

SELECTION



Sliding Head

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

Tooling a Sustainable Future

ceratizit.com



CERATIZIT
GROUP

Welcome!



It couldn't be easier

**Ordering via the
Online Shop**

<https://cuttingtools.ceratizit.com>

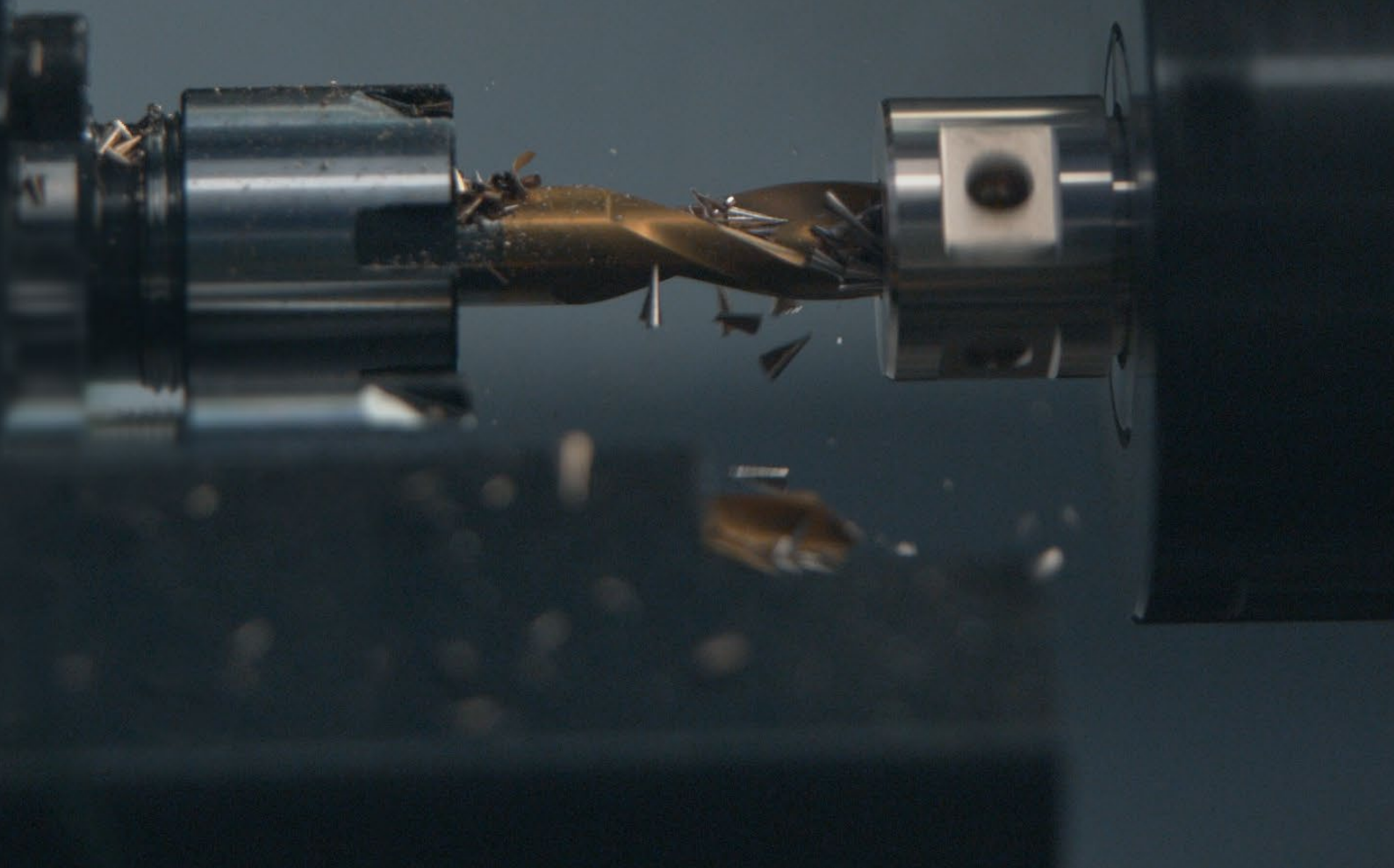


On-site technical support

**Your Local Technical
Sales Engineer**

Your customer number

Solid drilling and bore machining	HSS drilling	1
	Solid carbide drilling	
	Reamers	
Threading	HSS taps	2
	Circular and Thread Milling	
	Thread turning	
Turning	Turning Tools	3
	Multifunction	
	Grooving Tools	
	Miniature turning tools	
Milling	Solid Carbide milling cutters	4
	Milling tools with indexable inserts	
Clamping technology	Collets and reduction sleeves	5





Solid drilling and bore machining

HSS drilling

Solid carbide drilling

Reamers

1

Threading

HSS taps

Circular and Thread Milling

Thread turning

2

Turning

Turning Tools

Multifunction

Grooving Tools

Miniature turning tools

3

Milling

Solid Carbide milling cutters

Milling tools with indexable inserts

4

Clamping technology

Collets and reduction sleeves

5

Table of contents

Overview	4
Toolfinder	4

Products and product information can be found in our main catalogue and online shop.

Overview



HSS Drilling

- ▲ Drill for universal application up to 10xD



Solid Carbide Drilling

- ▲ Selection of solid carbide drills and WTX drills
- ▲ High performance for universal application



Reamers

- ▲ HSS and solid carbide reaming from Ø 0.59 - 12 mm

Toolfinder



Mini-drill Micro drills

	HSS	Solid carbide
DIN 1899	✓	
5xD		✓
8xD		✓
12xD		✓



NC Spot Drill

	HSS	Solid carbide
90°	✓	✓
120°	✓	✓

Symbol explanation

Shank



Plain cylindrical shank



Cylindrical shank with lateral driving face „Weldon“



Cylindrical shank with angled clamping flat „Whistle Notch“



Cylindrical shank with lateral driving face (similar to ISO 9766)

Version



Int. coolant supply



self-centering



▲ Pilot hole necessary
▲ min. 2xD

Tool types

HFDS

An explanation of the tool types can be found in the main catalogue, **Chapter 2 Solid carbide drilling**.

- = Main Application
- = Extended application



180° drills

Solid carbide	
3xD	✓
5xD	✓



Reamers

	HSS	Solid carbide
0,95–12,00	✓	
0,59–12,05		✓



Standard drills

	HSS	Solid carbide
3xD	✓	✓
5xD	✓	✓
10xD	✓	





Solid drilling and bore machining

HSS drilling

Solid carbide drilling

Reamers

1

Threading

HSS taps

Circular and Thread Milling

Thread turning

2

Turning

Turning Tools

Multifunction

Grooving Tools

Miniature turning tools

3

Milling

Solid Carbide milling cutters

Milling tools with indexable inserts

4

Clamping technology

Collets and reduction sleeves

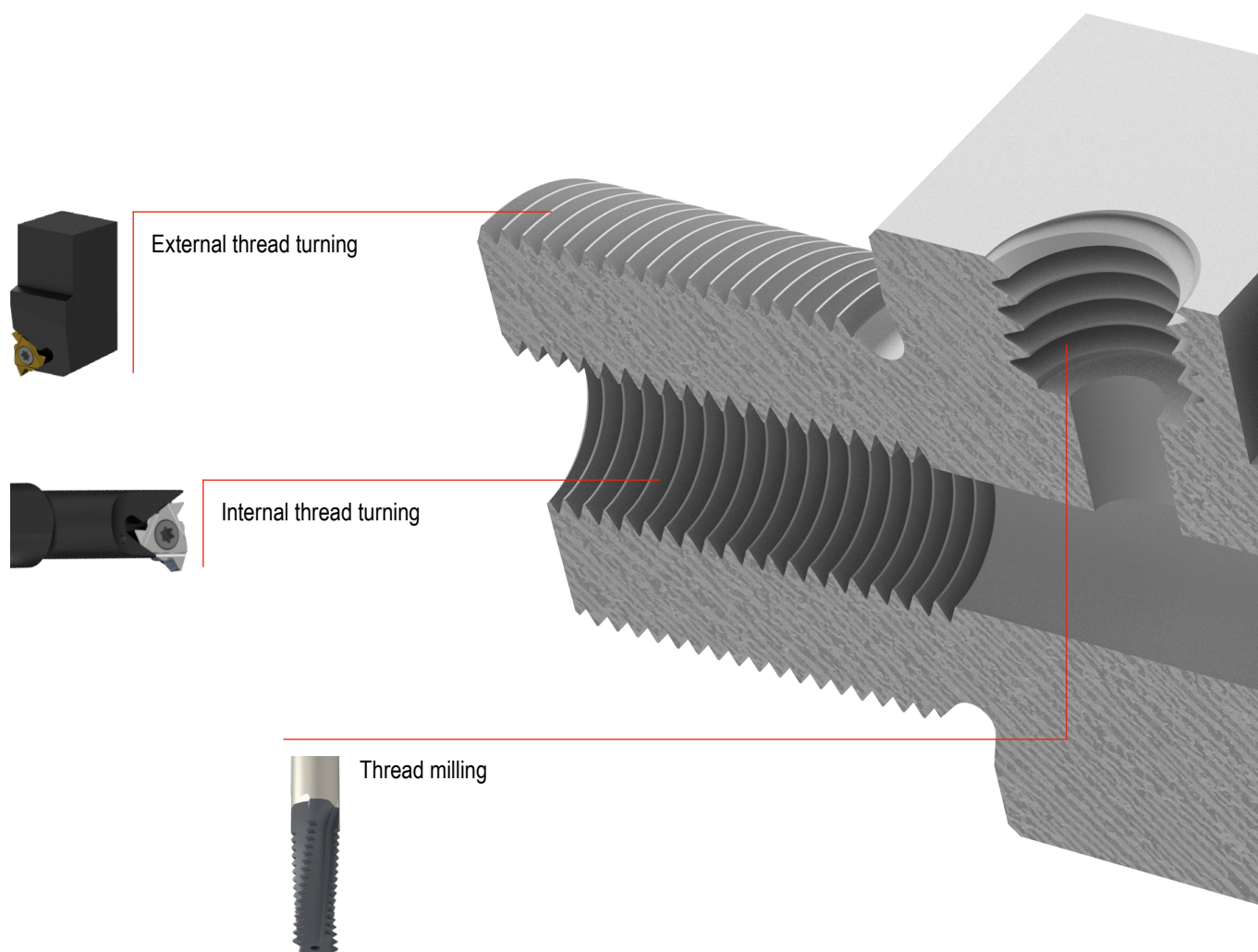
5

Table of contents

Toolfinder	4+5
Overview	5+6

Products and product information can be found in our main catalogue and online shop.

Toolfinder



Overview



Tapping

- ▲ For through holes and blind holes
- ▲ All common thread types
- ▲ Universal application
- ▲ Static application
- ▲ Rotating application



Thread milling

- ▲ Excellent surface qualities
- ▲ For through holes and blind holes
- ▲ Universal application
- ▲ Various diameters with the same pitch



Circular Milling

- ▲ Circular milling
- ▲ Slot milling
- ▲ Multipurpose milling
- ▲ Universal application



Thread turning

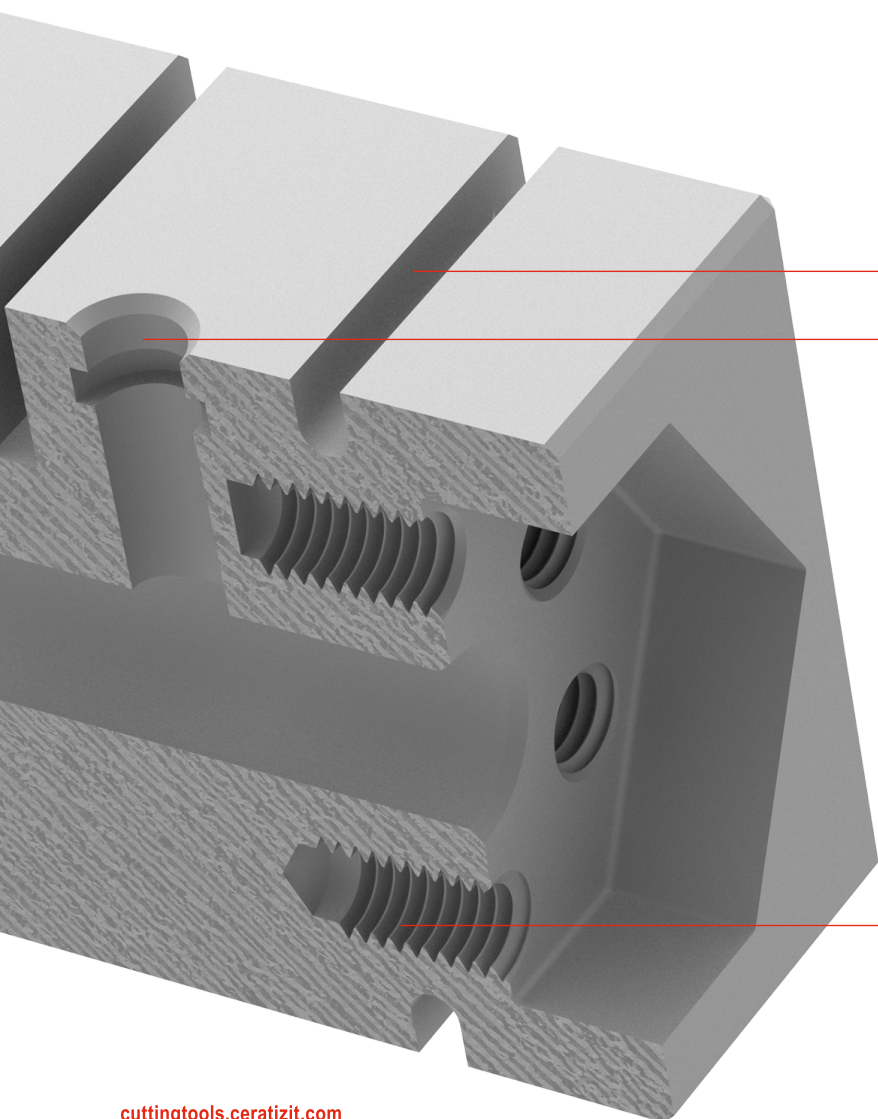
- ▲ Size 06 insert
- ▲ Size 08 insert
- ▲ Size 11 insert
- ▲ Size 16 insert
- ▲ Internal and external thread
- ▲ Shank cross-section = 8 – 25 mm
- ▲ Universal application



Circular and slot milling



Tapping



Thread turning tools overview

Full profile

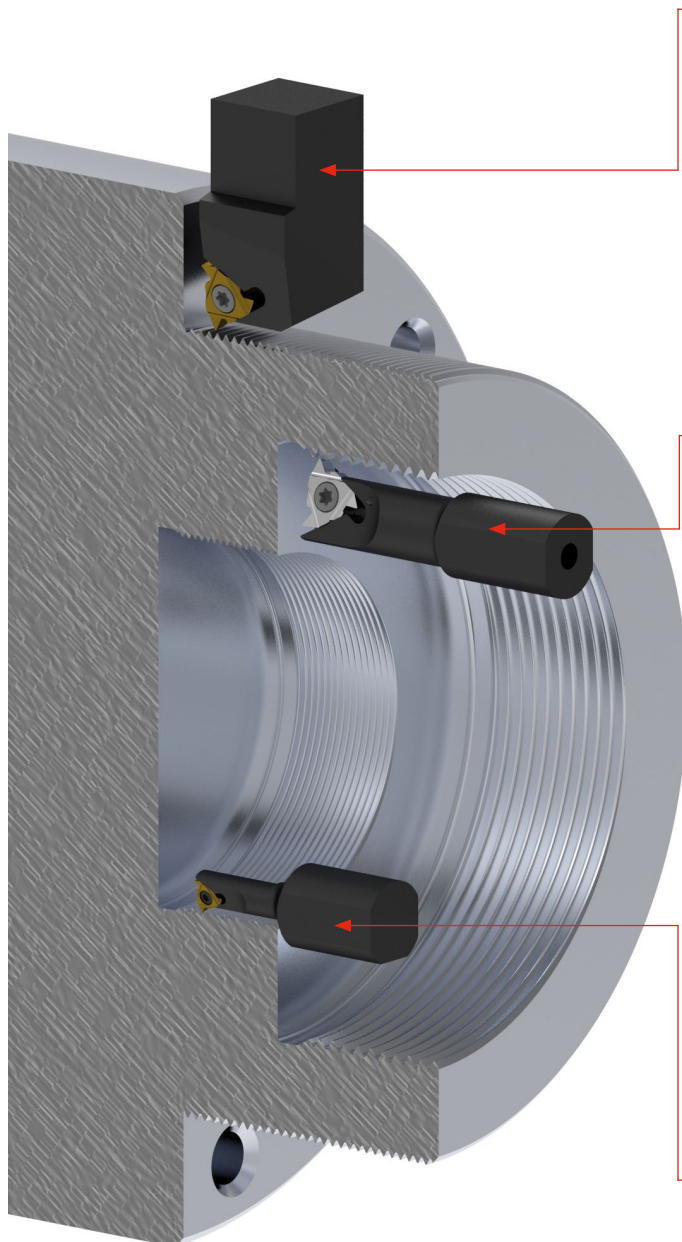


- ▲ Improved quality of thread
- ▲ No burr formation
- ▲ No secondary operations
- ▲ Longer service lives

Partial profile



- ▲ One insert can be used for several pitches
- ▲ Reduced stock requirements

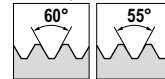


Standard external thread turning

Full profile

M	MJ	BSW	UN	UNC	UNF	UNEF
---	----	-----	----	-----	-----	------

Partial profile



suitable holder

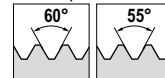


Standard internal thread turning

Full profile

M	MJ	BSW	UN	UNC	UNF	UNEF
---	----	-----	----	-----	-----	------

Partial profile



suitable holder



Full profile / partial profile

Mini size 06 / 08



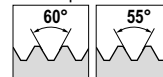
- ▲ Special inserts for low cutting speeds
- ▲ for diameters from 6mm to 8mm

Mini 06

Full profile

M	BSW
---	-----

Partial profile

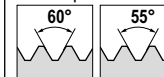


Mini 08

Full profile

M

Partial profile



suitable holder



Other thread turning tools

VertiClamp

→ Chapter Turning – Turning tools

UltraMini



Full profile
Partial profile



Full profile
Partial profile



Partial profile



Partial profile

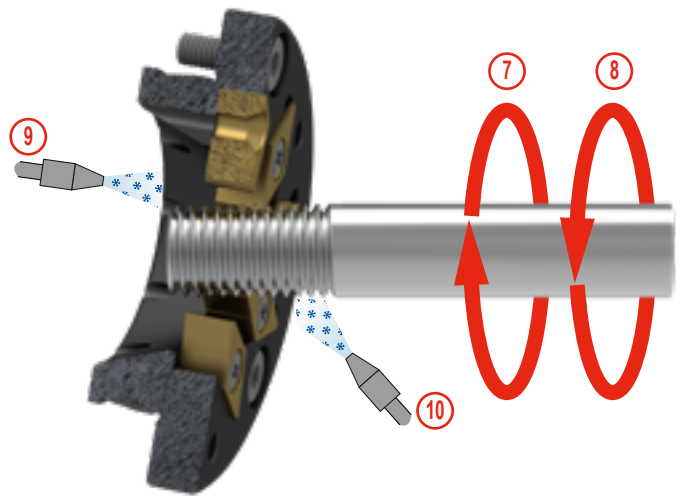
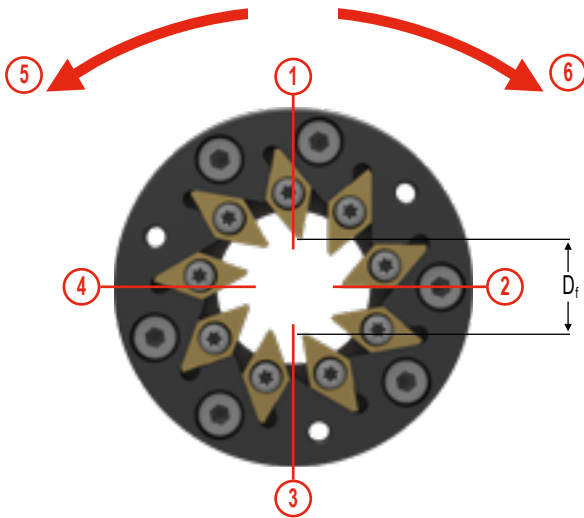
→ Chapter Turning – Miniature turning tools

Form

Request for special tools Thread whirling

Please send the completed form to Techsupport.UK@ceratizit.com!

Company:	Department:
Technical Sales Engineer:	Contact:
Customer no.:	Contact Tel. No.:
Your reference:	Contact E-Mail:



1 Material

Designation	(DIN)	
Bar diameter	(Ø)	
Bar direction of rotation	(7) (8)	
Cutting position	(1) (2) (3) (4)	

2 Cutting edge

Full profile	
Number of threads	
Coating	(only if expressly required)

3 Tool data

Tool direction of rotation	(5) (6)
Inner cutting circle	(D _i)

4 Machine data

Manufacturer	
Machine type	
Driven tool manufacturer	
Driven tool type	
Fitted on/to (e.g. turret, carriage, other)	
Y axis (yes/no)	
Coolant pressure (bar)	
Position of coolant supply	(9) (10)

5 Comments

Please include a detailed drawing of the threaded part with this request form.



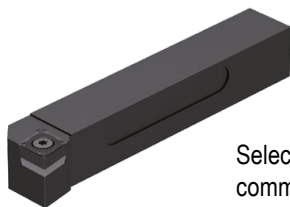
ISO turning	→ Page 5-17
TriClamp	→ Page 18-23
Reverse-side machining	→ Page 24-62
VertiClamp	→ Page 66-92
Coolant connections	→ Page 93+94

Solid drilling and bore machining	HSS drilling	1	
	Solid carbide drilling		
	Reamers		
Threading	HSS taps	2	
	Circular and Thread Milling		
	Thread turning		
Turning	Turning Tools	→ Page 5–103	3
	Multifunction	→ Page 104+105	
	Grooving Tools	→ Page 106+107	
	Miniature turning tools	→ Page 108+109	
Milling	Solid Carbide milling cutters	4	
	Milling tools with indexable inserts		
Clamping technology	Collets and reduction sleeves	5	

Table of contents

Overview	4
ISO turning	
Symbol explanation	5
Toolfinder	5
Product programme	6–17
TriClamp	
Toolfinder	18
Product programme	19–23
Reverse-side machining	
Toolfinder	24+25
Product programme	26–65
VertiClamp	
Toolfinder	66+67
Product programme	68–92
Coolant connections	93+94
Technical Information	95–103

ISO turning



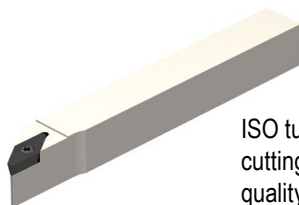
Selection of turning inserts with common ISO geometries in various cutting material grades.

VertiClamp



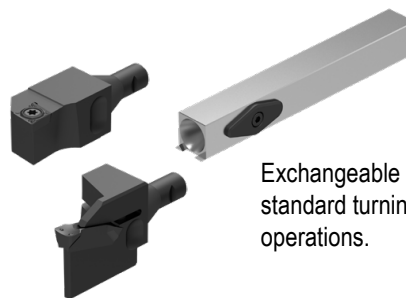
Specialised systems for use on sliding head lathes with vertically positioned indexable inserts.

TriClamp



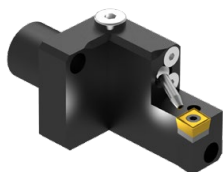
ISO turning inserts with optimised cutting edge for improving the surface quality or increasing the feed rate.

XheadClamp



Exchangeable head system for standard turning and grooving operations.

Reverse-side machining



Flexible tool holder system for machining on the second spindle. There are modular, as well as monoblock tool holders available for turning, grooving, boring and threading on the back of the part.



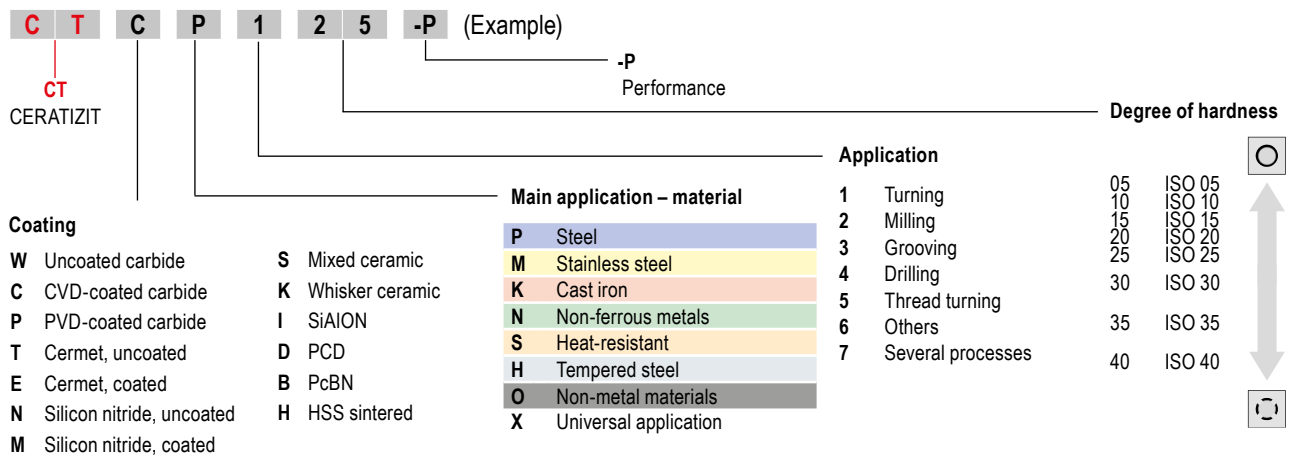
Products and product information can be found in our main catalogue and online shop.

Symbol explanation

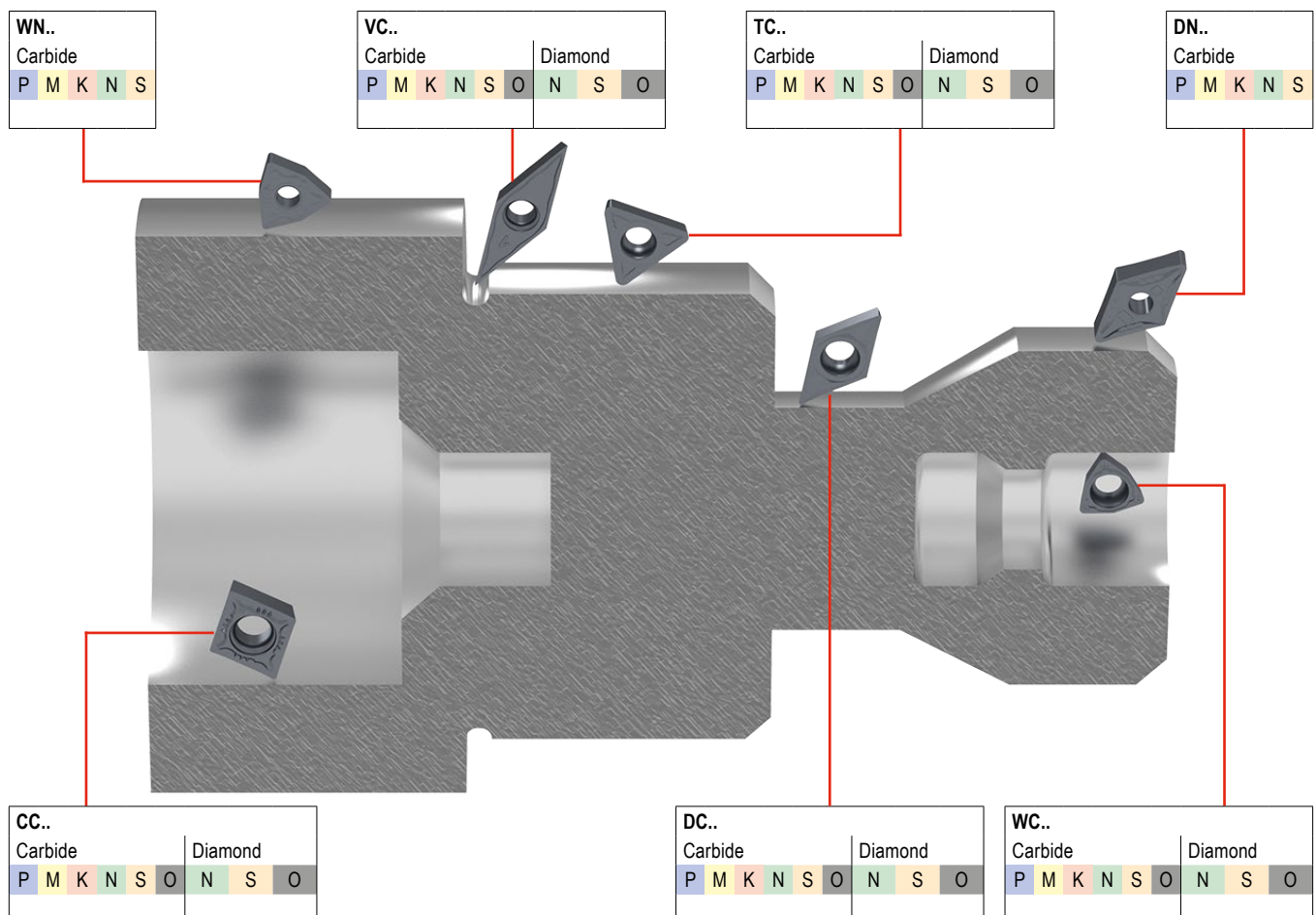
CTCP125-P	Carbide Grade		Smooth cut Irregular cutting depth Interrupted cut	Int. coolant supply
F	Fine Machining			
M	Medium Machining			
R	Rough Machining			DirectCooling

1 A detailed overview of grades can be found in the technical appendix on → **page 103**

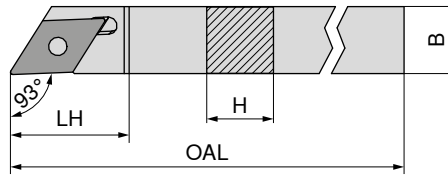
Grade description



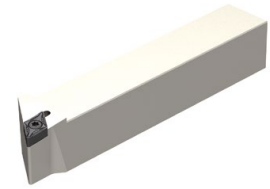
Toolfinder – ISO turning – application



Products and product information can be found in our main catalogue and online shop.

MaxiLock-S – SDJN 93° – Toolholder with screw clamping

Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert	Left-hand 70 699 ...		Right-hand 70 698 ...	
								EUR X0		EUR X0	
SDJN R/L 1012 H11	10	12	100	21,3	12	3,2	DNGU 1104	123,20	010	123,20	010
SDJN R/L 1212 H11	12	12	100	21,3	12	3,2	DNGU 1104	123,20	012	123,20	012
SDJN R/L 1616 K11	16	16	125	21,3	16	3,2	DNGU 1104	134,00	016	134,00	016
SDJN R/L 2020 K11	20	20	125	21,3	20	3,2	DNGU 1104	134,00	020	134,00	020
SDJN R/L 2525 M11	25	25	150	21,3	25	3,2	DNGU 1104	155,20	025	155,20	025

**Spare parts
for Article no.**

70 698 010 / 70 699 010
70 698 012 / 70 699 012
70 698 016 / 70 699 016
70 698 020 / 70 699 020
70 698 025 / 70 699 025



Clamping screw

72 950 ...

