,5	10,6			50		35.06	80 895 338						●				
									42.37	80 895 348						●				

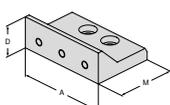
5 axis base jaws, fixed



▲ Price per piece

100			35				76		£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									229.50	80 897 916						●				

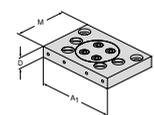
5 axis base jaws, movable



▲ Price per piece

100			35				67		£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									229.50	80 897 917						●				

Pendulum jaw, movable



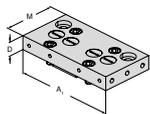
- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws (with A = 100 mm, 4 pieces)

100	160		22				110		£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
									401.97	80 890 322						●				

System jaws overview

Description	A	A ₁	D	D ₁	M	M ₁	price	Article no.	Type association
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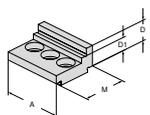
Adapter jaws, fixed



- ▲ for holding 6-way reversible jaws
- ▲ price per piece
- ▲ incl. 6 cover screws (with A = 100 mm, 4 pieces)

100	160	22		83			£ 278.18	Y4 80 897 920	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
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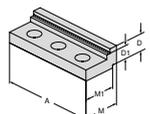
Jaw, smooth VS, carbide coated



- ▲ increased clamping range for finishing and 2 sided
- ▲ Price per piece

40		14	9	30			£ 144.66	Y4 80 895 341	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
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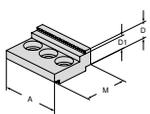
Jaw, smooth VS, carbide coated



- ▲ Increased clamping range for finish machining and 2nd operation
- ▲ Price per piece

65		16,7	11,7	32	27		£ 144.66	Y4 80 895 347	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
100		19	14	40	35		£ 159.95	80 895 349	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2

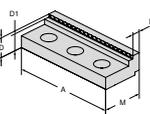
Jaw, grip, VS



- ▲ increased clamping range for clamping of unmachined parts
- ▲ Price per piece

40		14	9	30			£ 45.90	Y4 80 895 334	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
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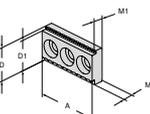
Jaw, grip, VS



- ▲ Increased clamping range for clamping of blanks
- ▲ Price per piece

65		11,5	8,5	27	8,5		£ 37.55	Y4 80 895 336	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
100		20	17	40	8,5		£ 75.11	80 895 346	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2

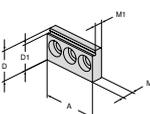
Grip stepped jaw, reversible



- ▲ for vertical and horizontal application
- ▲ Price per piece

40		22	20	8	5,5		£ 34.17	Y4 80 895 320	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
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Stepped jaw, smooth



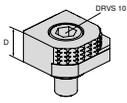
- ▲ can be used as smooth jaw or stepped jaw horizontally or vertically
- ▲ Hardened and ground jaws
- ▲ Price per piece

40		22	19	8	5,5		£ 67.34	Y4 80 895 318	<input type="checkbox"/> NCG <input type="checkbox"/> H5G / -S / -Z <input type="checkbox"/> X5G-Z / -S <input type="checkbox"/> ESG 4 <input type="checkbox"/> ESG 5 <input checked="" type="checkbox"/> ESG mini <input type="checkbox"/> HDG 2 <input type="checkbox"/> ZSG 4 <input type="checkbox"/> DSG 4 <input type="checkbox"/> MSG 2
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System jaws overview

Description	A	D	D ₁	M	price	Article no.	Type association
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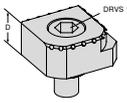
6 function indexable jaw



- ▲ 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

					£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	18				75.11	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 Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	18				98.00	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 ...	
	£	Y4
	58.91	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

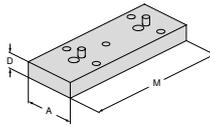


for width mm	G	80 897 ...	
		£	Y4
		53.32	121

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 ...	
				£	Y4
				340.78	904
65	65	20	180	459.00	906

Clamping screw for top jaws

▲ price per piece

ZSG
mini

ESG
mini



G	80 895 ...	
	£	Y4
	1.31	013

Fixing set for mounting through the body

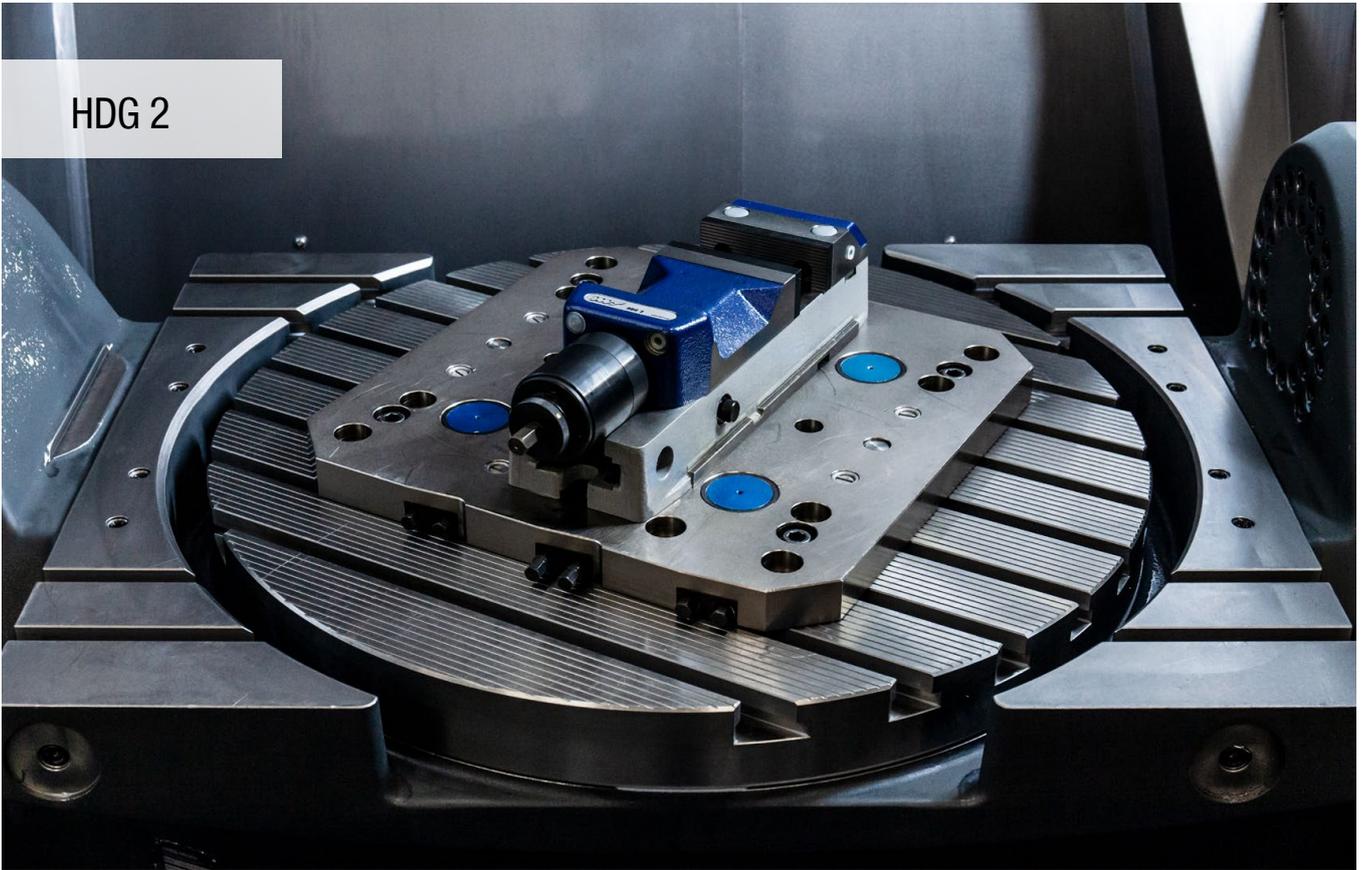
▲ price per set

Scope of supply:
▲ 2 screws M8
▲ 2 straight pins Ø 8 mm



G	J mm	80 897 ...	
		£	Y4
		16.63	019

HDG 2



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

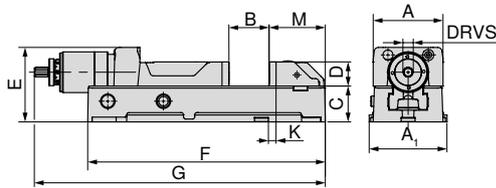
High pressure vice

- ▲ 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**



80 892 ...

A	A ₁	B	C ^{+0/-0.02}	D	E	F	G _{max.}	K _{±0.015}	M	DRVS	MXC	WT	£	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	Y4	
100	112	0-159	52	35	108	342	521	11	81	12	4-30	20	1,994.53	100
125	140	0-201	62	40	118	400	584	28	85	12	4-40	27	2,278.27	125
160	176	0-300	78	50	149	544	784	40	112	12	5-60	55	3,069.66	160

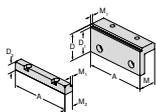
Vice guide

Underside Dimensions	70	System accessories	69-70
General accessories	134-149		

System jaws overview

Description	A	D	D ₁	D ₂	M	M ₁	M ₂	price	Article no.	Type association
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Jaws for clamping range extension



▲ Price per set (1 fixed and 1 movable jaw)

							£	Y4						
100	56	50	22	37	5	19	356.08	80 892 225						
125	56	50	22	37	5	19	481.25	80 892 226						
160	71	65	23	47	5	23,5	538.26	80 892 227						

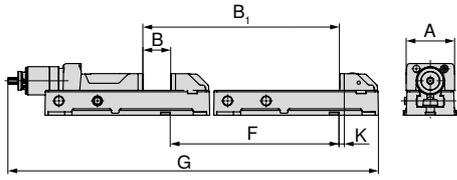
Illustration with extended clamping range



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	B	B ₁	F	G	K	80 892 ...	
mm	mm	mm	mm	mm	mm	£	
100	0-159	350-509	450	871,3	11	1,318.34	51000
125	0-201	410-611	410	994,1	28	1,444.71	51100
160	0-300	550-850	550	1334,15	40	1,985.32	51200

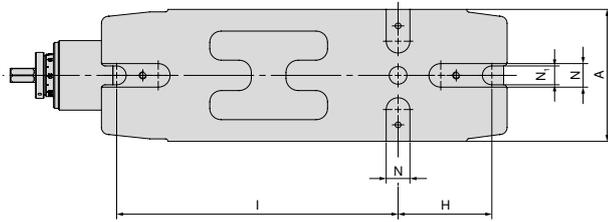
Shown with base body extension



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 ... £ Y4	
100/125	406.13	314
160	440.91	315

Hand crank

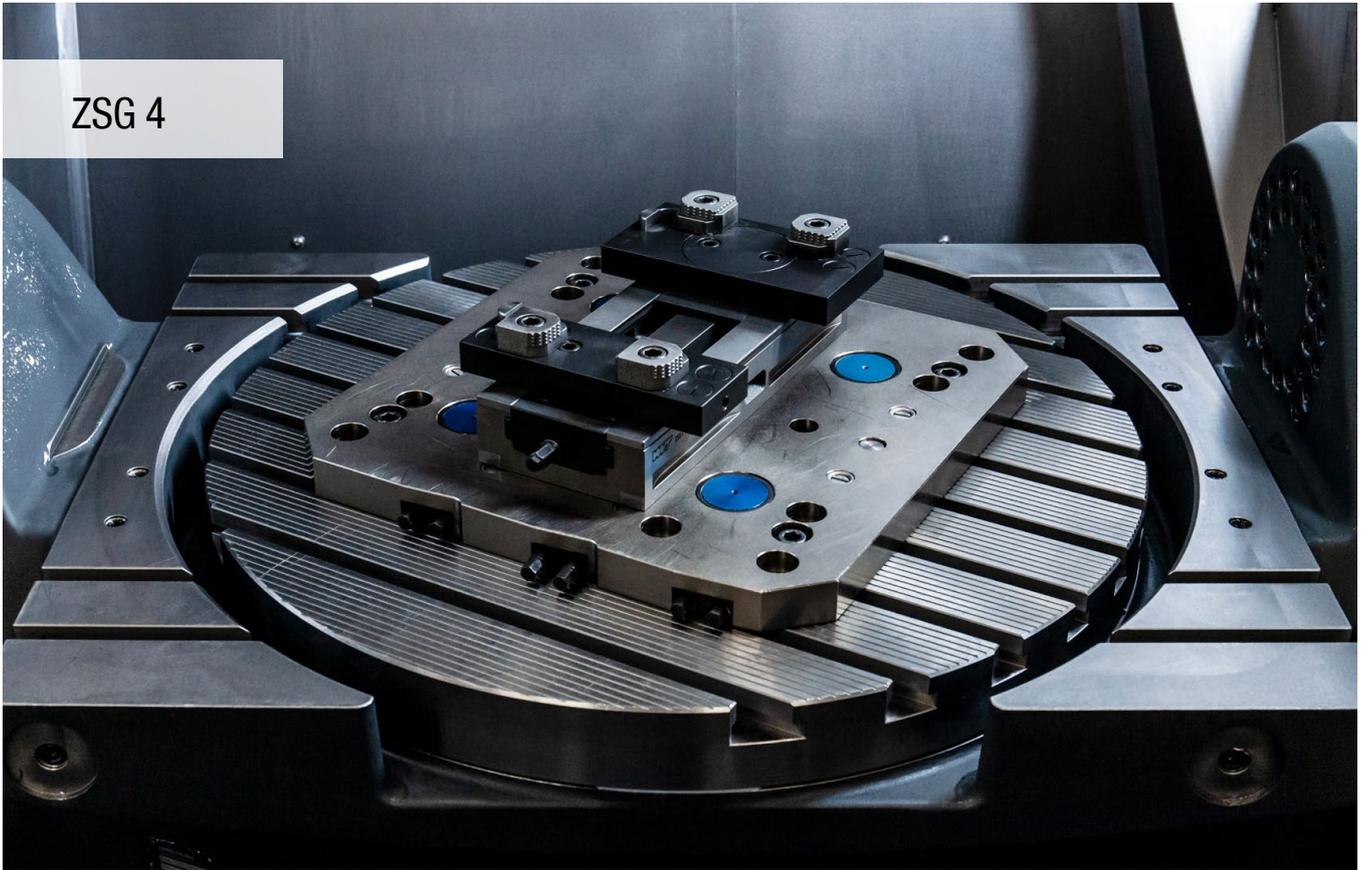
▲ for fast adjustment

HDG
2



for width mm	DRVS mm	80 892 ... £ Y4	
100/125	12	74.35	124
160	12	93.18	164

ZSG 4



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.

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.

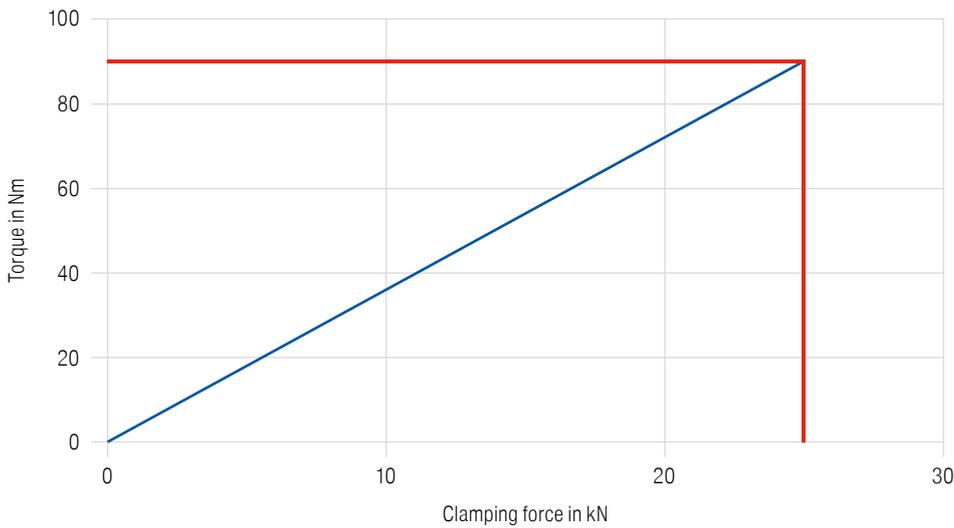


ZSG 4 - 80 mm L-130 mm + L-190 mm
ZSG 4 - 125 mm L-160 mm + L-235 mm + L-300 mm

All 5 variants are also available with mounting holes for the LANG zero point clamping system.

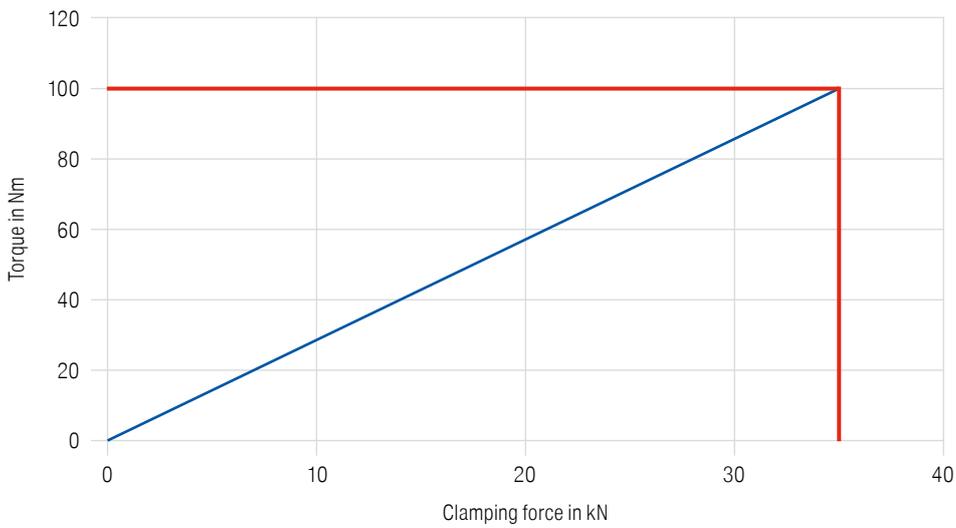
Clamping force:

ZSG 4 - 80 mm tightening torque/clamping force

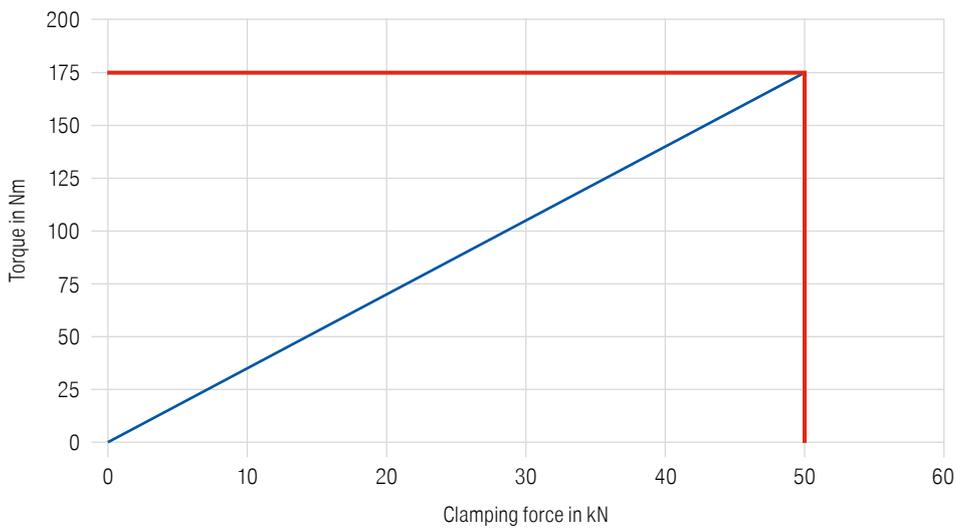


Clamping force:

ZSG 4 – 125 mm tightening torque/clamping force

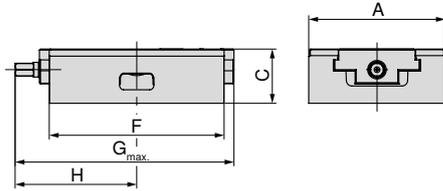


ZSG 4 – 160 mm tightening torque/clamping force



Sealed Centric Vice

- ▲ without system jaws
- ▲ ball bearing mounted spindle
- ▲ ±0.01 mm repeatability



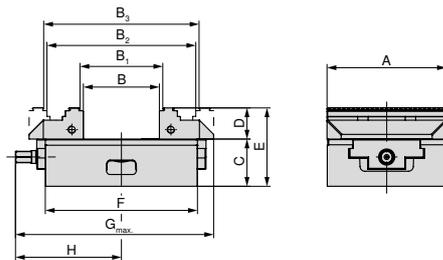
NEW

80 878 ...