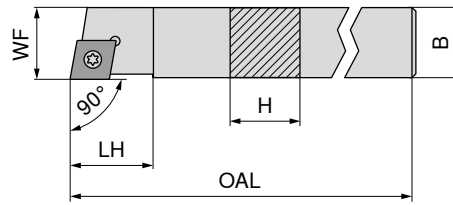
EUR 2A	
6,07	007
6,07	007
6,07	007
6,07	007
6,07	007

MaxiLock-S – SCAC 90° – Toolholder with screw clamping

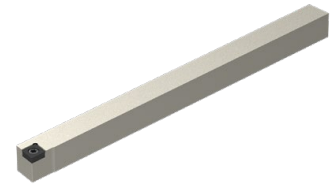
▲ for sliding head lathes

Scope of supply:

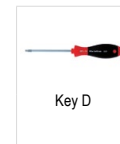
Tool holder with Torx key



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert	Left-hand		Right-hand	
								70 633 ...		70 633 ...	
								EUR 2A/24		EUR 2A/24	
SCAC R/L 0808 D06	8	8	60	9	8	1,2	CC.. 0602	75,87	00800	75,87	00801
SCAC R/L 1010 E06	10	10	70	9	10	1,2	CC.. 0602	80,94	01000	80,94	01001
SCAC R/L 0808 K06	8	8	125	9	8	1,2	CC.. 0602	80,94	10800	80,94	10801
SCAC R/L 1010 M06	10	10	150	9	10	1,2	CC.. 0602	80,94	11000	80,94	11001
SCAC R/L 1212 F09	12	12	80	13	12	3,2	CC.. 09T3	80,94	01200	80,94	01201
SCAC R/L 1616 H09	16	16	100	13	16	3,2	CC.. 09T3	101,20	11600	101,20	11601
SCAC R/L 1212 M09	12	12	150	13	12	3,2	CC.. 09T3	91,06	11200	91,06	11201



Key D



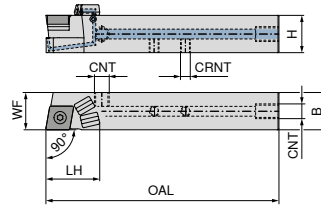
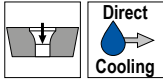
Clamping screw

**Spare parts
for Article no.**

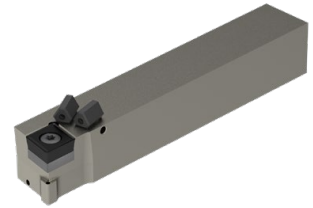
	80 950 ...		70 950 ...	
	EUR Y7		EUR 2A/28	
70 633 00801 / 70 633 00800	8,11	039	5,38	857
70 633 01001 / 70 633 01000	8,11	039	5,38	857
70 633 10801 / 70 633 10800	8,11	039	5,38	857
70 633 11001 / 70 633 11000	8,11	039	5,38	857
70 633 01201 / 70 633 01200	11,79	120	4,82	87900
70 633 11601 / 70 633 11600	11,79	120	4,82	87900
70 633 11201 / 70 633 11200	11,79	120	4,82	87900

MaxiLock-S – SCAC 90° DC – Tool holder with screw clamping

▲ for sliding head lathes



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	Left-hand 70 766 ...	Right-hand 70 766 ...
										EUR 2A/24	EUR 2A/24
SCAC R/L 1212 F09 DC	12	12	80	22	12	M6	M6	3,2	CC.. 09T3	171,30 01201	171,30 01200
SCAC R/L 1212 M09 DC	12	12	150	21	12	M6	M6	3,2	CC.. 09T3	183,00 11201	183,00 11200
SCAC R/L 1616 H09 DC	16	16	100	30	16	G1/8"	M6	3,2	CC.. 09T3	190,30 01601	190,30 01600

Spare parts
for Article no.

70 766 01200 / 70 766 01201
70 766 11200 / 70 766 11201
70 766 01600 / 70 766 01601

Clamping screw	Carbide type C	Grubscrew	Grubscrew	Threaded sleeve
70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28
4,14 859			3,84 86700	
4,14 859			3,84 86700	
4,82 87900	12,46 165	2,19 88000	3,84 86700	5,98 171

Spare parts
for Article no.

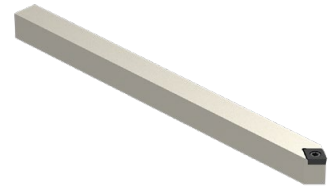
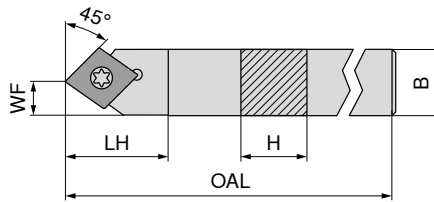
70 766 01200 / 70 766 01201
70 766 11200 / 70 766 11201
70 766 01600 / 70 766 01601

Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...
EUR 2A/28	EUR Y7	EUR 2A/28	EUR 2A/28	EUR 2A/28
	11,79 120			
	11,79 120			
1,53 87600	11,79 120	1,36 88100	30,13 87700	4,59 294

MaxiLock-S – SCDC 45° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



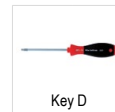
Left-hand

70 634 ...

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert	
SCDC L 0808 K06	8	8	125	13	4	1,2	CC.. 0602	
SCDC L 1010 M06	10	10	150	13	5	1,2	CC.. 0602	
SCDC L 1212 M09	12	12	150	18	6	3,2	CC.. 09T3	
SCDC L 1414 M09	14	14	150	18	7	3,2	CC.. 09T3	

EUR
2A/24

75,87 00800
80,94 01000
91,06 01200
91,06 01400



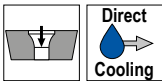
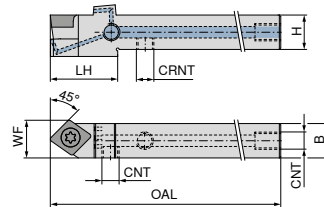
Key D



Clamping screw

80 950 ...EUR
Y7**70 950 ...**EUR
2A/28Spare parts
for Article no.

70 634 00800	T08 - IP	8,11	039	M2,5x6 - 08IP	5,38	857
70 634 01000	T08 - IP	8,11	039	M2,5x6 - 08IP	5,38	857
70 634 01200	T15 - IP	11,79	120	M3,5x11	4,82	87900
70 634 01400	T15 - IP	11,79	120	M3,5x11	4,82	87900

MaxiLock-S – SCDC 45° DC – Tool holder with screw clampingDirect
Cooling

Left-hand

70 767 ...

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	
SCDC L 0808 K06 DC	8	8	125	17	8,5	M5	M5	1,2	CC.. 0602	
SCDC L 1010 M06 DC	10	10	150	17	10,0	M6	M6	1,2	CC.. 0602	
SCDC L 1212 M09 DC	12	12	150	23	13,0	M6	M6	3,2	CC.. 09T3	
SCDC L 1414 M09 DC	14	14	150	25	14,0	G1/8"	M6	3,2	CC.. 09T3	

EUR
2A/24

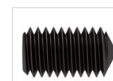
171,30 00801
171,30 01001
183,00 01201
183,00 01401



Cylindrical screw



Key D

Coolant screw
plug

Clamping screw



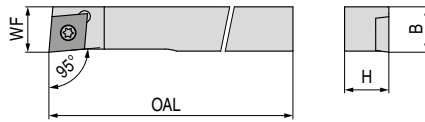
Grubscrew

83 950 ...EUR
Y7**80 950 ...**EUR
Y7**70 950 ...**EUR
2A/28**70 950 ...**EUR
2A/28**70 950 ...**EUR
2A/28Spare parts
for Article no.

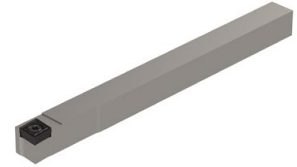
70 767 00801	2,39	157	8,11	039	2,99	13800	
70 767 01001			8,11	039	2,99	13800	3,84 86700
70 767 01201			11,79	120	4,14	113	3,84 86700
70 767 01401			11,79	120	4,14	113	3,84 86700

IsoClamp – SCLC 95° – Toolholder with screw clamping

▲ for sliding head lathes



Illustrations show right-hand versions

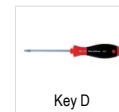


ISO designation	H mm	B mm	OAL mm	WF mm	Insert
SCLC R/L 0808 H06	8	8	100	8	CC.. 0602
SCLC R/L 1010 H06	10	10	100	10	CC.. 0602
SCLC R/L 1212 H09	12	12	100	12	CC.. 09T3

Left-hand		Right-hand	
72 353 ...		72 352 ...	
EUR		EUR	
X0		X0	
104,80	008	104,80	008
104,80	010	104,80	010
116,50	012	116,50	012

Spare parts for Article no.

72 352 008 / 72 353 008	T08	EUR 10,05	110	M2,5x6 - T08	EUR 2,99	13800
72 352 010 / 72 353 010	T08	EUR 10,05	110	M2,5x6 - T08	EUR 2,99	13800
72 352 012 / 72 353 012	T15	EUR 11,96	113	M3,5x11	EUR 4,14	113

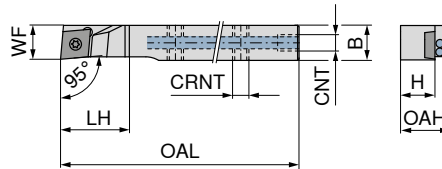
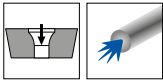


80 950 ...

70 950 ...

IsoClamp – SCLC 95° – Tool holder with thro' coolant

▲ for sliding head lathes



Illustrations show right-hand versions

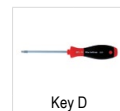


ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	Insert
SCLC R/L 0808 H06 IC	8	8	100	16	8	M5	M5	CC.. 0602
SCLC R/L 1010 H06 IC	10	10	100	16	10	M5	M5	CC.. 0602
SCLC R/L 1212 H09 IC	12	12	100	19	12	M5	M5	CC.. 09T3
SCLC R/L 1616 K09 IC	16	16	125	19	16	M5	M5	CC.. 09T3

Left-hand		Right-hand	
72 351 ...		72 350 ...	
EUR		EUR	
X0		X0	
313,70	008	313,70	008
262,20	010	262,20	010
294,70	012	294,70	012
285,10	016	285,10	016

Spare parts for Article no.

72 350 008 / 72 351 008	EUR 6,85	011	EUR 10,05	110	EUR 2,99	13800
72 350 010 / 72 351 010	EUR 6,85	011	EUR 10,05	110	EUR 2,99	13800
72 350 012 / 72 351 012	EUR 6,85	011	EUR 11,96	113	EUR 4,14	113
72 350 016 / 72 351 016	EUR 6,85	011	EUR 11,96	113	EUR 4,14	113



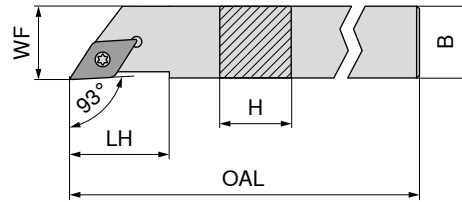
72 950 ...

80 950 ...

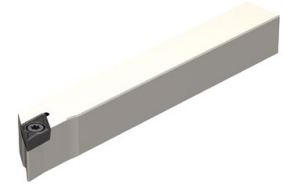
70 950 ...

MaxiLock-S – SDJC 93° – Toolholder with screw clamping

▲ for sliding head lathes



Illustrations show right-hand versions



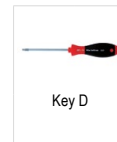
ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert
SDJC R/L 0808 H07	8	8	100	13,0	8	1,2	DC.. 0702
SDJC R/L 1010 H07	10	10	100	13,0	10	1,2	DC.. 0702
SDJC R/L 1212 H07	12	12	100	14,5	12	1,2	DC.. 0702
SDJC R/L 1616 K07	16	16	125	33,0	16	1,2	DC.. 0702
SDJC R/L 1212 H11	12	12	100	22,0	12	3,2	DC.. 11T3
SDJC R/L 1616 K11	16	16	125	33,0	16	3,2	DC.. 11T3
SDJC R/L 2020 K11	20	20	125		20		DC.. 11T3

Left-hand		Right-hand	
70 685 ...		70 684 ...	
EUR		EUR	
X0		X0	
99,20	108	99,20	108
99,20	110	99,20	110
111,40	112	111,40	112
123,20	116	123,20	116
111,40	212	111,40	212
123,20	216	123,20	216
142,00	220	142,00	220

Spare parts

Insert

DC.. 0702	T08	EUR	10,05	110	EUR	6,07	002
DC.. 11T3	T15	EUR	11,96	113	EUR	6,07	006



Key D



Clamping screw

80 950 ...

EUR

Y7

10,05 110

72 950 ...

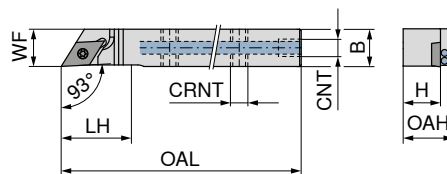
EUR

2A

6,07 002

IsoClamp – SDJC 93° – Tool holder with thro' coolant

▲ for sliding head lathes



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	Insert
SDJC L 0808 H07 IC	8	8	100	17	8	M5	M5	DC.. 0702
SDJC R/L 1010 H07 IC	10	10	100	17	10	M5	M5	DC.. 0702
SDJC R/L 1212 H07 IC	12	12	100	17	12	M5	M5	DC.. 0702
SDJC R/L 1616 K07 IC	16	16	125	17	16	G1/8"	M5	DC.. 0702
SDJC R/L 1010 H11 IC	10	10	100	22	10	M5	M5	DC.. 11T3
SDJC R/L 1212 H11 IC	12	12	100	22	12	M5	M5	DC.. 11T3
SDJC R/L 1616 K11 IC	16	16	125	22	16	G1/8"	M5	DC.. 11T3
SDJC R/L 2020 K11 IC	20	20	125	22	20	G1/8"	M5	DC.. 11T3

Left-hand		Right-hand	
72 357 ...		72 356 ...	
EUR		EUR	
X0		X0	
313,70	008	262,20	010
262,20	010	294,70	012
294,70	012	285,10	016
285,10	016	324,60	110
324,60	110	294,70	112
294,70	112	285,10	116
285,10	116	283,90	120
283,90	120		

Spare parts

Insert

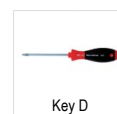
DC.. 0702	M5	EUR	6,85	011	EUR	10,05	110	EUR	6,07	002
DC.. 0702	G1/8"	EUR	21,72	010	EUR	6,85	011	EUR	6,07	002
DC.. 11T3	M5	EUR	6,85	011	EUR	11,96	113	EUR	6,07	006
DC.. 11T3	G1/8"	EUR	21,72	010	EUR	11,96	113	EUR	6,07	006



Cylindrical screw



Cylindrical screw



Key D



Clamping screw

72 950 ...

EUR

X0

6,85 011

21,72 010

72 950 ...

EUR

X0

6,85 011

6,85 011

80 950 ...

EUR

Y7

10,05 110

11,96 113

72 950 ...

EUR

2A

6,07 002

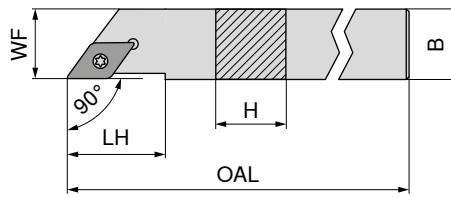
6,07 006

MaxiLock-S – SDAC 90° – Toolholder with screw clamping

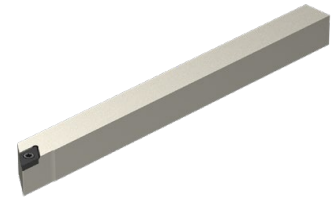
▲ for sliding head lathes

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	torque moment Nm	Insert	Left-hand 70 639 ...		Right-hand 70 639 ...	
								EUR 2A/24		EUR 2A/24	
SDAC R/L 0808 K07	8	8	125	14	8	1,2	DC.. 0702	80,94	00800	80,94	00801
SDAC R/L 1010 M07	10	10	150	14	10	1,2	DC.. 0702	80,94	01000	80,94	01001
SDAC R/L 1212 M07	12	12	150	14	12	1,2	DC.. 0702	91,06	01200	91,06	01201
SDAC R/L 1212 M11	12	12	150	21	12	3,2	DC.. 11T3	91,06	11200	91,06	11201
SDAC R/L 1414 M11	14	14	150	21	14	3,2	DC.. 11T3	91,06	01400	91,06	01401



Key D



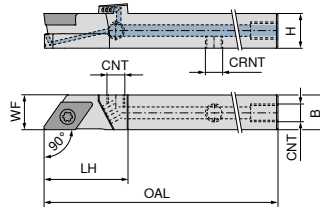
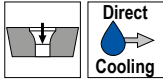
Clamping screw

**Spare parts
for Article no.**

		80 950 ...		70 950 ...	
		EUR Y7		EUR 2A/28	
70 639 00801 / 70 639 00800	T08 - IP	8,11	039	M2,5x6 - 08IP	5,38 857
70 639 01001 / 70 639 01000	T08 - IP	8,11	039	M2,5x6 - 08IP	5,38 857
70 639 01201 / 70 639 01200	T08 - IP	8,11	039	M2,5x6 - 08IP	5,38 857
70 639 11201 / 70 639 11200	T15 - IP	11,79	120	M3,5x11	4,82 87900
70 639 01401 / 70 639 01400	T15 - IP	11,79	120	M3,5x11	4,82 87900

MaxiLock-S – SDAC 90° DC – Tool holder with screw clamping

▲ for sliding head lathes



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	Left-hand 70 771 ...		Right-hand 70 771 ...	
										EUR 2A/24		EUR 2A/24	
SDAC R/L 0808 K07 DC	8	8	125	21	8	M5	M5	1,2	DC.. 0702	171,30	00801	171,30	00800
SDAC R/L 1010 M07 DC	10	10	150	21	10	M6	M6	1,2	DC.. 0702	171,30	01001	171,30	01000
SDAC R/L 1212 M07 DC	12	12	150	21	12	M6	M6	1,2	DC.. 0702	183,00	01201	183,00	01200
SDAC R/L 1212 M11 DC	12	12	150	29	12	M6	M6	3,2	DC.. 11T3	183,00	11201	183,00	11200

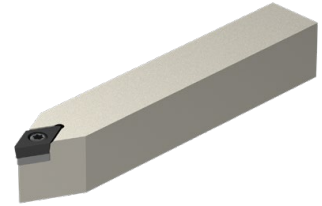
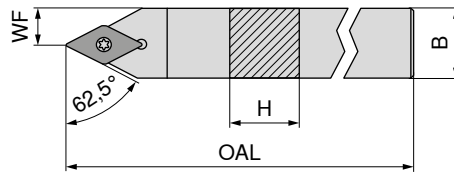
Spare parts for Article no.

	EUR Y7		EUR Y7		EUR 2A/28		EUR 2A/28	
70 771 00800 / 70 771 00801	2,39	157	8,11	039	2,99	13800	3,84	86700
70 771 01000 / 70 771 01001			8,11	039	2,99	13800	3,84	86700
70 771 01200 / 70 771 01201			8,11	039	2,99	13800	3,84	86700
70 771 11200 / 70 771 11201			11,79	120	4,14	113	3,84	86700

Cylindrical screw	Key D	Clamping screw	Grubscrew
83 950 ...	80 950 ...	70 950 ...	70 950 ...
EUR Y7	EUR Y7	EUR 2A/28	EUR 2A/28
2,39	8,11	2,99	3,84
157	039	13800	86700
	039	13800	86700
	120	113	86700

MaxiLock-S – SDNC 62.5° – Toolholder with screw clamping**Scope of supply:**

Tool holder with Torx key



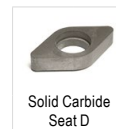
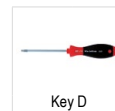
Neutral

70 645 ...

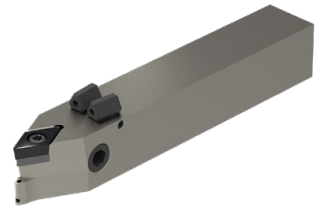
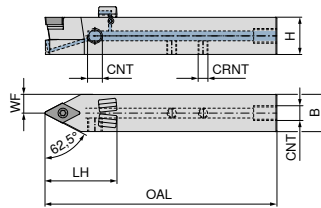
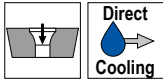
ISO designation	H mm	B mm	OAL mm	WF mm	torque moment Nm	Insert	EUR 2A/24	
SDNC N 0808 K07	8	8	125	4,0	1,2	DC.. 0702	75,87	00800
SDNC N 1010 M07	10	10	150	5,0	1,2	DC.. 0702	80,94	11000
SDNC N 1010 E07	10	10	70	5,0	1,2	DC.. 0702	80,94	01000
SDNC N 1212 F07	12	12	80	6,0	1,2	DC.. 0702	80,94	01200
SDNC N 1212 M07	12	12	150	6,0	1,2	DC.. 0702	91,06	11200
SDNC N 1212 M11	12	12	150	6,0	3,2	DC.. 11T3	91,06	21200
SDNC N 1616 H11	16	16	100	8,0	3,2	DC.. 11T3	101,20	01600
SDNC N 2020 K11	20	20	125	10,0	3,2	DC.. 11T3	107,20	02000
SDNC N 2525 M11	25	25	150	12,5	3,2	DC.. 11T3	111,30	02500

**Spare parts
for Article no.**

	80 950 ...		70 950 ...		70 950 ...		70 950 ...	
	EUR		EUR		EUR		EUR	
	Y7		2A/28		2A/28		2A/28	
70 645 00800	8,11	039	5,38	857				
70 645 11000	8,11	039	5,38	857				
70 645 01000	8,11	039	5,38	857				
70 645 01200	8,11	039	5,38	857				
70 645 11200	8,11	039	5,38	857				
70 645 21200	11,79	120	4,82	87900				
70 645 01600	11,79	120	4,82	87900	9,66	106	5,98	171
70 645 02000	11,79	120	4,82	87900	9,66	106	5,98	171
70 645 02500	11,79	120	4,82	87900	9,66	106	5,98	171



MaxiLock-S – SDNC 62.5° DC – Tool holder with screw clamping



Neutral

70 774 ...

ISO designation	H mm	B mm	OAL mm	WF mm	CNT	CRNT	torque moment Nm	Insert	EUR 2A/24	
SDNC N 1212 F07 DC	12	12	80	6,0	M6	M6	1,2	DC.. 0702	171,30	01200
SDNC N 1212 M07 DC	12	12	150	6,0	M6	M6	1,2	DC.. 0702	183,00	11200
SDNC N 1212 M11 DC	12	12	150	6,0	M6	M6	3,2	DC.. 11T3	183,00	21200
SDNC N 1616 H11 DC	16	16	100	8,0	G1/8"	M6	3,2	DC.. 11T3	190,30	01600
SDNC N 2020 K11 DC	20	20	125	10,0	G1/8"	M6	3,2	DC.. 11T3	201,70	02000
SDNC N 2525 M11 DC	25	25	150	12,5	G1/8"	M6	3,2	DC.. 11T3	209,40	02500

Spare parts for Article no.

	EUR 2A/28		EUR 2A/28		EUR 2A/28		EUR 2A/28		EUR 2A/28
70 774 01200	5,38	857					3,84	86700	
70 774 11200	5,38	857					3,84	86700	
70 774 21200	4,14	859					3,84	86700	
70 774 01600	4,82	87900	9,66	106	2,19	88000	3,84	86700	5,98 171
70 774 02000	4,82	87900	9,66	106	2,19	88000	3,84	86700	5,98 171
70 774 02500	4,82	87900	9,66	106	2,19	88000	3,84	86700	5,98 171

Spare parts for Article no.

	EUR 2A/28		EUR Y7		EUR 2A/28		EUR 2A/28		EUR 2A/28
70 774 01200			8,11	039					
70 774 11200			8,11	039					
70 774 21200			11,79	120					
70 774 01600	1,53	87600	11,79	120	1,36	88100	30,13	87700	4,59 294
70 774 02000	1,53	87600	11,79	120	1,36	88100	30,13	87700	4,59 294
70 774 02500	1,53	87600	11,79	120	1,36	88100	30,13	87700	4,59 294



Clamping screw

70 950 ...

EUR
2A/28Solid Carbide
Seat D

70 950 ...

EUR
2A/28

Grubscrew

70 950 ...

EUR
2A/28

Grubscrew

70 950 ...

EUR
2A/28

Threaded sleeve

70 950 ...

EUR
2A/28

Sealing plugs DC

70 950 ...

EUR
2A/28

Key D

80 950 ...

EUR
Y7

O-Ring

70 950 ...

EUR
2A/28Coolant nozzle
DC

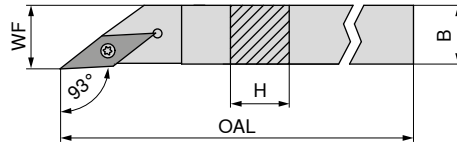
70 950 ...

EUR
2A/28Coolant screw
plug

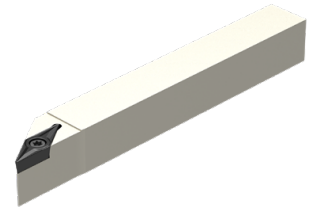
70 950 ...

EUR
2A/28

MaxiLock-S – SVJC 93° – Toolholder with screw clamping



Illustrations show right-hand versions



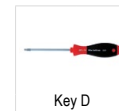
ISO designation	H mm	B mm	OAL mm	WF mm	torque moment Nm	Insert
SVJC R/L 0808 H11	8	8	100	8	1,2	VC.. 1103
SVJC R/L 1010 H11	10	10	100	10	1,2	VC.. 1103
SVJC R/L 1212 H11	12	12	100	12	1,2	VC.. 1103
SVJC R/L 1616 K11	16	16	125	16	1,2	VC.. 1103

Left-hand		Right-hand	
70 697 ...		70 696 ...	
EUR		EUR	
X0		X0	
106,90	008	106,90	008
106,90	010	106,90	010
123,00	112	123,00	112
134,00	116	134,00	116

Spare parts

Insert

VC.. 1103



Key D



Clamping screw

80 950 ...

EUR
Y7
10,05 110

70 950 ...

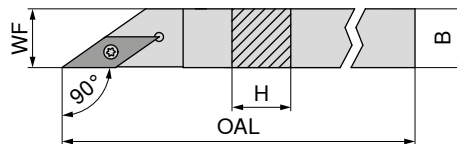
EUR
2A/28
2,99 13800

MaxiLock-S – SVAC 90° – Toolholder with screw clamping

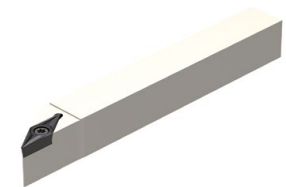
▲ for sliding head lathes

Scope of supply:

Tool holder with Torx key

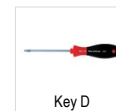


Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	WF mm	torque moment Nm	Insert
SVAC R/L 0808 H11	8	8	100	8	1,2	VC.. 1103
SVAC R/L 1010 H11	10	10	100	10	1,2	VC.. 1103
SVAC R/L 1212 H11	12	12	100	12	1,2	VC.. 1103

Left-hand		Right-hand	
70 695 ...		70 694 ...	
EUR		EUR	
X0		X0	
106,90	008	106,90	008
106,90	010	106,90	010
123,00	012	123,00	012



Key D



Clamping screw

80 950 ...

EUR
Y7
10,05 110

70 950 ...

EUR
2A/28
2,99 13800

Spare parts

for Article no.