A	C _{±0.01}	F	G _{max}	H	MXC	WT	£	
mm	mm	mm	mm	mm	kN	kg	Y4	
80	50	130	157	81	25	3.0	659.06	081
80	50	190	206	104	25	4.5	775.11	08400
125	50	160	200	111,5	35	6.4	845.48	225
125	50	235	272	143,5	35	9.0	829.00	12900
125	50	300	340	181	35	11.8	1,314.80	226
160	70	280	315	172	50	21.0	1,745.66	160
160	70	480	524	276	50	35.0	3,734.70	260

Sealed Centric vice

- ▲ with 2 reversible grip jaws
- ▲ ball bearing mounted spindle
- ▲ ±0.01 mm repeatability



NEW

80 878 ...

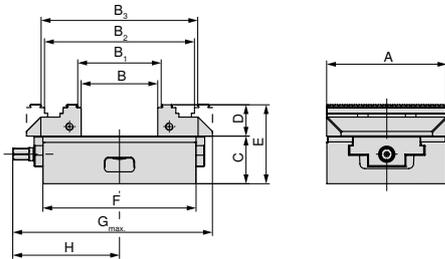
A	B	B ₁	B ₂	B ₃	C _{±0.01}	D	E	F	G _{max}	H	MXC	WT	£	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	Y4	
80	0-59	4-63	59-117	63-121	50	28	78	130	157	81	25	4.0	925.35	080
80	0-123	4-127	59-181	63-185	50	28	78	190	206	104	25	5.5	1,035.66	08300
125	0-80	8-87	77-156	84-163	50	33	83	160	208	111,5	35	8.7	1,140.05	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	1,611.04	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



A	B	B ₁	B ₂	B ₃	C _{±0,01}	D	E	F	G _{max.}	H	MXC	WT	80 878 ...	
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kg	£	
125	0 - 80	8 - 87	77 - 156	84 - 163	50	33	83	160	208	111,5	35	8.7	Y4	1,171.66 125



WNT MNG



Schunk VERO-S / WNT - PNG



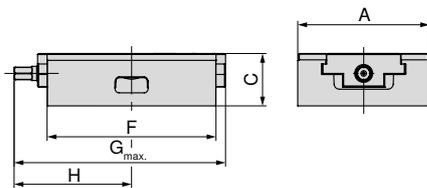
Lang Quick Point 96 x 96



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



A	C	F	G _{max.}	H	MXC	WT	NEW	
mm	mm	mm	mm	mm	kN	kg	£	
125	50	235	272	143,5	35	9.0	Y4	13000
125	50	160	200	111,5	35	6.3	860.00	878.77 325
125	50	300	348	181	35	11.8	992.72	12600



WNT MNG



Schunk VERO-S / WNT - PNG



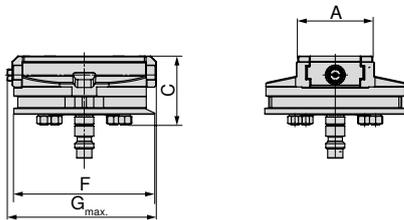
Lang Quick Point 96 x 96



Lang Quick Point 52 x 52

Sealed centric vice for Erowa ITS 148

- ▲ without system jaws
- ▲ ball bearing mounted spindle
- ▲ ±0.01 mm repeatability



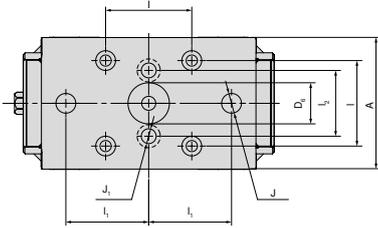
A mm	C mm	F mm	G _{max} mm	MXC kN	WT kg	80 878 ...	
80	73	148	157	25	5.6	£ Y4	1,386.74 082

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		

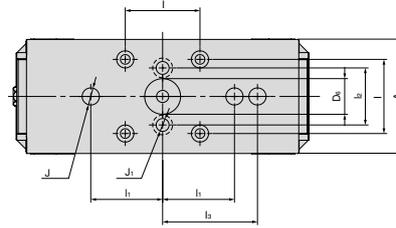
ZSG 4 underside dimensions

Base width 80 mm and 130 mm length



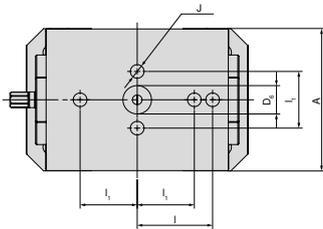
A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	I ₂	J H ₇	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	52	50	40	12	9

Base width 80 mm and length 190 mm



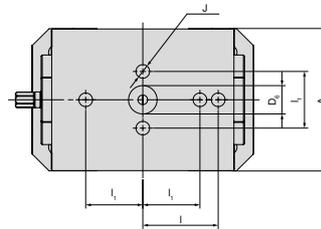
A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	I ₂	J H ₇	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	52	50	40	12	9

Base width 125 mm and length 160 mm



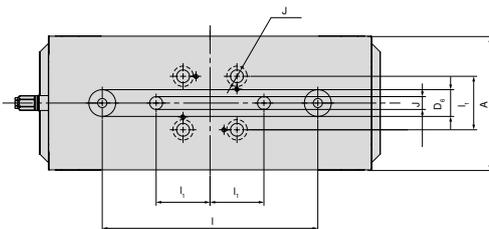
A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	J H ₇
mm	mm	mm	mm	mm
125	25	66	50	12

Base width 125 mm and length 235 mm



A	D ₆ H ₆	I ±0,015	I ₁	J
mm	mm	mm	mm	mm
125	25	66	50	12

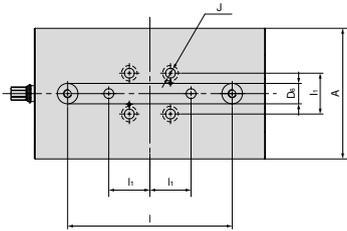
Base width 125 mm and 300 mm length



A	D ₆ H ₆	I ±0,015	I ₁ ±0,015	J H ₇
mm	mm	mm	mm	mm
125	25	200	50	12

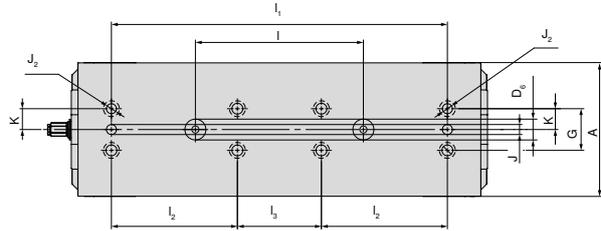
ZSG 4 underside dimensions

Base width 160 mm and length 280 mm



A	D ₆ H6	l ±0,015	l ₁ ±0,015	J H7
mm	mm	mm	mm	mm
160	25	200	50	12

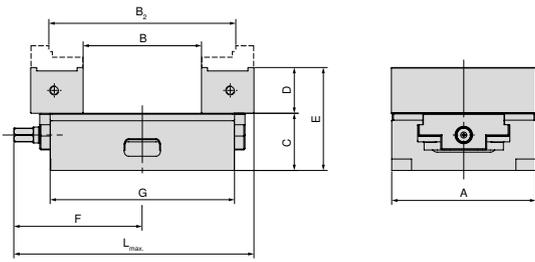
Base width 160 mm and length 480 mm



A	D ₆ H6	l ±0,015	l ₁ ±0,015	l ₂	l ₃ ±0,015	J H7	J ₂ F7	K ±0,02	G
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
160	25	200	400	150	100	12	12	25	50

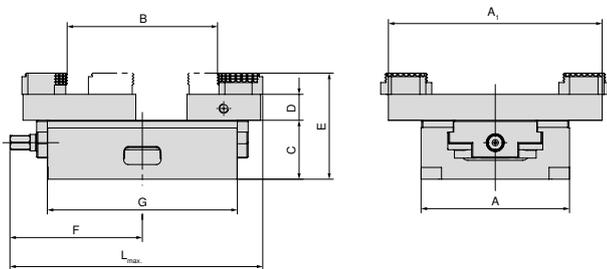
ZSG 4 structural dimension table for the different jaws

with combi jaws



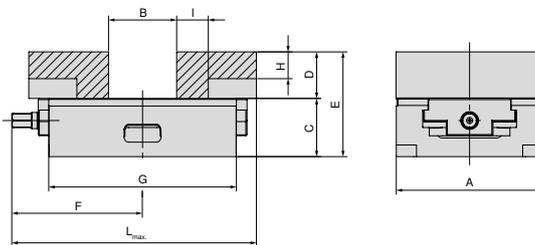
A mm	B mm	B ₂ mm	C mm	D mm	E mm	F mm	G mm	L _{max.} mm	Article no. System jaws
125	10,5-113	60-161	50	40	90	111,5	160	208	2 x 80 878 530
125	10,5-188	60-237	50	40	90	143,5	235	272	2 x 80 878 530
125	10,5-253	60-302	50	40	90	181	300	348	2 x 80 878 530

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

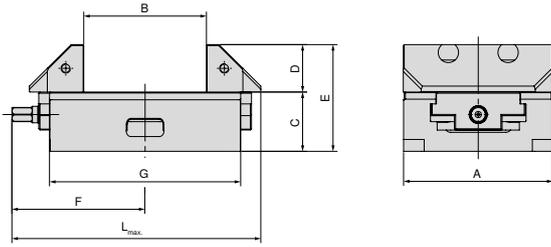
With aluminium jaws



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

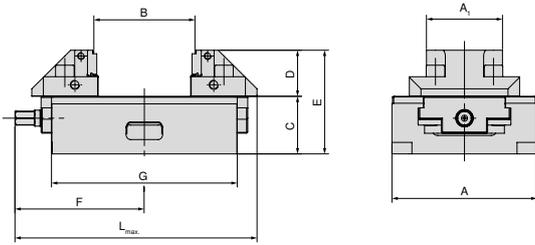
ZSG 4 structural dimension table for the different jaws

With 5-axis jaws



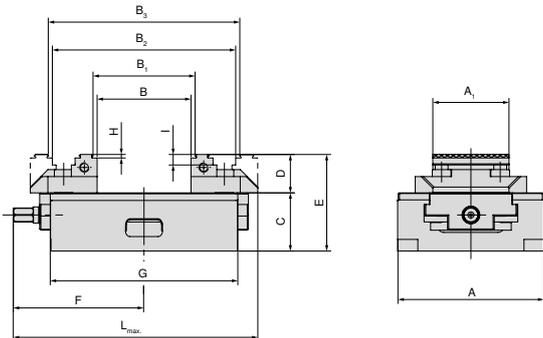
A mm	B mm	C mm	D mm	E mm	F mm	G mm	L _{max.} mm	Article no. System jaws
125	22 - 102	50	40	90	115,5	160	208	2 x 80 878 625
125	22 - 177	50	40	90	143,5	235	272	2 x 80 878 625
125	22 - 242	50	40	90	181	300	348	2 x 80 878 625
160	15 - 140	70	50	120	170	280	315	2 x 80 878 660
160	28 - 354	70	50	120	276	480	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

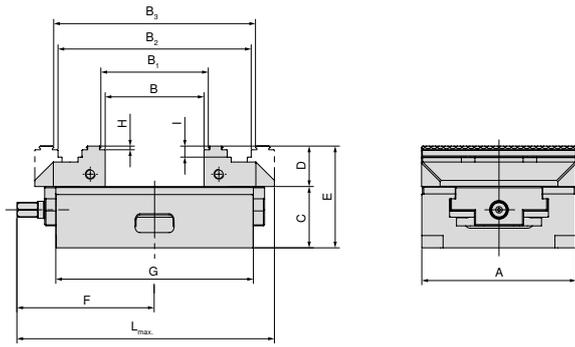
With indexable jaws, grip 3 mm, height 65 mm



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

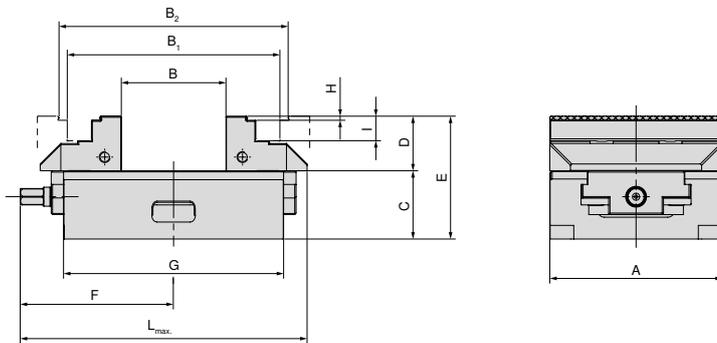
ZSG 4 structural dimension table for the different jaws

With indexable jaws, grip 3 mm



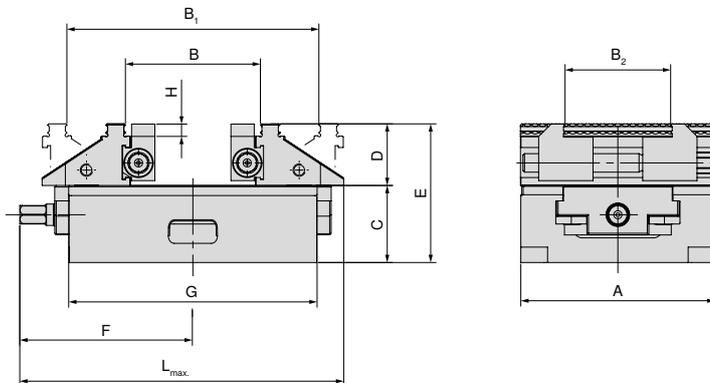
A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	L _{max.} mm	Article no. System jaws
160	0-127	8-134	118-244	125-251	70	50	120	170	280	3	10	315	2 x 80 878 610
160	15-341	22-348	132-458	139-465	70	50	120	276	480	3	10	524	2 x 80 878 610

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

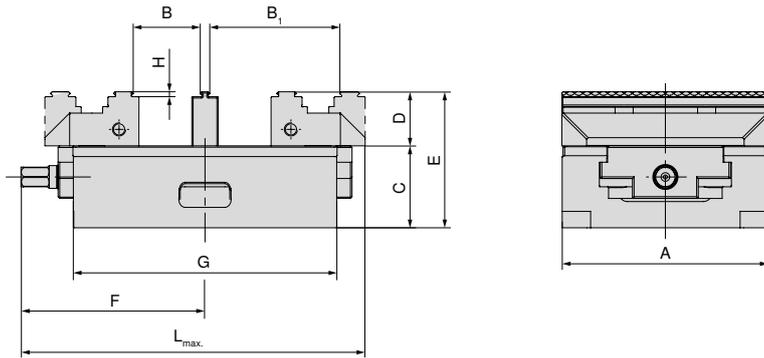
With 6 face jaw system for 125 mm jaw width



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

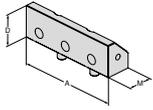


A mm	B mm	B ₁ mm	C mm	D mm	E mm	F mm	G mm	H mm	L _{max} mm	Article no. System jaws
80	8-28	37-57	50	28	78	81	130	3	157	2 x 80 878 810 + 80 878 31200
80	14-22	31-51	50	28	78	81	130	3	157	2 x 80 878 810 + 80 878 33400
80	8-58	37-87	50	28	78	104	190	3	206	2 x 80 878 810 + 80 878 31200
80	14-52	31-81	50	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

Description	for width	A	A ₁	D	D ₁	M	price	Article no.	Type association
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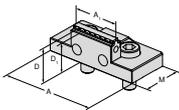
5-axis jaw, movable



▲ Price per piece

	125	160	40	50	45,5	73	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							261.30	80 878 625								●		
							319.54	80 878 660								●		

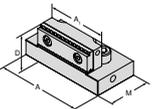
Indexable grip jaw 3 mm, width 40 mm, movable



▲ Price per piece

	80	80	40	28	25	40	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							213.03	80 878 840				●				●		

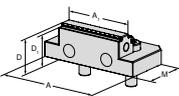
5-axis jaw, grip 3 mm, width 65 mm, movable



▲ Price per piece

	125	95	65,5	40		57	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							301.23	80 878 665				●				●		

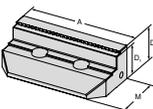
5-axis indexable jaw, grip 3 mm, width 65 mm, movable



▲ double sided grip step
▲ price per piece

	125	95	65	33	30	57	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							226.35	80 878 565				●				●		

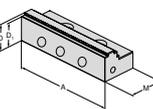
Indexable jaw, grip 3 mm, height 40 mm, movable



▲ Price per piece

	125		40	37	59	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
						326.20	80 878 520								●		

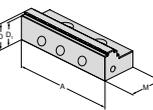
Indexable jaw, grip 3 mm, movable



▲ Price per piece

	80	125	160	28	33	50	25	30	47	40	81	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	
												159.77	80 878 810				●							
												174.76	80 878 510				●					●		
												466.00	80 878 610				●				●			

Indexable jaw, grip 5 mm, movable



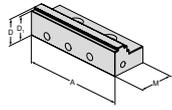
▲ Price per piece

	80	125	28	33	23	41	£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							184.99	80 878 81100								●		
							205.83	80 878 51100								●		

System jaws overview

Description	for width						price	Article no.	Type association							
		A	A ₁	D	D ₁	M			NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4

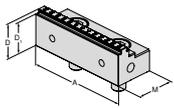
Indexable grip jaw, for aluminium and plastic



▲ Price per piece

							£	NEW Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
80		28			40	221.47	80 878 81200								●			
125		33	28	28	57	242.31	80 878 51200								●			

Indexable jaw embossed profile

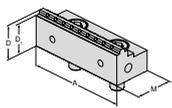


▲ Price per piece

▲ suitable for LANG embossed profile

							£	NEW 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	152.00	80 878 31000								●			
125		33	30	30	57	208.01	80 878 31100								●			

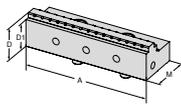
Indexable jaw, carbide, grip 3 mm, movable



▲ Price per piece

							£	NEW 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	215.00	80 878 31500								●			
125		33	30	30	57	305.00	80 878 31600								●			
160		50	47	81		480.00	80 878 31700								●			

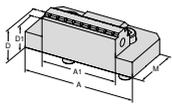
Indexable jaw, carbide, grip 5 mm, movable



▲ Price per piece

							£	NEW 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	40	205.22	80 878 33100								●			
125		33	28	28	57	291.13	80 878 33000								●			

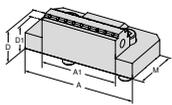
Indexable jaw, carbide grip 5 mm, width 40 mm, movable



▲ price per piece

							£	NEW 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	190.91	80 878 33200								●			

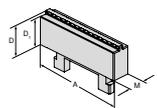
Indexable jaw, carbide grip 5 mm, width 65 mm, movable



▲ price per piece

							£	NEW 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	28	57	276.82	80 878 33300								●			

Centre jaw, grip 3 mm



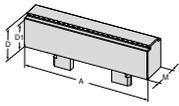
▲ price per piece

							£	NEW 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	16	98.00	80 878 31200								●			
125		33	30	30	16	138.00	80 878 31300								●			

System jaws overview

Description	for width	A	A ₁	D	D ₁	M	price	Article no.	Type association
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Centre jaw, grip 3 mm



▲ price per piece

	A	A ₁	D	D ₁	M	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80		28	25	24	£ 93.54	80 878 33400								●		
	125		33	30	26	£ 131.72	80 878 33500								●		

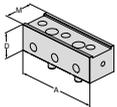
Prismatic jaw



▲ Prism jaw with horizontal and vertical prism
▲ price per piece

	A	A ₁	D	D ₁	M	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
10 - 60	80		52	32	38,5	£ 285.00	80 878 31800								●		
10 - 80	125		67	42	57	£ 435.00	80 878 31900								●		

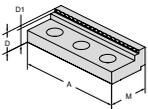
Combi jaw



▲ Price per piece

	A	A ₁	D	D ₁	M	price	Article no.	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	£ 201.38	80 878 530								●		

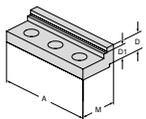
Jaw, grip, VS



▲ Price per piece

	A	A ₁	D	D ₁	M	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125		22	17	45	£ 108.18	80 892 245								●		

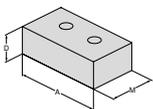
Jaw, smooth VS, carbide coated



▲ Increased clamping range for finish machining and 2nd operation
▲ Price per piece

	A	A ₁	D	D ₁	M	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125		19	14	45	£ 254.64	80 892 240								●		

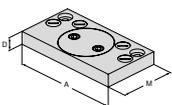
Alu jaw, movable



▲ for producing shaped jaws
▲ Price per piece

	A	A ₁	D	D ₁	M	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	80		28		48	£ 99.86	80 878 850				●				●	●	
	125		40		68	£ 114.85	80 878 550				●				●	●	
	160		50		85	£ 125.50	80 878 305				●				●	●	

Pendulum jaw, movable



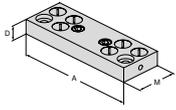
▲ Price per piece

	A	A ₁	D	D ₁	M	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
	125		19		76	£ 472.67	80 878 870				●				●	●	
	180		22		95	£ 495.98	80 878 570				●				●	●	
	256		22		170	£ 838.81	80 878 670				●				●	●	

System jaws overview

Description	for width	A	D	M	price	Article no.	Type association
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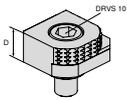
Adapter Jaw



▲ Price per piece

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2
80	125	19	39	346.19	80 878 890										
125	180	22	62	402.77	80 878 590								●		
160	256	22	125	559.19	80 878 690								●		

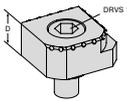
6 function indexable jaw



- ▲ 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

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2
		18		75.11	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

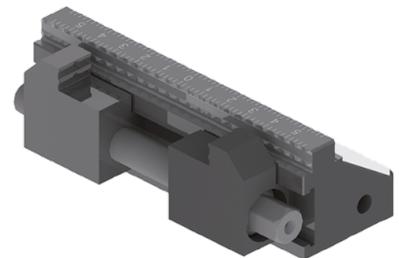
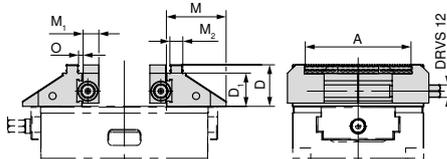
				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2
		18		98.00	80 890 35300	●	●	●	●	●	●	●	●	●	●

6 face jaw system for 125 mm jaw width

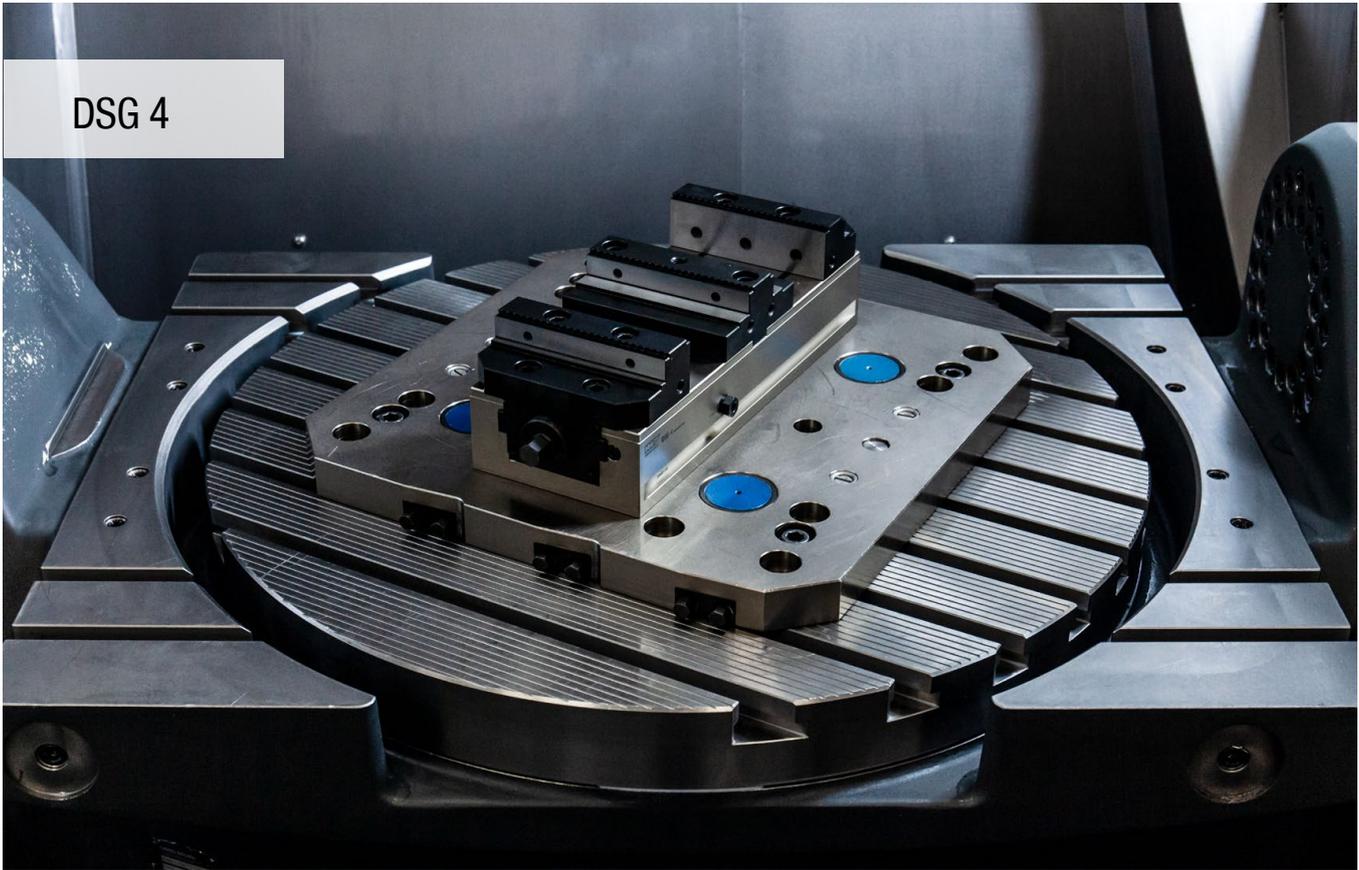
Scope of supply:

2 System jaws with 2 pairs of transverse jaws in T-slot guidance incl. fixing screws

ZSG
4



for width	A	D	D ₁	M	M ₁	M ₂	O	WT	£	Y4
125	37 - 101	40	32	57	15	12,4	3,3	3.8	2,050.41	525



DSG 4

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



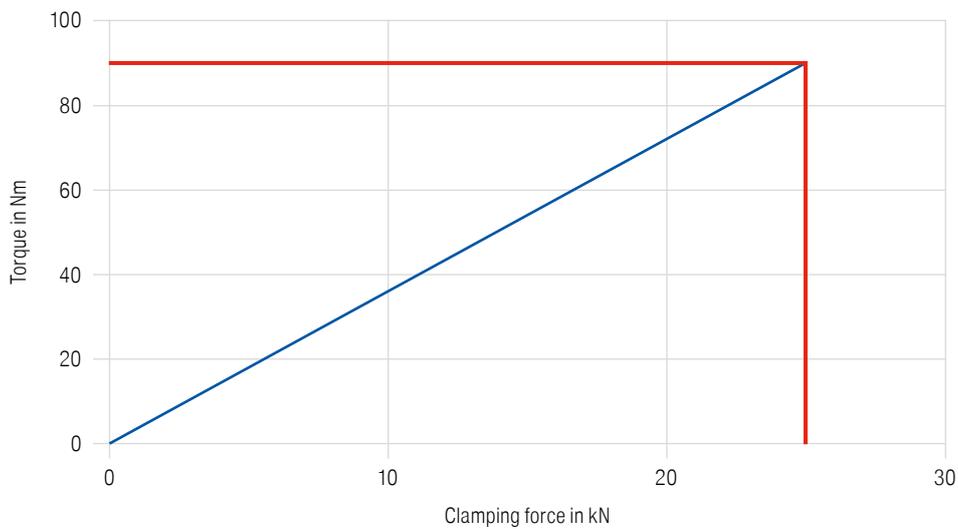
Mounting through the base body with two dowel screws **Article no. 80 895 019**



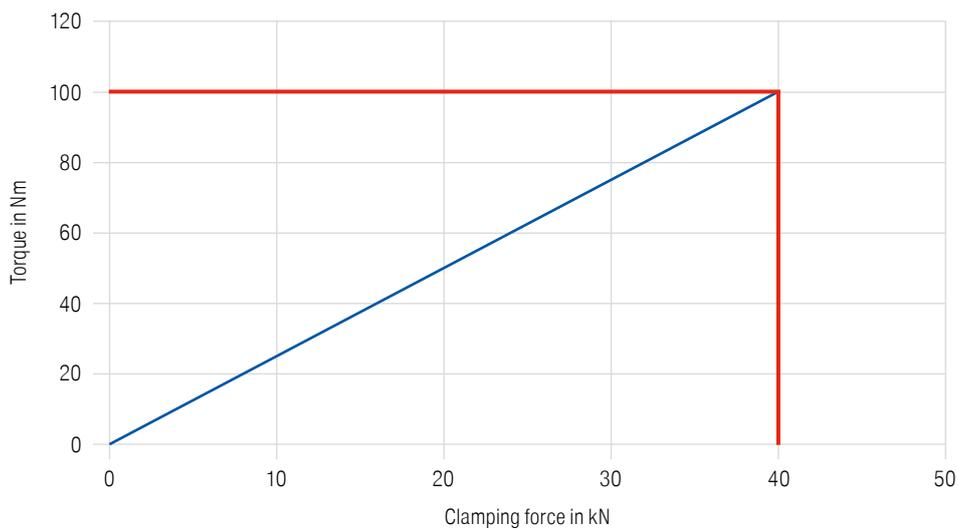
Mounting with 4 – 6 clamping claws **Article no. 80 890 315**

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.

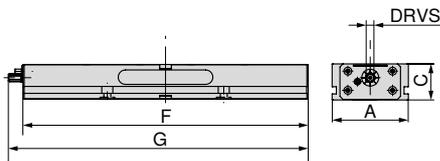
Conversion to single vice



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



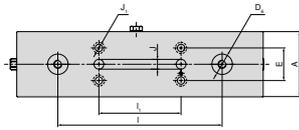
A mm	C mm	F mm	G mm	DRVS mm	TQX Nm	MXC kN	WT kg	80 906 ...	
								£ Y4	
80	55	300	308	12	90	0-25	8	1,578.15	080
125	60	320	347	14	100	0-40	14	1,868.80	125
125	60	390	417	14	100	0-40	17	2,377.44	12700
125	60	460	487	14	100	0-40	20	2,675.76	12800
125	60	530	557	14	100	0-40	24	2,915.46	12900
125	60	600	627	14	100	0-40	27	3,152.55	13000
125	60	670	697	14	100	0-40	30	3,301.06	13100
125	60	740	767	14	100	0-40	34	2,998.49	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		

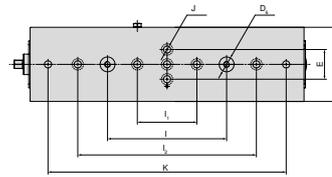
DSG 4 underside dimensions

Base width 80 mm and length 300 mm



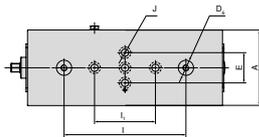
A	D ₆ H ₆	E ±0.015	I ±0.01	I ₁ ±0.01	J H ₇	J ₁
mm	mm	mm	mm	mm	mm	mm
80	25	40	200	100	12	9

Base width 125 mm and length 460 mm,
530 mm



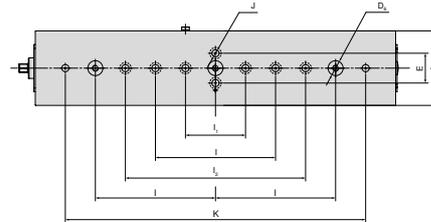
A	D ₆ H ₆	E ±0.015	I ±0.01	I ₁ ±0.01	I ₂ ±0.002	J H ₇	K ±0.002
mm	mm	mm	mm	mm	mm	mm	mm
125	25	50	200	100	300	12	400
125	25	50	200	100	300	12	500

Base width 125 mm and length 320 mm



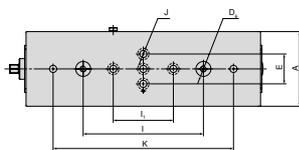
A	D ₆ H ₆	E ±0.015	I ±0.01	I ₁ ±0.01	J H ₇
mm	mm	mm	mm	mm	mm
125	25	50	200	100	12

Base width 125 mm and length 600 mm



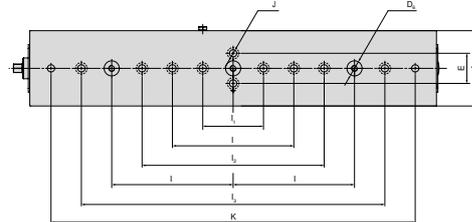
A	D ₆ H ₆	E ±0.015	I ±0.01	I ₁ ±0.01	I ₂ ±0.002	J H ₇	K ±0.002
mm	mm	mm	mm	mm	mm	mm	mm
125	25	50	200	100	300	12	500

Base width 125 mm and length 390 mm



A	D ₆ H ₆	E ±0.015	I ±0.01	I ₁ ±0.01	J H ₇	K ±0.002
mm	mm	mm	mm	mm	mm	mm
125	25	50	200	100	12	300

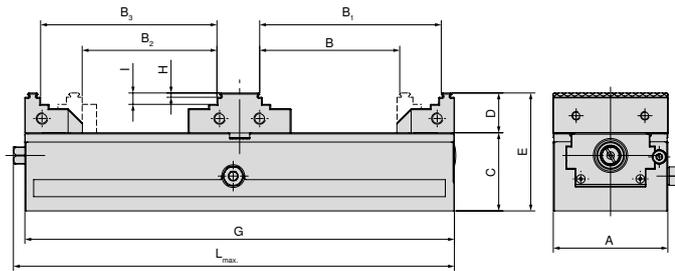
Base width 125 mm and length 670 mm,
740 mm



A	D ₆ H ₆	E ±0.015	I ±0.01	I ₁ ±0.01	I ₂ ±0.002	I ₃ ±0.025	J H ₇	K ±0.002
mm	mm	mm	mm	mm	mm	mm	mm	mm
125	25	50	200	100	300	500	12	600
125	25	50	200	100	300	500	12	700

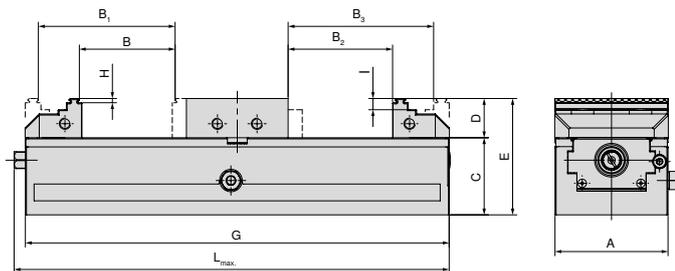
DSG 4 structural dimension table for the different jaws

With indexable jaws, grip and centre jaw, grip



A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	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

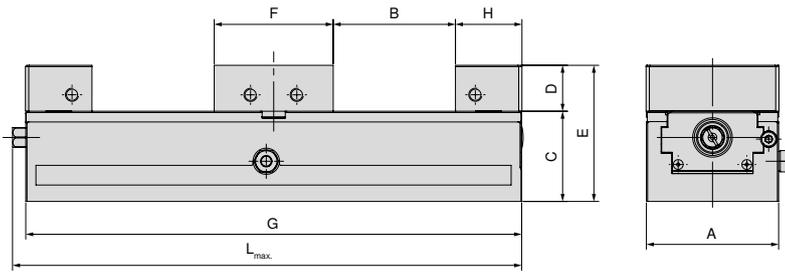
With indexable jaws, grip and centre jaw, smooth