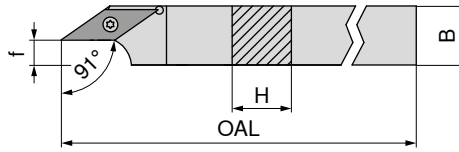
70 694 008 / 70 695 008	T08	10,05	110	M2,5x6 - T08	2,99	13800
70 694 010 / 70 695 010	T08	10,05	110	M2,5x6 - T08	2,99	13800
70 694 012 / 70 695 012	T08	10,05	110	M2,5x6 - T08	2,99	13800

MaxiLock-S – SVXC 91° – Toolholder with screw clamping

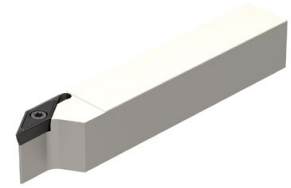
▲ for sliding head lathes

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	torque moment Nm	Insert	Left-hand		Right-hand	
						70 691 ...		70 690 ...	
SVXC R/L 1010 H11	10	10	100	1,2	VC.. 1103	EUR X0		EUR X0	
SVXC R/L 1212 H11	12	12	100	1,2	VC.. 1103	106,90	010	106,90	010
SVXC R/L 1616 K11	16	16	125	1,2	VC.. 1103	123,00	012	123,00	012
						134,00	016	134,00	016

**Spare parts
for Article no.**

Spare parts for Article no.			80 950 ...		70 950 ...	
			EUR Y7		EUR 2A/28	
70 691 010 / 70 690 010	T08	10,05	110	M2,5x6 - T08	2,99	13800
70 691 012 / 70 690 012	T08	10,05	110	M2,5x6 - T08	2,99	13800
70 691 016 / 70 690 016	T08	10,05	110	M2,5x6 - T08	2,99	13800



Key D



Clamping screw

Toolfinder – TriClamp

▲ Indexable inserts with ground wiper geometry
Improves surface quality or increases feed rate

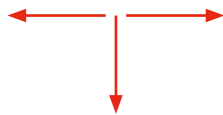
▲ Turning in all three contour directions
Maximum flexibility without changing the tool

▲ Smallest corner radii 0.0–0.2 mm
Generates sharp edges

▲ Perfect chip control
Reduces downtime

▲ High cutting depths can be achieved
Reduces the retraction distance

Application directions



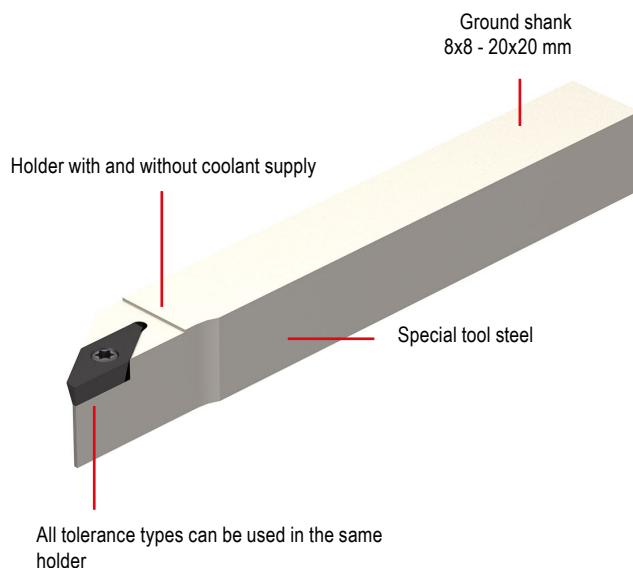
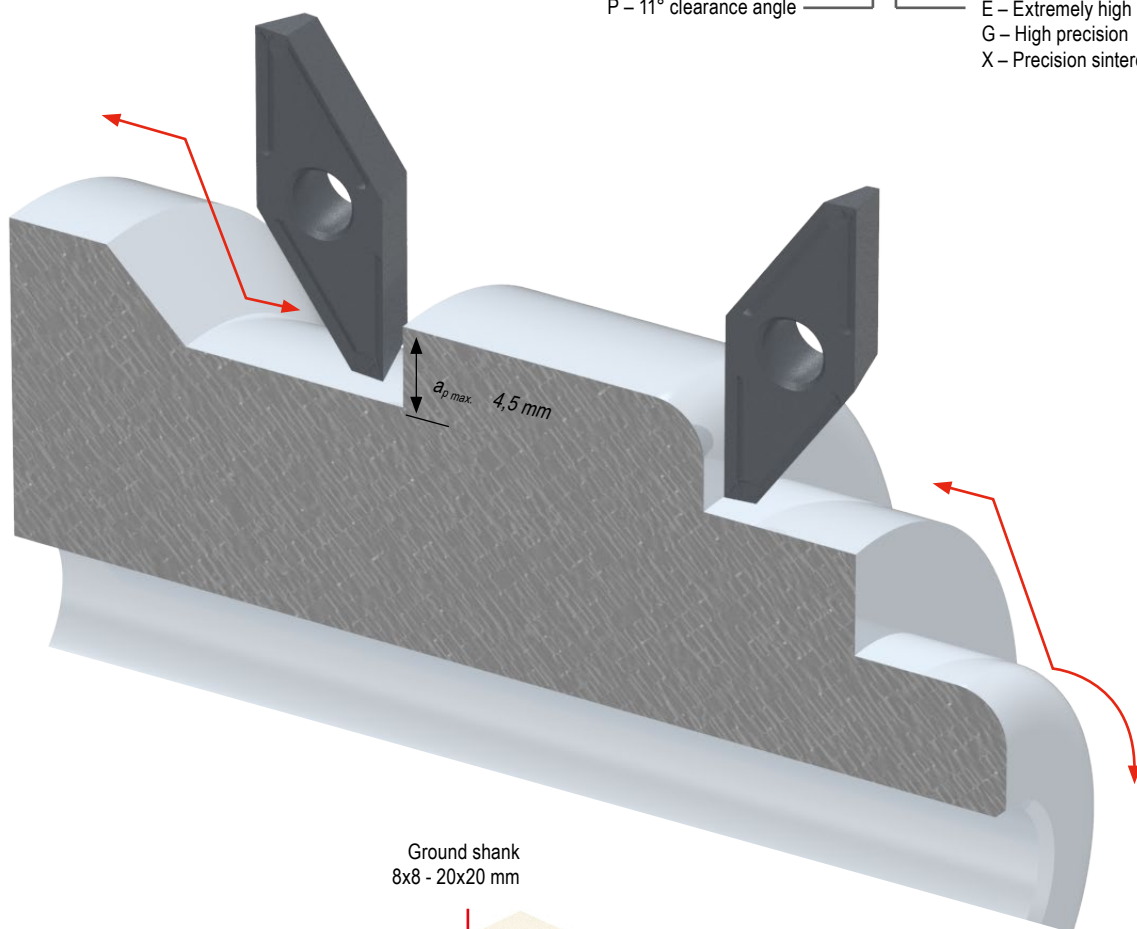
TriClamp system

VPET	→ Page 19
VPGT	→ Page 19
VPXT	→ Page 19

Precision ↑

P – 11° clearance angle

E – Extremely high precision
G – High precision
X – Precision sintered

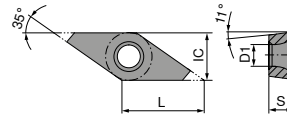


Tool holder

90°	→ Page 21
91°	→ Page 22
93°	→ Page 21–23

VPGT / VPET / VPXT

Designation	L mm	S mm	D1 mm	IC mm
VP.T 1003..	10	3,18	4,4	6,35



VPGT

ISO	RE mm	-FL WPU7610		-FR WPU7610		-FL TiAIN+		-FR TiAIN+		-FL WUU7620		-FR WUU7620	
		F		F		F		F		F		F	
		VPGT		VPGT		VPGT		VPGT		VPGT		VPGT	
		72 405 ...		72 404 ...		72 493 ...		72 492 ...		72 493 ...		72 492 ...	
		EUR		EUR		EUR		EUR		EUR		EUR	
		X1		X1		X1		X1		X1		X1	
1003ZZ	0,00	25,58	760 ²⁾	25,58	760 ¹⁾	25,28	500 ²⁾	25,28	500 ¹⁾	21,43	70000 ²⁾	21,43	70000 ¹⁾
1003008	0,08	25,58	728 ²⁾	25,58	728 ¹⁾	25,28	508 ²⁾	25,28	508 ¹⁾	21,43	70800 ²⁾	21,43	70800 ¹⁾
1003015	0,15	25,58	735 ²⁾	25,58	735 ¹⁾	25,86	515 ²⁾	25,86	515 ¹⁾	21,43	71500 ²⁾	21,43	71500 ¹⁾
P		●		●		●		●		●		●	
M		●		●		●		●		●		●	
K		○		○		○		○		○		○	
N		●		●		○		○		○		○	
S		●		●		●		●		○		○	
H													
O		○		○		○		○		○		○	

1) Note ! Right hand insert for right hand holder

2) Note ! Left hand insert for left hand holder

VPET

ISO	RE mm	-FL WUU7610		-FR WUU7610		-FL WPU7610		-FR WPU7610		-FL WPU7620		-FR WPU7620	
		F		F		F		F		F		F	
		VPET		VPET		VPET		VPET		VPET		VPET	
		72 403 ...		72 402 ...		72 403 ...		72 402 ...		72 403 ...		72 402 ...	
		EUR		EUR		EUR		EUR		EUR		EUR	
		X1		X1		X1		X1		X1		X1	
1003ZZ	0,00	24,71	060 ²⁾	24,71	060 ¹⁾	28,69	760 ²⁾	28,69	760 ¹⁾	28,69	560 ²⁾	28,69	560 ¹⁾
1003008	0,08	24,71	028 ²⁾	24,71	028 ¹⁾	28,69	728 ²⁾	28,69	728 ¹⁾	28,69	528 ²⁾	28,69	528 ¹⁾
1003015	0,15	24,71	035 ²⁾	24,71	035 ¹⁾	28,69	735 ²⁾	28,69	735 ¹⁾	28,69	535 ²⁾	28,69	535 ¹⁾
P		○		○		●		●		●		●	
M		○		○		●		●		●		●	
K						○		○		○		○	
N		●		●		●		●		○		○	
S		○		○		●		●		●		●	
H													
O		●		●		○		○		○		○	

1) Note ! Right hand insert for right hand holder

2) Note ! Left hand insert for left hand holder

VPXT

-EL
TiAlN+





F
VPXT

72 493 ...

EUR
X1

18,48 615 2)

18,48 635 2)

-ER
TiAlN+





F
VPXT

72 492 ...

EUR
X1

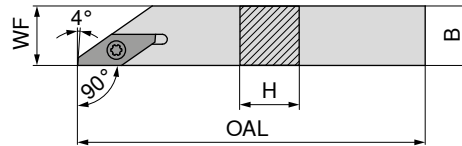
18,48 615 1)

18,48 635 1)

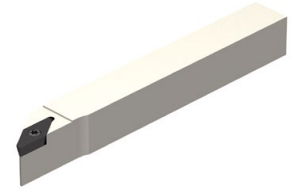
ISO	RE mm			
1003015	0,15			
1003035	0,35			
P		●	●	
M		●	●	
K		○	○	
N		○	○	
S		●	●	
H				
O		○	○	

1) Note ! Right hand insert for right hand holder
2) Note ! Left hand insert for left hand holder

TriClamp – SVAP 90° – Toolholder with screw clamping



Illustrations show right-hand versions

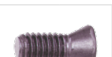


ISO designation	H mm	B mm	OAL mm	WF mm	Insert
SVAP R/L 0808 H10	8	8	100	8	VP.. 1003
SVAP R/L 1010 H10	10	10	100	10	VP.. 1003
SVAP R/L 1212 H10	12	12	100	12	VP.. 1003

Left-hand		Right-hand	
72 382 ...		72 380 ...	
EUR		EUR	
X0		X0	
109,00	008	109,00	008
109,00	010	109,00	010
125,40	012	125,40	012



Key D



Clamping screw

Spare parts

Insert

VP.. 1003

T08

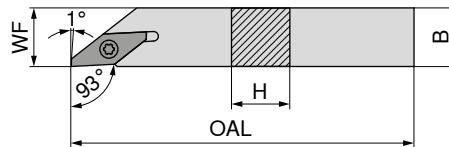
80 950 ...

EUR
Y7
10,05 110

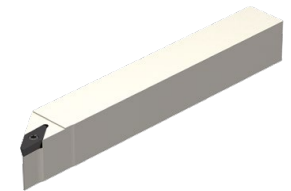
72 950 ...

EUR
2A
6,07 002

TriClamp – SVJP 93° – Toolholder with screw clamping



Illustrations show right-hand versions

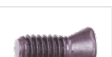


ISO designation	H mm	B mm	OAL mm	WF mm	Insert
SVJP R/L 0808 H10	8	8	100	8	VP.. 1003
SVJP R/L 1010 H10	10	10	100	10	VP.. 1003
SVJP R/L 1212 H10	12	12	100	12	VP.. 1003
SVJP R/L 1616 K10	16	16	125	16	VP.. 1003

Left-hand		Right-hand	
72 386 ...		72 384 ...	
EUR		EUR	
X0		X0	
109,00	008	109,00	008
109,00	010	109,00	010
125,40	012	125,40	012
136,60	016	136,60	016



Key D



Clamping screw

Spare parts

Insert

VP.. 1003

T08

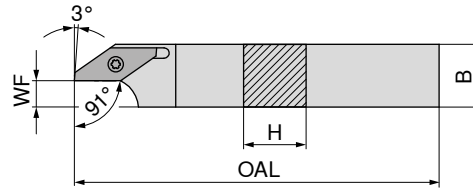
80 950 ...

EUR
Y7
10,05 110

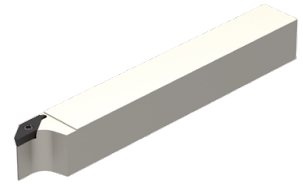
72 950 ...

EUR
2A
6,07 002

TriClamp – SVXP 91° – Toolholder with screw clamping



Illustrations show right-hand versions



ISO designation	B mm	H mm	OAL mm	Insert	Left-hand		Right-hand	
					72 390 ...		72 388 ...	
SVXP R/L 0808 H10	8	8	100	VP.. 1003	EUR X0		EUR X0	
SVXP R/L 1010 H10	10	10	100	VP.. 1003	109,00	008	109,00	008
SVXP R/L 1212 H10	12	12	100	VP.. 1003	109,00	010	109,00	010
SVXP R/L 1616 K10	16	16	125	VP.. 1003	125,40	012	125,40	012
					136,60	016	136,60	016

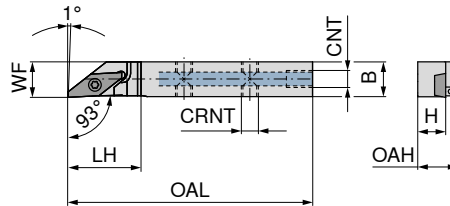
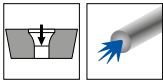
Spare parts

Insert

VP.. 1003

Left-hand		Right-hand	
80 950 ...		72 950 ...	
EUR		EUR	
Y7		2A	
10,05	110	6,07	002

TriClamp – SVJP 93°-IC – Tool holder with screw clamping and thro' coolant



Illustrations show right-hand versions



ISO designation	H mm	B mm	LH mm	WF mm	OAL mm	OAH mm	CRNT	CNT	Insert	Left-hand		Right-hand	
										72 361 ...		72 360 ...	
SVJP R/L 0810 H10 IC	8	10	21	10	100	11,5	M5	M5	VP.. 1003	EUR X0		EUR X0	
SVJP R/L 1010 H10 IC	10	10	21	10	100	13,5	M5	M5	VP.. 1003	336,60	008	336,60	008
SVJP R/L 1212 H10 IC	12	12	21	12	100	15,5	M5	M5	VP.. 1003	281,40	010	281,40	010
SVJP R/L 1616 K10 IC	16	16	21	16	125	19,5	M5	G1/8"	VP.. 1003	324,60	012	324,60	012
SVJP R/L 2020 K10 IC	20	20	21	20	125	23,5	M5	G1/8"	VP.. 1003	312,30	016	312,30	016
										325,80	020	325,80	020

Spare parts for Article no.

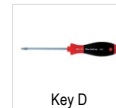
Left-hand		Right-hand	
72 950 ...		72 950 ...	
EUR		EUR	
X0		X0	
6,85	011	6,85	011
6,85	011	6,85	011
6,85	011	6,85	011
21,72	010	21,72	010
21,72	010	21,72	010



Cylindrical screw



Cylindrical screw

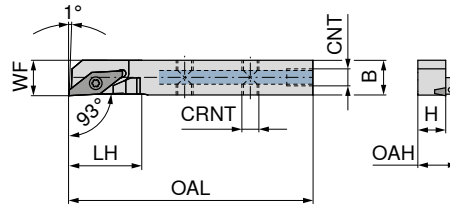
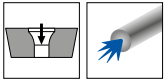


Key D



Clamping screw

TriClamp – SVJP 93°-VIC – Reinforced tool holder with screw clamping and thro' coolant



Illustrations show right-hand versions



ISO designation	H mm	B mm	LH mm	WF mm	OAL mm	OAH mm	CRNT	CNT	Insert
SVJP R/L 0810 H10 VIC	8	10	21	10	100	11,5	M5	M5	VP.. 1003
SVJP R/L 1010 H10 VIC	10	10	21	10	100	13,5	M5	M5	VP.. 1003
SVJP R/L 1212 H10 VIC	12	12	21	12	100	15,5	M5	M5	VP.. 1003

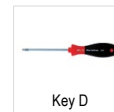
Left-hand	Right-hand
72 363 ...	72 362 ...
EUR X0	EUR X0
336,60 008	336,60 008
281,40 010	281,40 010
324,60 012	324,60 012

Spare parts

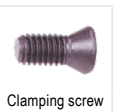
Insert	VP.. 1003	M5x4	6,85 011	T08	80 950 ...	EUR Y7	10,05 110	72 950 ...	EUR 2A	6,07 002
--------	-----------	------	----------	-----	------------	--------	-----------	------------	--------	----------



Cylindrical screw

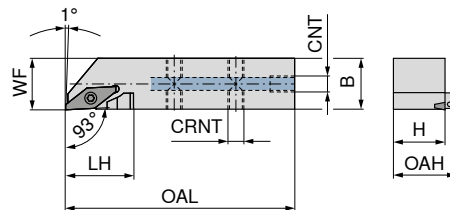
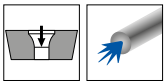


Key D



Clamping screw

TriClamp – SVJP 93°-VIC – Reinforced tool holder with screw clamping and thro' coolant



Illustrations show right-hand versions



ISO designation	H mm	B mm	LH mm	WF mm	OAL mm	OAH mm	CRNT	CNT	Insert
SVJP R/L 1616 K10 VIC	16	16	21	16	125	19,5	M5	G1/8"	VP.. 1003
SVJP R/L 2020 K10 VIC	20	20	21	20	125	23,5	M5	G1/8"	VP.. 1003

Left-hand	Right-hand
72 365 ...	72 364 ...
EUR X0	EUR X0
312,30 016	312,30 016
325,80 020	325,80 020

Spare parts

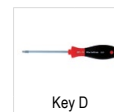
Insert	VP.. 1003	G1/8"	21,72 010	M5x4	6,85 011	T08	80 950 ...	EUR Y7	10,05 110	72 950 ...	EUR 2A	6,07 002
--------	-----------	-------	-----------	------	----------	-----	------------	--------	-----------	------------	--------	----------



Cylindrical screw



Cylindrical screw



Key D



Clamping screw

1 Suitable accessories can be found on → Page 93+94

Reverse-side machining – highlights

▲ Speed

Ultra-fast tool change by tightening / loosening just one bolt

▲ Flexibility

Flexible on all machines

Base holders are installed in the same way on all machines and remain in the machines

▲ Precision

Most accurate height adjustment possible

▲ Set-up time optimisation

Presetting via an adjustment screw directly in the machine or externally in the presetting device

▲ Cooling

Optional coolant overpressure by attaching a coolant attachment

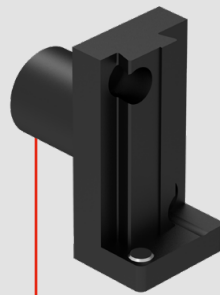
Reverse-side machining – Toolfinder

Modular tools



Distance plates

→ Page 30



CITIZEN

→ Page 26

DOOSAN

→ Page 26

HANWHA

→ Page 27

MAIER

→ Page 27

STAR

→ Page 28

TORNOS

→ Page 28

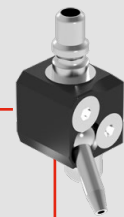
CITIZEN / GILDEMEISTER / HANWHA /
TORNOS / TSUGAMI

→ Page 29

TORNOS / TSUGAMI

→ Page 29

Accessories



Coolant insert

→ Page 62

Turning Holder

CC / DC / VC → Page 31–33

Thread turning holder

→ Page 34

Grooving tool holder

TX → Page 35

Drills and boring bars

→ Page 36

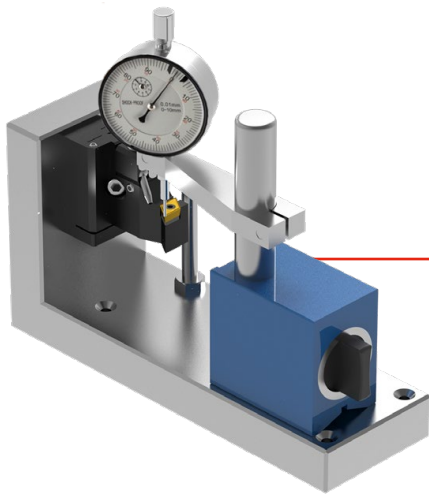
Cutting inserts

→ Page 37+38

Collet Chuck

→ Page 39

Setting Device



Using the adjustment device, you can set our modular holder to the right height outside the machine, which is a plus in terms of flexibility and time.

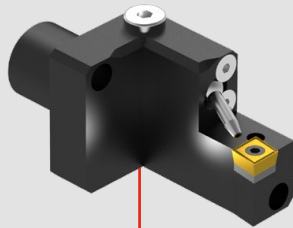
Setting Device

→ Page 65

Detailed information on using the adjustment device

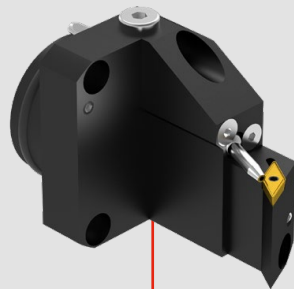
→ Page 98+99

Monoblock tools



STAR

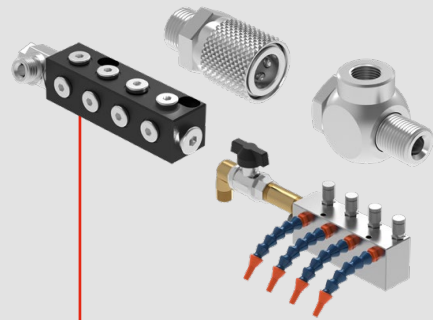
- Turning Holder
CC / DC / VC → Page 40–44
- Thread turning holder
→ Page 45
- Grooving tool holder
TX → Page 46
- Drills and boring bars
→ Page 58
- Cutting inserts
→ Page 60



TSUGAMI

- Turning Holder
CC / DC / VC → Page 47–55
- Thread turning holder
→ Page 56
- Grooving tool holder
TX → Page 57
- Drills and boring bars
→ Page 59
- Cutting inserts
→ Page 61

Accessories



Coolant manifold

→ Page 62+63

Coolant nozzles

→ Page 63

Screw plug

→ Page 63

Coolant connection

→ Page 63+64

Threaded adapter

→ Page 64

Coolant hoses

→ Page 64

Coupler connector

→ Page 64

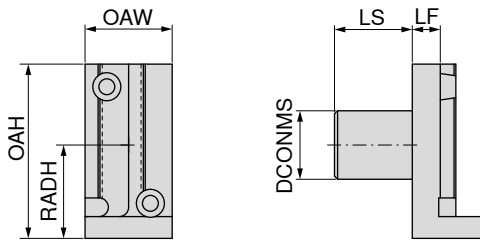
Quick-coupler

→ Page 64

Protection plug

→ Page 64

Machine base holder for CITIZEN



Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm	
CI.GH 3/4"-40	19,05	28	56	9	40	30	
CI.GH 25-30	25,00	28	56	9	30	30	
CI.GH 1"-60	25,40	28	56	9	60	30	
CI.GH 31-15	31,00	34	58	9	15	32	

72 951 ...

EUR
X0

159,50 07004

159,50 07002

159,50 07003

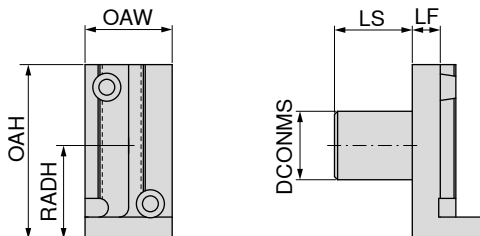
159,50 07001

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 951 07001	Citizen	A32-VII with drive
72 951 07002	Citizen	L12 / A20 / CL20 with drive
72 951 07003	Citizen	A20 / A32 / C32 / L32 / M32 without drive
72 951 07004	Citizen	C16 / L12 / L20 / M16

Machine base holder for DOOSAN

▲ for DOOSAN Puma ST20G



Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm	
DO.GH 32-25	32	34	56	9	25	30	

72 952 ...

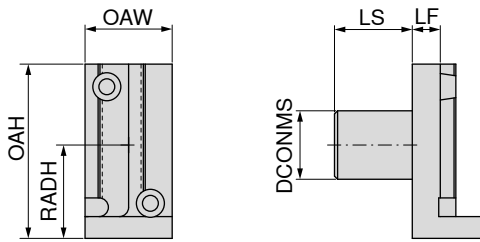
EUR
X0

159,50 07001

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 952 07001	Doosan	Puma ST20G

Machine base holder for HANWHA



Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm
HA.GH 25-40	25	28	56	9	40	30
HA.GH 32-27	32	38	56	34	27	30
HA.GH 33-40	33	28	56	9	40	30

72 953 ...

EUR
X0

159,50 07003

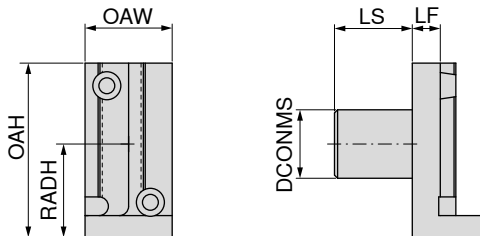
159,50 07002

159,50 07001

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 953 07001	Hanwha	XD20 / 26 / 32 / 38
72 953 07002	Hanwha	XD38H
72 953 07003	Hanwha	XE26

Machine base holder for MAIER



Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm
MA.GH 34-20	34	38	56	9	20	30

72 954 ...

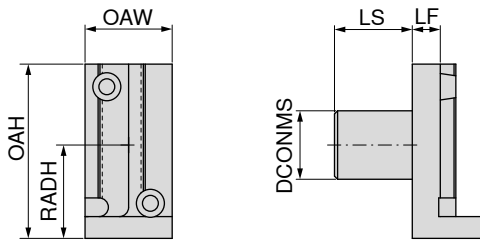
EUR
X0

159,50 07001

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 954 07001	Maier	ML26 / ML32 / ML12C / ML16C / ML16D / ML20

Machine base holder for STAR

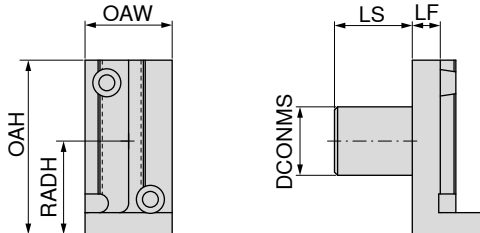


Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm	72 955 ...
ST.GH 22-20	22	38	56	9	20	30	EUR X0 159,50 07001
ST.GH 22-25	22	28	56	9	25	30	EUR X0 159,50 07002

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 955 07001	Star	SR32 / SR32J / SR32JN (from mach. no 161)
72 955 07002	Star	ECAS12 / ECAS20 / SR20RIII / SR20N / SR20JN / SR32J / SR10J / SR16R / SR20R / SR20RII

Machine base holder for TORNOS

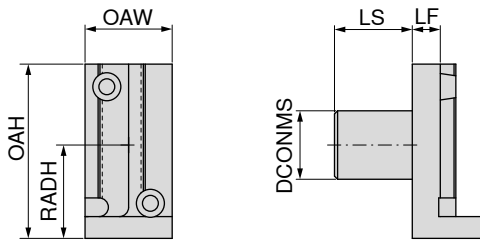


Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm	72 956 ...
TO.GH 20-100	20	28	56	9	100	30	EUR X0 159,50 07002
TO.GH 25-100	25	28	56	9	100	30	EUR X0 159,50 07001

Machine type assignment

Article no.	Machine manufacturer	Machine type
72 956 07001	Tornos	Deco 7 / 10 / 13 / 20 (Ø25)
72 956 07002	Tornos	Deco 7 / 10 / 13 / 20 (Ø20)

Machine base holder for CITIZEN / GILDEMEISTER / HANWHA / TORNOS / TSUGAMI



72 958 ...

EUR
X0

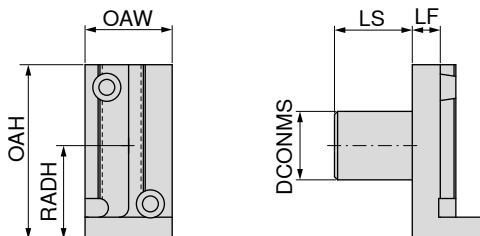
159,50 07001

Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm
CI/GI/HA/TO/TS.GH 20-40	20	28	56	9	40	30

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 958 07001	Citizen	K16
	Gildemeister	Sprint 20
	Hanwha	SL 12H
	Tornos	Delta 20 / Gamma 20
	Tsugami	BO 125 / 205

Machine base holder for TORNOS / TSUGAMI



72 958 ...

EUR
X0

159,50 07002

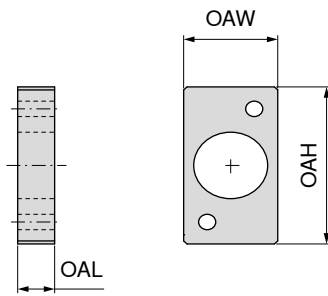
Designation	DCONMS mm	OAW mm	OAH mm	LF mm	LS mm	RADH mm
TO/TS.GH 32-50	32	28	56	9	50	30

suitable for the following machines:

Article no.	Machine manufacturer	Machine type
72 958 07001	Tornos	Delta 385 without drive
	Tsugami	BO 385 / BH 38

Distance plate

▲ flexible adjustment of the projection length



Designation	OAW mm	OAH mm	OAL mm	Base holder
CI.DP-GH1"-60-11	28	52	11	CI.GH1"-60
CI.DP-GH25-30-11	28	52	11	CI.GH25-30
CI.DP-GH3/4"-40-11	28	52	11	CI.GH3/4"-40

72 951 ...

EUR

X0

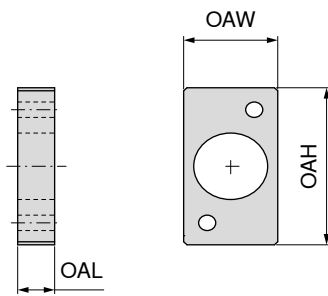
46,95 04006

46,95 04005

46,95 04007

Distance plate

▲ flexible adjustment of the projection length



Designation	OAW mm	OAH mm	OAL mm	Base holder
HA.DP-GH33-40-11	35	52	11	HA.GH33-40

72 953 ...

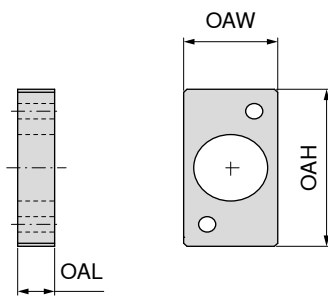
EUR

X0

46,95 04004

Distance plate

▲ flexible adjustment of the projection length



Designation	OAW mm	OAH mm	OAL mm	Base holder
ST.DP-GH22-25-11	28	52	11	ST.GH22-25

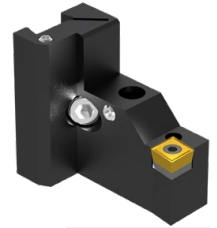
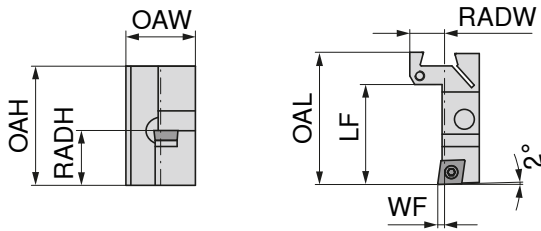
72 955 ...

EUR

X0

46,95 04003

Tool holder block with screw clamping for CC.. Indexable inserts



72 981 ...

EUR

X0

185,00 08001

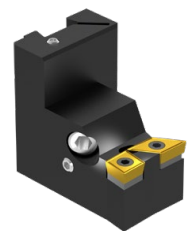
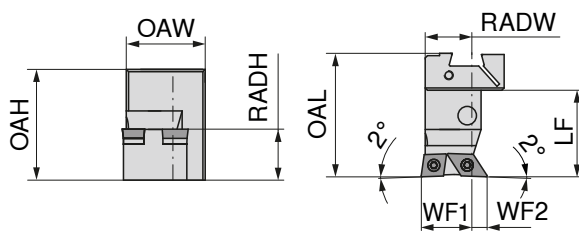
Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-CC09-R	28	48	41	14	22	2,5	54	CC.. 09T3

			
Key D	Clamping screw	Carbide type C	Threaded sleeve
80 950 ...	70 950 ...	70 950 ...	70 950 ...
EUR Y7	EUR 2A/28	EUR 2A/28	EUR 2A/28
11,96 113	4,14 113	12,46 165	5,98 171

Spare parts
for Article no.
72 981 08001

 Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Tool holder block (double) with screw clamping for CC.. / DC.. Indexable inserts



double

72 981 ...

EUR

X0

312,60 08011

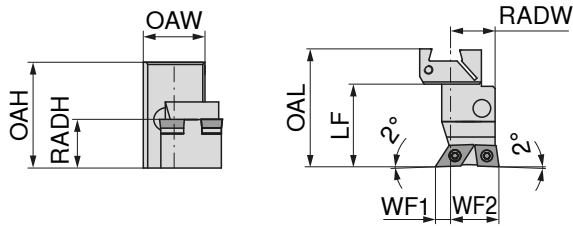
Designation	OAH mm	LF mm	RADW mm	RADH mm	OAL mm	WF_1 mm	WF_2 mm	Insert
MU.AH-CC09-L-DC11-R	48	38	20	22	54	22	7	CC.. 09T3 / DC.. 11T3

Spare parts
for Article no.
72 981 08011

					
Key D	Combination Key	Clamping screw	Solid Carbide Seat D	Carbide type C	Threaded sleeve
80 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
EUR Y7	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28
11,96 113	10,66 398	4,14 113	9,66 106	12,46 165	5,98 171

 Suitable CC.. Indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.
Suitable DC.. Indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Tool holder block (double) with screw clamping for CC.. / DC.. Indexable inserts



double

72 981 ...

EUR

X0

312,60 08010

Designation	OAH mm	LF mm	RADW mm	RADH mm	OAL mm	WF_1 mm	WF_2 mm	Insert
MU.AH-CC09-R-DC11-L	48	38	20	22	54	22	7	CC.. 09T3 / DC.. 11T3

Spare parts
for Article no.