A mm	B mm	B ₁ mm	B ₂ mm	B ₃ mm	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

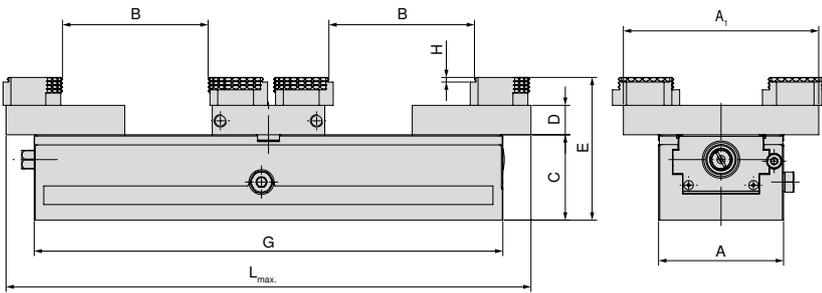
DSG 4 structural dimension table for the different jaws

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

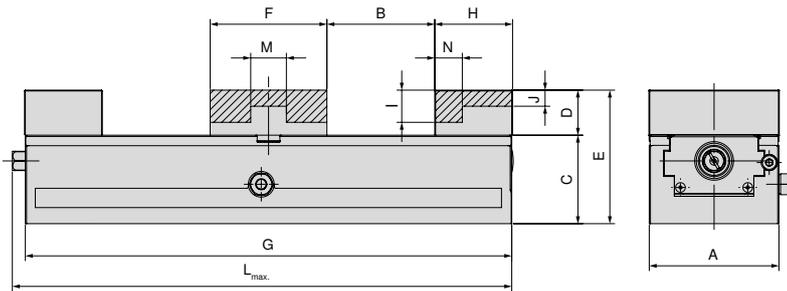
With pendulum and adapter plate



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

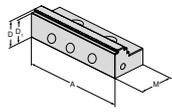


A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	L _{max.} mm	M mm	N mm	Article no. System jaws
80	0-66	55	28	83	72	300	40	20	10	308	22	17	2 x 80 878 850 + 80 906 302
125	0-42	60	40	100	98	320	68		17	347	38	28	2 x 80 878 550 + 80 906 306
125	0-77	60	40	100	98	390	68		17	417	38	28	2 x 80 878 550 + 80 906 306
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

Description	A	A ₁	D	D ₁	M	M ₁	price	Article no.	Type association
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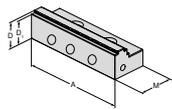
Indexable jaw, grip 3 mm, movable



▲ Price per piece

125		40	37	66			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							228.41	80 901 303				●				●	●	

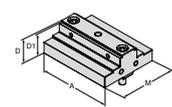
Indexable jaw, grip 3 mm, movable



▲ Price per piece

80		28	25	40			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
							159.77	80 878 810				●	●			●	●	

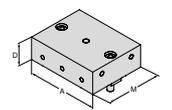
Centre jaw, grip



▲ Price per piece

80		28	25	72			£	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	98			281.57	80 906 300									●	
							367.86	80 906 304									●	

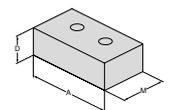
Centre jaw, smooth



▲ Price per piece

80		28		72			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125		40		98			215.72	80 906 301									●	
							321.31	80 906 305									●	

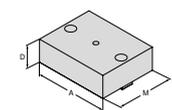
Alu jaw, movable



▲ for producing shaped jaws
▲ Price per piece

80		28		48			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125		40		68			99.86	80 878 850				●				●	●	
							114.85	80 878 550				●				●	●	

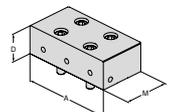
Centre jaw, Alu



▲ for producing shaped jaws
▲ Price per piece

80		28		72			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125		40		98			79.47	80 906 302									●	
							105.59	80 906 306									●	

Block jaw, movable



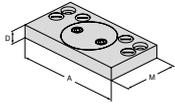
▲ Price per piece

80		28		40			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
125		40		66			282.68	80 901 31300				●				●	●	
							397.32	80 901 31500				●				●	●	

System jaws overview

Description	for width	A	D	M	price	Article no.	Type association
-------------	-----------	---	---	---	-------	-------------	------------------

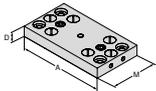
Pendulum jaw, movable



▲ Price per piece

				£	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	472.67	80 878 870				●						
125	180	22	95	495.98	80 878 570				●				●	●	

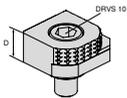
Centre jaw adapter plate, fixed



▲ Price per piece

				£	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	295.20	80 906 303										
125	180	22	98	350.83	80 906 307									●	

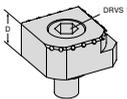
6 function indexable jaw



- ▲ 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

				£	Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
		18		75.11	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

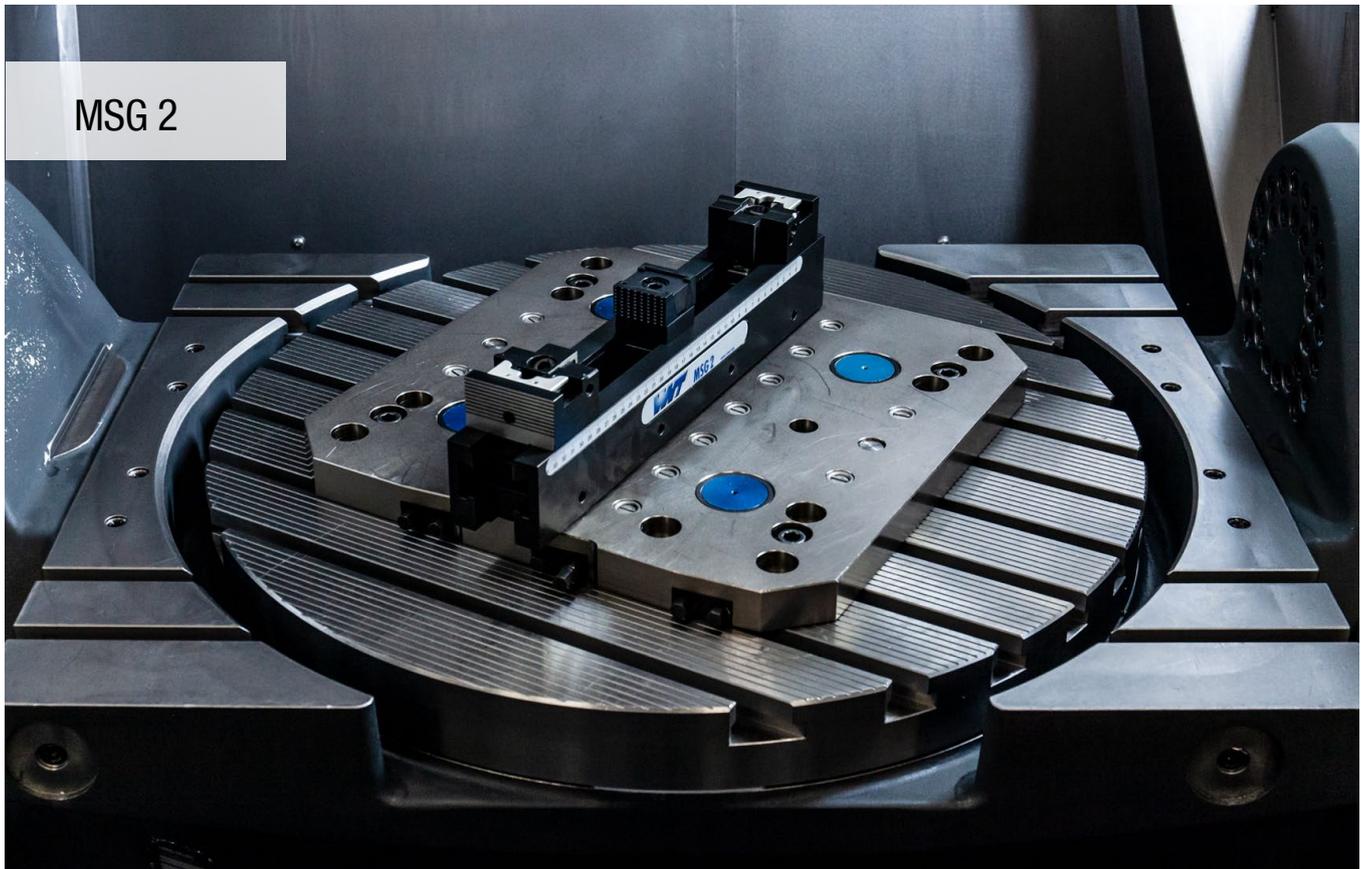
				£	NEW Y4	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2
		18		98.00	80 890 35300	●	●	●	●	●	●	●	●	●	●

System accessories overview

Plastic protection plugs



80 906 ...
£ Y4
1.37 500



MSG 2

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

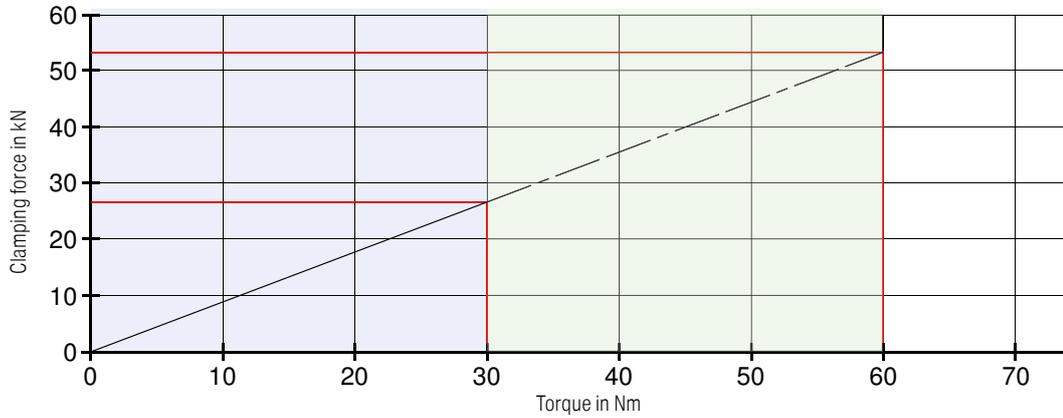


Using stop jaws and MSG 2 base bodies with reversible-adjusting jaws workpieces which are approximately the size of the table can be clamped with up to 50 kN clamping force quickly and safely.

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.

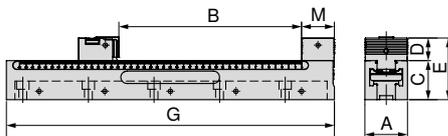
Multiple clamping base body 65 mm

- ▲ 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 ...	
									£ Y4	
65	7 - 108	60	34,8	94,8	220	50	0 - 50	4.1	847.01	226
65	7 - 208	60	34,8	94,8	320	50	0 - 50	5.7	963.55	326
65	7 - 288	60	34,8	94,8	400	50	0 - 50	7.3	1,139.73	406
65	7 - 388	60	34,8	94,8	500	50	0 - 50	9.2	1,279.33	506
65	7 - 538	60	34,8	94,8	650	50	0 - 50	11.8	1,801.09	656

Vice guide

Underside Dimensions	99	Structural dimension tables for the different jaws	100
System accessories	101-103	General accessories	134-149

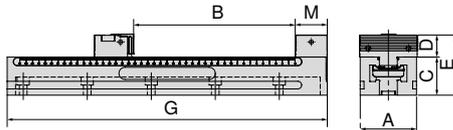
Multiple clamping base body 90 mm

- ▲ with internal teeth
- ▲ for single and multi-clamping
- ▲ Adapter plate for MNG available on request

Scope of supply:

Body without jaws

MSG
2



A	B	C _{-0.01}	D	E	G	M	MXC	WT
mm	mm	mm	mm	mm	mm	mm	kN	kg
90	7-288	60	34,8	94,8	400	50	0-50	10.5
90	7-388	60	34,8	94,8	500	50	0-50	13.2
90	7-488	60	34,8	94,8	600	50	0-50	15.9
90	7-538	60	34,8	94,8	650	50	0-50	16.9

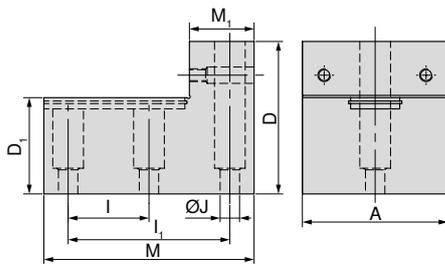
80 887 ...

£	
Y4	
1,253.56	409
1,432.46	509
1,618.14	609
1,801.09	659

Stop jaw, fixed

- ▲ for clamping of large plates and workpieces
- ▲ Price per piece

MSG
2



A	D	D ₁	I _{±0.015}	I _{1±0.015}	J _{F7}	M	M ₁
mm	mm	mm	mm	mm	mm	mm	mm
65	95	60	50	100	12	130	40
90	95	60	50	100	12	130	40

80 888 ...

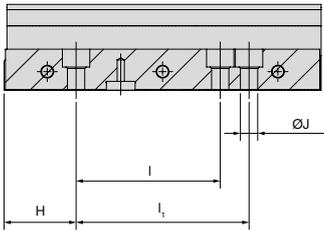
£	
Y4	
574.61	655
632.88	905

Vice guide

Underside Dimensions	99	Structural dimension tables for the different jaws	100
System accessories	101-103	General accessories	134-149

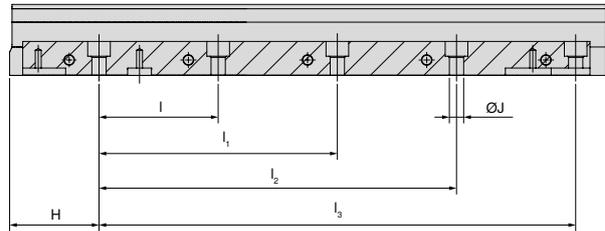
MSG 2 underside dimensions

Base width 65 mm and length 220 mm



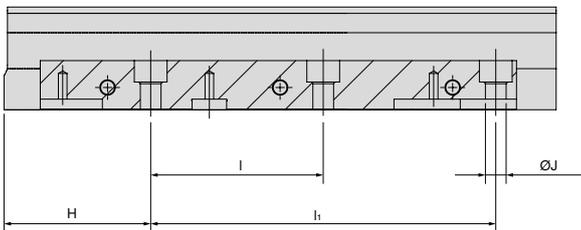
H ±0,02 mm	l ±0,02 mm	l ₁ ±0,02 mm	J _{F7} mm
50	100	120	12

Base width 65 mm and 90 mm, length 500 mm



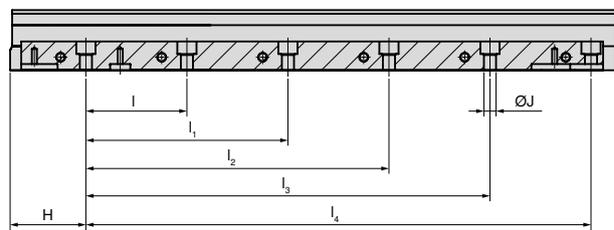
H ±0,02 mm	l ±0,02 mm	l ₁ ±0,02 mm	l ₂ ±0,02 mm	l ₃ ±0,02 mm	J _{F7} mm
75	100	200	300	400	12

Base width 65 mm and length 320 mm



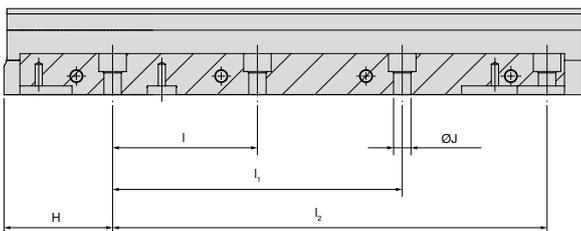
H ±0,02 mm	l ±0,02 mm	l ₁ ±0,02 mm	J _{F7} mm
85	100	200	12

Base width 90 mm and length 600 mm



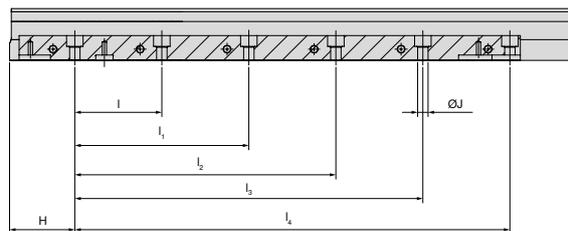
H ±0,02 mm	l ±0,02 mm	l ₁ ±0,02 mm	l ₂ ±0,02 mm	l ₃ ±0,02 mm	l ₄ ±0,02 mm	J _{F7} mm
75	100	200	300	400	500	12

Base width 65 mm and 90 mm, length 400 mm



H ±0,02 mm	l ±0,02 mm	l ₁ ±0,02 mm	l ₂ ±0,02 mm	J _{F7} mm
75	100	200	300	12

Base width 65 mm and 90 mm, length 650 mm

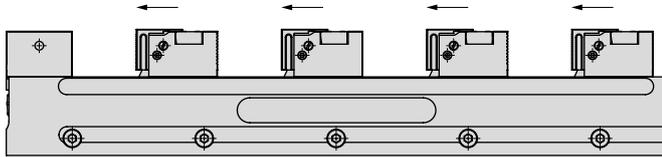


H ±0,02 mm	l ±0,02 mm	l ₁ ±0,02 mm	l ₂ ±0,02 mm	l ₃ ±0,02 mm	l ₄ ±0,02 mm	J _{F7} mm
75	100	200	300	400	500	12

MSG 2 structural dimension table for the different jaws

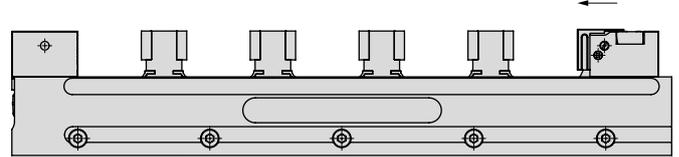
The spans are valid for use when using adjustment jaws without jaws and can therefore be reduced depending on the application.