72 981 08010

Key D

80 950 ...

EUR Y7

11,96 113

Combination Key

70 950 ...

EUR 2A/28

10,66 398

Clamping screw

70 950 ...

EUR 2A/28

4,14 113

Solid Carbide
Seat D

70 950 ...

EUR 2A/28

9,66 106

Carbide type C

70 950 ...

EUR 2A/28

12,46 165

Threaded sleeve

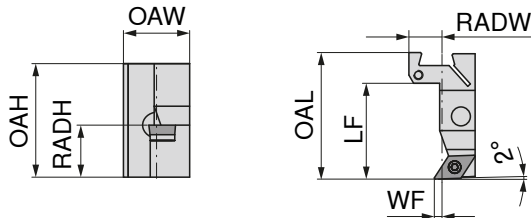
70 950 ...

EUR 2A/28

5,98 171

Suitable CC.. Indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.
Suitable DC.. Indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Tool holder block with screw clamping for DC.. Indexable inserts



72 981 ...

EUR

X0

185,00 08002

185,00 08003

Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-DC07-R	28	48	41	14	22	3,0	54	DC.. 0702
MU.AH-DC11-R	28	48	41	14	22	3,5	54	DC.. 11T3

Spare parts
for Article no.

72 981 08002

72 981 08003

Key D

80 950 ...

EUR Y7

10,05 110

Combination Key

70 950 ...

EUR 2A/28

10,66 398

Clamping screw

70 950 ...

EUR 2A/28

2,99 13800

4,14 113

Solid Carbide
Seat D

70 950 ...

EUR 2A/28

9,66 106

Threaded sleeve

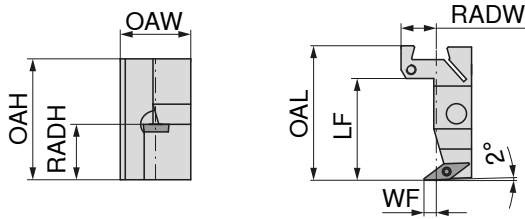
70 950 ...

EUR 2A/28

5,98 171

Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Tool holder block with screw clamping for VC.. Indexable inserts



72 981 ...

Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-VC11-R	28	48	41	14	22	5,0	54	VC.. 1103
MU.AH-VC16-R	28	48	41	14	22	14,5	54	VC.. 1604

EUR

X0

185,00 08004

185,00 08005

Spare parts
for Article no.

72 981 08004

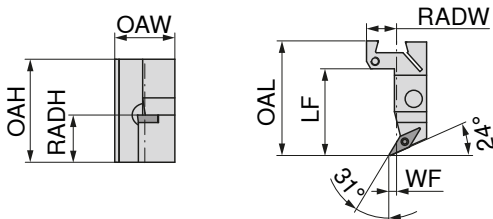
72 981 08005

				
Key D	Combination Key	Clamping screw	Solid Carbide Seat V	Threaded sleeve
80 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
EUR Y7	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28
10,05 110	10,66 398	2,99 13800	12,97 107	5,98 171



(VC.. 1103) Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.
 (VC.. 1604) Suitable indexable inserts can be found in our OnlineShop.

Tool holder block with screw clamping for VC.. Indexable inserts



72 981 ...

Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-VC11-24-R	28	48	41	14	22	3	54	VC.. 1103

EUR

X0

185,00 08006

Spare parts
for Article no.

72 981 08006

	
Key D	Clamping screw
80 950 ...	70 950 ...
EUR Y7	EUR 2A/28
10,05 110	2,99 13800

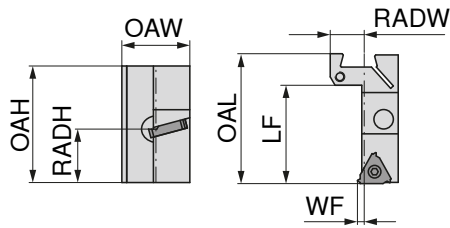


Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Tool holders for right external thread-turning inserts

▲ Tool holder with approach angle 1.5°

▲ Thread-turning inserts with pitch max. 1.5 mm



Right-hand

72 981 ...

EUR

X0

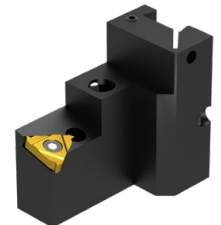
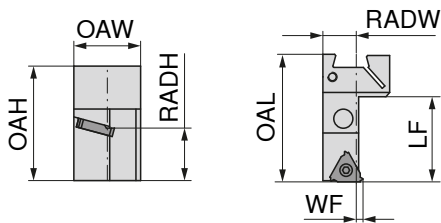
185,00 08007

Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-ER16-R	28	48	41	14	22	3	54	16 ER..

Tool holders for left external thread-turning inserts

▲ Tool holder with approach angle 1.5°

▲ Thread-turning inserts with pitch max. 1.5 mm



Left-hand

72 981 ...

EUR

X0

185,00 08008

Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-ER16-L	28	48	34	14	22	3	54	16 EL..

Spare parts
for Article no.

72 981 08007



Clamping screw

71 950 ...

EUR

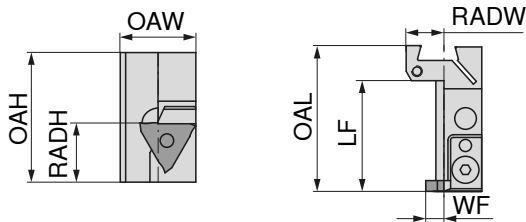
Y2

1,41 231

 Suitable indexable inserts can be found in the main catalogue, **Chapter 8 Thread turning**.

Tool holder block for TX grooving inserts

▲ Insert width 0.5-4.0 mm



Right-hand

Designation	OAW mm	OAH mm	LF mm	RADW mm	RADH mm	WF mm	OAL mm	Insert
MU.AH-TX-R	28	48	41	14	22	7	54	TX R/N/L ...2/3/4

72 986 ...

EUR
X0

185,00 16001

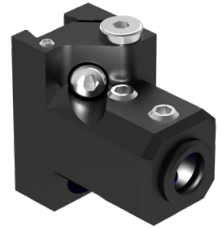
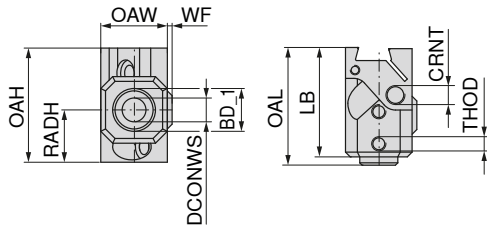
Spare parts
for Article no.
72 986 16001

 Clamp	 Lock washer	 Countersunk screw	 Guide pin with flange
72 950 ...	72 950 ...	72 950 ...	72 950 ...
EUR Y6	EUR Y6	EUR Y6	EUR Y6
59,41 19001	3,14 19002	3,14 19003	11,46 19004

 Suitable indexable inserts can be found in the main catalogue, **Chapter 11 Grooving tools.**

Tool holder blocks for drills and boring bars

▲ with inner high-pressure coolant supply through the tool



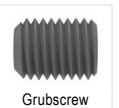
72 982 ...

Designation	DCONWS mm	BD_1 mm	OAW mm	OAH mm	LB mm	WF mm	OAL mm	RADH mm	THOD	
MU.AH-BH06IK	6	12	28	48	46,0		48,5	22	M6	EUR X0 210,60 03001
MU.AH-BH08IK	8	14	28	48	46,0		48,5	22	M8	EUR X0 210,60 03002
MU.AH-BH10IK	10	16	28	48	46,0		49,5	22	M8	EUR X0 210,60 03003
MU.AH-BH12IK	12	18	28	48	50,0		52,5	22	M10	EUR X0 210,60 03004
MU.AH-BH14IK	14	19	28	48	50,5		54,0	22	M10	EUR X0 210,60 03005
MU.AH-BH16IK	16	21	28	48	50,5	2	54,0	22	M10	EUR X0 210,60 03006



72 950 ...

EUR Y8 3,31



83 950 ...

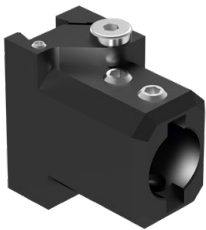
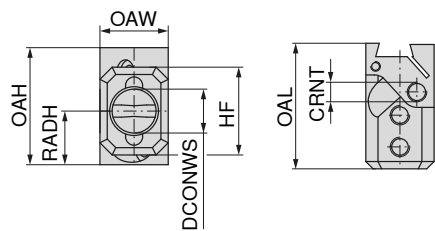
EUR Y8 2,66

Spare parts
for Article no.

72 982 03001	3,31	19011		
72 982 03002			2,66	464
72 982 03003			2,66	464
72 982 03004	3,31	19013		
72 982 03005	3,31	19013		
72 982 03006	3,31	19013		

Tool holders for clamping inserts

- ▲ Thro' coolant directly through base holder
- ▲ Also suitable for collet chucks



72 983 ...

EUR
X0

210,60 20001

Designation	DCONWS H6 mm	HF mm	OAW mm	OAH mm	RADH mm	OAL mm	CRNT
MU.AH-S20IK	20	36	28	48	22	51,5	M8x1



Grubscrew

83 950 ...

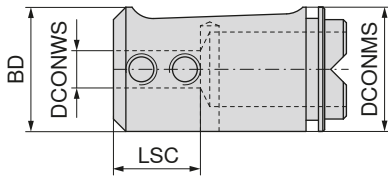
EUR
Y8

2,66 464

Spare parts
for Article no.
72 983 20001

Clamping insert for UltraMini cutting inserts

▲ with inner high-pressure coolant supply through the tool



72 995 ...

EUR
X0

Designation	DCONMS _{g6} mm	DCONWS mm	BD _{g6} mm	LSC mm
MU.ULTRAMINI.KH-DM4	20	4	20	13
MU.ULTRAMINI.KH-DM5	20	5	20	14
MU.ULTRAMINI.KH-DM6	20	6	20	14
MU.ULTRAMINI.KH-DM7	20	7	20	14
MU.ULTRAMINI.KH-DM8	20	8	20	19

61,89 08001
61,89 08002
61,89 08003
61,89 08004
61,89 08005



Grubscrew

72 950 ...

EUR
Y8

Spare parts
DCONWS

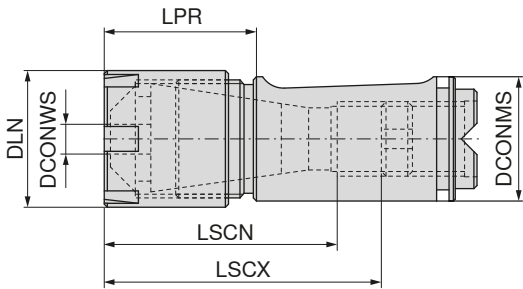
4	3,31 19009
5 - 7	3,31 19010
8	3,31 19012

 Suitable UltraMini cutting inserts can be found in the main catalogue, **Chapter 12 Miniature turning tools**.

ER collet chuck (mini lock nut)

▲ with inner high-pressure coolant supply through the tool

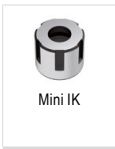
Scope of supply:
Base body without lock nut



Designation	LPR mm	DCONMS _{g6} mm	DLN mm	LSCX mm	LSCN mm	for collet
MU.S20-SPZH-ER16-IK	25,0	20	22	55	38	426E (ER16)
MU.S20-SPZH-ER20-IK	27,5	20	28	56	40	428E (ER20)

72 984 ...

EUR
X0
85,46 06001
85,46 06002



83 950 ...

EUR
Y8
46,98 058
57,30 059

Spare parts
for Article no.
72 984 06001
72 984 06002

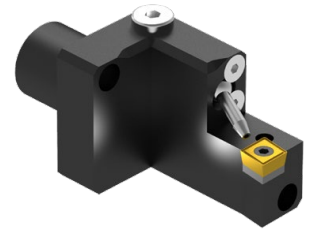
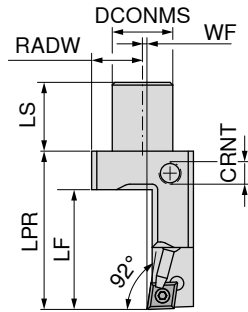
1 Sealing discs can be found in our clamping technology catalogue, Chapter 16 Adaptors and Accessories.

Rear holder with screw clamping for CC.. Indexable inserts

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert	72 955 ...
ST.SR20R4-RE-K-CC09-L-IK	22	25	43,5	1,5	77,5	18,5	M8x1	CC.. 09T3	EUR X0 279,50 08005
ST.SR20R4-RE-K-CC09-R-IK	22	25	43,5	1,5	57,5	18,5	M8x1	CC.. 09T3	EUR X0 228,50 08004

									
	Screw plug	Countersunk screw	Coolant nozzle	Combination Key	Clamping screw	Carbide type C	Threaded sleeve	Alu ring	
	72 950 ...	72 950 ...	72 989 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	72 950 ...	
Spare parts for Article no.	EUR Y8	EUR Y8	EUR X0	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR Y8	
	72 955 08005	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	12,46 165	5,98 171	7,73 19008
	72 955 08004	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	12,46 165	5,98 171	7,73 19008

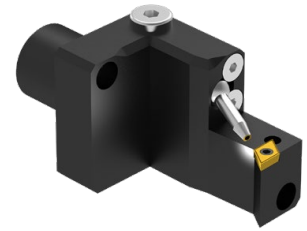
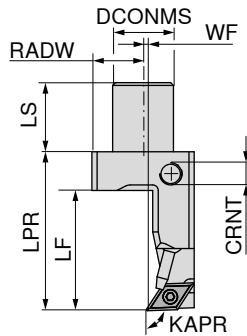
i Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder with screw clamping for DC.. Indexable inserts

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT mm	KAPR °	Insert	72 955 ...
ST.SR20R4-RE-K-DC07-R-IK	22	25	43,5	1,5	57,5	18,5	M8x1	92	DC.. 0702	EUR X0 228,50 08006
ST.SR20R4-RE-K-DC11-R-IK	22	25	43,5	1,0	57,5	18,5	M8x1	92	DC.. 11T3	EUR 228,50 08008
ST.SR20R4-RE-L-DC07-R-IK	22	25	43,5	1,5	77,5	18,5	M8x1	92	DC.. 0702	EUR 279,50 08007
ST.SR20R4-RE-L-DC11-R-IK	22	25	43,5	1,0	77,5	18,5	M8x1	92	DC.. 11T3	EUR 279,50 08009

Spare parts for Article no.

	70 950 ...	70 950 ...	70 950 ...	72 950 ...	72 950 ...
	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A	EUR Y8
72 955 08006		2,99 13800			7,73 19008
72 955 08008	10,66 398	4,14 113	9,66 106	18,38 19005	7,73 19008
72 955 08007		2,99 13800			7,73 19008
72 955 08009	10,66 398	4,14 113	9,66 106	18,38 19005	7,73 19008

Spare parts for Article no.

	72 950 ...	72 950 ...	80 950 ...	72 989 ...
	EUR Y8	EUR Y8	EUR Y7	EUR X0
72 955 08006	13,25 19006	3,31 19007		10,08 10002
72 955 08008	13,25 19006	3,31 19007		10,08 10002
72 955 08007	13,25 19006	3,31 19007	10,05 110	10,08 10002
72 955 08009	13,25 19006	3,31 19007		10,08 10002



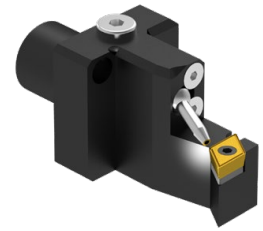
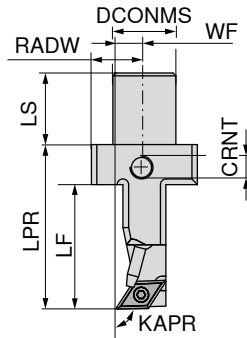
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder with screw clamping for DC.. Indexable inserts

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



72 955 ...

Designation	DCONMS mm _{g6}	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	KAPR °	Insert	
ST.SR20R4-RX-K-DC11-R-IK	22	25	43,5	10	57,5	18,5	M8x1	92	DC.. 11T3	EUR X0 228,50 08010
ST.SR20R4-RX-L-DC11-R-IK	22	25	43,5	10	77,5	18,5	M8x1	92	DC.. 11T3	EUR X0 279,50 08011

									
	Screw plug	Countersunk screw	Coolant nozzle	Combination Key	Clamping screw	Solid Carbide Seat D	Threaded sleeve	Alu ring	
	72 950 ...	72 950 ...	72 989 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	72 950 ...	
Spare parts for Article no.	EUR Y8	EUR Y8	EUR X0	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR Y8	
	72 955 08010	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	9,66 106	5,98 171	7,73 19008
	72 955 08011	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	9,66 106	5,98 171	7,73 19008

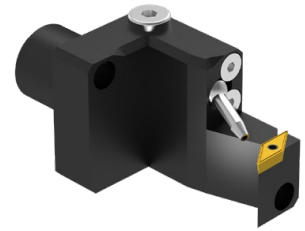
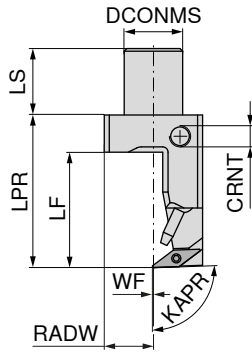
i Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder with screw clamping for VC.. Indexable inserts

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



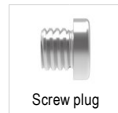
72 955 ...

Designation	DCONMS mm _{g6}	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	KAPR °	Insert
ST.SR20R4-RE-K-VC11-R-IK	22	25	43,5	0,5	57,5	18,5	M8x1	92	VC.. 1103
ST.SR20R4-RE-L-VC11-R-IK	22	25	43,5	0,5	77,5	18,5	M8x1	92	VC.. 1103

EUR
X0

228,50 08012

279,50 08013

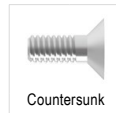


Screw plug

72 950 ...

EUR
Y8

13,25 19006



Countersunk screw

72 950 ...

EUR
Y8

3,31 19007

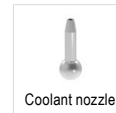


Key D

80 950 ...

EUR
Y7

10,05 110



Coolant nozzle

72 989 ...

EUR
X0

10,08 10002



Clamping screw

70 950 ...

EUR
2A/28

2,99 13800



Alu ring

72 950 ...

EUR
Y8

7,73 19008

Spare parts for Article no.

72 955 08012

72 955 08013



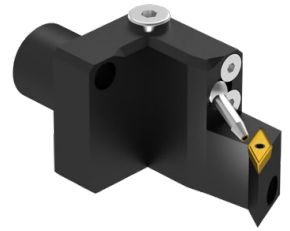
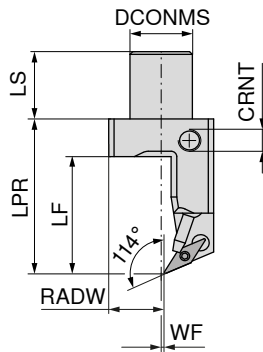
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder with screw clamping for VC.. Indexable inserts

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert	72 955 ...
ST.SR20R4-RE-K-VC11-24-R-IK	22	25	43,5	1,1	57,5	18,5	M8x1	VC.. 1103	EUR X0 228,50 08014
ST.SR20R4-RE-L-VC11-24-R-IK	22	25	43,5	1,1	77,5	18,5	M8x1	VC.. 1103	EUR X0 279,50 08015

Spare parts for Article no.

	Screw plug	Countersunk screw	Key D	Coolant nozzle	Clamping screw	Alu ring
72 955 08014	EUR Y8 13,25 19006	EUR Y8 3,31 19007	EUR Y7 10,05 110	EUR X0 10,08 10002	EUR 2A/28 2,99 13800	EUR Y8 7,73 19008
72 955 08015	EUR Y8 13,25 19006	EUR Y8 3,31 19007	EUR Y7 10,05 110	EUR X0 10,08 10002	EUR 2A/28 2,99 13800	EUR Y8 7,73 19008

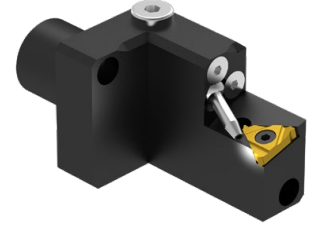
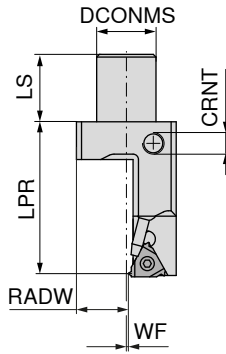
i Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder for right outer thread-turning inserts (ER 16..)

- ▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R
- ▲ Tool holder with approach angle 1.5°
- ▲ Thread-turning inserts with pitch max. 1.5 mm

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Right-hand

72 955 ...

Designation	DCONMS _{g6} mm	LS mm	WF mm	LPR mm	RADW mm	CRNT	Insert	
ST.SR20R4-RE-K-ER16-R-IK	22	25	0,7	57,5	18,5	M8x1	16 ER..	EUR X0 228,50 08016
ST.SR20R4-RE-L-ER16-R-IK	22	25	0,7	77,5	18,5	M8x1	16 ER..	EUR X0 279,50 08017

Spare parts for Article no.

72 955 08016	13,25	19006	3,31	19007	10,08	10002	1,41	231	7,73 19008
72 955 08017	13,25	19006	3,31	19007	10,08	10002	1,41	231	7,73 19008



Suitable indexable inserts can be found in the main catalogue, **Chapter 8 Thread turning**.

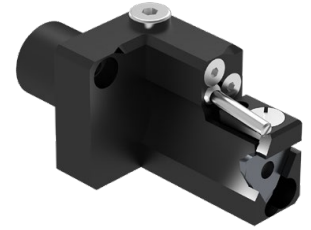
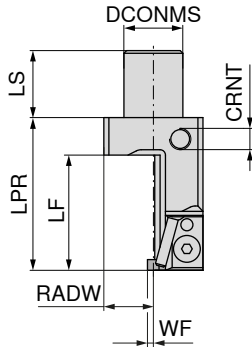
Rear holder for TX grooving inserts

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

▲ Insert width 0.5-4.0 mm

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



									72 955 ...	
Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert	EUR X0	
ST.SR20R4-RE-K-TX-R-IK	22	25	43	2	57	18,5	M8x1	TX R/N/L ...2/3/4	228,50	16018
ST.SR20R4-RE-L-TX-R-IK	22	25	43	2	77	18,5	M8x1	TX R/N/L ...2/3/4	279,50	16019

						
Screw plug	Clamp	Lock washer	Countersunk screw	Coolant nozzle	Guide pin with flange	Alu ring
72 950 ...	72 950 ...	72 950 ...	72 950 ...	72 989 ...	72 950 ...	72 950 ...
EUR Y8	EUR Y6	EUR Y6	EUR Y6	EUR X0	EUR Y6	EUR Y8
13,25 19006	59,41 19001	3,14 19002	3,14 19003	15,19 10001	11,46 19004	7,73 19008
72 955 16018						
72 955 16019						

Spare parts for Article no.

72 955 16018	13,25 19006	59,41 19001	3,14 19002	3,14 19003	15,19 10001	11,46 19004	7,73 19008
72 955 16019	13,25 19006	59,41 19001	3,14 19002	3,14 19003	15,19 10001	11,46 19004	7,73 19008

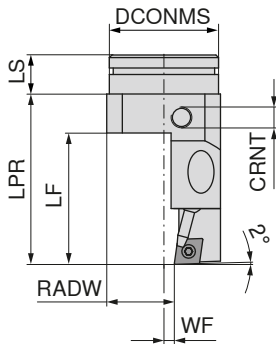
 Suitable indexable inserts can be found in the main catalogue, **Chapter 11 Grooving tools**.

Rear holder with screw clamping for CC.. Indexable inserts

▲ for TSUGAMI BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert	72 957 ...	
TS.RE42.65-CC09-R-1K	42	15	50,5	4	65,5	26	M8x1	CC.. 09T3	EUR X0	312,60 08001

Spare parts for Article no.								
	Screw plug	Countersunk screw	Key D	Coolant nozzle	Clamping screw	Carbide type C	Threaded sleeve	Alu ring
	72 950 ... EUR Y8 13,25 19006	72 950 ... EUR Y8 3,31 19007	80 950 ... EUR Y7 11,96 113	72 989 ... EUR X0 10,08 10002	70 950 ... EUR 2A/28 4,14 113	70 950 ... EUR 2A/28 12,46 165	70 950 ... EUR 2A/28 5,98 171	72 950 ... EUR Y8 7,73 19008

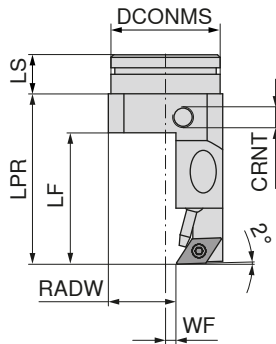
 Suitable indexable inserts can be found in the ISO turning section in the main catalogue, Chapter 9 Turning Tools.

Rear holder with screw clamping for DC.. Indexable inserts

▲ for TSUGAMI BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



72 957 ...

Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert	
TS.RE42.65-DC11-R-IK	42	15	50,5	4	65,5	26	M8x1	DC.. 11T3	EUR X0 312,60 08002

	Screw plug	Countersunk screw	Coolant nozzle	Combination Key	Clamping screw	Solid Carbide Seat D	Threaded sleeve	Alu ring
	72 950 ...	72 950 ...	72 989 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	72 950 ...
Spare parts for Article no.	EUR Y8	EUR Y8	EUR X0	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR Y8
72 957 08002	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	9,66 106	5,98 171	7,73 19008



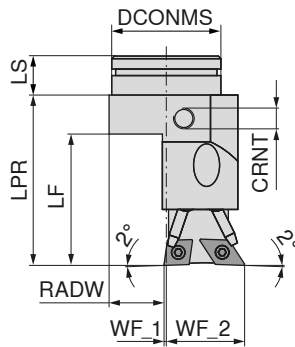
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder (double) with screw clamping for CC.. / DC.. Indexable inserts

▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



double

72 957 ...

EUR
X0

376,50 08009

Designation	DCONMS _{g6} mm	LS mm	LF mm	LPR mm	WF_1 mm	WF_2 mm	RADW mm	CRNT	Insert
TS.RD42.65-CC09-R-DC11-L-IK	42	15	50,5	65,5	1	30	21	M8x1	CC.. 09T3 / DC.. 11T3

Spare parts for Article no.

72 957 08009

 Clamping screw 70 950 ... EUR 2A/28 4,14 113	 Solid Carbide Seat D 70 950 ... EUR 2A/28 9,66 106	 Carbide type C 70 950 ... EUR 2A/28 12,46 165	 Threaded sleeve 70 950 ... EUR 2A/28 5,98 171	 Alu ring 72 950 ... EUR Y8 7,73 19008
 Screw plug 72 950 ... EUR Y8 13,25 19006	 Countersunk screw 72 950 ... EUR Y8 3,31 19007	 Key D 80 950 ... EUR Y7 11,96 113	 Coolant nozzle 72 989 ... EUR X0 10,08 10002	 Combination Key 70 950 ... EUR 2A/28 10,66 398

Spare parts for Article no.

72 957 08009



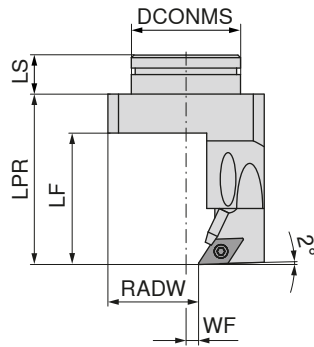
Suitable CC.. Indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.
Suitable DC.. Indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Overhead rear holder with screw clamping for DC.. Indexable inserts

▲ for TSUGAMI BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



72 957 ...

EUR

X0

312,60 08007

Designation	DCONMS _{g6} mm	LS mm	LF mm	LPR mm	WF mm	RADW mm	Insert
TS.RY42.65-DC11-R-IK	42	15	50,5	65,5	4,5	34,5	DC.. 11T3

								
	72 950 ...	72 950 ...	72 989 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	72 950 ...
Spare parts for Article no.	EUR Y8	EUR Y8	EUR X0	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR Y8
72 957 08007	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	9,66 106	5,98 171	7,73 19008



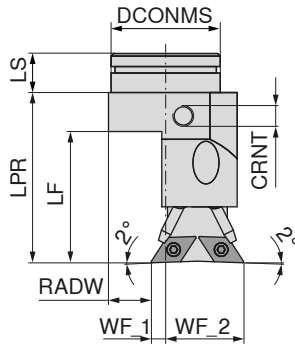
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, Chapter 9 Turning Tools.

Rear holder (double) with screw clamping for DC.. Indexable inserts

▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



double

72 957 ...

EUR

X0

376,50 08011

Designation	DCONMS _{g6} mm	LS mm	LF mm	LPR mm	WF_1 mm	WF_2 mm	RADW mm	CRNT	Insert
TS.RD42.65-DC11-R-DC11-L-IK	42	15	50,5	65,5	5,5	30	16,5	M8x1	DC.. 11T3

								
	72 950 ...	72 950 ...	72 989 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	72 950 ...
Spare parts for Article no.	EUR Y8	EUR Y8	EUR X0	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR 2A/28	EUR Y8
72 957 08011	13,25 19006	3,31 19007	10,08 10002	10,66 398	4,14 113	9,66 106	5,98 171	7,73 19008



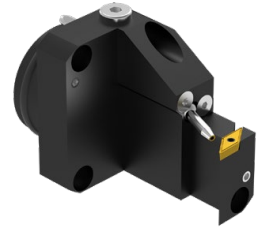
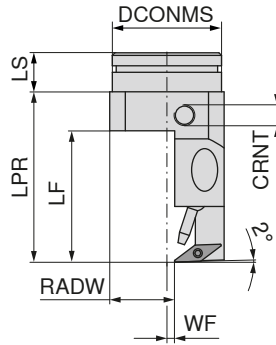
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder with screw clamping for VC.. Indexable inserts

▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

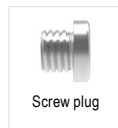
Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



72 957 ...

Designation	DCONMS _{g6} mm	LS mm	LF mm	LPR mm	WF mm	RADW mm	CRNT	Insert	
TS.RE42.65-VC11-R-IK	42	15	50,5	65,5	3	25	M8x1	VC.. 1103	EUR X0 312,60 08003

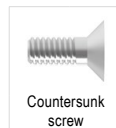


Screw plug

72 950 ...

EUR
Y8

13,25 19006

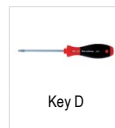


Countersunk screw

72 950 ...

EUR
Y8

3,31 19007

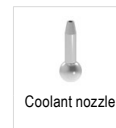


Key D

80 950 ...

EUR
Y7

10,05 110



Coolant nozzle

72 989 ...

EUR
X0

10,08 10002



Clamping screw

70 950 ...

EUR
2A/28

2,99 13800



Alu ring

72 950 ...

EUR
Y8

7,73 19008

Spare parts for Article no.

72 957 08003

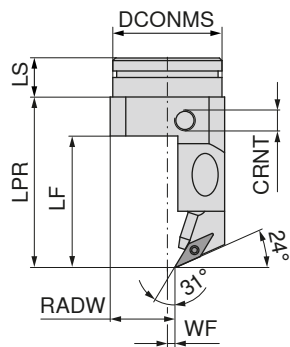
1 Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder with screw clamping for VC.. Indexable inserts

▲ for TSUGAMI BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	LF mm	LPR mm	WF mm	RADW mm	CRNT	Insert	72 957 ...	
TS.RE42.65-VC11-24-R-IK	42	15	50,5	65,5	3	25	M8x1	VC.. 1103	EUR X0	312,60 08004

Spare parts
for Article no.