Clamping with fixed and adjustable jaws



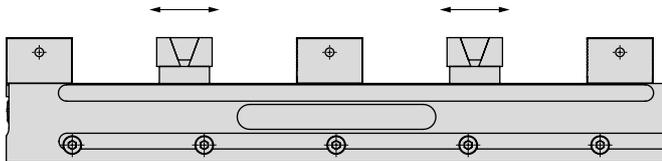
MSG 2	Standard multiple vice range							
	1	2	3	4	5	6	7	8
220	108	23						
320	208	73	28	5				
400	288	113	54	25	8			
500	388	163	88	50	28	13		
600	488	213	121	75	48	29	16	
650	538	238	138	88	58	38	23	

Clamping with fixed jaw, intermediate jaws incl. top jaws and one adjustable jaw



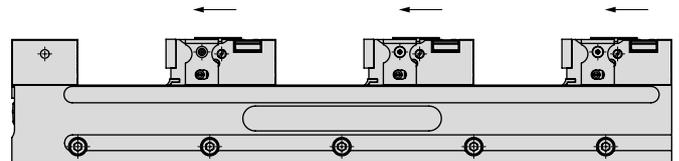
MSG 2	Standard multiple vice range									
	1	2	3	4	5	6	7	8	9	10
220	108	36	12							
320	208	87	45	25	13	5				
400	288	126	72	45	29	18	11	5		
500	388	176	106	70	49	35	25	17	11	7
600	488	226	139	95	69	52	39	30	23	17
650	538	251	155	108	79	60	46	36	28	22

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

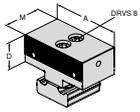


MSG 2	Standard multiple vice range					
	1	2	3	4	5	6
220	86	-	-	-	-	-
320	186	51	6	-	-	-
400	266	91	33	4	-	-
500	366	141	66	29	6	-
600	466	191	99	54	26	8
650	516	216	116	66	36	16

System jaws overview

Description	A	D	D ₁	M	price	Article no.	Type association
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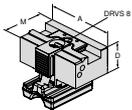
Reversible jaw set, short



- ▲ with indexing teeth
- ▲ profiled clamping surfaces
- ▲ Price per piece

				£	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	285.14	80 888 401										●
65	34,8		50	285.14	80 888 651										●
90	34,8		50	308.77	80 888 901										●

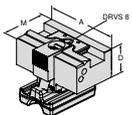
Reversible adjustable jaw profiled



- ▲ for workpiece clamping and positioning of the next workpiece
- ▲ 4 mm stroke
- ▲ suitable for 65 and 90 mm width
- ▲ price per piece

				£	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	395.02	80 888 403										●
65	34,8		61,5	395.02	80 888 653										●
90	34,8		61,5	429.79	80 888 903										●

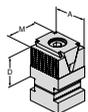
Reversible adjustable jaw with a pyramid profile



- ▲ for workpiece clamping and positioning of the next workpiece
- ▲ 4 mm stroke
- ▲ suitable for 65 and 90 mm width
- ▲ price per piece

				£	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	452.04	80 888 404										●
65	34,8		61,5	452.04	80 888 654										●
90	34,8		61,5	486.80	80 888 904										●

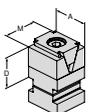
Wedge jaw



- ▲ with grip clamping surface
- ▲ 5.5 mm stroke
- ▲ including support and clamp
- ▲ Price per piece

				£	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	193.33	80 888 408										●

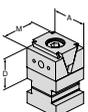
Wedge jaw



- ▲ with a smooth clamping surface
- ▲ 5.5 mm stroke
- ▲ including support and clamp
- ▲ Price per piece

				£	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	193.33	80 888 405										●

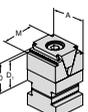
Wedge jaw



- ▲ with a smooth clamping surface and 2 M4 + 1x M6 threaded holes
- ▲ 5.5 mm stroke
- ▲ including support and clamp
- ▲ Price per piece

				£	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	193.33	80 888 407										●

Wedge grip jaw, 3 mm



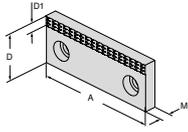
- ▲ including support and clamp
- ▲ Price per piece

				£	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	220.16	80 888 51000										●

System jaws overview

Description	for width	A	D	D ₁	M	price	Article no.	Type association
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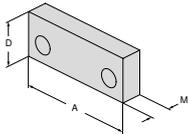
Jaw, grip



▲ Price per piece

					£	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	34.17	80 889 406										●
	65	35	7	10	38.94	80 889 656										●
	90	35	7	10	43.11	80 889 906										●

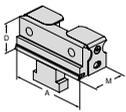
Jaw, soft



▲ Price per piece

					£	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	35.06	80 889 407										●
	65	35		16	38.94	80 889 657										●
	90	35		16	45.90	80 889 907										●

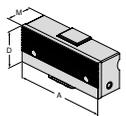
Top jaw with guide



- ▲ for clamping without pull down effect
- ▲ minimum clamping depth of 2.5 mm
- ▲ Price per piece

					£	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	151.62	80 888 406										●
	65	34,8		39	151.62	80 888 656										●
	90	34,8		39	165.41	80 888 906										●

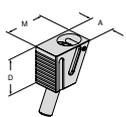
Top jaw with spring



- ▲ One click location
- ▲ for clamping without pull down effect
- ▲ minimum clamping depth of 10 mm
- ▲ Price per piece

					£	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	125.18	80 888 607										●
	90	92	35,8	26	127.14	80 888 907										●

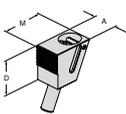
Jaw, narrow profiled



▲ price per piece

					£	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	116.83	80 888 002										●

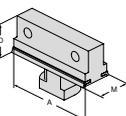
Jaw, narrow with pyramid profile



▲ Price per piece

					£	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	171.09	80 888 004										●

Central jaw for clamping multiples and single piece machining



- ▲ hardened, pivoting
- ▲ for holding various top jaws
- ▲ price per piece

					£	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	141.87	80 888 658										●
	90	35		27	159.95	80 888 908										●

System accessories overview

Joint

▲ to connect 2 basic bodies

MSG
2



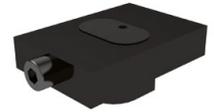
80 889 ...

£
Y4
74.35 002

Adjustable stop with basic body

▲ for vibration damping

MSG
2



80 888 ...

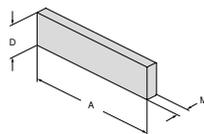
£
Y4
280.08 51100

H
mm
16

Cover

▲ Stainless steel, cut to size

MSG
2



80 889 ...

£
Y4
9.16 001

A mm	D mm	M mm
440	32	0,7

Support

▲ for vibration damping

MSG
2



80 888 ...

£
Y4
69.05 51200
69.05 51300

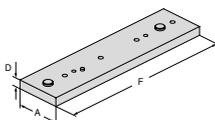
H
mm
9 (25)
14 (30)

MNG-Adapter plate for MSG 2

Scope of supply:

Plate including mounting accessories

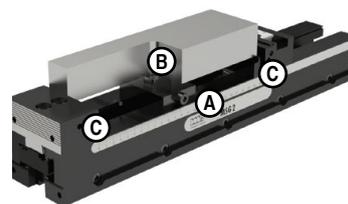
MSG
2



80 887 ...

for width mm	A mm	D mm	F mm	£ Y4	
65 / 90	100	20	400	649.54	400
65 / 90	100	20	500	728.83	500
90	100	20	600	810.88	600
65 / 90	100	20	650	851.21	650

Adjustable support



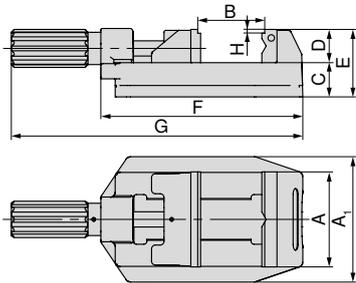
The adjustable support is used for stabilisation and vibration damping of large and also long workpieces. The workpiece is placed on workpiece supports and also supported with the adjustable support which damps vibrations. The adjustable support is available in a height of 16 mm. Overall heights of 25 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	A ₁	B	C	D	E	F	G	H	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
80	112	0-81	36	35	71	194	286,5	4	4.5
100	132	0-100	36	35	71	211	304,5	4	5.6
125	156	0-131	40	40	84	274	386	4	11.2

80 893 ...

£

Y4

251.74 080

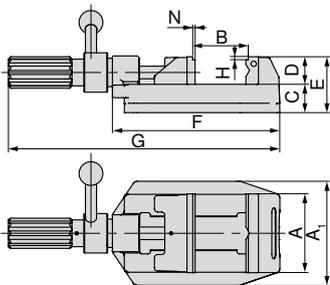
275.39 100

460.37 125

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	A ₁	B	C	D	E	F	G	H	N	WT
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
100	132	0-100	36	35	71	211	342	4	1,5	6.1
125	156	0-133	44	40	84	274	405	4	1,5	11.7

80 893 ...

£

Y4

447.85 101

641.19 126

Vice guide

System accessories

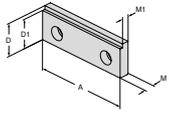
105+106 General accessories

134-149

Top jaws overview

Description	Clamping Ø	A	D	D ₁	M	M ₁	price	Article no.	Type association
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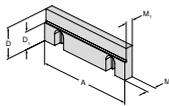
Stepped jaw, smooth



▲ Price per piece

						£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG	
	71,6	35	31	10,2	7,2	30.85	80 893 081												●
	80	35	31	10,2	7,2	41.00	80 893 082												●
	100	35	31	10,2	7,2	38.94	80 893 102												●
	125	40	36	11,8	8,8	49.20	80 893 127												●

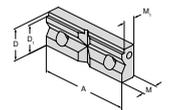
Stepped jaw, 17 mm



▲ Price per piece

						£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG	
	125	40	23	11,5	9,5	129.81	80 892 244												●

Prismatic jaw



▲ Prism jaw with horizontal and vertical prism

▲ price per piece

						£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG	
9 - 31	80	35	31	15,8	12,8	49.20	80 893 083												●
9 - 31	100	35	31	15,8	12,8	61.72	80 893 103												●
11 - 41	125	40	36	17,8	14,8	109.87	80 893 128												●
9 - 31	72	35	31	15,8	12,8	49.20	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



80 893 ...

for width
mm
80/100/125

£
Y4
42.37 265

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



80 893 ...

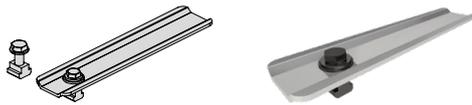
for width mm	for slot width mm
80/100/125	12/14

£
Y4
119.62 250

Guide rail

- ▲ Helps prevent accidents
- ▲ Prevents unwanted movement, lifting and dragging

HSG

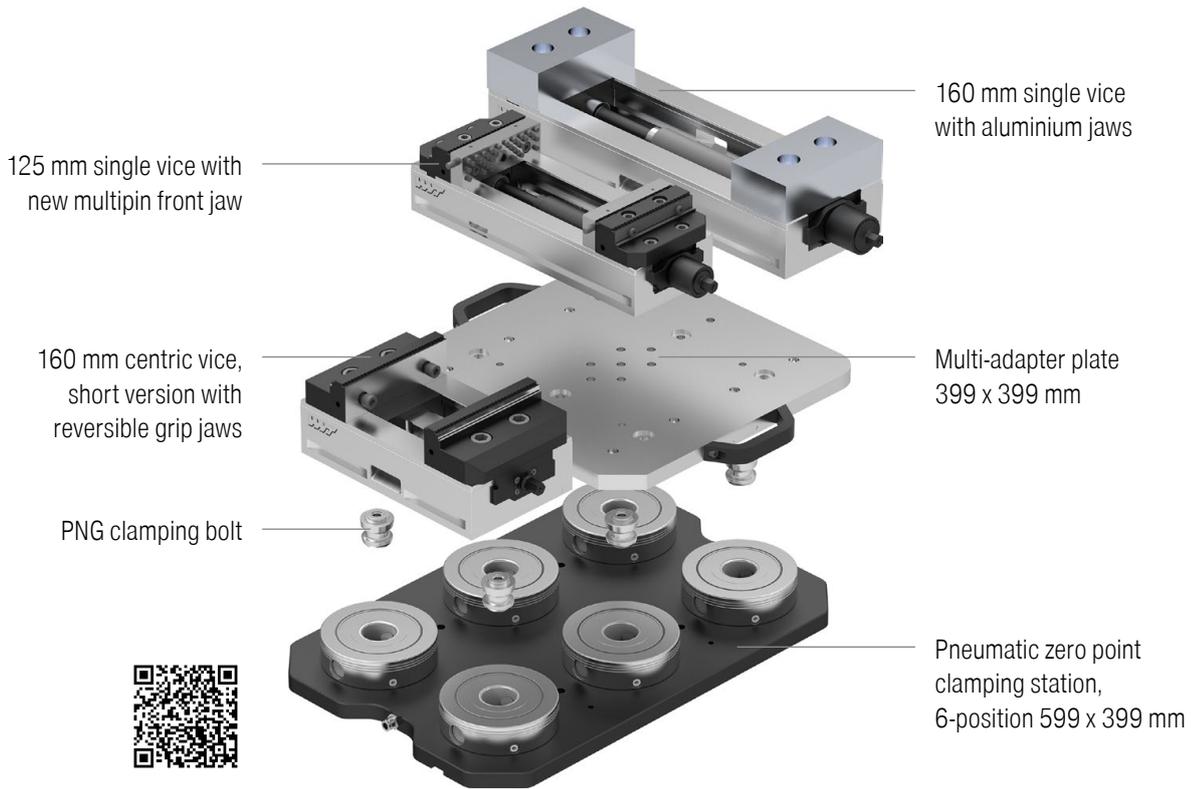


80 893 ...

for width
mm
80/100/125

£
Y4
45.90 260

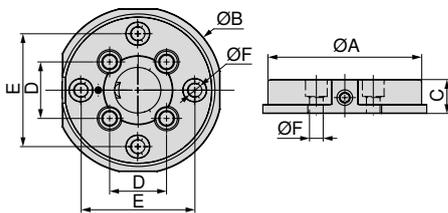
Overview of MNG and PNG zero point clamping system



Base plate, round

- ▲ hardened and ground
- ▲ Repeatability ≤ 0.01 mm
- ▲ Insertion force 20 kN
- ▲ Torque 30 Nm

MNG



A	B	C _{±0,005}	D	E	F _{H7}	WT
mm	mm	mm	mm	mm	mm	kg
135	148	30	50	100	12	3.5

80 899 ...
£
Y4
523.07 125

Vice guide

System accessories

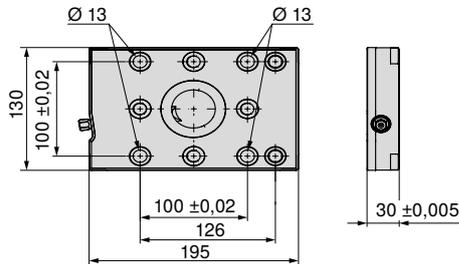
117+118 General accessories

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



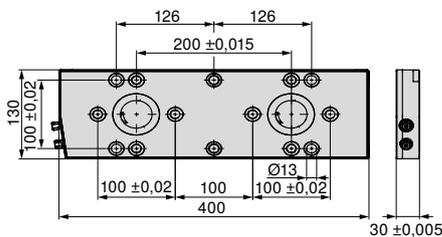
Size	WT kg
195x130 mm	5.2

80 899 ...
£ Y4
801.17 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
400x130 mm	11

80 899 ...
£ Y4
1,647.92 65100

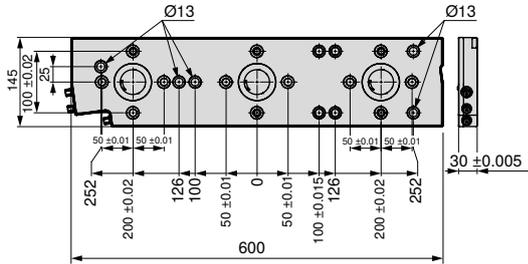
Vice guide

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



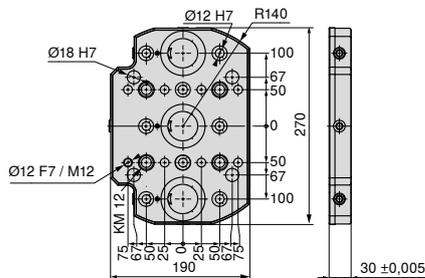
Size	WT kg
600x145 mm	18

80 899 ...	
£	Y4
2,670.55	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
270x190 mm	9

80 899 ...	
£	Y4
2,383.26	230

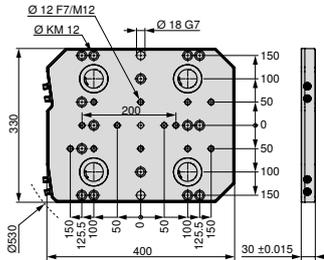
Vice guide

System accessories	117+118	General accessories	134-149
MNG clamping options	119-121		

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 $\varnothing 12$ F7/M12
- ▲ 2 x mating holes $\varnothing 18$ G7 for positioning
- ▲ 1 x mating holes $\varnothing 12$ F7 for positioning

MNG



Size	WT kg
330x400 mm	28

80 899 ...

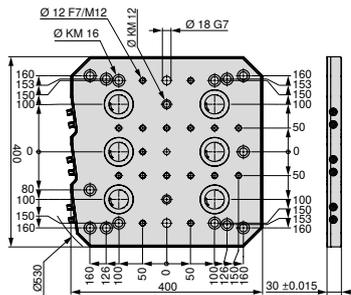
£
Y4
3,750.48 63000¹⁾

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 $\varnothing 12$ F7/M12
- ▲ 2 x mating holes $\varnothing 18$ G7 for positioning
- ▲ 1 x mating holes $\varnothing 12$ F7 for positioning

MNG



Size	WT kg
400x400 mm	33

80 899 ...

£
Y4
4,680.62 63100¹⁾

1) Not ex-stock

Vice guide

System accessories

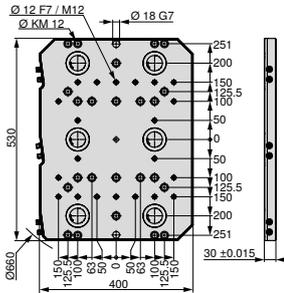
117+118 General accessories

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



80 899 ...

£
Y4

5,575.58 63200¹⁾

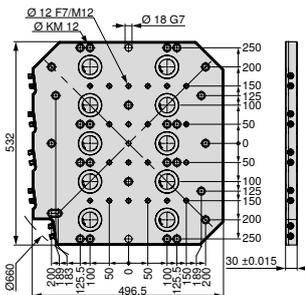
Size	WT kg
400x530 mm	45

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



80 899 ...

£
Y4

7,910.03 63300¹⁾

Size	WT kg
497x532 mm	54

1) Not ex-stock

Vice guide

System accessories

117+118 General accessories

134-149

Centering Pin

MNG



NEW

D ₁ h6 mm	D ₂ h6 mm	80 899 ...	
		£	Y4
12	30	46.78	61700
12	32	46.78	61800
12	50	46.78	61900

Alignment Pin

MNG



D ₁ h6 mm	D ₂ h6 mm	80 899 ...	
		£	Y4
18	14	29.52	607
18	18	37.46	608
18	20	38.60	609
18	22	39.74	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 ...	
		£	Y4
12	M8	22.14	63800
12	M10	13.03	63400
14	M12	15.63	63500 ¹⁾
14	M8	22.14	63900
16	M12	15.63	63600 ¹⁾
16	M8	22.14	64000
18	M12	15.63	63700 ¹⁾
18	M8	22.14	64100

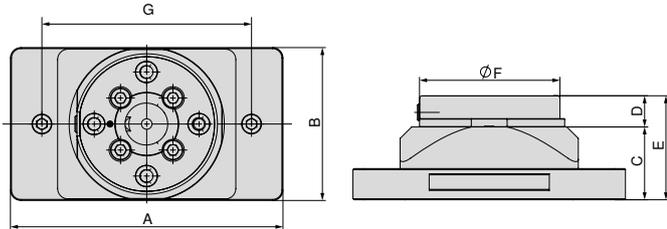
1) With low head screws

Console with zero point clamping module

- ▲ universal application on all machine tables
- ▲ Clamping force 20 kN

Scope of supply:

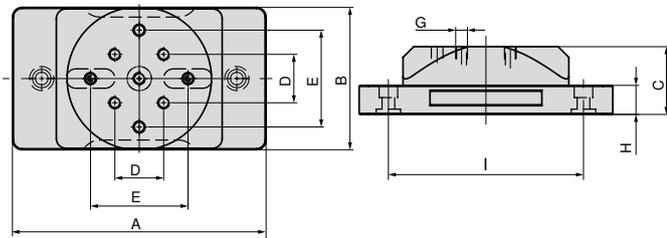
Plate incl. MNG round clamping module



A	B	C	D	E	F	G	WT	80 899 ...	
mm	mm	mm	mm	mm	mm	mm	kg	£	
260	147	70	30	100	135	200	8.9	Y4	
								982.05	425

Console

- ▲ universal application on all machine tables
- ▲ Material: Aluminum, hard anodized



A	B	C	D	E _{±0,02}	G	H	I	WT	80 899 ...	
mm	mm	mm	mm	mm		mm	mm	kg	£	
260	147	70	50	100	M12	30	200	5.5	Y4	
								465.95	420	

Vice guide

System accessories

117+118 General accessories

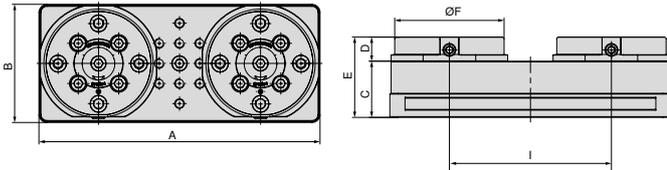
134-149

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



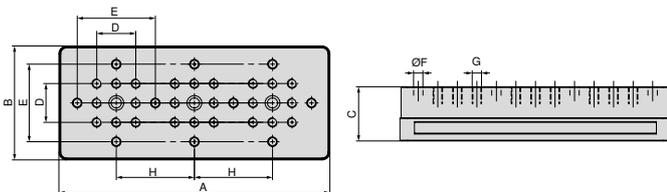
A	B	C	D	E	F	I	WT
mm	mm	mm	mm	mm	mm	mm	kg
347	147	70	30	100	135	200	16.5

80 899 ...

£
Y4
1,758.10 435

Double console

- ▲ universally applicable on all machine tables
- ▲ Material: Aluminium Hard Anodised



A	B	C	D	E _{±0.02}	F _{F7}	G	H	WT
mm	mm	mm	mm	mm	mm		mm	kg
347	147	70	50	100	12	M12	100	9.3

80 899 ...

£
Y4
798.87 430

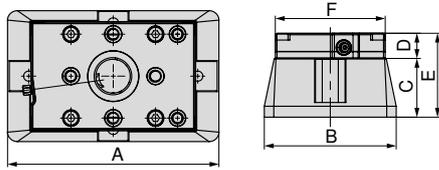
Vice guide

System accessories

117+118 General accessories

134-149

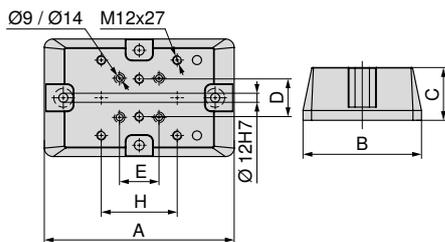
Console with zero point clamping module



A	B	C	D	E	F
mm	mm	mm	mm	mm	mm
250	156	70	30	100	130

80 878 ...
£
Y4
1,446.01 54000

Console



A	B	C	D	E	H	for
mm	mm	mm	mm	mm	mm	
250	156	70	50	52	100	ZSG 4 - 80 L = 130 mm + 190 mm / ZSG 4 - 125 L = 160 mm
320	197	100	50	50	100	ZSG 4 - 160 L = 280 mm
340	162	100	50	50	100	ZSG 4 - 125 L = 235 mm / 300 mm

80 878 ...
£
Y4
644.84 54100
744.54 54400
720.68 54300

Assembly set for console



for
ZSG-4.125/160.L235-L280
ZSG-4.80.L130-L190

80 878 ...
£
Y4
9.54 54500
13.03 54200

Vice guide

System accessories

117+118 General accessories

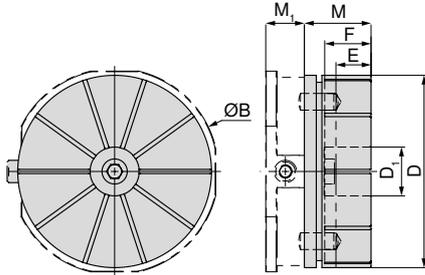
134-149

Aluminum form chuck for MNG

▲ for incorporation of forms for 2nd op machining

Scope of supply:

Collet with positioning pins, without locating bolts



B	D	D ₁	E	F	M	M ₁
mm	mm	mm	mm	mm	mm	mm
148	138	35	22	33	47,5	27,5

80 899 ...
£
Y4
196.11 500



Machineable Alu chuck
to suit round MNG



Machineable Alu chuck to suit
round MNG with clamped workpiece

Available on request



Grid plate



Blank plate

i The maximum cutting depth E is 22 mm

Adjustable ring for MNG form collet



80 899 ...
£
Y4
58.91 510

Vice guide

System accessories

117+118 General accessories

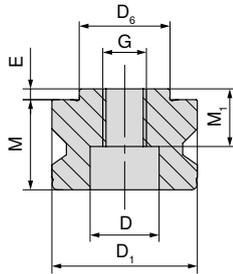
134-149

MNG pull studs

▲ Centering stud \varnothing 25 H7

Scope of supply:
with clamping screws

MNG



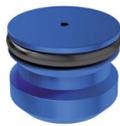
D ₆ h6 mm	D ₁ h6 mm	M mm	M ₁ mm	E mm	D mm	G
25	40	27	17	3	19	M12

80 899 ...

£
Y4
43.65 025

Bungs

MNG



80 899 ...

D₁
mm
40

£
Y4
12.83 040

MNG Dowel Set

▲ for ESG mini 4V tower and direct workpiece clamping
▲ Price per 2 Pieces

MNG



D₁ m6
mm
12

M
mm
24

80 899 ...

£
Y4
2.73 120

Sealing plug with O-ring

MNG



80 899 ...

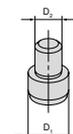
G
M12

£
Y4
2.73 126

MNG positioning pin set

▲ for ESG mini and direct workpiece clamping
▲ Price per 2 Pieces

MNG



for width
mm
65

D₁
mm
12

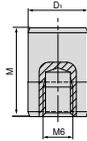
D₂
mm
8

80 899 ...

£
Y4
32.00 128

MNG indexing bolt

MNG



80 899 ...	
£	
Y4	
19.43	51500

D ₁ mm	M mm
12	18

Clamping Screw Set for T-slot for MNG

Scope of supply:
Clamping screw and T-Nuts

MNG



80 899 ...	
£	
Y4	

for slot width mm	G	£	
12	M8	22.14	63800
12	M10	13.03	63400
14	M12	15.63	63500 ¹⁾
14	M8	22.14	63900
16	M12	15.63	63600 ¹⁾
16	M8	22.14	64000
18	M12	15.63	63700 ¹⁾
18	M8	22.14	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



80 899 ...	
£	
Y4	
92.38	614

for slot width mm	A mm
14	63

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



80 899 ...	
------------	--

A mm	for slot width mm	£	
50	12	68.16	012 ¹⁾
50	14	68.16	014
50	16	68.16	016
50	18	68.16	018
100	12	104.22	81200
100	14	104.22	81400
100	16	104.22	81600
100	18	104.22	81800

1) For 12 mm width excluding clamping strip

Round claw

▲ for MNG clamping system
▲ Price includes 2 pieces

MNG



80 899 ...	
------------	--

£	
Y4	
77.89	300

Replacement clamping unit

▲ 3-Piece Set
▲ for MNG round

MNG



80 899 ...	
------------	--

£	
Y4	
65.36	026

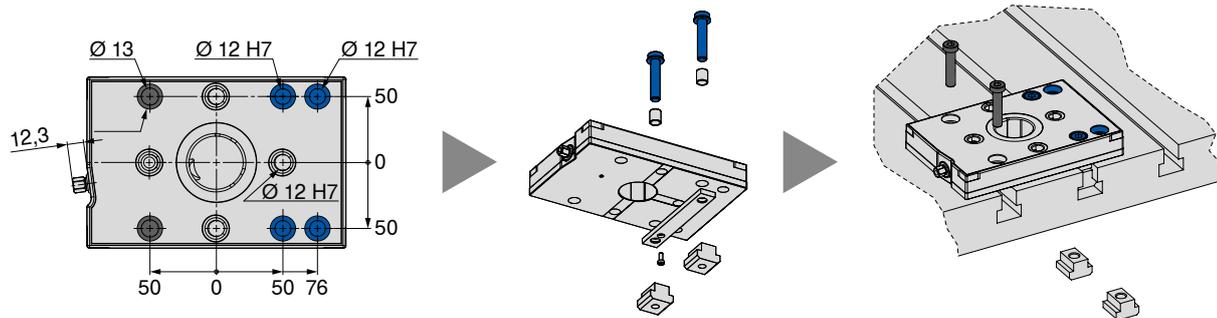
MNG clamping options

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**

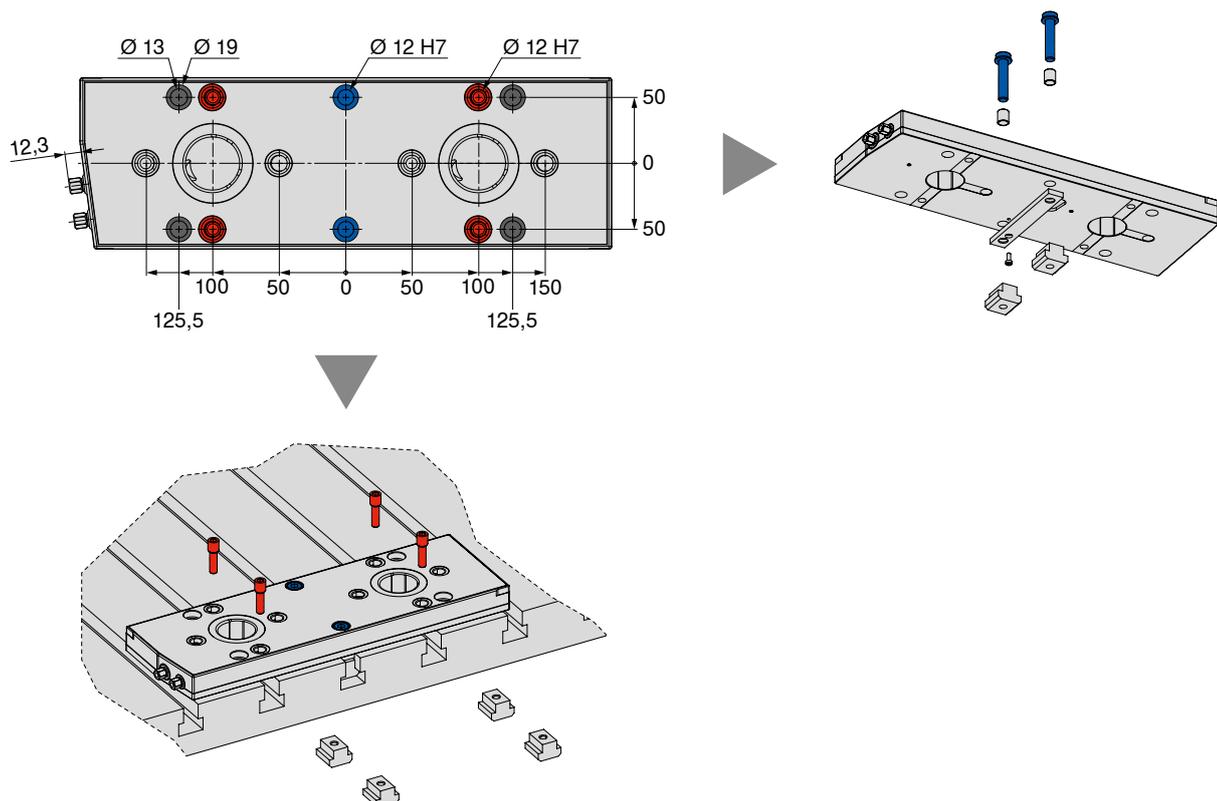


Base plate, rectangular 2-location

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

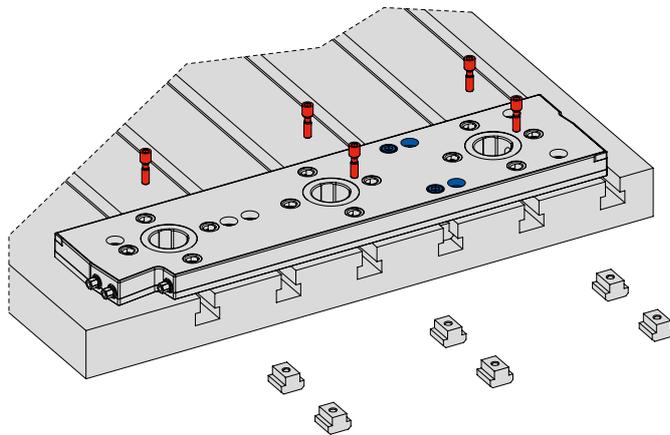
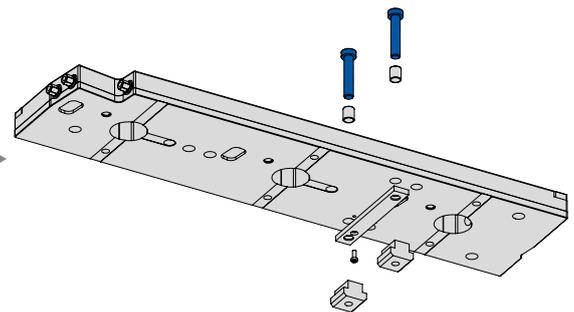
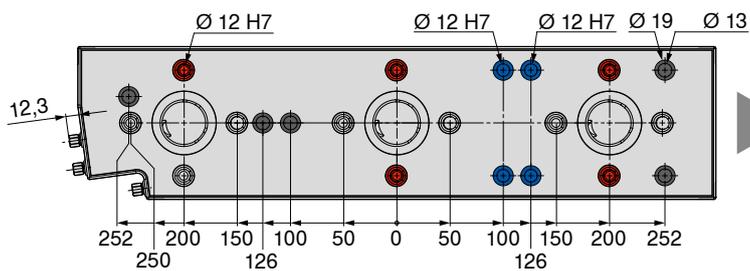
Base plate, rectangular 3-location

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

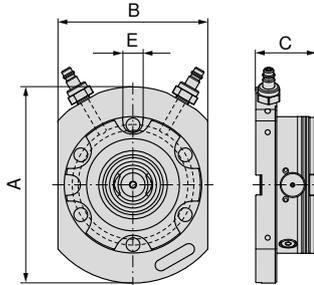
1-position clamping station

- ▲ 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

80 809 ...

£
Y4

1,212.28 01100

A	B	C	E _{H7}	WT
mm	mm	mm	mm	kg
198	150	60	20	7

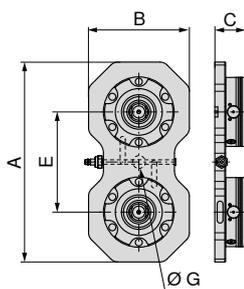
2-position clamping station, 399 x 199 mm

- ▲ 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

80 809 ...

£
Y4

1,975.91 02100

A	B	C	E	G _{H7}	WT
mm	mm	mm	mm	mm	kg
399	199	60	200	25	16.9

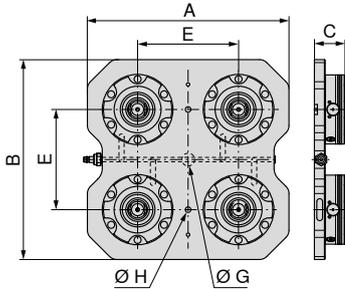
4-position clamping station, 399 x 399 mm

- ▲ 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 ...

£
Y4

3,818.18 04100

A	B	C	E	G _{H7}	H	WT
mm	mm	mm	mm	mm	mm	kg
399	399	60	200	25	11	35.7

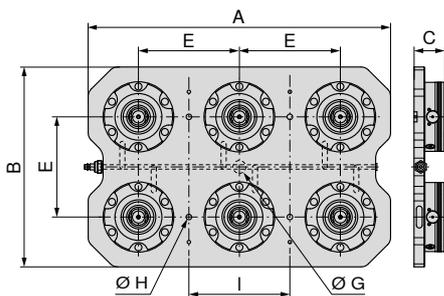
6-position clamping station, 599 x 399 mm

- ▲ 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 ...