72 957 08004

 Screw plug	 Countersunk screw	 Key D	 Coolant nozzle	 Clamping screw	 Alu ring
72 950 ...	72 950 ...	80 950 ...	72 989 ...	70 950 ...	72 950 ...
EUR Y8	EUR Y8	EUR Y7	EUR X0	EUR 2A/28	EUR Y8
13,25 19006	3,31 19007	10,05 110	10,08 10002	2,99 13800	7,73 19008

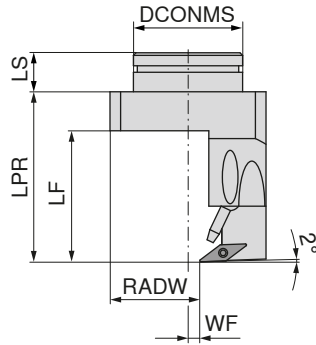
1 Suitable indexable inserts can be found in the ISO turning section in the main catalogue, Chapter 9 Turning Tools.

Overhead rear holder with screw clamping for VC.. Indexable inserts

▲ for TSUGAMI BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	WF mm	LF mm	LPR mm	RADW mm	CRNT	Insert	72 957 ...
TS.RY42.65-VC11-R-1K	42	15	3	50,5	65,5	25	M8x1	VC.. 1103	EUR X0 312,60 08008

Spare parts
for Article no.

72 957 08008

					
Screw plug	Countersunk screw	Key D	Coolant nozzle	Clamping screw	Alu ring
72 950 ...	72 950 ...	80 950 ...	72 989 ...	70 950 ...	72 950 ...
EUR Y8 13,25 19006	EUR Y8 3,31 19007	EUR Y7 10,05 110	EUR X0 10,08 10002	EUR 2A/28 2,99 13800	EUR Y8 7,73 19008

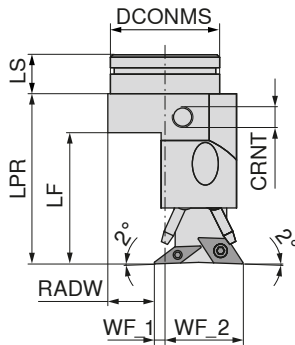
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder (double) with screw clamping for VC.. / DC.. Indexable inserts

▲ for TSUGAMI BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



double

72 957 ...

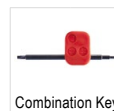
EUR
X0

376,50 08010

Designation	DCONMS mm ⁹⁶	LS mm	LF mm	LPR mm	WF_1 mm	WF_2 mm	RADW mm	CRNT	Insert
TS.RD42.65-VC11-R-DC11-L-IK	42	15	50,5	65,5	4	30	18	M8x1	VC.. 1103 / DC.. 11T3

Spare parts for Article no.

72 957 08010



Combination Key

70 950 ...

EUR
2A/28

10,66 398



Clamping screw

70 950 ...

EUR
2A/28

4,14 113

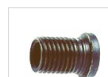


Solid Carbide
Seat D

70 950 ...

EUR
2A/28

9,66 106



Threaded sleeve

70 950 ...

EUR
2A/28

5,98 171



Alu ring

72 950 ...

EUR
Y8

7,73 19008



Screw plug

72 950 ...

EUR
Y8

13,25 19006



Countersunk
screw

72 950 ...

EUR
Y8

3,31 19007



Key D

80 950 ...

EUR
Y7

10,05 110



Coolant nozzle

72 989 ...

EUR
X0

10,08 10002

Spare parts for Article no.

72 957 08010



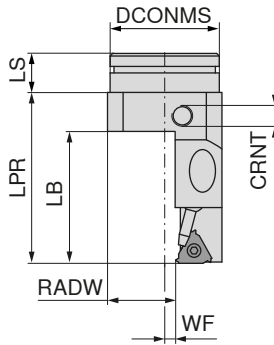
Suitable indexable inserts can be found in the ISO turning section in the main catalogue, **Chapter 9 Turning Tools**.

Rear holder for right outer thread-turning inserts (ER 16..)

- ▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329
- ▲ Tool holder with approach angle 1.5°
- ▲ Thread-turning inserts with pitch max. 1.5 mm

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Right-hand

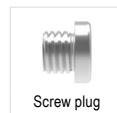
72 957 ...

EUR

X0

312,60 08005

Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert
TS.RE42.65-ER16-R-IK	42	15	50,5	4	65,5	26	M8x1	16 ER..



Screw plug

72 950 ...

EUR
Y8

13,25 19006

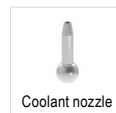


Countersunk
screw

72 950 ...

EUR
Y8

3,31 19007



Coolant nozzle

72 989 ...

EUR
X0

10,08 10002



Clamping screw

71 950 ...

EUR
Y2

1,41 231



Alu ring

72 950 ...

EUR
Y8

7,73 19008

Spare parts
for Article no.
72 957 08005



Suitable indexable inserts can be found in the main catalogue, **Chapter 8 Thread turning**.

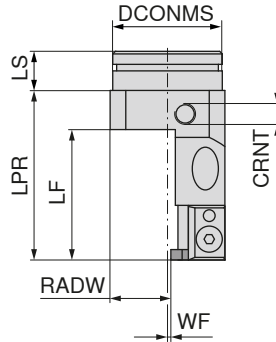
Rear holder for TX grooving inserts

▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

▲ Insert width 0.5-4.0 mm

Scope of supply:

Holder with coolant nozzle and screw plug, without coolant connection



Designation	DCONMS _{g6} mm	LS mm	LF mm	WF mm	LPR mm	RADW mm	CRNT	Insert	72 957 ...
TS.RE42.65-TX-R-IK	42	15	50	1	65,5	23	M8x1	TX R/N/L ...2/3/4	EUR X0 312,60 16006

Spare parts
for Article no.
72 957 16006

						
Screw plug	Clamp	Lock washer	Countersunk screw	Coolant nozzle	Guide pin with flange	Alu ring
72 950 ...	72 950 ...	72 950 ...	72 950 ...	72 989 ...	72 950 ...	72 950 ...
EUR Y8	EUR Y6	EUR Y6	EUR Y6	EUR X0	EUR Y6	EUR Y8
13,25 19006	59,41 19001	3,14 19002	3,14 19003	15,19 10001	11,46 19004	7,73 19008

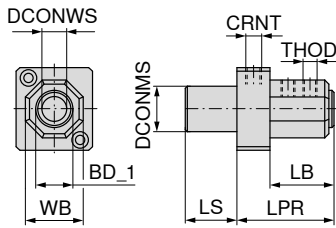


Suitable indexable inserts can be found in the main catalogue, **Chapter 11 Grooving tools**.

Rear holder for drills and boring bars

▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R

▲ with inner high-pressure coolant supply through the tool

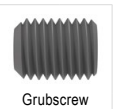


72 955 ...

Designation	DCONMS _{g6} mm	DCONWS mm	BD_1 mm	LPR mm	LS mm	WB mm	LB mm	THOD	
ST.SR20R4-BH-06-1K	22	6	12	47	25	28	31	M6	EUR X0 279,50 03020
ST.SR20R4-BH-08-1K	22	8	14	47	25	28	31	M8	EUR 279,50 03021
ST.SR20R4-BH-10-1K	22	10	16	47	25	28	31	M8	EUR 279,50 03022
ST.SR20R4-BH-12-1K	22	12	18	47	25	28	31	M10	EUR 279,50 03023
ST.SR20R4-BH-14-1K	22	14	19	47	25	28	31	M10	EUR 279,50 03024
ST.SR20R4-BH-66-1K	22	16	21	47	25	32	31	M10	EUR 279,50 03025



Grubscrew



Grubscrew

72 950 ...

EUR Y8

3,31

19011

83 950 ...

EUR Y8

2,66

464

Spare parts
for Article no.

72 955 03020

72 955 03021

72 955 03022

72 955 03023

72 955 03024

72 955 03025

3,31

19013

3,31

19013

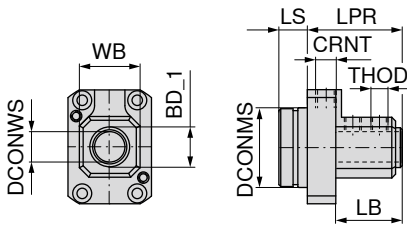
3,31

19013

Rear holder for drills and boring bars

▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329

▲ with inner high-pressure coolant supply through the tool



72 957 ...

EUR
X0

Designation	DCONMS _{g6} mm	DCONWS mm	BD_1 mm	LPR mm	LS mm	WB mm	LB mm	THOD
TS.RE42.65-BH-06-1K	42	6	12	50	15	28	35	M6
TS.RE42.65-BH-08-1K	42	8	14	50	15	28	35	M8
TS.RE42.65-BH-10-1K	42	10	16	50	15	28	35	M8
TS.RE42.65-BH-12-1K	42	12	18	50	15	28	35	M10
TS.RE42.65-BH-14-1K	42	14	18	50	15	28	35	M10
TS.RE42.65-BH-16-1K	42	16	21	50	15	32	35	M10

357,50 03012

357,50 03013

357,50 03014

357,50 03015

357,50 03016

357,50 03017

Spare parts for Article no.

72 957 03012

72 957 03013

72 957 03014

72 957 03015

72 957 03016

72 957 03017



Grubscrew

72 950 ...

EUR
Y8

3,31

19011

3,31

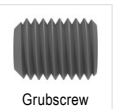
19013

3,31

19013

3,31

19013



Grubscrew

83 950 ...

EUR
Y8

2,66

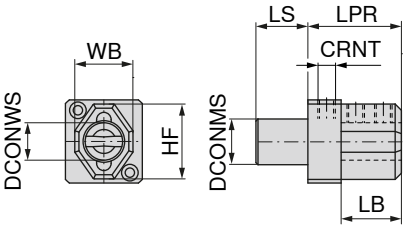
464

2,66

464

Rear holder for clamping inserts

- ▲ for **STAR** SR 20 R-IV / 20 JII / 32 JII / 38 / SW 12 / 20 / SV 20 R
- ▲ Thro' coolant directly through base holder
- ▲ Also suitable for collet holders



Designation	DCONMS _{g6}	DCONWS _{H6}	HF	LS	LB	WB	LPR	CRNT
ST.SR20R4-S20-IK	mm 22	mm 20	mm 36	mm 25	mm 29	mm 28	mm 45	M8x1

Spare parts
for Article no.
72 955 20027

 Suitable cutting inserts and collet holders can be found on → **Page 38+39**



72 955 ...

EUR
X0
266,20 20027



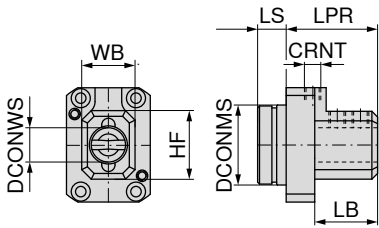
Grubscrew

83 950 ...

EUR
Y8
2,66 464

Rear holder for clamping inserts

- ▲ for **TSUGAMI** BO 266 / 326 / 386 / 38T / HS 267 / 237 / 38M / BW 269 / 329
- ▲ Thro' coolant directly through base holder
- ▲ Also suitable for collet holders



72 957 ...

EUR

X0

357,20

20018

Designation	DCONMS _{g6} mm	DCONWS _{H6} mm	HF mm	LS mm	LB mm	WB mm	LPR mm	CRNT
TS.RE42.65-S-20-IK	42	20	36	15	33	28	48	M8x1



Grubscrew

83 950 ...

EUR

Y8

2,66

464

Spare parts
for Article no.
72 957 20018

 Suitable cutting inserts and collet holders can be found on → **Page 38+39**

Coolant attachment for height-adjustable insert holder, left



Left-hand

72 985 ...

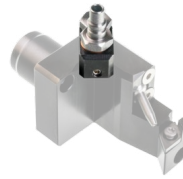
EUR

X0

49,13 09003

Designation	for
MU.KS-KA-AH-L	MU.AH-...-L

Coolant attachment for STAR



Designation

ST.KS-KA-STAR

72 955 ...

EUR

X0

44,01 09026

Coolant attachment for height-adjustable insert holder, right



Right-hand

72 985 ...

EUR

X0

49,13 09001

Designation	for
MU.KS-KA-AH-R	MU.AH-...-R

Coolant distributor for high-pressure connections - 6 outlets

Scope of supply:
without quick-couplers



72 991 ...

EUR

X0

95,70 12003

Designation

MU.KSV-45-30-35x6

Coolant attachment for height-adjustable insert holder, double



double

72 985 ...

EUR

X0

56,79 09002

Designation	for
MU.KS-KA-AH-D	MU.AH-...-R/L

Coolant distributor for high-pressure connections - 7 outlets

Scope of supply:
without quick-couplers



72 991 ...

EUR

X0

102,10 12002

Designation

MU.KSV-80-30-30x7

Coolant distributor for high-pressure connections - 8 outlets

Scope of supply:
without quick-couplers

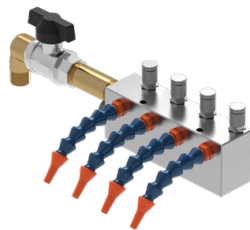


Designation	72 991 ...
MU.KSV-110-30-30x8	EUR X0 108,40 12001

Coolant distributor for STAR SR 32

▲ 4x high-pressure and 4x low-pressure connections (G1/8")

Scope of supply:
without quick-couplers



Designation	72 991 ...
MU.KSV-45-30-35x6	EUR X0 222,20 12004

Coolant nozzle for high-pressure applications



Designation	72 989 ...
MU.KS-KD-HD	EUR X0 10,08 10002

Coolant nozzle for TX grooving tool holder



Designation	72 989 ...
MU.KS-KD-HO	EUR X0 15,19 10001

Coolant nozzle for low-pressure applications



Designation	72 989 ...
MU.KS-KD-ND	EUR X0 10,08 10003

G1/8" screw plug

▲ Max. 200 bar/2900 psi
▲ No sealing ring required



Designation	THSZMS	72 950 ...
VS.G1/8	G1/8"	EUR X0 21,72 010

Angled coolant connection - short



Designation	THOD	short 72 987 ...
MU.KS-KA-VU-K	M8x1	EUR X0 42,78 18001

Angled coolant connection - long



Designation	THOD	long 72 987 ...
MU.KS-KA-VU-L	M8x1	EUR X0 49,13 18002

Angled coolant connection for distributor

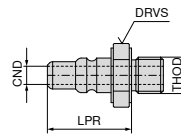


72 987 ...

Designation	THOD	THID	EUR X0	
MU.KS-KA-KSV	G1/8"	G1/8"	42,78	18003

Coupler connector

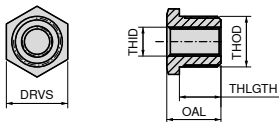
▲ pressure-resistant up to at least 400 bar



72 992 ...

Designation	LPR mm	CND mm	DRVS mm	OAL mm	EUR X0	
MU.KSKS-M8x1	18,5	4	12	19	14,66	13001

Threaded adapter



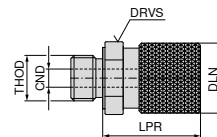
72 988 ...

THID	THOD	THLGTH mm	DRVS mm	OAL mm	EUR X0	
G1/8"	G1/4"	11,5	17	15,0	15,19	01005
G1/8"	M8x1	11,5	14	15,0	15,19	01006
G1/8"	M12x1	11,5	14	15,0	15,19	01007
G1/8"	M14x1	11,5	17	15,0	15,19	01008
M8x1	G1/4"	11,5	17	15,0	15,19	01003
M8x1	M12x1	11,5	14	15,0	15,19	01001
M8x1	M14x1	11,5	17	15,0	15,19	01002
M8x1	G1/8"	11,5	14	23,5	15,19	01004

Quick-coupler

▲ pressure-resistant up to at least 400 bar

▲ rapid change of coolant distribution without screws thanks to click system



72 993 ...

THOD	BD mm	DLN mm	LPR mm	CND mm	EUR X0	
G1/8"	16	15,5	21,5	4	33,81	15001

Flexible coolant hoses

▲ incl. prefitted quick-coupler and coupler connector

▲ extremely flexible

▲ pressure-resistant up to 300 bar

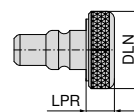


72 990 ...

Designation	BD mm	CND mm	OAL mm	EUR X0	
MU.KSS-DN3-150	6,0	3	150	90,58	11005
MU.KSS-DN3-250	6,0	3	250	95,70	11006
MU.KSS-DN5-200	9,5	5	200	103,30	11001
MU.KSS-DN5-300	9,5	5	300	108,40	11002
MU.KSS-DN5-400	9,5	5	400	111,00	11003
MU.KSS-DN5-500	9,5	5	500	113,60	11004

Sealing plugs

▲ for closing off the quick-coupler to protect against contamination



72 994 ...

Designation	LPR mm	DLN mm	EUR X0	
MU.KSVS	5,5	15,5	4,45	17001

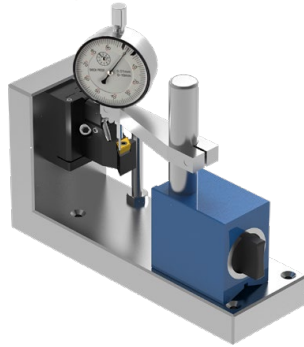
Adjustment device for setting height of tool block holder

- ▲ Reduced setup times thanks to convenient presetting away from the machine
- ▲ prevention of machine downtimes
- ▲ best positional accuracy following tool change by presetting away from the machine

Scope of supply:

72 996 05001: Adjustment device with dial gauge and dial gauge stand

72 996 05002: Adjustment device without dial gauge and dial gauge stand



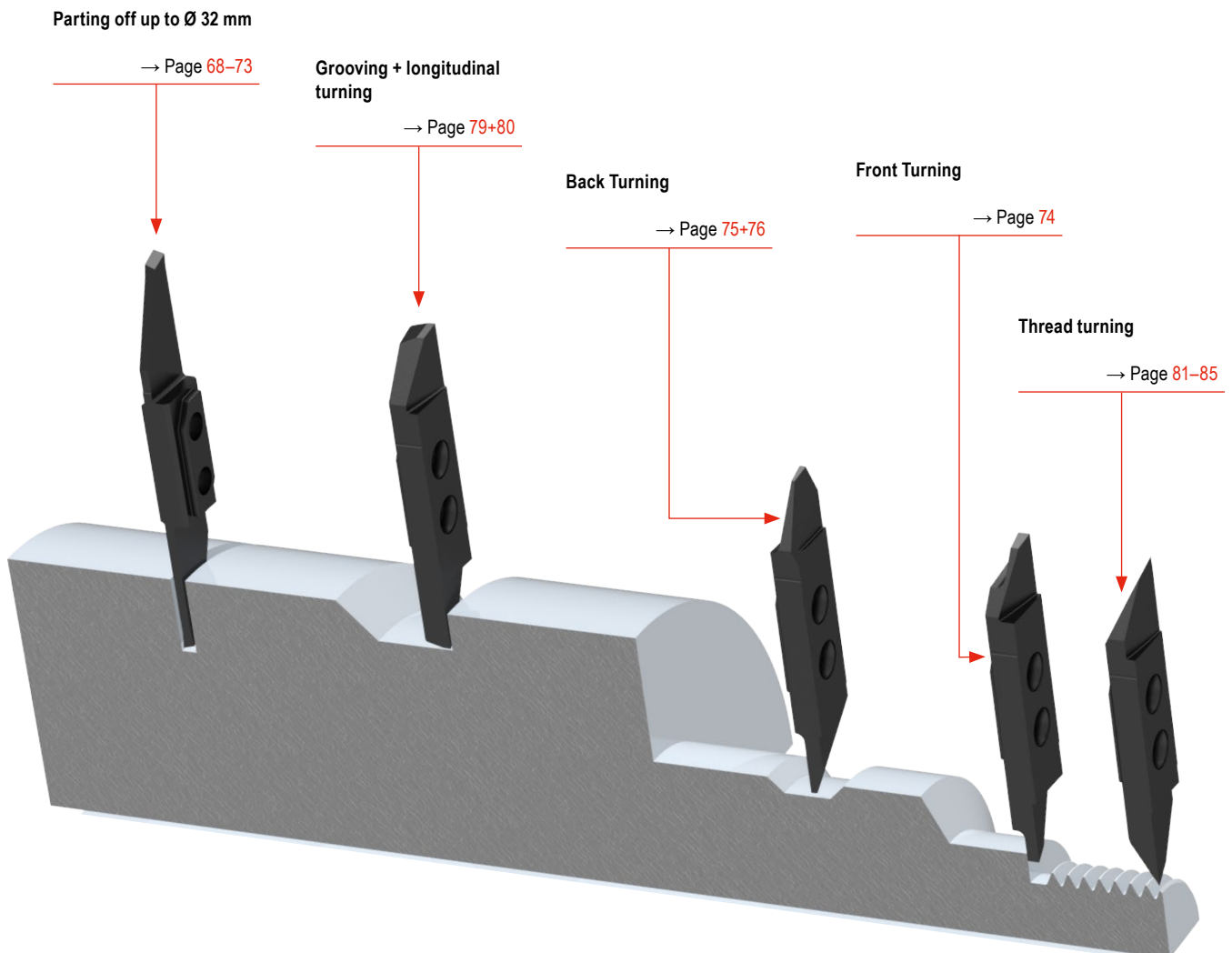
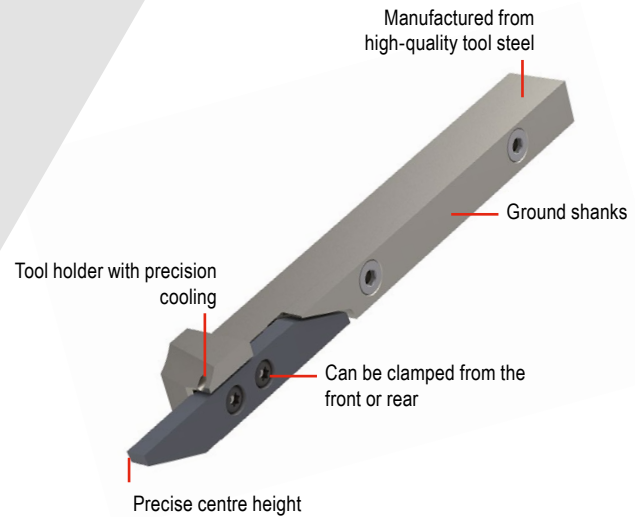
Designation	72 996 ...	
	EUR	X0
MU.EV MAX	701,70	05001
MU.EV MAX-OMU	510,50	05002



Information on correct usage, and any conversions required can be found on → **Page 98+99**

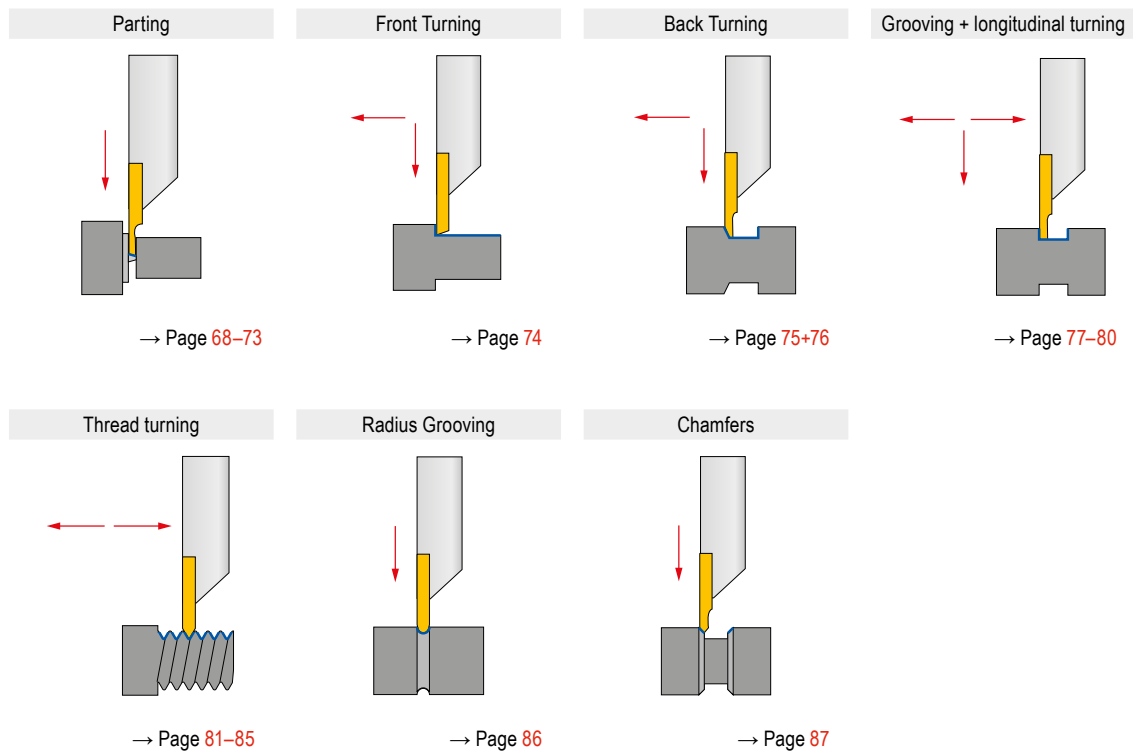
Toolfinder – VertiClamp

- ▲ Vertical arrangement of cutting edges
Less space required
- ▲ Second cutting edge can still be used in the event of breakage
Minimises costs
- ▲ Insert seat protected against swarf
Increases the service life of the holder
- ▲ High changeover precision
Reduces unproductive times
- ▲ Large selection of indexable inserts and geometries
Increases flexibility
- ▲ Optional coolant supply to cutting edge
Increases service life and improves surface quality

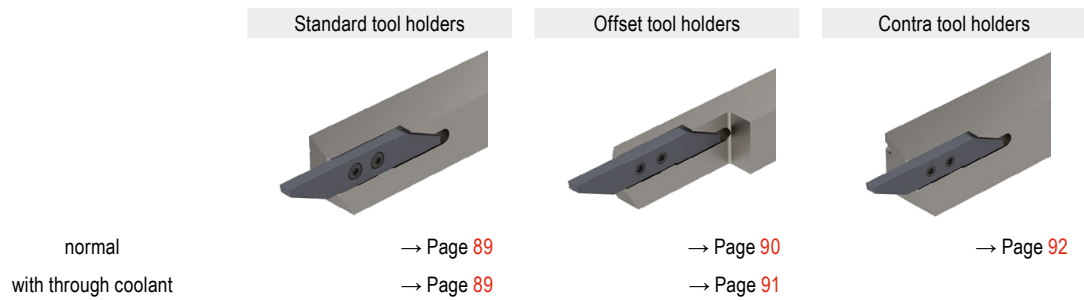


Overview – VertiClamp

Inserts

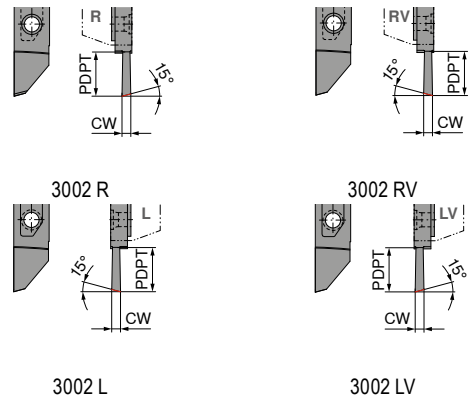


Tool holder



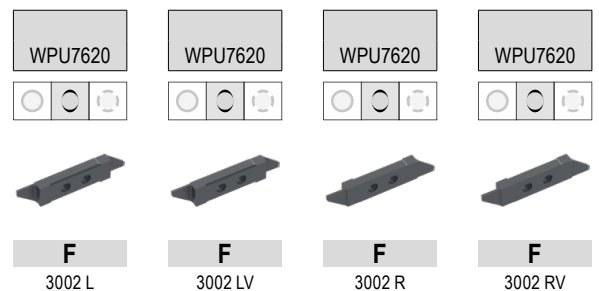
3002 L / 3002 LV / 3002 R / 3002 RV

Designation	CW mm	PDPT mm
3002-0,8-6	0,8	6
3002-0,8-10	0,8	10
3002-1,0-6	1,0	6
3002-1,0-13	1,0	13
3002-1,2-6	1,2	6
3002-1,5-8	1,5	8
3002-1,5-16	1,5	16
3002-1,8-8	1,8	8
3002-2,0-10	2,0	10
3002-2,0-16	2,0	16
3002-2,5-13	2,5	13
3002-2,5-16	2,5	16
3002-3,0-16	3,0	16



3002_L / 3002_LV / 3002_R / 3002_RV

▲ for parting off

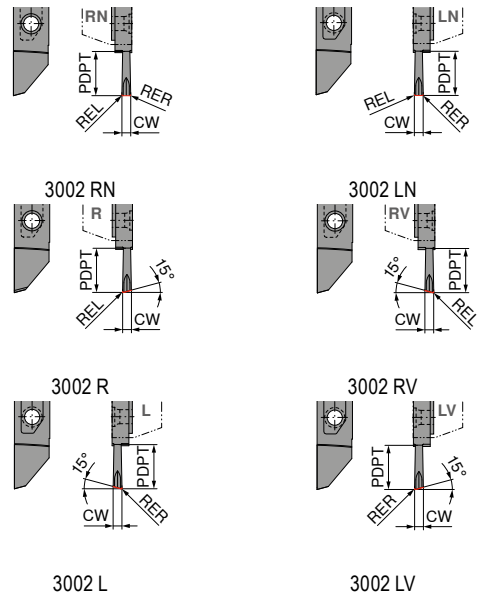


ISO designation	72 420 ...		72 422 ...		72 416 ...		72 418 ...	
	EUR		EUR		EUR		EUR	
	X1		X1		X1		X1	
3002-0,8-6	31,84	510	31,84	510	31,84	510	31,84	510
3002-0,8-10	31,84	530	31,84	530	31,84	530	31,84	530
3002-1,0-6	31,84	512	31,84	512	31,84	512	31,84	512
3002-1,0-13	37,09	532	37,36	532	37,09	532	37,36	532
3002-1,2-6	31,84	514	31,84	514	31,84	514	31,84	514
3002-1,5-8	31,84	516	31,84	516	31,84	516	31,84	516
3002-1,5-16	40,48	536	40,48	536	40,48	536	40,48	536
3002-1,8-8	31,84	518	31,84	518	31,84	518	31,84	518
3002-2,0-10	31,84	520	31,84	520	31,84	520	31,84	520
3002-2,0-16	40,48	540	40,48	540	40,48	540	40,48	540
3002-2,5-13	37,09	522 ¹⁾	37,09	522 ¹⁾	37,09	522 ¹⁾	37,09	522 ¹⁾
3002-2,5-16	40,48	542 ¹⁾	40,48	542 ¹⁾	40,48	542 ¹⁾	40,48	542 ¹⁾
3002-3,0-16	39,92	524 ¹⁾	39,92	524 ¹⁾	39,92	524 ¹⁾	39,92	524 ¹⁾
P	●		●		●		●	
M	●		●		●		●	
K								
N	○		○		○		○	
S	●		●		●		●	
H								
O	○		○		○		○	

1) used with tool holders with 12 mm and larger shank size

3002 L / 3002 LN / 3002 LV / 3002 R / 3002 RN / 3002 RV

Designation	CW mm	PDPT mm
3002-1,5-8	1,5	8
3002-1,5-10	1,5	10
3002-1,5-16	1,5	16
3002-2,0-10	2,0	10
3002-2,0-16	2,0	16
3002-2,5-13	2,5	13
3002-2,5-16	2,5	16
3002-3,0-16	3,0	16