£
Y4

5,297.72 06100

A	B	C	E	G _{H7}	H	I	WT
mm	mm	mm	mm	mm	mm	mm	kg
599	399	60	200	25	11	200	54.4

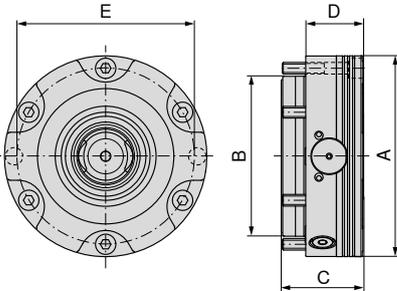
Zero point clamping module PNG.SM.138

- ▲ 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 ...
£
Y4
800.87 10100

A	B	C	D	E	G	WT
mm	mm	mm	mm	mm		kg
138	110	55,7	39	121	G1/8"	4.4

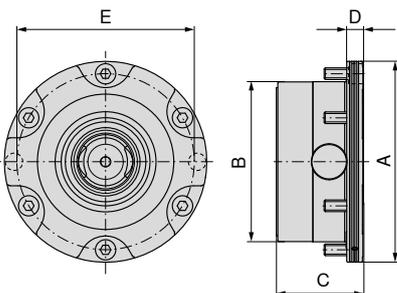
Zero point clamping system PNG.SM.T.138

- ▲ 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 ...
£
Y4
867.68 12100

A	B	C	D	E	G	WT
mm	mm	mm	mm	mm		kg
138	110	59	11	121	G1/8"	3.5

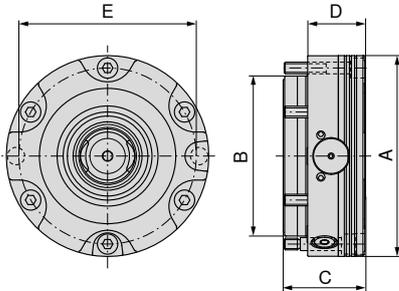
Zero point clamping module PNG.SM.V.138

- ▲ 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

80 809 ...
£
Y4
858.13 11100

A	B	C	D	E	G	WT
mm	mm	mm	mm	mm		kg
138	110	55,7	39	121	G1/8"	4,4

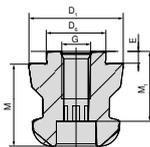
PNG clamping bolt

- ▲ 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:

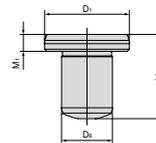
Incl. M12 fixing screw

PNG



PNG indexing bolt

PNG



80 809 ...
£
Y4
43.48 073

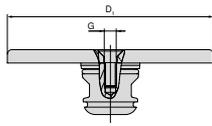
D ₁ h5	M	M ₁	D ₆ m6
mm	mm	mm	mm
20	20	4	12

Type	D ₆ h6	D ₁ h6	M	M ₁	E	G	80 809 ...	
							£	
	mm	mm	mm	mm	mm		Y4	
ZB	25	40	35	27	5	M12	52.89	070
PB	25	40	35	27	5	M12	64.64	071
HB	25	40	35	27	5	M12	48.18	072

PNG protective cover

▲ Protective cover for the interchangeable interface

PNG



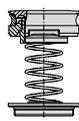
D ₁ mm	G
138	M8

80 809 ...
£ Y4
79.91 074

Cone seal

▲ Protective cover for the interchangeable interface

PNG



NEW

WT kg
0.11

80 809 ...
£ Y4
97.37 07500

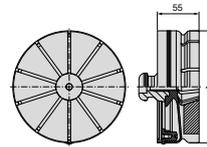
Aluminium form collet

- ▲ 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
149	1.5

80 809 ...
£ Y4
249.13 07600

Overview of multi-adapter pallets



Multi-adapter pallet 159x159 mm



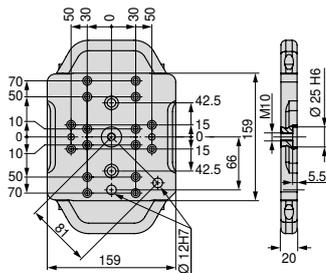
Application examples

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 ...
159x159 mm	4	£ Y4 512.02 500

Mounting set – multi-adapter pallet, 159 x 159 mm

▲ price per set

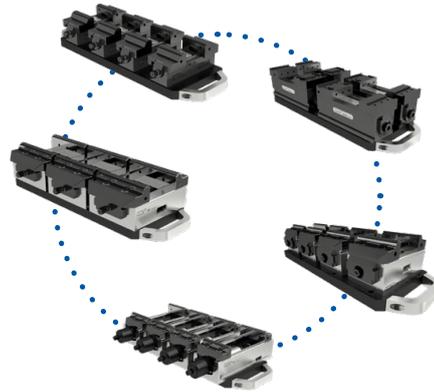


for	80 878 ...
ZSG-4.80	£ Y4 16.93 503

Overview of multi-adapter pallets



Multi-adapter pallet 399x159 mm



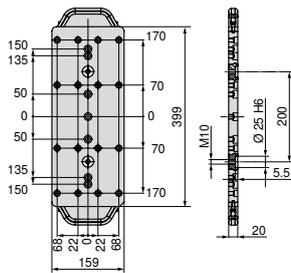
Application examples

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 ...	
		£ Y4	501
399x159 mm	10	752.98	

Mounting set – multi-adapter pallet 399 x 159 mm

▲ price per set

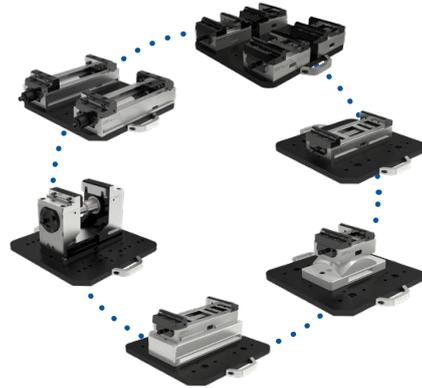


for	ESGMINI.65 ZSG-3.65/ZSG-4.80/125L160/ESG-4.80	80 897 ...		80 884 ...	
		£ Y4	500	£ Y4	503
		16.93		40.15	

Overview of multi-adapter pallets



Multi-adapter pallet 399x399 mm



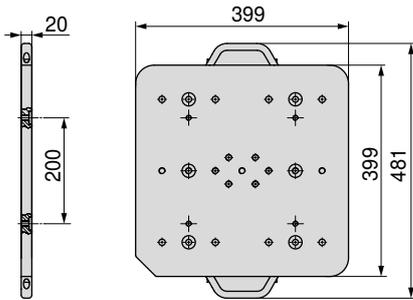
Application examples

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 ...
399x399 mm	25	£ Y4 1,401.79 502

Mounting set – multi-adapter pallet 399 x 399 mm

▲ price per set



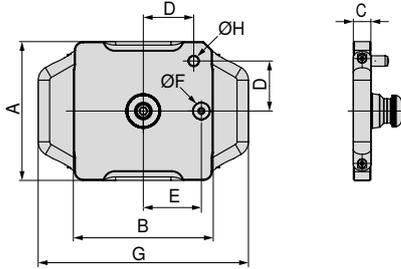
for	80 901 ...	80 898 ...	80 878 ...
ESG4.125	£ Y4 55.46 500	£ Y4 55.46 500	£ Y4 16.93 500
H5G.125			£ Y4 55.46 502
ZSG-4.125.L160			£ Y4 55.46 501
ZSG-4.125.L160.K			£ Y4 55.46 504
ZSG-4.125.L300			
ZSG-4.125.L300-DK			

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
159x159 mm	159	159	20	58	66	20	239	12	4.2

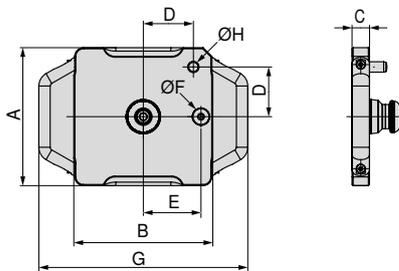
80 809 ...
£
Y4
287.91 080

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
159x159 mm	159	159	25	58	66	20	239	12	2.2

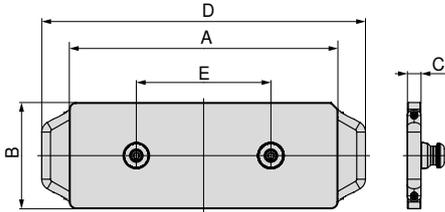
80 809 ...
£
Y4
325.51 081

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
399x159 mm	399	159	20	481	200	10.6

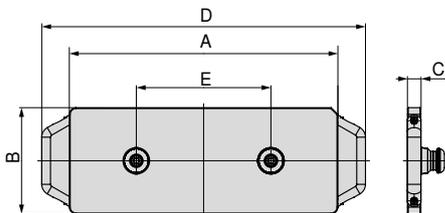
80 809 ...
£ Y4
576.99 082

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
399x159 mm	399	159	25	481	200	5.1

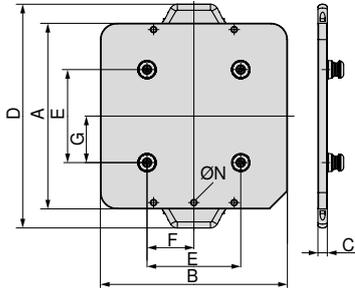
80 809 ...
£ Y4
507.63 083

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
399x399 mm	399	399	20	481	200	100	100	M10	28

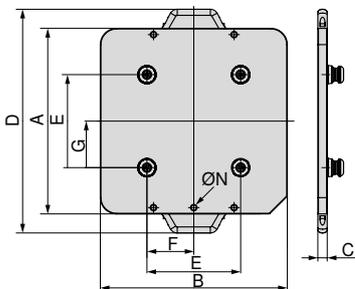
80 809 ...
£
Y4
1,271.46 084

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
399x399 mm	399	399	25	481	200	100	100	M10	12

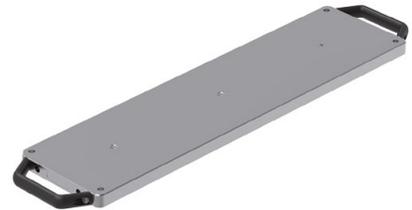
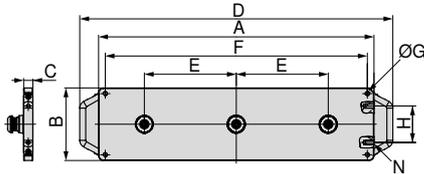
80 809 ...
£
Y4
913.06 085

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
599x159 mm	599	159	20	681	200	570	M10	80	M10	15.6

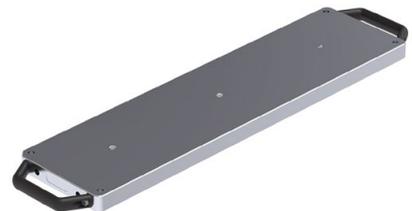
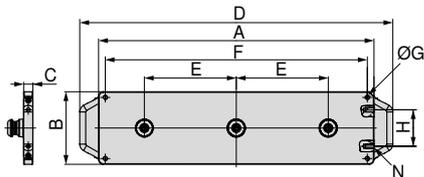
80 809 ...
£ Y4
812.01 086

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



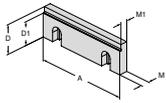
Size	A mm	B mm	C mm	D mm	E mm	F mm	G	H mm	N	WT kg
599x159 mm	599	159	25	681	200	570	M10	80	M10	7.4

80 809 ...
£ Y4
881.33 087

General top jaws overview

Description	A	D	D ₁	M	M ₁	price	Article no.	Type association
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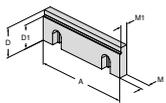
Stepped jaw, coated 5 mm



▲ Price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
80	28	23	10	7,5	£ 135.00	80 878 31400	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

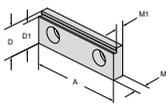
Stepped jaw, coated 5 mm



▲ Price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
100	35	30	10	7,5	£ 150.00	80 892 36300	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
125	40	35	11,5	9,5	£ 159.77	80 892 250	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
160	50	45	13,5	10,5	£ 185.00	80 892 36400	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

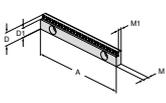
Stepped jaw, 5 mm



▲ Price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
80	28	23	10	7,5	£ 134.48	80 878 830	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

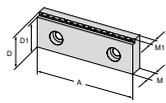
Stepped jaw, Grip



▲ Price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
125	18	13	8	5,5	£ 126.57	80 898 252	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
125	18	15	8	5,5	£ 142.47	80 898 250	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

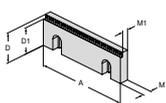
Stepped jaw, grip, 3 mm



▲ Price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
80	28	25	10	7	£ 93.37	80 906 30900	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

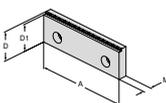
Stepped jaw, grip 3, 5 and 8 mm



▲ Price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
100	35	27	10	7,5	£ 107.31	80 892 29200	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	£ 107.31	80 892 29000	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	10	7,5	£ 107.31	80 892 29400	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
125	40	32	11,5	9	£ 122.46	80 892 29300	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
125	40	35	11,5	9	£ 122.46	80 892 29100	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
125	40	37	11,5	9	£ 122.46	80 892 29500	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
160	50	42	13,5	11	£ 137.01	80 892 29900	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
160	50	45	13,5	11	£ 137.01	80 892 29800	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
160	50	47	13,5	11	£ 137.01	80 892 29700	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

Stepped jaw, carbide grip 3 mm



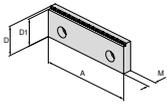
▲ price per piece

A	D	D ₁	M	M ₁	price	Article no.	Type association
100	35	32	7,5		£ 128.87	80 892 37600	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
125	40	37	11,5		£ 150.00	80 892 36500	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG
160	50	47	13,5		£ 162.28	80 892 37400	NCG H5G / -S / -Z X5G-Z / -S ESG 4 ESG 5 ESG mini HDG 2 ZSG 4 DSG 4 MSG 2 HSG

General top jaws overview

Description	Illustration	A	D	D ₁	D ₂	M	M ₁	price	Article no.	Type association
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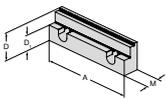
Stepped jaw, carbide grip 5 mm



▲ price per piece

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
	100	35	30		7,5		£ 128.87	80 892 37700	●	●	●	●			●	●	●		
	125	40	35		11,5		£ 143.18	80 892 37500	●	●	●	●			●	●	●		
	160	50	45		13,5		£ 162.28	80 892 37300	●	●	●	●			●	●	●		

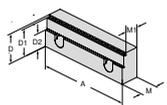
Stepped jaw, 18 mm with 3 mm Grip Step



▲ Price per piece

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
	125	40	22		21,5		£ 239.66	80 892 288	●	●	●	●			●	●	●		●

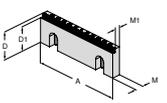
Stepped jaw, 18 mm with 3 mm grip step



▲ Price per piece

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
	125	40	37	22	24	19	£ 219.12	80 907 302	●	●	●	●			●	●	●		●

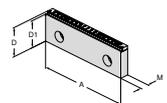
Stepped jaw, grip 5 mm for aluminium and plastic



▲ Price per piece

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
	125	40	35		11,5	8	£ 125.00	80 892 36100	●	●	●	●			●	●	●		●

Stepped jaw embossed profile

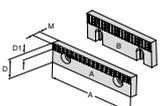


▲ Price per piece

▲ suitable for LANG embossed profile

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
	125	40	37		11,5		£ 120.00	80 892 36200	●	●	●	●			●	●	●		●

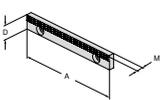
Jaw, grip



▲ Price per piece

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
A	40	22	7		7,8		£ 29.46	80 892 279						●					
A	65	22	7		7,8		£ 35.06	80 892 280						●					
A	90	22	7		7,8		£ 38.94	80 892 284						●					
B	100	35	12		10		£ 51.23	80 892 21700	●					●	●				●
B	125	40	14,5		11,5		£ 60.57	80 892 21800	●			●		●	●		●		●
B	160	50	14,5		13,5		£ 81.85	80 892 21900	●			●		●	●		●		●

Top jaw, grip



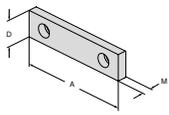
▲ Price per piece

	A	D	D ₁	D ₂	M	M ₁	price	Article no.	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	HSG
	125	18			7,8		£ 61.72	80 898 253	●	●	●	●			●	●	●		●

General top jaws overview

Description	A	D	M	price	Article no.	Type association
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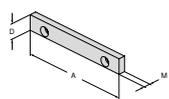
Ground top jaw



▲ Price per piece

			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	H5G
40	22	7,7	30.85	80 889 401						●					
40	35	10	35.06	80 889 405											
65	22	7,7	35.06	80 889 651						●					
65	35	10	38.94	80 889 655											
90	22	7,7	38.94	80 889 901											
90	35	10	45.90	80 889 905											

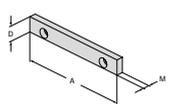
Ground top jaw



▲ price per piece

			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	H5G
125	18	7,6	46.48	80 898 251	●			●					●		

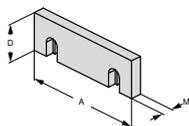
Top jaw, carbide coated



▲ with carbide coating
▲ Price per piece

			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	H5G
125	18	7,6	86.24	80 898 254	●			●					●		

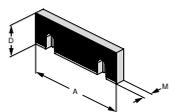
Smooth jaw



▲ Price per piece

			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	H5G
100	35	10	39.96	80 892 20400	●					●	●				●
125	40	11,5	47.47	80 892 20500				●			●	●	●		●
160	50	13,5	55.60	80 892 20600	●			●			●	●			●

Jaw, profiled



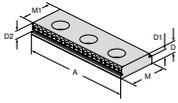
▲ Price per piece

			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	H5G
100	35	10	44.98	80 892 20700	●					●	●				●
125	40	11,5	53.72	80 892 20800	●			●			●	●	●		●
160	50	13,5	62.44	80 892 20900	●			●			●	●			●

General top jaws overview

Description	A	D	D ₁	D ₂	M	M ₁	price	Article no.	Type association
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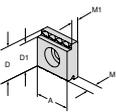
Grip jaw, indexable



- ▲ For vertical and horizontal application
- ▲ Price per piece

							£	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		47.85	80 895 343	●					●	●				●
65	8	5,5	5	22	19		34.17	80 895 340	●					●		●		●	

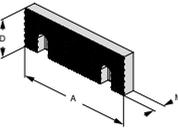
Grip jaw, indexable



- ▲ For vertical and horizontal application
- ▲ 3 point clamping
- ▲ Price per piece

							£	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		33.29	80 895 345	●					●	●			●	

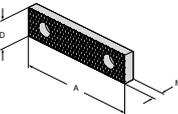
Jaw, cut



- ▲ Price per piece

							£	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			52.45	80 892 20100	●					●					●
125	40			12,5			64.26	80 892 20200	●			●			●	●	●		●
160	50			14,5			76.39	80 892 20300	●			●			●	●			●

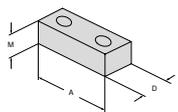
Jaw, cut



- ▲ Price per piece

							£	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			30.85	80 889 404						●					●
40	35			11			35.06	80 889 408											●
65	22			8			35.06	80 889 654						●					●
65	35			11			38.94	80 889 658											●
90	22			8			38.94	80 889 904											●
90	35			11			45.90	80 889 908											●

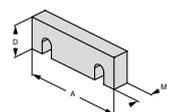
Jaw, soft



- ▲ Only for vertical application
- ▲ Price per piece

							£	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			30.85	80 895 244						●					●
65	22			20			35.06	80 895 245		●		●		●					●
90	22			20			38.94	80 895 246				●		●					●

Soft jaws



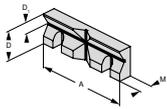
- ▲ for the preparation of formed jaws
- ▲ Price per piece

							£	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			42.44	80 892 24700	●					●	●				●
125	40			20			50.56	80 892 24800	●	●		●		●	●	●	●		●
160	50			20			58.08	80 892 24900	●			●		●	●				●

General top jaws overview

Description	Clamping Ø	A	D	D ₁	M	M ₁	price	Article no.	Type association
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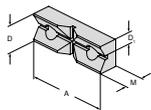
Prismatic jaw



- ▲ with horizontal and vertical prism
- ▲ prism horizontally and vertically ground for parallelism
- ▲ Price per piece

						£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
11 - 41	100	35	13	15,5		127.31	80 892 26100	●					●	●				●
14 - 48	125	40	16	17,5		143.07	80 892 26200	●	●					●		●		●
16 - 60	160	50	20	19,5		212.19	80 892 26300	●		●				●		●		●

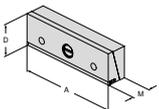
Prismatic jaw



- ▲ with horizontal and vertical prism
- ▲ price per piece

						£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
11 - 22	65	22	11	15		121.00	80 895 337	●	●				●				●	

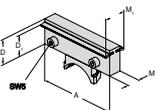
Precision pull down jaw



- ▲ Pull down jaw is only for use on the movable jaw
- ▲ Price per piece

						£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
	90	35		25		219.54	80 892 356											
	100	35		25		244.80	80 892 370	●						●				●
	125	40		25		253.14	80 892 371	●	●		●			●	●	●		●
	160	50		27,5		386.67	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

						£	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	28	45	272.61	80 892 258	●										
	125	40	32,5	20	35	268.45	80 892 259	●						●				
	160	50	42	20	35	317.13	80 892 260	●						●				

Multipin front jaw

- ▲ price per piece

NCG	DSG
HDG 2	H5G
ZSG 4	ESG 4



Multipin stop pin

- ▲ Price per piece
- ▲ Replacement PIN – multipin front jaw

Scope of supply:

Including O ring and circlip



NEW

	A mm	D mm	M mm	£	Y4
Left-hand	125	40	20	284.89	301
Right-hand	125	40	20	284.89	300

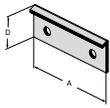
NEW

	D ₁ mm	M mm	£	Y4
	6	11,2	3.42	500

General top jaws overview

Description	A	D	D ₁	M	M ₁	price	Article no.	Type association
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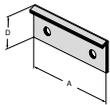
Pull down jaw with spring plate



- ▲ for finish machining
- ▲ Price per piece

					£	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				61.50	80 901 309				●							
125	35				81.08	80 901 310				●					●	●	
160	45				92.83	80 901 311				●					●		

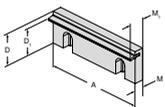
Pull down jaw with spring plate



- ▲ for finish machining
- ▲ Price per piece

					£	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				53.32	80 898 923											
100	36				68.16	80 898 924	●					●					
125	41				80.65	80 898 925	●					●	●				
160	51				92.97	80 898 926	●					●	●				●

Spring leaf pull down jaw



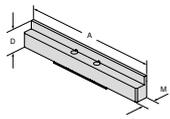
- ▲ Price per piece

					£	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	58.68	80 892 22800	●					●	●				●
125	40	32,5	11,5	19	68.51	80 892 22900	●			●		●	●	●	●		●
160	50	42	13,5	21	89.12	80 892 23000	●			●		●	●				●

Workpiece supports overview

Description	A	D	D ₁	M	M ₁	price	Article no.	Type association
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Workpiece supports, offset



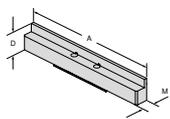
- ▲ hardened and ground
- ▲ held by means of spring wedge in the baseplate
- ▲ Price for 2 pieces

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
100	11		10,5	129.35	80 890 400	●										
100	16		10,5	129.35	80 890 401	●										
100	23		10,5	129.35	80 890 409	●										
100	25,5		10,5	129.35	80 890 411	●										
100	29,5		10,5	129.35	80 890 421	●										
125	11		10,5	155.77	80 890 390	●										
125	16		10,5	155.77	80 890 391	●										
125	21		10,5	155.77	80 890 392	●										
125	25		10,5	155.77	80 890 422	●										
125	26		10,5	155.77	80 890 393	●										
125	29		10,5	155.77	80 890 394	●										
125	32,5		10,5	155.77	80 890 395	●										
125	36		10,5	155.77	80 890 396	●										
160	26		10,5	189.16	80 890 452	●										
160	39		10,5	200.29	80 890 454	●										
160	42,5		10,5	210.54	80 890 456	●										

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
125			10,5	1,030.63	80 890 399	●										

80 890 399: Set of 7 workpiece supports of 2 pieces in a wooden box (exclusive 80 890 422)

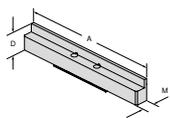
Workpiece supports, offset



- ▲ Price for 2 pieces

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
65	11		10,5	122.40	80 897 011						●					
65	16		10,5	122.40	80 897 016						●					

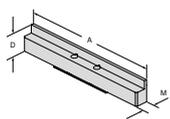
Workpiece supports, offset



- ▲ Price for 2 pieces

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
40	11		10,5	122.40	80 897 004						●					
40	16		10,5	122.40	80 897 005						●					

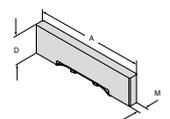
Workpiece supports, offset



- ▲ Hardened and ground
- ▲ Held by means of clamping springs in the base plate
- ▲ 2 pieces contained in set
- ▲ Price per set

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
125	11		10,5	155.61	80 901 703				●							
125	21		10,5	155.61	80 901 704				●							
125	25		10,5	155.61	80 901 705				●							
125	32,5		10,5	155.61	80 901 706				●							
160	26		10,5	188.24	80 901 700				●							
160	39		10,5	199.55	80 901 701				●							
160	42,5		10,5	212.09	80 901 702				●							

Workpiece supports, offset



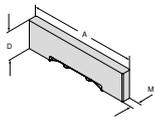
- ▲ Hardened and ground
- ▲ Held by means of clamping springs in the base plate
- ▲ Two pieces contained in set
- ▲ Price per set

				£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
80	15		10,5	129.27	80 901 707				●							
80	20		10,5	128.30	80 901 708				●							

Workpiece supports overview

Description	A	D	D ₁	M	M ₁	price	Article no.	Type association
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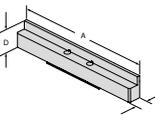
Workpiece supports, offset



- ▲ Hardened and ground
- ▲ Held by means of clamping springs in the base plate
- ▲ Two pieces contained in set
- ▲ Price per set

					£	Y4	NCG	H5G/-S/-Z	X5G-Z/-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
125	15		10,5		154.41	80 906 715											
125	21		10,5		154.41	80 906 721											
125	25		10,5		154.41	80 906 725											
125	32,5		10,5		154.41	80 906 732											
125	22		10,5		154.41	80 906 722											

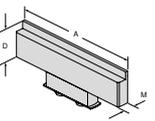
Workpiece surface, offset



- ▲ hardened and ground
- ▲ price for 2 pieces

					£	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		122.40	80 889 411											
40	16		10,5		122.40	80 889 416											
40	21		10,5		122.40	80 889 421											
40	25		10,5		122.40	80 889 425											
40	28		10,5		122.40	80 889 428											
40	30		10,5		122.40	80 889 430											
40	32,5		10,5		122.40	80 889 432											
65	11		10,5		122.40	80 889 611											
65	16		10,5		122.40	80 889 616											
65	21		10,5		122.40	80 889 622											
65	25		10,5		122.40	80 889 625											
65	28		10,5		122.40	80 889 628											
65	30		10,5		122.40	80 889 630											
65	32,5		10,5		122.40	80 889 632											
90	11		10,5		141.87	80 889 911											
90	16		10,5		141.87	80 889 916											
90	21		10,5		141.87	80 889 921											
90	25		10,5		141.87	80 889 925											
90	28		10,5		141.87	80 889 928											
90	30		10,5		141.87	80 889 930											
90	32,5		10,5		141.87	80 889 932											

Workpiece supports



- ▲ hardened and ground
- ▲ held by spring clips in the baseplate
- ▲ Price for 2 pieces

					£	Y4	NCG	H5G/-S/-Z	X5G-Z/-S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	DSG 4	MSG 2	HSG
100	16		10,5		129.35	80 892 401											
100	25,5		10,5		129.35	80 892 411											
100	29,5		10,5		129.35	80 892 421											
125	11		10,5		155.77	80 892 390											
125	16		10,5		155.77	80 892 391											
125	21		10,5		155.77	80 892 392											
125	26		10,5		155.77	80 892 393											
125	29		10,5		155.77	80 892 394											
125	32,5		10,5		155.77	80 892 395											
125	36		10,5		155.77	80 892 396											
160	26		10,5		189.16	80 892 403											
160	39		10,5		200.29	80 892 413											
160	42,5		10,5		210.54	80 892 423											

					£	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		1,030.63	80 892 399											

80 892 399: Set of 7 workpiece supports of 2 pieces in a wooden box

Magnet workpiece supports, set

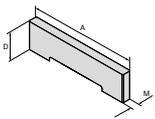


- ▲ With clearance on the underside
- ▲ Flexible and rational clamping
- ▲ Height accuracy +/- 0.01 mm
- ▲ Quick and easy to install thanks to magnetic adhesion

Workpiece supports overview

Description	A	D	M	price	Article no.	Type association
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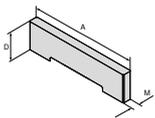
Magnet workpiece supports, set



- ▲ Stainless spring steel
- ▲ Pressed magnets
- ▲ Delivered in set: 5 pairs of 2 pieces
- ▲ Price per set

			£	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	264.34	80 878 79800				●							
125	8 / 12 / 20 / 25 / 27	2,5	298.25	80 878 79900	●			●			●	●	●		

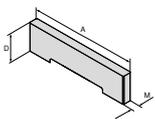
Magnet workpiece supports, set



- ▲ Stainless spring steel
- ▲ Pressed magnets
- ▲ Delivered in set: 5 pairs of 2 pieces
- ▲ Price per set

			£	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	284.29	80 892 79700	●					●	●	●			
125	12 / 25 / 30 / 35 / 37	2,5	298.25	80 892 79800	●						●	●	●		
160	15 / 30 / 40 / 45 / 47	2,5	314.21	80 892 79900	●			●			●	●			

Magnet workpiece supports, set



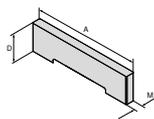
- ▲ Stainless spring steel
- ▲ Pressed magnets
- ▲ Delivered in set: 5 pairs of 2 pieces
- ▲ Price per set

			£	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	298.25	80 901 79900	●						●	●	●		

Workpiece supports overview

Description	A	D	M	price	Article no.	Type association
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Magnet workpiece supports



▲ Price per pair

			£	Y4	NCG	H5G / -S / -Z	X5G-Z / -S	ESG 4	ESG 5	ESG mini	HDG 2	ZSG 4	D5G 4	MSG 2	H5G
80	5	2,5	56.32	80 892 79600				●					●	●	
80	10	2,5	56.32	80 892 79500	●			●				●	●	●	
80	15	2,5	56.32	80 892 79400				●				●	●	●	
80	20	2,5	56.32	80 892 79300				●				●	●	●	
80	22	2,5	56.32	80 892 79200				●				●	●		
100	12	2,5	59.18	80 892 79100	●					●	●	●	●		
100	20	2,5	59.18	80 892 79000						●	●	●	●		
100	25	2,5	59.18	80 892 78900	●					●	●	●	●		
100	27	2,5	59.18	80 892 78800	●					●	●	●	●		
100	29	2,5	59.18	80 892 78700	●					●	●	●	●		
100	30	2,5	59.18	80 892 78600	●					●	●	●	●		
100	31	2,5	59.18	80 892 78500	●					●	●	●	●		
100	32	2,5	59.18	80 892 78400	●					●	●	●	●		
125	8	2,5	62.04	80 892 78300	●							●	●	●	
125	9	2,5	62.04	80 892 78200	●							●	●	●	
125	10	2,5	62.04	80 892 78100	●							●	●	●	
125	12	2,5	62.04	80 892 78000	●							●	●	●	
125	15	2,5	62.04	80 892 77900	●							●	●	●	
125	20	2,5	62.04	80 892 77800	●							●	●	●	
125	22	2,5	62.04	80 892 77700	●							●	●	●	
125	23	2,5	62.04	80 892 77600	●							●	●	●	
125	25	2,5	62.04	80 892 77500	●							●	●	●	
125	27	2,5	62.04	80 892 77400	●							●	●	●	
125	30	2,5	62.04	80 892 77300	●							●	●	●	
125	31	2,5	62.04	80 892 77200	●							●	●	●	
125	32	2,5	62.04	80 892 77100	●							●	●	●	
125	33	2,5	62.04	80 892 77000	●							●	●	●	
125	34	2,5	62.04	80 892 76900	●							●	●	●	
125	35	2,5	62.04	80 892 76800	●							●	●	●	
125	36	2,5	62.04	80 892 76700	●							●	●	●	
125	37	2,5	62.04	80 892 76600	●							●	●	●	
160	15	2,5	66.82	80 892 76500	●							●	●		
160	22	2,5	66.82	80 892 76400	●							●	●		
160	30	2,5	66.82	80 892 76300	●							●	●		
160	37	2,5	66.82	80 892 76200	●							●	●		
160	40	2,5	66.82	80 892 76100	●							●	●		
160	41	2,5	66.82	80 892 76000	●							●	●		
160	42	2,5	66.82	80 892 75900	●							●	●		
160	43	2,5	66.82	80 892 75800	●							●	●		
160	44	2,5	66.82	80 892 75700	●							●	●		
160	45	2,5	66.82	80 892 75600	●							●	●		
160	46	2,5	66.82	80 892 75500	●							●	●		
160	47	2,5	66.82	80 892 75400	●							●	●		

Workpiece support, magnetic

Scope of supply:

Including stop pin 50 mm/100 mm



NEW

80 892 ...

for width mm	Size	£ Y4	
80/100/125/160	60x15	97.76	23800
80/100/125/160	115x15	142.64	23900

Extension for workpiece support, magnetic



NEW

80 892 ...

for width mm	Size	£ Y4	
80/100/125/160	68x30 mm	75.81	25400

Accessories General Overview

Alignment and centering kit for T-slots

▲ Price per piece

ESG 4	DSG 4
H5G -Z	ESG mini



80 897 ...

l mm	for slot width mm	£ Y4	
100	14	54.68	114
100	16	54.68	116
100	18	54.68	118

Alignment and centring set

▲ Price per piece

ESG 4	DSG 4
----------	----------



80 906 ...

l mm	for slot width mm	£ Y4	
80	12	47.68	812
80	14	47.68	814
80	16	47.68	816
80	18	47.68	818

Clamping Screw Set for T-slot for MNG

▲ Price for 2 pieces

ZSG 4	ESG 4
DSG 4	



80 899 ...

for width mm	G	£ Y4	
12	M10	16.63	312
14	M12	16.63	314
16	M12	23.30	316
18	M12	25.04	318

Workpiece stop

NCG	HDG 2	ZSG 4	DSG 4
H5G	ESG 4	ESG mini	



80 892 ...

£ Y4	
62.59	400

Workpiece stop

MSG 2	ZSG 4	DSG 4
ESG 4	ESG mini	



80 895 ...

£ Y4	
42.37	010

Workpiece stop

ZSG 4	ESG 4
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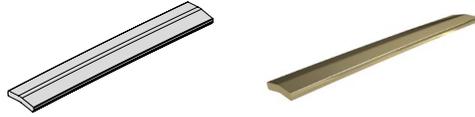
80 884 ...

£ Y4	
42.37	400

Accessories General Overview

Replacement spring plates

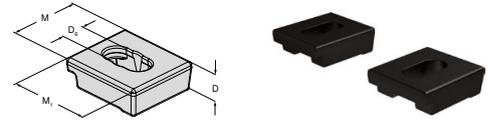
- ▲ price per piece
- ▲ for pull down and intermediate jaws



		80 892 ...	
for width mm		£	Y4
100		26.62	430
125		23.85	431
160		26.42	432

Clamping claws

- ▲ Price for 2 pieces



				80 890 ...	
D mm	D ₆ mm	M mm	M ₁ mm	£	Y4
20	16	50	57	32.81	315

Clamping levers overview

Description	Torque in Nm	Square drive	DRVS	price	Article no.	Type association
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Clamping Handle with Joint



▲ without socket

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
	1/2"		£ 79.89	Y4 80 891 600						●					

Torque Wrench



▲ without socket

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
10 - 100	1/2"		£ 307.90	Y4 80 884 502			●			●	●	●	●		
20 - 200	1/2"		£ 306.24	80 884 504							●	●			

Torque key



▲ without socket

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
5 - 50	3/8"		£ 271.22	Y4 80 884 402										●	●

Socket



▲ Suitable for 1/2" and 3/8" square drive

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
	3/8"	5	£ 17.98	Y4 80 877 105											
	1/2"	8	£ 17.98	80 877 208											
	3/8"	8	£ 17.98	80 877 108						●				●	●
	1/2"	10	£ 17.98	80 877 210						●					
	1/2"	14	£ 17.98	80 877 214		●	●			●					

Socket



▲ Suitable for 1/2" and 3/8" square drive

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
	3/8"	7	£ 17.98	Y4 80 875 107											
	1/2"	12	£ 17.98	80 875 212				●				●	●		
	3/8"	12	£ 17.98	80 875 112											
	1/2"	14	£ 17.98	80 875 214				●				●	●		

Hexagon adapter SW 12 to SW 27



▲ For compressed air impact wrench

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
		12	£ 49.51	Y4 80 875 27000								●			

Control set



▲ Torque wrench including nut and screwdriver SW10

Torque in Nm	Square drive	DRVS	price	Article no.	NCG	H5G /-S /-Z	X5G-Z /-S	ESG 4	ESG 5	ESG mini	HDG 2	Z5G 4	DSG 4	MSG 2	MNG
8 - 50	3/8"	10	£ 331.04	Y4 80 899 410											●

Screws Overview

Description	for width	G	J ₁₇	price	Article no.	Type association
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Clamping screw and T-Nuts



- ▲ For mounting the clamping claw
- ▲ Price per 2 pieces

			£	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		16.63	80 890 308	●	●									
14	M12		16.63	80 890 309	●	●									
16	M14		18.30	80 890 310	●	●									
18	M16		19.97	80 890 311	●	●									

Clamping screws for round clamps, T-Nut



- ▲ incl. nut and washer
- ▲ Price per 2 Pieces

			£	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		16.63	80 899 112										●	●
14	M12		16.63	80 899 114										●	●
16	M12		18.30	80 899 116										●	●
18	M12		19.97	80 899 118										●	●

Tenon incl. screw



- ▲ Price per 2 pieces

			£	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		57.40	80 898 412	●	●									
14	M6		57.40	80 898 414	●	●									
16	M6		57.40	80 898 416	●	●									
18	M6		57.40	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
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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

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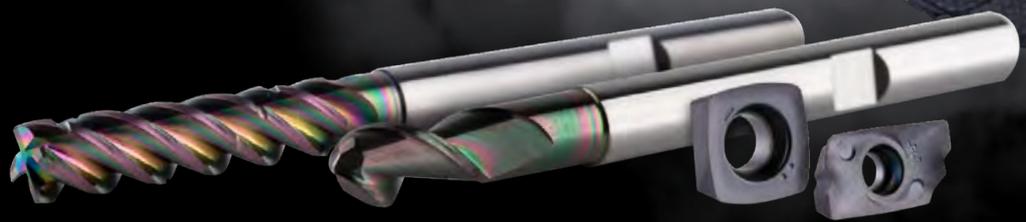
ISO designation system

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



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