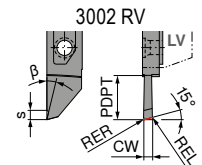
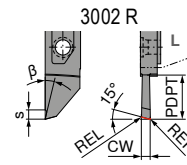
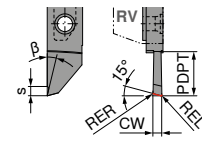
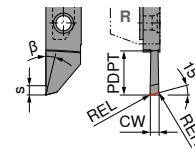
3002_L / 3002_LN / 3002_LV / 3002_R / 3002_RN / 3002_RV

▲ for parting off

			-SC WPU7620 		-SC WPU7620 		-SC WPU7620 		-SC WPU7620 		-SC WPU7620 		-SC WPU7620 	
														
			F 3002 L 72 432 ...		F 3002 LN 72 426 ...		F 3002 LV 72 434 ...		F 3002 R 72 428 ...		F 3002 RN 72 424 ...		F 3002 RV 72 430 ...	
ISO designation	REL mm	RER mm	EUR X1		EUR X1		EUR X1		EUR X1		EUR X1		EUR X1	
3002-1,5-8	0,00	0,08	34,53	508			34,53	508	34,53	508			34,53	508
3002-1,5-8	0,08	0,00			35,09	510			34,53	508	35,09	510		
3002-1,5-10	0,08	0,08			44,04	530					44,04	530	43,33	528
3002-1,5-16	0,08	0,08							43,33	528			43,33	528
3002-1,5-16	0,08	0,00												
3002-1,5-16	0,00	0,08	43,33	528			43,33	528						
3002-2,0-10	0,08	0,08			35,09	512					35,09	512		
3002-2,0-10	0,08	0,00							34,53	510			34,53	510
3002-2,0-10	0,00	0,08	34,53	510			34,53	510			44,04	532		
3002-2,0-16	0,08	0,08			44,04	532					44,04	532		
3002-2,0-16	0,08	0,00							43,33	530			43,33	530
3002-2,0-16	0,00	0,08	43,33	530			43,33	530					43,33	530
3002-2,5-13	0,08	0,08			41,49	514 ¹⁾					41,49	514 ¹⁾		
3002-2,5-13	0,08	0,00							40,48	512 ¹⁾			40,36	512 ¹⁾
3002-2,5-13	0,00	0,08	40,48	512 ¹⁾			40,36	512 ¹⁾			41,49	534 ¹⁾	43,33	532 ¹⁾
3002-2,5-16	0,08	0,08			43,46	534 ¹⁾			43,33	532 ¹⁾			41,49	516 ¹⁾
3002-2,5-16	0,08	0,00												
3002-2,5-16	0,00	0,08	43,33	532 ¹⁾			43,33	532 ¹⁾			41,49	516 ¹⁾	43,33	514 ¹⁾
3002-3,0-16	0,08	0,08			43,46	516 ¹⁾								
3002-3,0-16	0,08	0,00							43,33	514 ¹⁾			43,33	514 ¹⁾
3002-3,0-16	0,00	0,08	43,33	514 ¹⁾			43,33	514 ¹⁾						
P			●		●		●		●		●		●	
M			●		●		●		●		●		●	
K														
N			○		○		○		○		○		○	
S			●		●		●		●		●		●	
H														
O			○		○		○		○		○		○	

3002 L / 3002 LV / 3002 R / 3002 RV

Designation	CW mm	PDPT mm	s mm
3002-0,8-10	0,8	10	2
3002-0,8-10	1,0	10	2
3002-1,0-13	1,0	13	2
3002-1,5-8-06	1,5	8	2
3002-1,5-8-12	1,5	8	2
3002-1,5-16	1,5	16	2
3002-2,0-10-06	2,0	10	2
3002-2,0-10-12	2,0	10	2
3002-2,0-16-12	2,0	16	2
3002-2,0-16-06	2,0	16	2
3002-2,5-13-12	2,5	13	2
3002-2,5-13-06	2,5	13	2
3002-2,5-16-12	2,5	16	2
3002-2,5-16-06	2,5	16	2
3002-3,0-16-12	3,0	16	2
3002-3,0-16-06	3,0	16	2

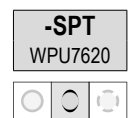
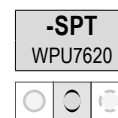
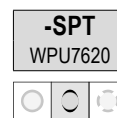
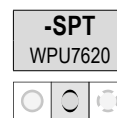


3002 L

3002 LV

3002_L / 3002_LV / 3002_R / 3002_RV

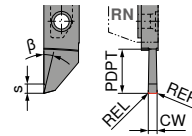
▲ for parting off



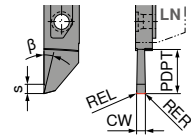
ISO designation	REL mm	RER mm	72 440 ... EUR X1	50600	72 442 ... EUR X1	50600	72 436 ... EUR X1	50600	72 438 ... EUR X1	50600
3002-0,8-10	0,00	0,00	34,53	52800	34,53	52800	34,53	52800	34,53	52800
3002-1,0-13	0,00	0,00	40,05	53000	40,05	53000	40,05	53000	40,05	53000
3002-1,5-16	0,00	0,00	42,76	540	42,76	540	42,76	540	42,76	540
3002-1,5-8-06	0,00	0,05	36,94	570	36,94	570	36,94	570	36,94	570
3002-1,5-8-06	0,05	0,00	34,53	572	34,53	572	34,53	572	34,53	572
3002-1,5-8-12	0,00	0,05	36,94	582	36,94	582	36,94	582	36,94	582
3002-1,5-8-12	0,05	0,00	34,53	582	34,53	582	34,53	582	34,53	582
3002-2,0-10-06	0,00	0,05	46,17	592	46,17	592	46,17	592	46,17	592
3002-2,0-10-06	0,05	0,00	42,76	592	42,76	592	42,76	592	42,76	592
3002-2,0-10-12	0,00	0,05	43,46	554	43,46	554	43,46	554	43,46	554
3002-2,0-10-12	0,05	0,00	40,05	574	40,05	574	40,05	574	40,05	574
3002-2,0-16-06	0,00	0,05	46,17	594	46,17	594	46,17	594	46,17	594
3002-2,0-16-06	0,05	0,00	42,76	594	42,76	594	42,76	594	42,76	594
3002-2,5-13-06	0,00	0,05	46,17	556	46,17	556	46,17	556	46,17	556
3002-2,5-13-12	0,00	0,05	42,76	586	42,76	586	42,76	586	42,76	586
3002-2,5-16-06	0,05	0,00								
3002-2,5-16-12	0,00	0,05								
3002-2,5-16-12	0,05	0,00								
3002-3,0-16-06	0,00	0,05								
3002-3,0-16-06	0,05	0,00								
3002-3,0-16-12	0,00	0,05								
3002-3,0-16-12	0,05	0,00								
P			●	●	●	●	●	●	●	●
M			●	●	●	●	●	●	●	●
K										
N			○	○	○	○	○	○	○	○
S			●	●	●	●	●	●	●	●
H										
O			○	○	○	○	○	○	○	○

3002 LN / 3002 RN

Designation	CW mm	PDPT mm	s mm	β°
3002-1,0-10	1,0	10	2	20
3002-1,5-10-06	1,5	10	2	6
3002-1,5-10-12	1,5	10	2	12
3002-1,5-16	1,5	16	2	20
3002-2,0-10-06	2,0	10	2	6
3002-2,0-10-12	2,0	10	2	12
3002-2,0-16-12	2,0	16	2	12
3002-2,0-16-06	2,0	16	2	6
3002-2,5-13-12	2,5	13	2	12
3002-2,5-13-06	2,5	13	2	6
3002-2,5-16-06	2,5	16	2	6
3002-2,5-16-12	2,5	16	2	12
3002-3,0-16-12	3,0	16	2	12
3002-3,0-16-06	3,0	16	2	6



3002 RN



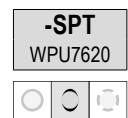
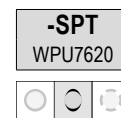
3002 LN

3002_LN / 3002_RN

▲ for parting off

ISO designation	REL mm	RER mm
3002-1,0-10	0,05	0,05
3002-1,5-10-06	0,05	0,05
3002-1,5-10-12	0,05	0,05
3002-1,5-16	0,05	0,05
3002-2,0-10-06	0,05	0,05
3002-2,0-10-12	0,05	0,05
3002-2,0-16-06	0,05	0,05
3002-2,0-16-12	0,05	0,05
3002-2,5-13-06	0,05	0,05
3002-2,5-13-12	0,05	0,05
3002-2,5-16-06	0,05	0,05
3002-2,5-16-12	0,05	0,05
3002-3,0-16-06	0,05	0,05
3002-3,0-16-12	0,05	0,05

P	●	●
M	●	●
K		
N	○	○
S	●	●
H		
O	○	○


F
3002 LN

F
3002 RN

72 515 ...

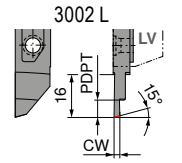
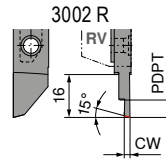
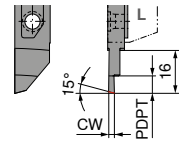
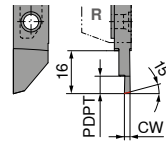
72 514 ...

EUR X1	
41,06	50800
36,94	550
36,94	580
46,17	53000
36,94	572
36,94	582
46,17	552
46,17	592
43,46	554
43,46	584
46,17	574
46,17	594
46,17	556
46,17	586

EUR X1	
41,06	50800
36,94	550
36,94	580
46,17	53000
36,94	572
36,94	582
46,17	552
46,17	592
43,46	554
43,46	584
46,17	574
46,17	594
46,17	556
46,17	586

3002 L-16 / 3002 LV-16 / 3002 R-16 / 3002 RV-16

Designation	CW mm	PDPT mm
3002-0,8-..	0,8	6
3002-1,0-..	1,0	6
3002-1,2-..	1,2	6



3002 RV

3002 LV

3002_L_16 / 3002_LV_16 / 3002_R_16 / 3002_RV_16

▲ For parting off with pick-up spindle

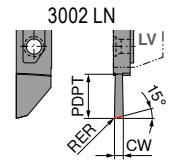
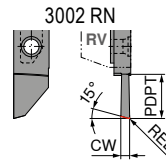
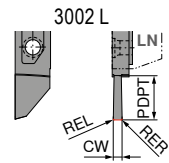
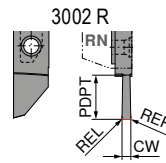
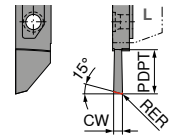
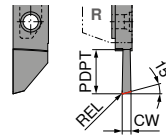


	72 497 ...	72 499 ...	72 496 ...	72 498 ...
	EUR X1	EUR X1	EUR X1	EUR X1
3002-0,8-6-16	39,76 510	39,76 510	39,76 510	39,76 510
3002-1,0-6-16	39,76 51200	39,76 51200	39,76 51200	39,76 51200
3002-1,2-6-16	39,76 514	39,76 514	39,76 514	39,76 514

ISO designation				
P	●	●	●	●
M	●	●	●	●
K				
N	○	○	○	○
S	●	●	●	●
H				
O	○	○	○	○

3002 L / 3002 LN / 3002 LV / 3002 R / 3002 RN / 3002 RV

Designation	CW mm	PDPT mm
3002-2,0-10..	2	10



3002 RV

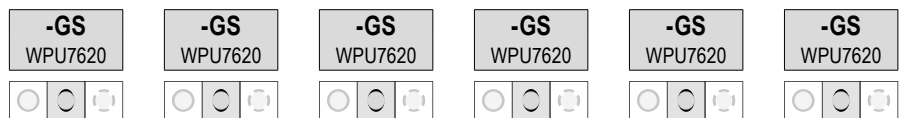
3002 LV

3002_L / 3002_LN / 3002_LV / 3002_R / 3002_RN / 3002_RV

▲ For parting off

▲ E: Blade with rounded cutting edge

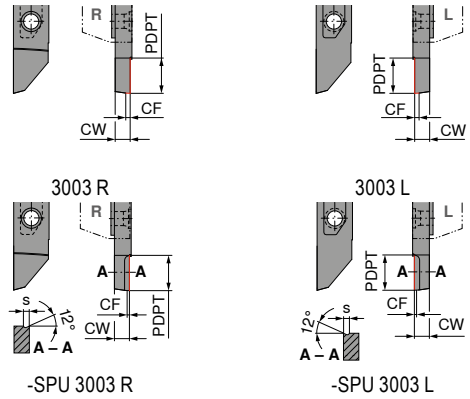
▲ F: Blade with sharp cutting edge



	3002 L		3002 LN		3002 LV		3002 R		3002 RN		3002 RV	
	72 501 ...		72 505 ...		72 507 ...		72 500 ...		72 504 ...		72 506 ...	
ISO designation	REL mm	RER mm	EUR X1		EUR X1		EUR X1		EUR X1		EUR X1	
3002-2,0-10 E	0,2	0,2			27,85	512			27,85	512		
3002-2,0-10 E	0,2	0,0					27,85	512			27,85	512
3002-2,0-10 E	0,0	0,2	27,85	512								
3002-2,0-10 F	0,2	0,2			33,10	552			33,10	552		
3002-2,0-10 F	0,2	0,0					33,10	552			33,10	552
3002-2,0-10 F	0,0	0,2	33,10	552								
P			●		●		●		●		●	
M			●		●		●		●		●	
K												
N			○		○		○		○		○	
S			●		●		●		●		●	
H												
O			○		○		○		○		○	

3003 L / 3003 R

Designation	CBMD	CW mm	CF mm	s mm	PDPT mm
3003-3,4-..	-SPU	3,4	0,2	1,2	8
3003-3,4-..		3,4	1,0	-	8



3003_L / 3003_R

▲ for front turning

WPU7620	WPU7620	-SPU WPU7620	-SPU WPU7620
F 3003 L	F 3003 R	F 3003 L	F 3003 R
72 446 ...	72 444 ...	72 521 ...	72 520 ...
EUR X1	EUR X1	EUR X1	EUR X1
29,27 510	29,27 510	31,98 510	31,98 510

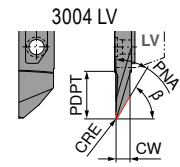
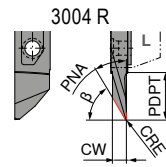
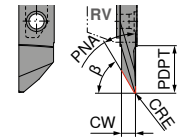
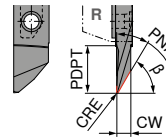
ISO designation

3003-3,4-8

P	●	●	●	●
M	●	●	●	●
K	●	●	●	●
N	○	○	○	○
S	●	●	●	●
H				
O	○	○	○	○

3004 L / 3004 LV / 3004 R / 3004 RV

Designation	CRE mm	CW mm	PDPT mm	PNA °	β°
3004-3,2-5 35015	0,15	3,2	11	35	55
3004-3,2-5 35035	0,35	3,2	11	35	55
3004-3,2-6 29008	0,08	3,2	11	29	61
3004-3,2-6 29015	0,15	3,2	11	29	61
3004-3,2-6 29035	0,35	3,2	11	29	61
3004-3,2-6 29075	0,75	3,2	11	29	61

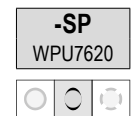
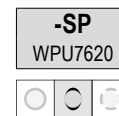
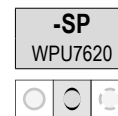
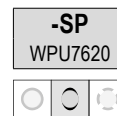


3004 L

3004 LV

3004_L / 3004_LV / 3004_R / 3004_RV

▲ for back turning



72 562 ...

72 563 ...

72 560 ...

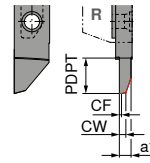
72 561 ...

ISO designation	EUR X1		EUR X1		EUR X1		EUR X1	
3004-3,2-5 35015	33,96	514			33,96	514		
3004-3,2-5 35035	33,96	516			33,96	516		
3004-3,2-6 29008	33,96	508	33,96	508	33,96	508	33,96	508
3004-3,2-6 29015	33,96	510	33,96	510	33,96	510	33,96	510
3004-3,2-6 29035	33,96	512	33,96	512	33,96	512	33,96	512
3004-3,2-6 29075	33,96	515	33,96	515	33,96	515	33,96	515

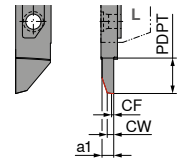
P	•	•	•	•
M	•	•	•	•
K	•	•	•	•
N	○	○	○	○
S	•	•	•	•
H				
O	○	○	○	○

3004 L / 3004 R

Designation	CW mm	CF mm	PDPT mm	a ₁ mm
3004-0,8-..	0,8	0,5	6	2,0
3004-1,0-..	1,0	0,5	6	2,2
3004-1,2-..	1,2	0,5	8	2,4
3004-1,5-..	1,5	0,5	8	2,7
3004-1,8-..	1,8	0,5	8	3,0



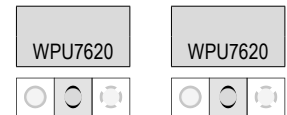
3004 R



3004 L

3004_L / 3004_R

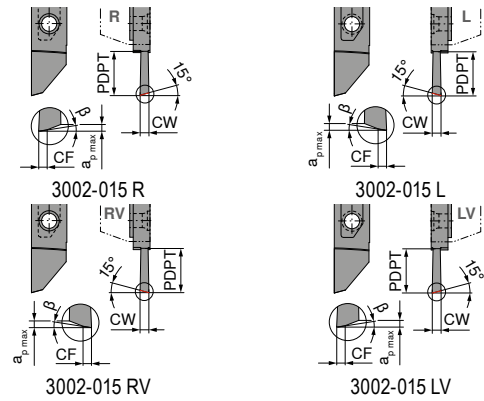
▲ for back turning



ISO designation	F 3004 L 72 457 ...		F 3004 R 72 456 ...	
	EUR	X1	EUR	X1
3004-0,8-6	29,27	504	29,27	504
3004-1,0-6	29,27	506	29,27	506
3004-1,2-8	29,27	508	29,27	508
3004-1,5-8	29,27	510	29,27	510
3004-1,8-8	29,27	512	29,27	512
P	●	●	●	●
M	●	●	●	●
K	●	●	●	●
N	○	○	○	○
S	●	●	●	●
H				
O	○	○	○	○

3002-015 L / 3002-015 LV / 3002-015 R / 3002-015 RV

Designation	CW mm	CF mm	PDPT mm	β°	$a_{p \max}$ mm
3002-015-..	2	0,3	10	1,5	0,45



3002_015_L / 3002_015_LV / 3002_015_R / 3002_015_RV

▲ For turning and parting off

WPU7620	WPU7620	WPU7620	WPU7620
F 3002-015 L	F 3002-015 LV	F 3002-015 R	F 3002-015 RV
72 517 ...	72 519 ...	72 516 ...	72 518 ...
EUR X1	EUR X1	EUR X1	EUR X1
34,53 510	34,53 510	34,53 510	34,53 510

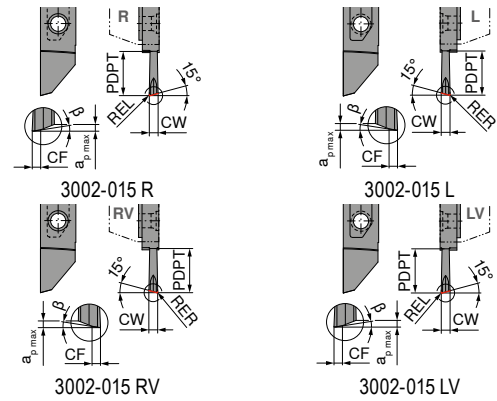
ISO designation

3002-015-2,0-10

P	•	•	•	•
M	•	•	•	•
K	•	•	•	•
N	○	○	○	○
S	•	•	•	•
H				
O	○	○	○	○

3002-015 L / 3002-015 LV / 3002-015 R / 3002-015 RV

Designation	CW mm	CF mm	PDPT mm	β°	$a_{p \max}$ mm
3002-015-..	2	0,3	10	15	0,45



3002_015_L / 3002_015_LV / 3002_015_R / 3002_015_RV

▲ For turning and parting off

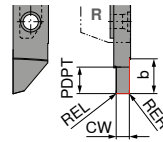
-SC WPU7620	-SC WPU7620	-SC WPU7620	-SC WPU7620
F 3002-015 L	F 3002-015 LV	F 3002-015 R	F 3002-015 RV
72 511 ...	72 513 ...	72 510 ...	72 512 ...
EUR X1	EUR X1	EUR X1	EUR X1
36,51 510	36,51 510	36,51 510	36,51 510

ISO designation	REL mm	RER mm
3002-015-2,0-10	0,15	0,00
3002-015-2,0-10	0,00	0,15

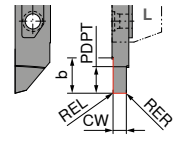
P	●	●	●	●
M	●	●	●	●
K	●	●	●	●
N	○	○	○	○
S	●	●	●	●
H	●	●	●	●
O	○	○	○	○

3005 L / 3005 R

Designation	CW mm	PDPT mm	b mm
3005-1,0-..	1,0	2,5	8
3005-1,5-..	1,5	3,0	8
3005-2,0-..	2,0	4,0	8
3005-2,5-..	2,5	5,0	8
3005-3,0-..	3,0	6,0	8



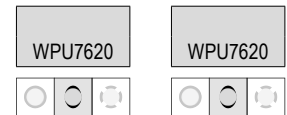
3005 R



3005 L

3005_L / 3005_R

▲ for grooving and turning

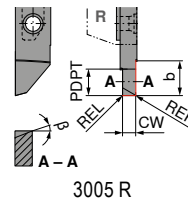


ISO designation	REL mm	RER mm
3005-1,0-2,5	0,05	0,05
3005-1,5-3	0,05	0,05
3005-2,0-4	0,05	0,05
3005-2,5-5	0,05	0,05
3005-3,0-6	0,05	0,05

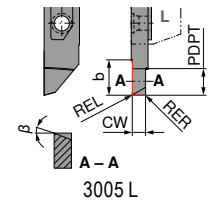
	3005 L	3005 R
72 466 ...	72 464 ...	
EUR X1	EUR X1	
29,98 518	29,98 518	
29,98 510	29,98 510	
29,98 512	29,98 512	
29,98 514	29,98 514	
29,98 516	29,98 516	
P	●	●
M	●	●
K	○	○
N	○	○
S	●	●
H	○	○
O	○	○

3005 L / 3005 R

Designation	CW mm	PDPT mm	b mm	β°
3005-0,8-2,5	0,8	2,5	8	10
3005-1,0-3,5	1,0	3,5	8	10
3005-1,5-4	1,5	4,0	8	10
3005-1,5-4 R08	1,5	4,0	8	10
3005-2,0-5	2,0	5,0	8	10
3005-2,0-5 R08	2,0	5,0	8	10
3005-2,0-5 R15	2,0	5,0	8	10
3005-2,5-6	2,5	6,0	8	10
3005-2,5-6 R08	2,5	6,0	8	10
3005-2,5-6 R15	2,5	6,0	8	10
3005-3,0-6	3,0	6,0	8	10
3005-3,0-6 R08	3,0	6,0	8	10
3005-3,0-6 R15	3,0	6,0	8	10



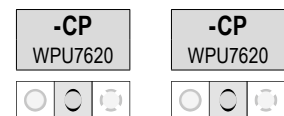
3005 R



3005 L

3005_L / 3005_R

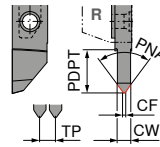
▲ for grooving and turning



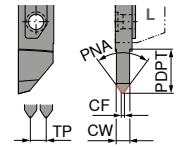
ISO designation	REL mm	RER mm	72 470 ...	72 468 ...
3005-0,8-2,5	0,00	0,00	EUR X1 31,53 508	EUR X1 31,53 508
3005-1,0-3,5	0,00	0,00	EUR X1 31,53 518	EUR X1 31,53 518
3005-1,5-4	0,00	0,00	EUR X1 31,53 510	EUR X1 31,53 528
3005-1,5-4 R08	0,08	0,08	EUR X1 33,54 519	EUR X1 33,54 519
3005-2,0-5	0,00	0,00	EUR X1 31,53 512	EUR X1 31,53 512
3005-2,0-5 R08	0,08	0,08	EUR X1 33,54 522	EUR X1 33,54 522
3005-2,0-5 R15	0,15	0,15	EUR X1 33,54 532	EUR X1 33,54 532
3005-2,5-6	0,00	0,00	EUR X1 31,53 514	EUR X1 31,53 514
3005-2,5-6 R08	0,08	0,08	EUR X1 33,54 524	EUR X1 33,54 524
3005-2,5-6 R15	0,15	0,15	EUR X1 33,54 534	EUR X1 33,54 534
3005-3,0-6	0,00	0,00	EUR X1 31,53 516	EUR X1 31,53 516
3005-3,0-6 R08	0,08	0,08	EUR X1 33,54 526	EUR X1 33,54 526
3005-3,0-6 R15	0,15	0,15	EUR X1 33,54 536	EUR X1 33,54 536
P			●	●
M			●	●
K				
N			○	○
S			●	●
H				
O			○	○

3006 L / 3006 R

Designation	TP mm	CW mm	PDPT mm	PNA °	CF mm
3006-2-6-..	0,25 - 2,0	2	6	60	0,035
3006-3-10..	0,25 - 2,0	3	10	60	0,035



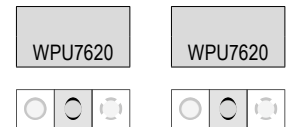
3006 R



3006 L

3006_L / 3006_R

▲ For thread turning (partial profile)



F
3006 L **F**
3006 R

ISO designation

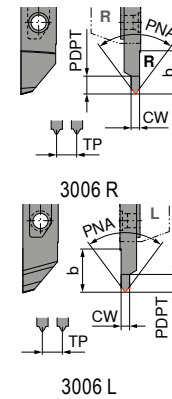
3006-2-6-60

3006-3-10-60

	72 478 ...	72 476 ...
P	●	●
M	●	●
K	●	●
N	○	○
S	●	●
H	○	○
O	○	○

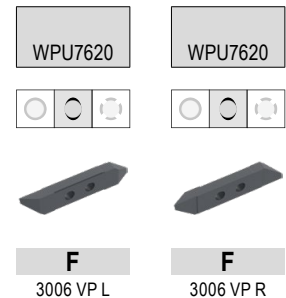
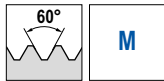
3006 VP L / 3006 VP R

Designation	TP mm	TD mm	CW mm	PDPT mm	b mm	PNA °
3006-0,15..	0,15	M0,6	0,16	0,275	8	60
3006-0,25..	0,25	M1 - M1,2	0,28	0,275	8	60
3006-0,35..	0,35	M1,6 - M1,8	0,36	0,275	8	60
3006-0,35..	0,35	M1,6 - M1,8	0,38	0,275	8	60
3006-0,4..	0,40	M2	0,44	0,275	8	60
3006-0,45..	0,45	M2,2 - M2,5	0,50	0,275	8	60
3006-0,5..	0,50	M3	0,70	1,400	8	60
3006-0,6..	0,60	M3,5	0,80	1,400	8	60
3006-0,7..	0,70	M4	0,90	1,800	8	60
3006-0,75..	0,75	M4,5	0,95	1,900	8	60
3006-0,8..	0,80	M5	1,00	2,000	8	60
3006-1,0..	1,00	M6 - M7	1,20	2,400	8	60
3006-1,25..	1,25	M8 - M9	1,45	2,900	8	60
3006-1,5..	1,50	M10 - M11	1,74	3,400	8	60
3006-1,75..	1,75	M12	1,95	3,900	8	60
3006-2,0..	2,00	M14 - M16	2,20	4,000	8	60



3006_VP_L / 3006_VP_R

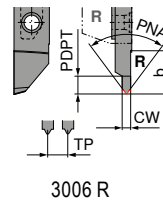
▲ For thread turning (full profile)



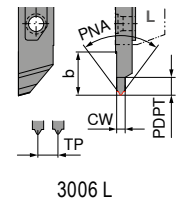
ISO designation	EUR X1	EUR X1	EUR X1
3006-0,15-10-60 VP	65,07	50800	65,07
3006-0,25-10-60 VP	65,07	510	65,07
3006-0,35-10-60 VP	65,07	512	65,07
3006-0,4-10-60 VP	65,07	514	65,07
3006-0,45-10-60 VP	65,07	516	65,07
3006-0,5-10-60 VP	45,33	518	45,33
3006-0,6-10-60 VP	45,33	520	45,33
3006-0,7-10-60 VP	45,33	522	45,33
3006-0,75-10-60 VP	45,33	524	45,33
3006-0,8-10-60 VP	45,33	526	45,33
3006-1,0-10-60 VP	45,33	528	45,33
3006-1,25-10-60 VP	45,33	530	45,33
3006-1,5-10-60 VP	45,33	532	45,33
3006-1,75-10-60 VP	45,33	534	45,33
3006-2,0-10-60 VP			45,33
P	●	●	●
M	●	●	●
K			
N	○	○	○
S	●	●	●
H			
O	○	○	○

3006 VP L / 3006 VP R

Designation	TP mm	CW mm	PDPT mm	b mm	PNA °
3006-13 U..	1,954	2,4	4,2	8	60
3006-14 U..	1,814	2,2	3,9	8	60
3006-16 U..	1,588	1,8	3,6	8	60
3006-18 U..	1,411	1,6	3,4	8	60
3006-20 U..	1,270	1,4	2,9	8	60
3006-24 U..	1,058	1,2	2,4	8	60
3006-28 U..	0,907	1,2	2,2	8	60
3006-32 U..	0,794	1,0	2,0	8	60
3006-36 U..	0,705	0,8	1,8	8	60
3006-40 U..	0,635	0,8	1,8	8	60
3006-44 U..	0,577	0,8	1,4	8	60
3006-48 U..	0,529	0,6	1,4	8	60



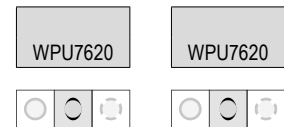
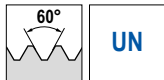
3006 R



3006 L

3006_VP_L / 3006_VP_R

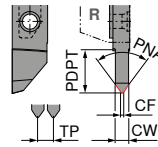
▲ for thread turning (full profile UN)



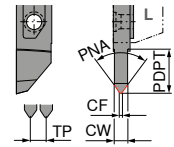
ISO designation	72 531 ...	72 530 ...
3006-13 UN 10-60 VP	EUR X1 45,33 52400	EUR X1 45,33 52400
3006-14 UN 10-60 VP	EUR X1 45,33 52200	EUR X1 45,33 52200
3006-16 UN 10-60 VP	EUR X1 45,33 52000	EUR X1 45,33 52000
3006-18 UN 10-60 VP	EUR X1 45,33 51800	EUR X1 45,33 51800
3006-20 UN 10-60 VP	EUR X1 45,33 51600	EUR X1 45,33 51600
3006-24 UN 10-60 VP	EUR X1 45,33 51400	EUR X1 45,33 51400
3006-28 UN 10-60 VP	EUR X1 45,33 51200	EUR X1 45,33 51200
3006-32 UN 10-60 VP	EUR X1 45,33 51000	EUR X1 45,33 51000
3006-36 UN 10-60 VP	EUR X1 45,33 50800	EUR X1 45,33 50800
3006-40 UN 10-60 VP	EUR X1 45,33 50600	EUR X1 45,33 50600
3006-44 UN 10-60 VP	EUR X1 45,33 50400	EUR X1 45,33 50400
3006-48 UN 10-60 VP	EUR X1 45,33 50200	EUR X1 45,33 50200
P	•	•
M	•	•
K		
N	○	○
S	•	•
H		
O	○	○

3006 L / 3006 R

Designation	TP mm	CW mm	PDPT mm	PNA °	CF mm
3006-2-6-..	0,25 - 2,0	2	6	55	0,035
3006-3-10..	0,25 - 2,0	3	10	55	0,035



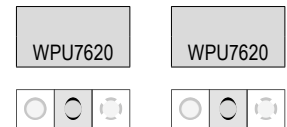
3006 R



3006 L

3006_L / 3006_R

▲ For thread turning (partial profile)



ISO designation

3006-2-6-55

3006-3-10-55

	P	M	K	N	S	H	O
3006-2-6-55	●	●	●	○	●	●	○
3006-3-10-55	●	●	●	○	●	●	○

72 527 ...

EUR
X1

29,27 50000

29,27 50200

72 526 ...

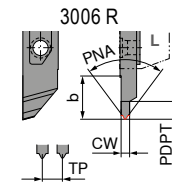
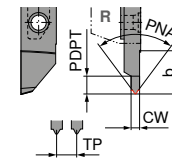
EUR
X1

29,27 50000

29,27 50200

3006 VP L / 3006 VP R

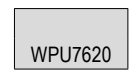
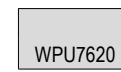
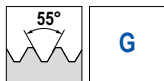
Designation	TP mm	TD mm	CW mm	PDPT mm	b mm	PNA °
3006-G11-..	2,309	1-11 - 6-11	2,54	5,0	8	55
3006-G14-..	1,814	1/2-14 - 7/8-14	2,00	4,5	8	55
3006-G19-..	1,337	1/4-19 - 3/8-19	1,48	3,3	8	55
3006-G28-..	0,907	1/8-28 - 1/16-28	1,00	2,3	8	55



3006 L

3006_VP_L / 3006_VP_R

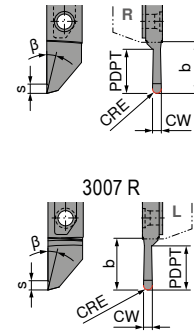
▲ For thread turning (full profile)



ISO designation	F 3006 VP L 72 529 ...		F 3006 VP R 72 528 ...	
	EUR	X1	EUR	X1
3006-G11-10-55 VP	45,33	51100	45,33	51100
3006-G14-10-55 VP	45,33	51400	45,33	51400
3006-G19-10-55 VP	45,33	51900	45,33	51900
3006-G28-10-55 VP	45,33	52800	45,33	52800
P		●		●
M		●		●
K				
N		○		○
S		●		●
H				
O		○		○

3007 L / 3007 R

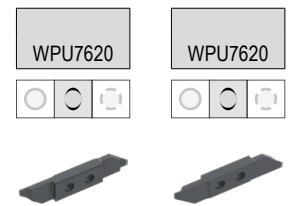
Designation	CW mm	b mm	PDPT mm	CRE mm	s mm	β°
3007-R0,25-2-..	0,5	12	2,0	0,25	2	6
3007-R0,5-2,5-..	1,0	12	2,5	0,50	2	6
3007-R0,6-2,5-..	1,2	12	2,5	0,60	2	6
3007-R0,75-3-..	1,5	12	3,0	0,75	2	6
3007-R0,8-3-1-..	1,6	12	3,0	0,80	2	6
3007-R1,0-10	2,0	12	10,0	1,00	2	6
3007-R1,5-10	3,0	12	10,0	1,50	2	6
3007-R1,5-16	3,0	17	16,0	1,50	2	6



3007 R

3007_L / 3007_R

▲ for radius turning



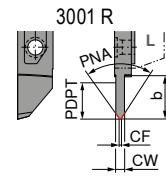
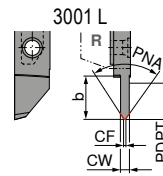
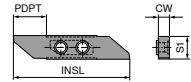
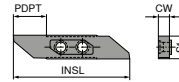
F 3007 L F 3007 R

72 482 ... 72 480 ...

ISO designation	EUR X1		EUR X1	
3007-R0,25-2-10	29,27	510	29,27	510
3007-R0,5-2,5-10	29,27	512	29,27	512
3007-R0,6-2,5-10	29,27	514	29,27	514
3007-R0,75-3-10	29,27	516	29,27	516
3007-R0,8-3-10	29,27	518	29,27	518
3007-R1,0-10	29,27	520	29,27	520
3007-R1,5-10	29,27	522	29,27	522
3007-R1,5-16	34,81	524	34,81	524
P		●		●
M		●		●
K				
N		○		○
S		●		●
H				
O		○		○

3012 L / 3012 R / 3001 L / 3001 R

Designation	CW mm	PDPT mm	b mm	PNA °	CF mm
3012-2-6-..	2,0	2	10	60	0,035
3012-2-10-..	2,0	10	12	90	0,02
3001-3,5-..	3,5	11	-	-	-

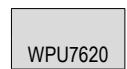
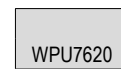


3012 R

3012 L

3012_L / 3012_R

▲ for chamfering



72 486 ...

72 484 ...

EUR
X1
34,10 51000
34,10 51200

EUR
X1
34,10 51000
34,10 51200

ISO designation

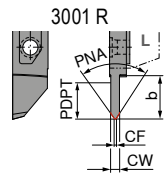
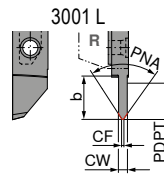
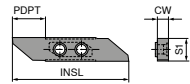
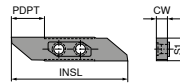
3012-2-6-60

3012-2-10-45

P	•	•
M	•	•
K		
N	○	○
S	•	•
H		
O	○	○

3012 L / 3012 R / 3001 L / 3001 R

Designation	CW mm	PDPT mm	S1 mm	INSL mm
3001-3,5-..	3,5	11	8	40,5
3001-3,6-..	3,6	17	8	51,5
3012-2-10-..	2,0	10	8	40,0
3012-2-6-..	2,0	2	8	40,0

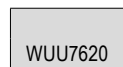
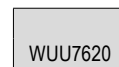


3012 R

3012 L

3001_L / 3001_R

▲ Blank



3001 L

3001 R

72 414 ...

72 412 ...

EUR
X1

EUR
X1

ISO designation

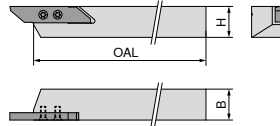
3001-3,5-10

3001-3,6-17

25,22 11000
26,69 13000

25,22 11000
26,69 13000

VertiClamp – Standard tool holder



Illustrations show right-hand versions

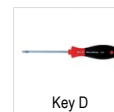


ISO designation	H mm	B mm	OAL mm	Insert
3000-08x100 .	8	8	100	30..
3000-10x100 .	10	10	100	30..
3000-12x100 .	12	12	100	30..
3000-16x125 .	16	16	125	30..
3000-20x125 .	20	20	125	30..
3000-25x150 .	25	25	150	30..

Left-hand		Right-hand	
72 302 ...		72 300 ...	
EUR		EUR	
X0		X0	
85,86	008	85,86	008
86,11	010	86,11	010
86,25	012	86,25	012
103,40	016	103,40	016
117,20	020	117,20	020
160,90	025		

Spare parts
for Article no.

72 300 008 / 72 302 008	T08	EUR	110	EUR	004
72 300 010 / 72 302 010	T08	Y7	110	2A	005
72 300 012 / 72 302 012	T08	10,05	110	4,87	005
72 300 016 / 72 302 016	T08	10,05	110	4,87	005
72 300 020 / 72 302 020	T08	10,05	110	4,87	005
72 302 025	T08	10,05	110	4,87	005



Key D

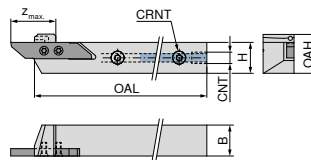


Clamping screw

VertiClamp – Standard holder with thro' coolant

Scope of supply:

Holder without coolant connection



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	OAH mm	z _{max} mm	CRNT	CNT	Insert
3000-08x100 .IC	8	12	100	12,2	26	M5	M5	30..
3000-10x100 .IC	10	12	100	14,0	26	M5	M5	30..
3000-12x100 .IC	12	12	100	16,0	26	M5	M5	30..
3000-16x100 .IC	16	16	125	20,0	26	M5	G1/8"	30..
3000-20x100 .IC	20	20	125	24,0	26	M5	G1/8"	30..
3000-25x100 .IC	25	25	125	29,0	26	M5	G1/8"	30..

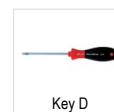
Left-hand		Right-hand	
72 311 ...		72 310 ...	
EUR		EUR	
X0		X0	
259,60	008	259,60	008
214,90	010	214,90	010
214,90	012	214,90	012
228,50	016	228,50	016
233,80	020	233,80	020
263,60	025	263,60	025



Cylindrical screw



Cylindrical screw



Key D

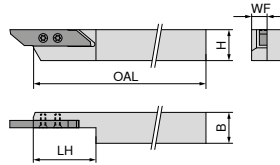


Clamping screw

Spare parts
for Article no.

72 310 008 / 72 311 008	M5x4	EUR	110	EUR	004
72 310 010 / 72 311 010	M5x4	X0	110	2A	005
72 310 012 / 72 311 012	M5x4	6,85	110	4,87	005
72 310 016 / 72 311 016	M5x4	6,85	110	4,87	005
72 310 020 / 72 311 020	M5x4	6,85	110	4,87	005
72 310 025 / 72 311 025	M5x4	6,85	110	4,87	005

VertiClamp – Offset tool holder



Illustrations show right-hand versions

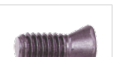


ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	Insert
3000-10x100 .A	10	10	100	37	8	30..
3000-12x100 .A	12	12	100	37	8	30..
3000-16x125 .A	16	16	125	37	8	30..

Left-hand	Right-hand
72 309 ...	72 308 ...
EUR X0	EUR X0
94,36 006	94,36 006
94,36 008	94,36 008
114,40 010	114,40 010



Key D

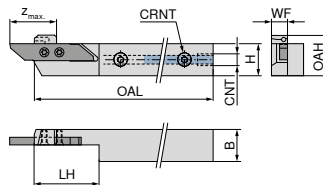


Clamping screw

Spare parts for Article no.

72 308 006 / 72 309 006	T08	EUR Y7	110	4,87	004
72 308 008 / 72 309 008	T08	EUR Y7	110	4,87	004
72 308 010 / 72 309 010	T08	EUR Y7	110	4,87	004

VertiClamp – Offset holder with thro' coolant



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	WF mm	LH mm	OAH mm	Z _{max} mm	CNT	CRNT	Insert
3000-16x125 .A IC	16	16	125	8	37	20	27	G1/8"	M5	30..

Left-hand	Right-hand
72 315 ...	72 314 ...
EUR X0	EUR X0
228,50 016	228,50 016



Cylindrical screw



Cylindrical screw



Key D

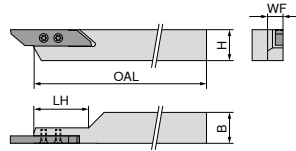


Clamping screw

Spare parts for Article no.

72 314 016 / 72 315 016	G1/8"	EUR X0	21,72 010	M5x4	EUR X0	6,85 011	T08	EUR Y7	110	4,87	004
-------------------------	-------	--------	-----------	------	--------	----------	-----	--------	-----	------	-----

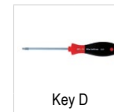
VertiClamp – Offset holder with offset insert seat



Illustrations show right-hand versions



ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	Insert	Left-hand		Right-hand	
							72 317 ...		72 316 ...	
3000-10x100 .AV	10	10	100	28	8	30..	EUR X0		EUR X0	
3000-12x100 .AV	12	12	100	28	8	30..	94,36	010	94,36	010
3000-16x125 .AV	16	16	125	28	8	30..	94,36	012	114,40	016
							114,40	016		



Key D

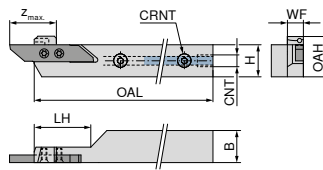


Clamping screw

Spare parts for Article no.

72 316 010 / 72 317 010	T08	EUR Y7	110	EUR 2A	004
72 317 012	T08	10,05	110	4,87	004
72 316 016 / 72 317 016	T08	10,05	110	4,87	004

VertiClamp – Offset holder with offset insert seat and thro' coolant



Illustrations show right-hand versions



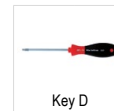
ISO designation	H mm	B mm	OAL mm	OAH mm	z_max mm	CRNT	CNT	Insert	Left-hand		Right-hand	
									72 313 ...		72 312 ...	
3000-16x125 .AV IC	16	16	125	20	27	M5	G1/8"	30..	EUR X0		EUR X0	
									228,50	016	228,50	016



Cylindrical screw



Cylindrical screw



Key D

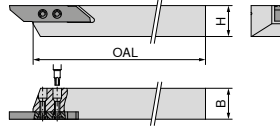


Clamping screw

Spare parts for Article no.

72 312 016 / 72 313 016	G1/8"	EUR X0	21,72	010	M5x4	EUR X0	6,85	011	T08	EUR Y7	110	EUR 2A	4,87	004
-------------------------	-------	-----------	-------	-----	------	-----------	------	-----	-----	-----------	-----	-----------	------	-----

VertiClamp – Combi tool holder



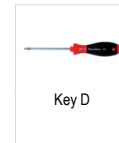
Illustrations show right-hand versions

ISO designation	H mm	B mm	OAL mm	Insert
3000-08x100 .C	8	8	100	30..
3000-10x100 .C	10	10	100	30..
3000-12x100 .C	12	12	100	30..
3000-16x125 .C	16	16	125	30..
3000-20x125 .C	20	20	125	30..

Left-hand	Right-hand
72 306 ...	72 304 ...
EUR X0	EUR X0
98,95 008	98,95 008
99,10 010	99,10 010
98,95 012	98,95 012
119,00 016	119,00 016
134,40 020	134,40 020

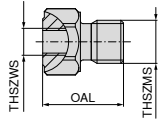
Spare parts for Article no.

		80 950 ...	72 950 ...	72 950 ...
		EUR Y7	EUR 2A	EUR 2A
72 304 008 / 72 306 008	T08	10,05 110	4,87 003	5,04 008
72 304 010 / 72 306 010	T08	10,05 110	4,87 003	5,04 008
72 304 012 / 72 306 012	T08	10,05 110	4,87 003	5,04 008
72 304 016 / 72 306 016	T08	10,05 110	4,87 003	5,04 008
72 304 020 / 72 306 020	T08	10,05 110	4,87 003	5,04 008



Reducer fitting

- ▲ Max. 200 bar/2900 psi
- ▲ No sealing ring required



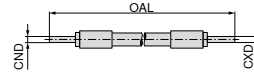
72 301 ...			
Designation	THSZWS	THSZMS	OAL mm
RV.100.M6-M5	M5	M6	18
RV.100.M8x1-M5	M5	M8x1	15
RV.100.M10x1-M5	M5	M10x1	15
RV.100.G1/8-M5	M5	G1/8"	15

EUR
X0

40,27 002
40,27 008
40,27 007
40,27 006

Hose (connecting piece/connecting piece)

- ▲ Max. 200 bar/2900 psi



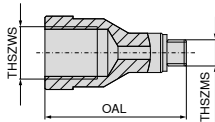
72 305 ...			
Designation	CND mm	CXD mm	OAL mm
HDKS.150.4-4	4	4	150
HDKS.200.4-4	4	4	200
HDKS.300.4-4	4	4	300
HDKS.500.4-4	4	4	500

EUR
X0

58,65 003
59,46 014
59,80 025
61,66 037

Reducer fitting

- ▲ Max. 200 bar/2900 psi
- ▲ Includes sealing ring



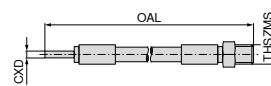
72 301 ...			
Designation	THSZWS	THSZMS	OAL mm
RV.100.M5-M6	M6	M5	15
RV.100.M5-M8x1	M8x1	M5	23
RV.100.M5-M10x1	M10x1	M5	27
RV.100.M5-G1/8	G1/8"	M5	27

EUR
X0

40,27 001
40,27 003
40,27 005
40,27 004

Hose (connecting piece/thread)

- ▲ Max. 200 bar/2900 psi
- ▲ No sealing ring required



72 305 ...			
Designation	THSZMS	CXD mm	OAL mm
HDKS.150.M5-4	M5	4	150
HDKS.200.M5-4	M5	4	200
HDKS.300.M5-4	M5	4	300
HDKS.500.M5-4	M5	4	500

EUR
X0

63,83 010
64,48 021
64,56 033
66,82 045



Sealing ring

Spare parts
for Article no.

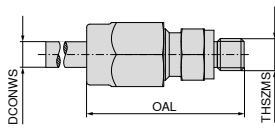
72 950 ...	
Designation	EUR X0
72 301 001	1,67 009
72 301 003	1,67 009
72 301 005	1,67 009
72 301 004	1,67 009



Coolant connections are supplied-to-order items

Straight fitting

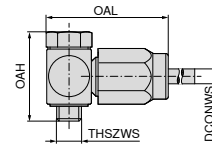
▲ Max. 200 bar/2900 psi



72 307 ...				
Designation	DCONWS mm	THSZMS	OAL mm	EUR X0
KA.M5-4	4	M5	27	41,11 009
KA.G1/8-4	4	G1/8"	32	35,62 003

Swivel fitting

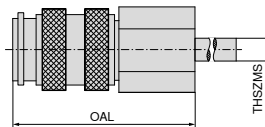
▲ Max. 200 bar/2900 psi



72 307 ...				
Designation	DCONWS mm	OAH mm	THSZMS	OAL mm
KA.SV.M5-4	4	21	M5	28
KA.SV.G1/8-4	4	30	G1/8"	37

Quick connection (coupling)

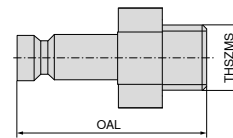
▲ Max. 200 bar/2900 psi



72 319 ...			
Designation	THSZMS	OAL mm	EUR X0
KIG.M5	M5	26	175,70 001

Quick connection (connector)

▲ Max. 200 bar/2900 psi
▲ No sealing ring required



72 320 ...			
Designation	THSZMS	OAL mm	EUR X0
SAG.M5	M5	20	60,44 001

Material examples for cutting data tables

	Material sub-group	Index	Composition / Structure / Heat treatment	Tensile strength N/mm ² / HB / HRC	Material number	Material designation	Material number	Material designation
P	Unalloyed steel	P.1.1	< 0,15 % C	Annealed	420 N/mm ² / 125 HB	1.0401	C15	1.1141 Ck15
		P.1.2	< 0,45 % C	Annealed	640 N/mm ² / 190 HB	1.1191	C45E	1.0718 9SMnPb28
		P.1.3	< 0,45 % C	Tempered	840 N/mm ² / 250 HB	1.1191	C45E	1.0535 C55
		P.1.4	< 0,75 % C	Annealed	910 N/mm ² / 270 HB	1.1223	C60R	1.0535 C55
		P.1.5	< 0,75 % C	Tempered	1010 N/mm ² / 300 HB	1.1223	C60R	1.0727 45S20
	Low-alloy steel	P.2.1		Annealed	610 N/mm ² / 180 HB	1.7131	16MnCr5	1.6587 17CrNiMo6
		P.2.2		Tempered	930 N/mm ² / 275 HB	1.7131	16MnCr5	1.6587 17CrNiMo6
		P.2.3		Tempered	1010 N/mm ² / 300 HB	1.7225	42CrMo4	1.3505 100Cr6
		P.2.4		Tempered	1200 N/mm ² / 375 HB	1.7225	42CrMo4	1.3505 100Cr6
	High-alloy steel and high-alloy tool steel	P.3.1		Annealed	680 N/mm ² / 200 HB	1.4021	X20Cr13	1.4034 X46Cr13
		P.3.2		Hardened and tempered	1100 N/mm ² / 300 HB	1.2343	X38CrMoV5-1	1.4034 X46Cr13
		P.3.3		Hardened and tempered	1300 N/mm ² / 400 HB	1.2343	X38CrMoV5-1	1.4034 X46Cr13
	Stainless steel	P.4.1	Ferritic / martensitic	Annealed	680 N/mm ² / 200 HB	1.4016	X6Cr17	1.2316 X36CrMo16
		P.4.2	Martensitic	Tempered	1010 N/mm ² / 300 HB	1.4112	X90CrMoV18	1.2316 X36CrMo16
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic	Quenched	610 N/mm ² / 180 HB	1.4301	X5CrNi18-10	1.4571 X6CrNiMoTi17-12-2
		M.2.1	Austenitic	Tempered	300 HB	1.4841	X15CrNiSi25-21	1.4539 X1NiCrMoCu25-20-5
		M.3.1	Austenitic / ferritic (Duplex)		780 N/mm ² / 230 HB	1.4462	X2CrNiMoN22-5-3	1.4501 X2CrNiMoCuWN25-7-4
K	Grey cast iron	K.1.1	Pearlitic / ferritic		350 N/mm ² / 180 HB	0.6010	GG-10	0.6025 GG-25
		K.1.2	Pearlitic (martensitic)		500 N/mm ² / 260 HB	0.6030	GG-30	0.6045 GG-45
	Spherulitic graphite cast iron	K.2.1	Ferritic		540 N/mm ² / 160 HB	0.7040	GGG-40	0.7060 GGG-60
		K.2.2	Pearlitic		845 N/mm ² / 250 HB	0.7070	GGG-70	0.7080 GGG-80
	Malleable iron	K.3.1	Ferritic		440 N/mm ² / 130 HB	0.8035	GTW-35-04	0.8045 GTW-45
		K.3.2	Pearlitic		780 N/mm ² / 230 HB	0.8165	GTS-65-02	0.8170 GTS-70-02
N	Aluminium wrought alloy	N.1.1	Non-hardenable		60 HB	3.0255	Al99,5	3.3315 AlMg1
		N.1.2	Hardenable	Age-hardened	340 N/mm ² / 100 HB	3.1355	AlCuMg2	3.2315 AlMgSi1
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable		250 N/mm ² / 75 HB	3.2581	G-AlSi12	3.2163 G-AlSi9Cu3
		N.2.2	≤ 12 % Si, hardenable	Age-hardened	300 N/mm ² / 90 HB	3.2134	G-AlSi5Cu1Mg	3.2373 G-AlSi9Mg
		N.2.3	> 12 % Si, non-hardenable		440 N/mm ² / 130 HB		G-AlSi17Cu4Mg	G-AlSi18CuNiMg
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %		375 N/mm ² / 110 HB	2.0380	CuZn39Pb2 (Ms58)	2.0410 CuZn44Pb2
		N.3.2	CuZn, CuSnZn		300 N/mm ² / 90 HB	2.0331	CuZn15	2.4070 CuZn28Sn1As
		N.3.3	CuSn, lead-free copper and electrolytic copper		340 N/mm ² / 100 HB	2.0060	E-Cu57	2.0590 CuZn40Fe
	Magnesium alloys	N.4.1	Magnesium and magnesium alloys		70 HB	3.5612	MgAl6Zn	3.5312 MgAl3Zn
S	Heat-resistant alloys	S.1.1	Fe - basis	Annealed	680 N/mm ² / 200 HB	1.4864	X12NiCrSi 36-16	1.4865 G-X40NiCrSi38-18
		S.1.2		Age-hardened	950 N/mm ² / 280 HB	1.4980	X6NiCrTiMoVB25-15-2	1.4876 X10NiCrAlTi32-20
		S.2.1		Annealed	840 N/mm ² / 250 HB	2.4631	NiCr20TiAl (Nimonic80A)	3.4856 NiCr22Mo9Nb
		S.2.2	Ni or Co basis	Age-hardened	1180 N/mm ² / 350 HB	2.4668	NiCr19Nb5Mo3 (Inconel 718)	2.4955 NiFe25Cr20NbTi
		S.2.3		Cast	1080 N/mm ² / 320 HB	2.4765	CoCr20W15Ni	1.3401 G-X120Mn12
	Titanium alloys	S.3.1	Pure titanium		400 N/mm ²	3.7025	Ti99,8	3.7034 Ti99,7
		S.3.2	Alpha + beta alloys	Age-hardened	1050 N/mm ² / 320 HB	3.7165	TiAl6V4	Ti-6246 Ti-6Al-2Sn-4Zr-6Mo
		S.3.3	Beta alloys		1400 N/mm ² / 410 HB	Ti555.3	Ti-5Al-5V-5Mo-3Cr	R56410 Ti-10V-2Fe-3Al
H	Hardened steel	H.1.1		Hardened and tempered	46–55 HRC			
		H.1.2		Hardened and tempered	56–60 HRC			
		H.1.3		Hardened and tempered	61–65 HRC			
		H.1.4		Hardened and tempered	66–70 HRC			
	Chilled iron	H.2.1		Cast	400 HB			
	Hardened cast iron	H.3.1		Hardened and tempered	55 HRC			
O	Non-metal materials	O.1.1	Plastics, duroplastic		≤ 150 N/mm ²			
		O.1.2	Plastics, thermoplastic		≤ 100 N/mm ²			
		O.2.1	Aramid fibre-reinforced		≤ 1000 N/mm ²			
		O.2.2	Glass/carbon-fibre reinforced		≤ 1000 N/mm ²			
		O.3.1	Graphite					

* Tensile strength

Cutting data standard values – VertiClamp system

Index	Parting				Turning				
	WPU7620	Fine	Medium	Rough	WPU7620		Fine	Medium	Rough
	v_c in m/min	f	f	f	v_c in m/min	a_p in mm	f	f	f
P.1.1	80	0,005-0,080	0,02-0,15	0,10-0,25	80	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.1.2	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.1.3	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.1.4	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.1.5	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.2.1	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.2.2	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.2.3	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.2.4	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.3.1	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.3.2	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.3.3	75	0,005-0,080	0,02-0,15	0,10-0,25	75	< 3	0,005-0,080	0,02-0,15	0,10-0,25
P.4.1	75	0,005-0,080	0,01-0,12	0,10-0,20	75	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
P.4.2	75	0,005-0,080	0,01-0,12	0,10-0,20	75	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
M.1.1	55	0,005-0,080	0,01-0,12	0,10-0,20	55	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
M.2.1	55	0,005-0,080	0,01-0,12	0,10-0,20	55	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
M.3.1	55	0,005-0,080	0,01-0,12	0,10-0,20	55	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
K.1.1	70	0,005-0,080	0,01-0,12	0,10-0,20	70	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
K.1.2	70	0,005-0,080	0,01-0,12	0,10-0,20	70	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
K.2.1	70	0,005-0,080	0,01-0,12	0,10-0,20	70	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
K.2.2	70	0,005-0,080	0,01-0,12	0,10-0,20	70	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
K.3.1	70	0,005-0,080	0,01-0,12	0,10-0,20	70	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
K.3.2	70	0,005-0,080	0,01-0,12	0,10-0,20	70	< 2,5	0,005-0,080	0,01-0,12	0,10-0,20
N.1.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.1.2	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.2.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.2.2	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.2.3	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.3.1	180	0,050-0,200	0,02-0,25	0,10-0,40	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.3.2	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.3.3	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
N.4.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	< 3	0,050-0,200	0,02-0,25	0,10-0,30
S.1.1	45	0,005-0,060	0,02-0,08	0,10-0,25	45	< 2,5	0,005-0,060	0,02-0,08	0,10-0,25
S.1.2	45	0,005-0,060	0,02-0,08	0,10-0,25	45	< 2,5	0,005-0,060	0,02-0,08	0,10-0,25
S.2.1	40	0,005-0,060	0,02-0,08	0,10-0,25	40	< 2,5	0,005-0,060	0,02-0,08	0,10-0,25
S.2.2	40	0,005-0,060	0,02-0,08	0,10-0,25	40	< 2,5	0,005-0,060	0,02-0,08	0,10-0,25
S.2.3									
S.3.1									
S.3.2	45	0,005-0,060	0,02-0,08	0,10-0,25	45	< 2,5	0,005-0,060	0,02-0,08	0,10-0,25
S.3.3	45	0,005-0,060	0,02-0,08	0,10-0,25	45	< 2,5	0,005-0,060	0,02-0,08	0,10-0,25
H.1.1									
H.1.2									
H.1.3									
H.1.4									
H.2.1									
H.3.1									
O.1.1	220	0,050-0,200	0,02-0,25	0,10-0,30	220	< 3	0,050-0,200	0,02-0,25	0,10-0,30
O.1.2	220	0,050-0,200	0,02-0,25	0,10-0,30	220	< 3	0,050-0,200	0,02-0,25	0,10-0,30
O.2.1									
O.2.2									
O.3.1									



The cutting data depends extremely on the external conditions, e.g. stability of the tool and tool clamping, material and machine type. The indicated values are possible cutting data which have to be increased or reduced according to the application conditions.

Cutting data standard values – VertiClamp and TriClamp system

Index	VertiClamp system				TriClamp system					
	Grooving				Turning					
	WPU7620	Fine	Medium	Rough	WUU7610	WPU7610	WPU7620	WUU7620		
	v_c in m/min	f	f	f	v_c in m/min				f	$a_{p\max}$ in mm
P.1.1	80	0,005-0,080	0,02-0,15	0,10-0,25	85	110	115	80	0,005-0,080	1,5
P.1.2	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.1.3	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.1.4	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.1.5	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.2.1	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.2.2	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.2.3	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.2.4	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.3.1	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.3.2	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.3.3	75	0,005-0,080	0,02-0,15	0,10-0,25	50	65	70	40	0,005-0,080	1,5
P.4.1	75	0,005-0,080	0,01-0,12	0,10-0,20	50	65	70	40	0,005-0,080	1,5
P.4.2	75	0,005-0,080	0,01-0,12	0,10-0,20	50	65	70	40	0,005-0,080	1,5
M.1.1	55	0,005-0,080	0,01-0,12	0,10-0,20		55	65		0,005-0,080	1,5
M.2.1	55	0,005-0,080	0,01-0,12	0,10-0,20		40	45		0,005-0,080	1,5
M.3.1	55	0,005-0,080	0,01-0,12	0,10-0,20		55	65		0,005-0,080	1,5
K.1.1	70	0,005-0,080	0,01-0,12	0,10-0,20		110	115		0,005-0,080	1,5
K.1.2	70	0,005-0,080	0,01-0,12	0,10-0,20		110	115		0,005-0,080	1,5
K.2.1	70	0,005-0,080	0,01-0,12	0,10-0,20		110	115		0,005-0,080	1,5
K.2.2	70	0,005-0,080	0,01-0,12	0,10-0,20		110	115		0,005-0,080	1,5
K.3.1	70	0,005-0,080	0,01-0,12	0,10-0,20		110	115		0,005-0,080	1,5
K.3.2	70	0,005-0,080	0,01-0,12	0,10-0,20		110	115		0,005-0,080	1,5
N.1.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.1.2	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.2.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.2.2	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.2.3	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.3.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.3.2	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.3.3	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
N.4.1	180	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	1,5
S.1.1	45	0,005-0,060	0,02-0,08	0,10-0,25	40	45	45	40	0,005-0,060	1,0
S.1.2	45	0,005-0,060	0,02-0,08	0,10-0,25	40	45	45	40	0,005-0,060	1,0
S.2.1	40	0,005-0,060	0,02-0,08	0,10-0,25	35	40	40	35	0,005-0,060	1,0
S.2.2	40	0,005-0,060	0,02-0,08	0,10-0,25	35	40	40	35	0,005-0,060	1,0
S.2.3										
S.3.1										
S.3.2	45	0,005-0,060	0,02-0,08	0,10-0,25	35	45	45	40	0,005-0,060	1,0
S.3.3	45	0,005-0,060	0,02-0,08	0,10-0,25	35	45	45	40	0,005-0,060	1,0
H.1.1										
H.1.2										
H.1.3										
H.1.4										
H.2.1										
H.3.1										
O.1.1	220	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	2,0
O.1.2	220	0,050-0,200	0,02-0,25	0,10-0,30	180	200	220	180	0,050-0,200	2,0
O.2.1										
O.2.2										
O.3.1										



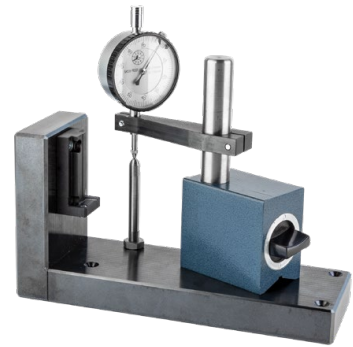
The cutting data depends extremely on the external conditions, e.g. stability of the tool and tool clamping, material and machine type. The indicated values are possible cutting data which have to be increased or reduced according to the application conditions.

Setting Device

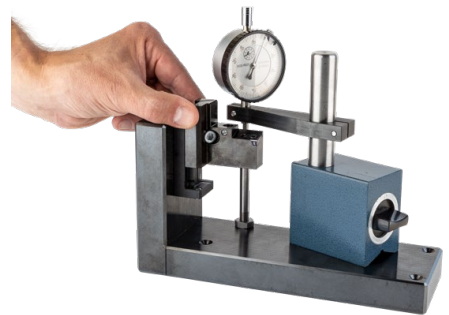
The adjustment device is profitable if the tool system is expanded with several tool holder blocks on several machines. The tool system can be preset so that holders on every machine have a suitable centre height in relation to the turning centre of the machine.

Setting Device

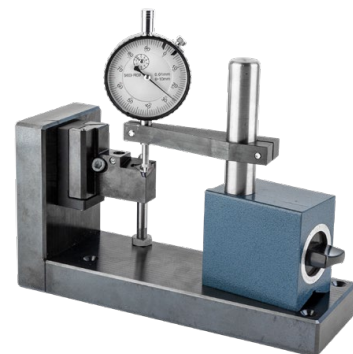
1. Zero the dial gauge on the surface of the measuring stick.



2. Place tool holder block on the device and gently tighten the clamping screw until the holder sits on the device free of play. Ideally, set the centre height slightly below the centre, so that the tool holder block is pushed upward when the height is set.



3. Carefully place the dial gauge on the tip of the tool's cutting edge.

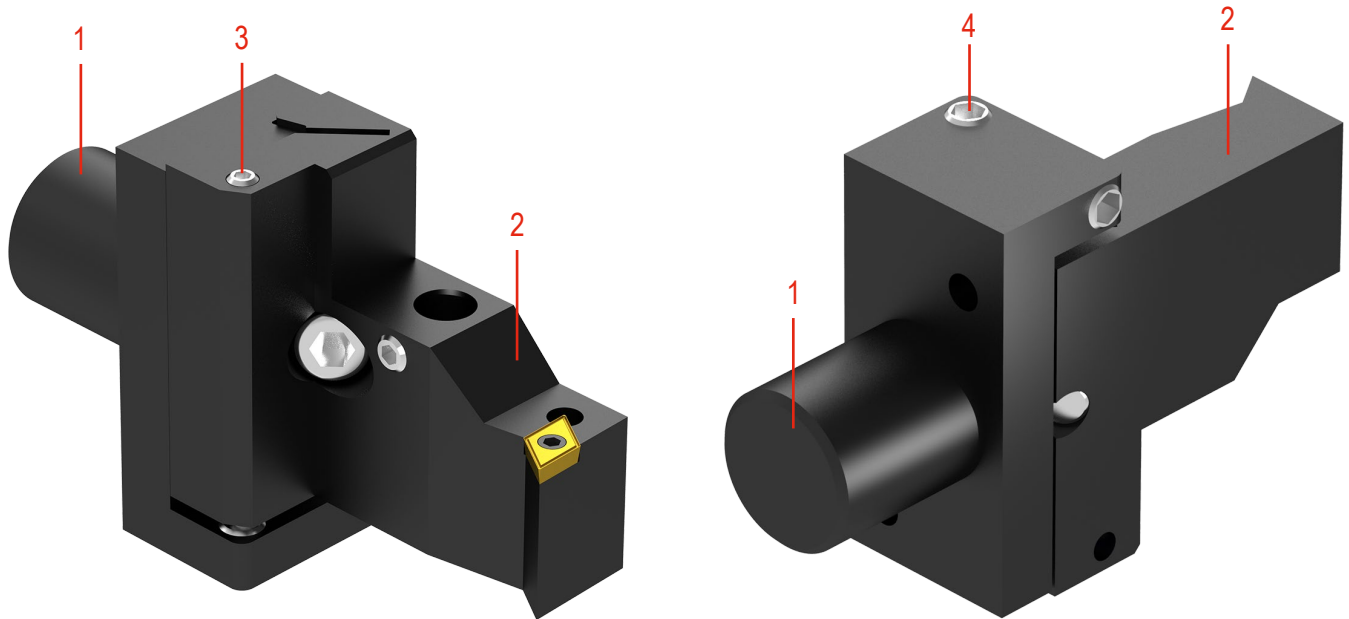


4. Adjust the height adjustment screw until the dial gauge is set to zero.



Procedure when retrofitting on the CT tool system

1. Screw all base holders (1) into the machine.
2. Clamp the height-adjustable screw (4) of the individual base holders (1) and set to the same height using the dial gauge.
3. Clamp a tool holder block (2) onto any base holder (1) and set precisely on the turning centre using the height-adjustable screw (3) of the tool holder block (2).
4. Remove the tool holder block (2) from the machine and clamp it on the height presetting device.
5. Set the dial gauge on the tool to zero and adjust the measuring pin on the presetting device.
6. Each additional tool holder block (2) is set to zero once on the presetting device using the measuring pin and dial gauge.



If several tool holders are arranged side-by-side, you can quickly and reliably fix them at the same height using height adjustment screws (3) and (4).

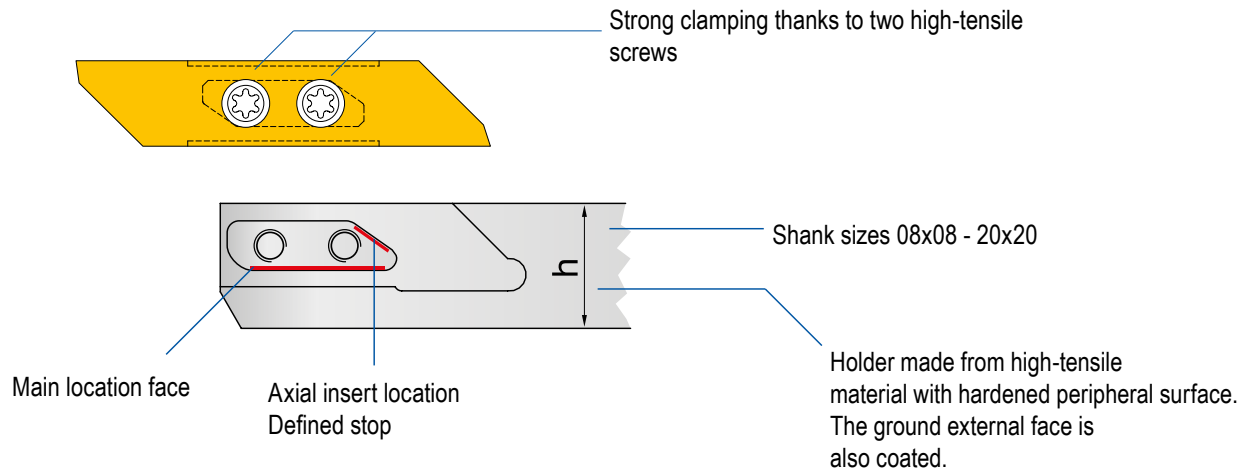
The same tool holders (2) can be used for multiple machines without presetting them again individually. However, the base holders (1) of the other machines must be adjusted to one another.

This is done as follows:

1. Screw all base holders into machine 2.
2. Clamp a preset tool block holder from machine 1 on any base holder in machine 2 and adjust the turning centre precisely using the height-adjustment screw of the base holder.
3. Set all other height-adjustable screws on the rest of the base holders in machine 2 to the same height using the dial gauge. The preset tool block holders can thus be used on each tool station of several machines without readjustment.

VertiClamp

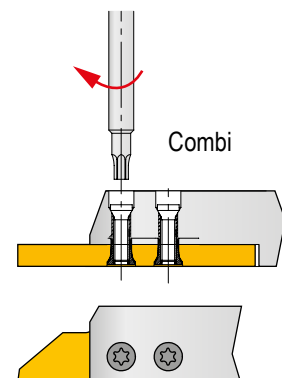
Features



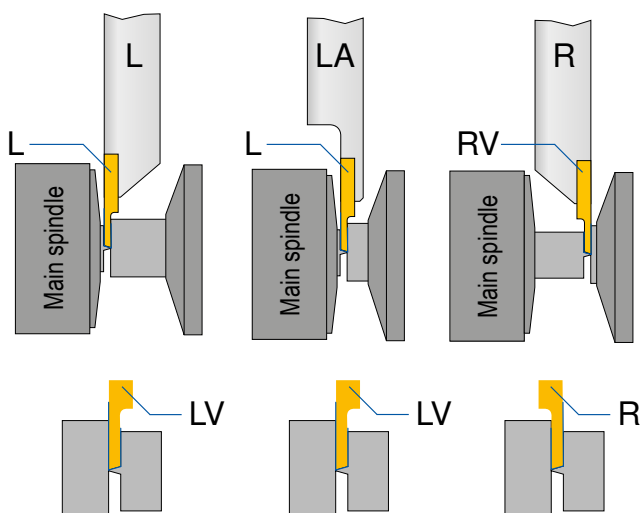
Advantages

- ▲ The connection between the indexable insert and holder guarantees optimum fixation
- ▲ The second cutting edge can always be used, even if the first cutting edge is broken off
- ▲ Shearing forces do not act on the screws
- ▲ For all cutting edge forms, the overhang of the cutting edge from the tool holder is identical
- ▲ Vertical insert orientation maintained thanks to large seating surface
- ▲ The indexable insert seat is completely protected against swarf
- ▲ Inserts are clamped through two high-tensile screws and a tapered axial stop of 30° in all cutting directions

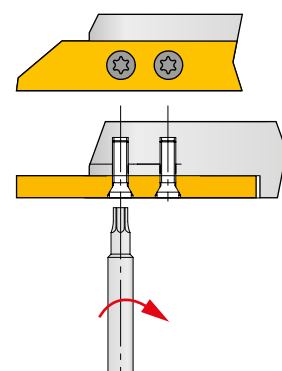
Clamping of cutting edge
With combi holders



Turning away from the spindle



Clamping of cutting edge
With standard holders

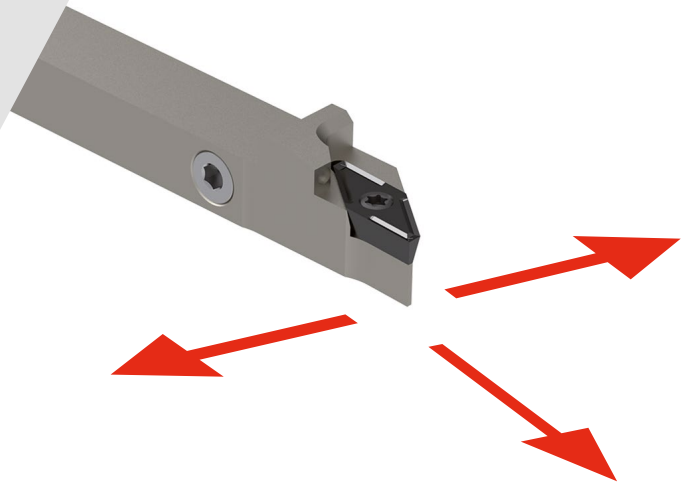


TriClamp

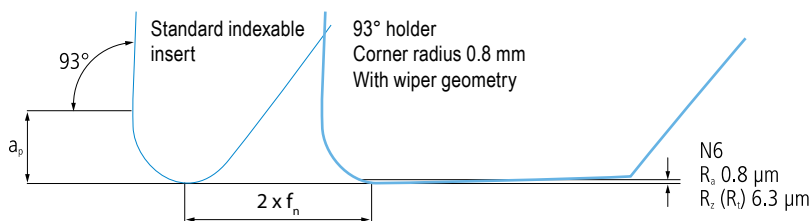
The feed rate can be doubled through the use of the TriClamp system with wiper geometry and 93° holder. This in turn allows machining times to be reduced considerably with no impact on quality, or the surface quality can be improved whilst retaining the same machining time. The ability to machine in a radial direction and in both axial directions makes this system particularly flexible.

Advantages

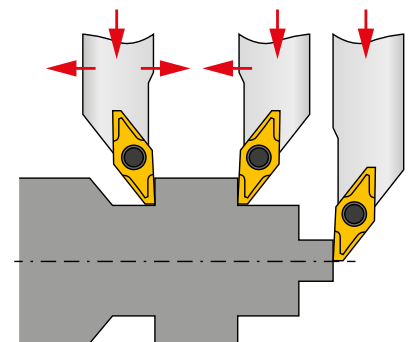
- ▲ Expansion of the ISO range
- ▲ Turning in three directions
- ▲ All cutting edges can easily be replaced
- ▲ Sharp positive cutting edges with 11° clearance angle
- ▲ Small corner radii 0.08 mm and 0.2 mm
- ▲ Perfect chip control
- ▲ Special holders for sliding head lathes (Cross-sections 8x8 mm to 16x16 mm)



Smoothing geometry in detail:

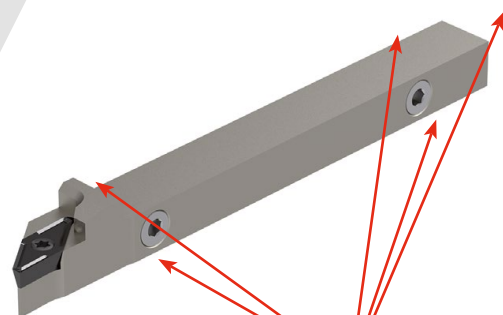


Applications:



Tool holders with a thro' coolant supply increase the performance of indexable inserts and improve the quality of components, particularly in the case of difficult-to-machine materials such as stainless steels and super alloys.

- ▲ All IC holders have five coolant supply options
- ▲ Made from highly tempered steel
- ▲ Precise coolant jet on the cutting edge
- ▲ Can be used at any coolant pressure



Coolant connection options

Types of wear

Wear on clearance face



Abrasion on flank: normal wear after a certain machining time

Cause

- ▲ Too high cutting speed
- ▲ Carbide grade with too low wear resistance
- ▲ Feed rate not adapted

Remedy

- ▲ Reduce cutting speed
- ▲ Use grade with higher wear resistance
- ▲ Adapt feed rate to cutting speed and cutting depth

Edge chipping



Through excessive mechanical stress at the cutting edge fracture and chipping can occur.

Cause

- ▲ Grade with too high wear resistance
- ▲ Vibration
- ▲ Too high cutting speed and / or feed rate
- ▲ Interrupted cut
- ▲ Swarf damage

Remedy

- ▲ Use tougher grade
- ▲ Use negative cutting edge geometry with chip groove
- ▲ Improve stability (tool, work piece)

Cratering



The hot chip which is being evacuated causes cratering at the rake face of the cutting edge.

Cause

- ▲ Too high cutting speed and / or feed rate
- ▲ Rake angle too shallow
- ▲ Grade with insufficient wear resistance
- ▲ Insufficient coolant supply

Remedy

- ▲ Reduce cutting speed and / or feed rate
- ▲ Use grade with higher wear resistance
- ▲ Increase coolant quantity and / or pressure, optimise coolant supply
- ▲ Use grade which is more resistant to cratering

Plastic deformation



High machining temperature and simultaneous mechanical stress can lead to plastic deformation.

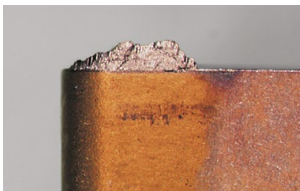
Cause

- ▲ Too high machining temperature resulting in softening of substrate
- ▲ Damage of coating
- ▲ Grade with insufficient wear resistance
- ▲ Insufficient coolant supply

Remedy

- ▲ Reduce cutting speed
- ▲ Use grade with higher wear resistance
- ▲ Provide cooling

Built-up edge



Built-up material / edges occur when the chip is not evacuated properly due to insufficient cutting temperature.

Cause

- ▲ Insufficient cutting speed
- ▲ Rake angle too shallow
- ▲ Wrong cutting material
- ▲ Lack of cooling / lubrication

Remedy

- ▲ Increase cutting speed
- ▲ Increase rake angle
- ▲ Apply TiN coating
- ▲ Use emulsion with higher concentration

Insert breakage



Excessive stress of the insert causes breakage.

Cause

- ▲ Excessive stress of cutting material
- ▲ Lack of stability
- ▲ Clearance angle too small

Remedy

- ▲ Use tougher grade
- ▲ Use protective edge chamfer
- ▲ Increase edge hone
- ▲ Use geometry with higher stability

Grades Overview



Grade description

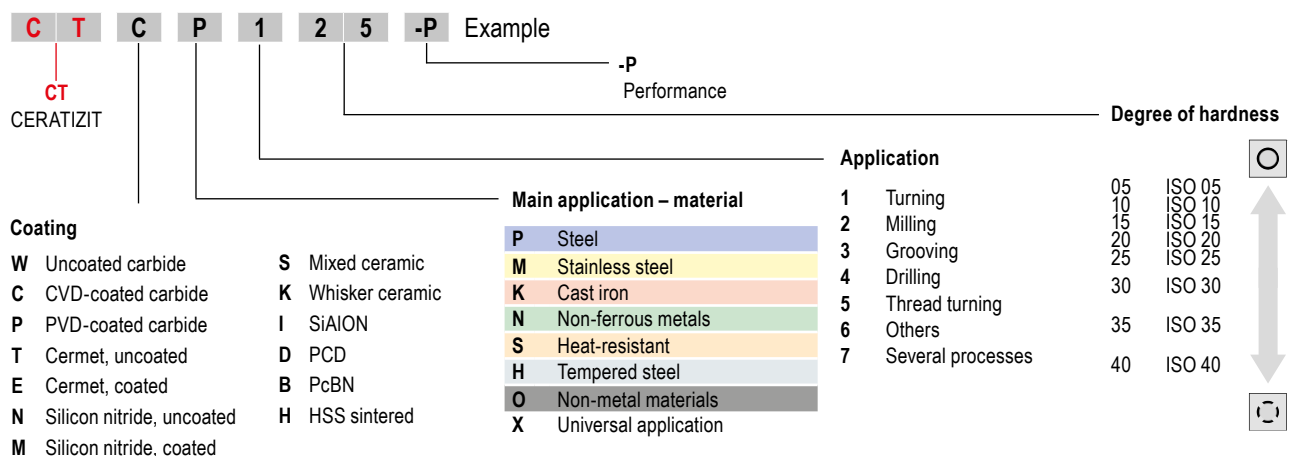


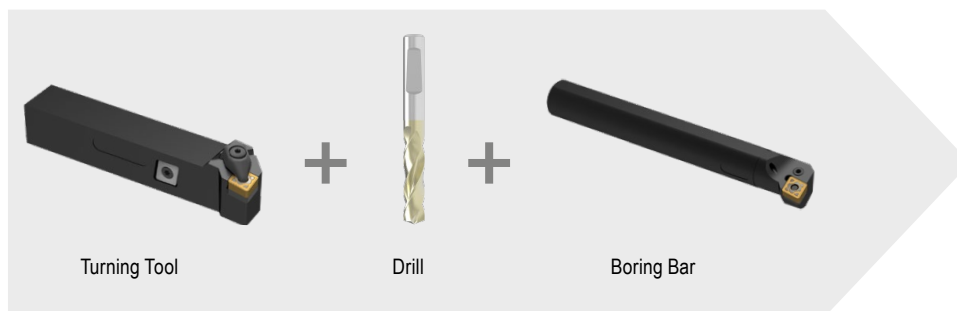
Table of contents

Advantages of EcoCut	104+105
Example applications / explanation of symbols	105

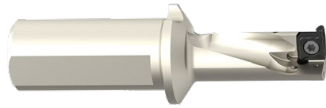
Products and product information can be found in our main catalogue and online shop.

Advantages of EcoCut

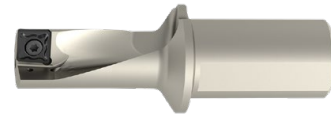
- ▲ reduced machining time
- ▲ reduced need for tool positions
- ▲ generates flat bottom of hole
- ▲ less programming
- ▲ lower set-up costs / reduced setting time
- ▲ time savings due to fewer tool changes



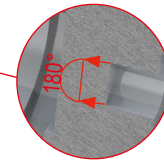
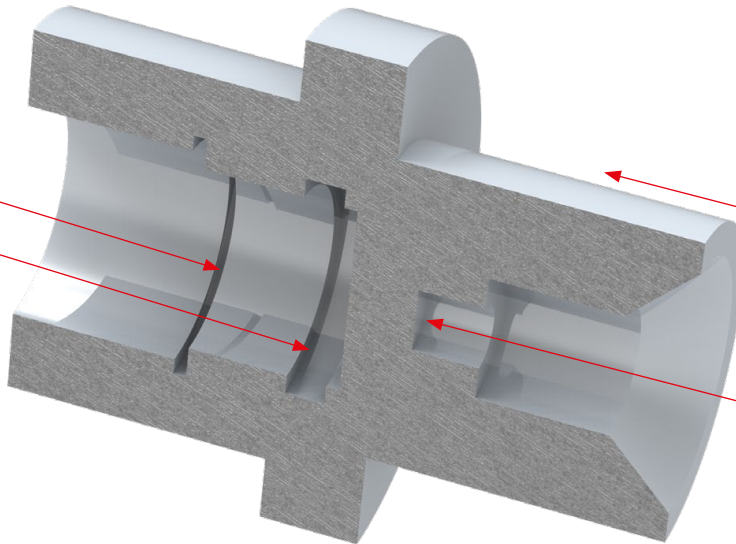
Application examples



EcoCut ProfileMaster



EcoCut Classic



EcoCut Mini



Symbol explanation



Turning outside profiles



Face turning



Drilling into full material



Turning internal profiles



External / internal radial grooving



Axial grooving



Int. coolant supply

-28P — Polished chip breaker
H216T — Carbide Grade

F Fine Machining
M Medium Machining
R Rough Machining



Smooth cut
Irregular cutting depth
Interrupted cut

Table of contents

Symbol explanation	107
System overview	107

Products and product information can be found in our main catalogue and online shop.

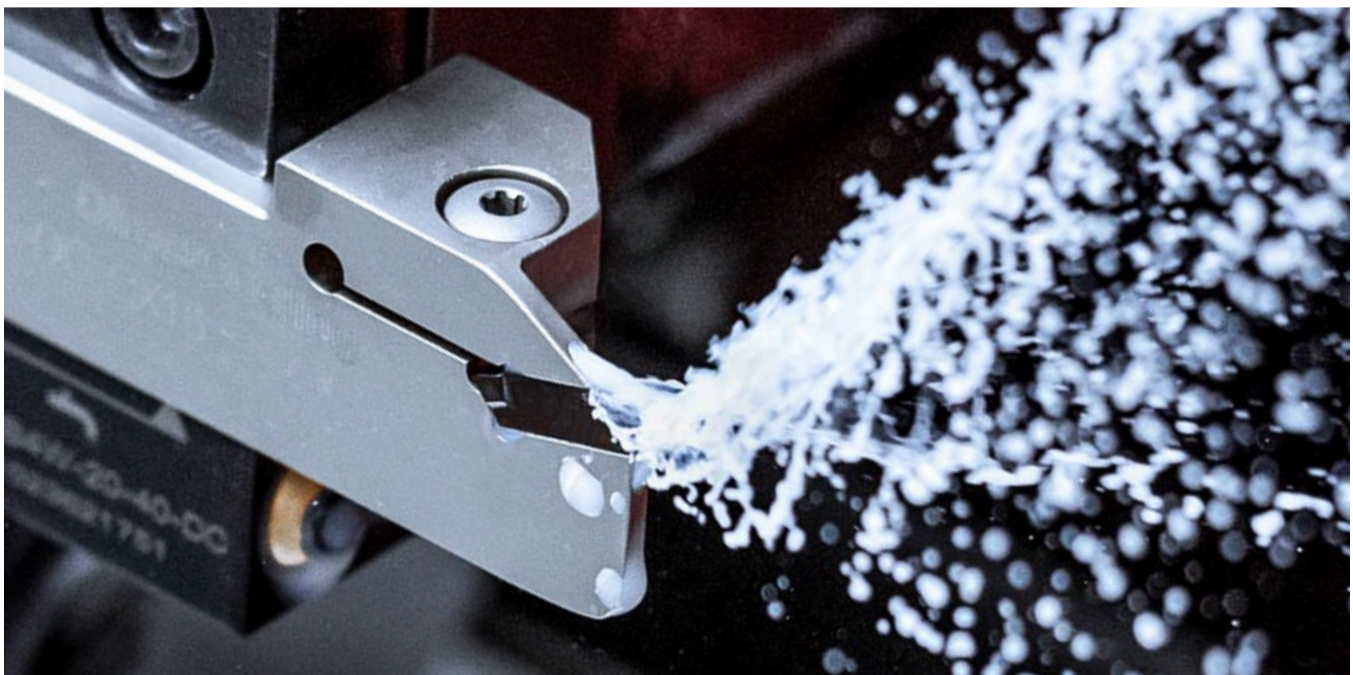
Advantages due to DirectCooling



- ▲ Improved chip control
- ▲ Longer service life of the indexable insert
- ▲ Greater process security
- ▲ Application of higher cutting data
- ▲ Reduced wear
- ▲ Universal application



cuttingtools.ceratizit.com/ie/en/direct-cooling



Symbol explanation

	Grooving		Internal machining		DirectCooling
	Parting		Internal thread		Int. coolant supply
	Grooving and Turning		External thread		Repeatability
	Copy Turning	F	Fine Machining	-F2	Chip groove
	Axial Grooving and Turning	M	Medium Machining	CTPP345	Carbide Grade
	Circlip Grooves	R	Rough Machining		Smooth cut
			Main Application		Irregular cutting depth
			Extended application		Interrupted cut

System overview

No. of cutting edges	System	Grooving	Parting	Grooving and Turning	Copy Turning	Axial Grooving and Turning	Circlip Grooves	Internal machining	External machining		Internal machining		Axial machining	
									CW (mm)	CDX max. (mm)	DMIN (mm)	CDX max. (mm)	DAXN (mm)	CDX max. (mm)
1	SX								2-6	60				
	LX								8-10	80	200	34	500	39
2	GX 09								2-3,5	7	16	6		
	GX 16								2-6	12	20,5	11		
	GX 24								2-6	21	42	19	45	25
3	TX								0,5-5,15	8	46	2	20	3

Table of contents

System overview	109
Toolfinder	108+109

Products and product information can be found in our main catalogue and online shop.



Should you wish to send us a request for specially adjusted solutions, you will find a detailed form in the download area on our homepage. Please fill it out carefully and send it via email or print it out and send via fax. → cuttingtools.ceratzit.com/ie/en/download.html

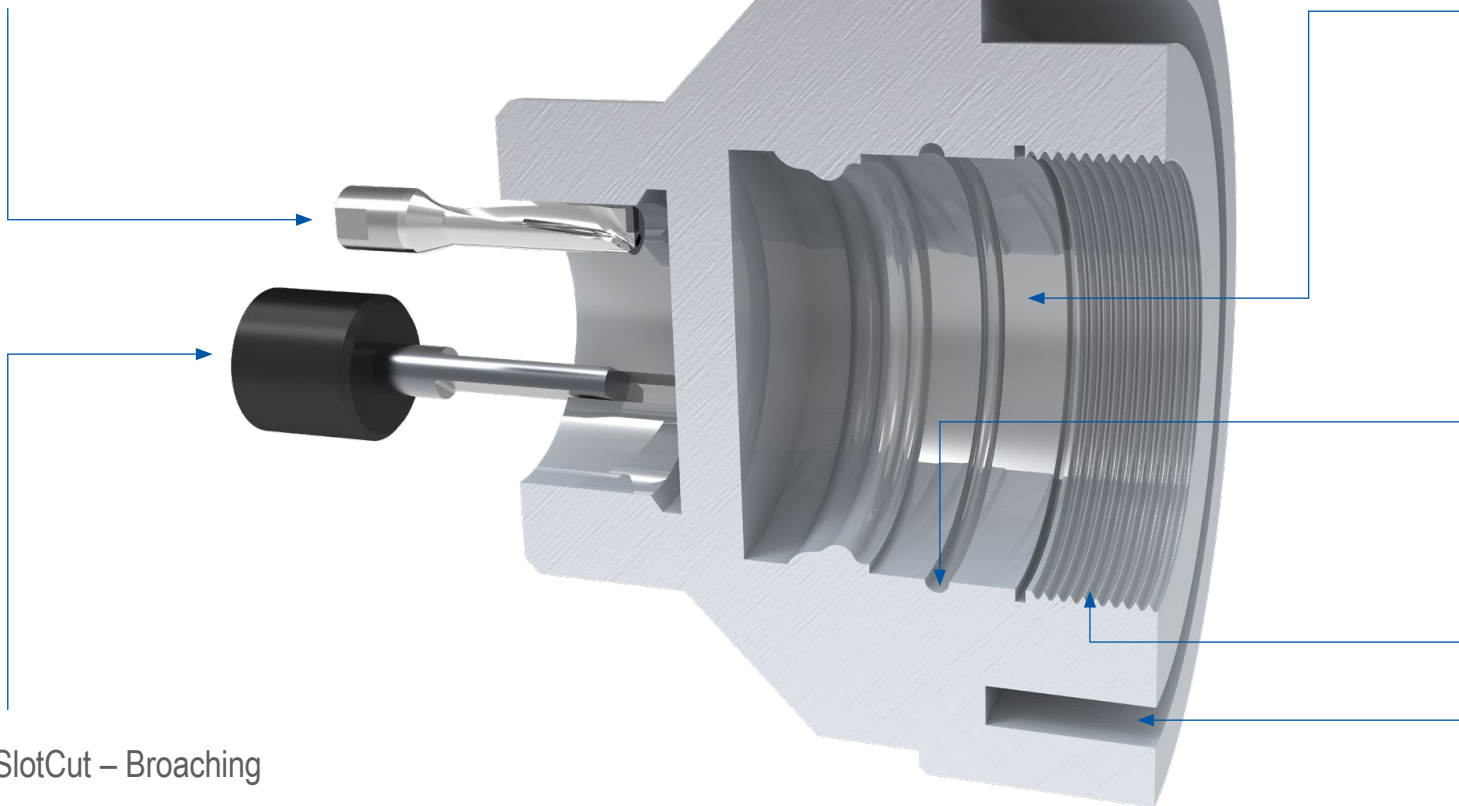
Please email the completed form to tsc@ceratzit.com.

Toolfinder

EcoCut Mini

From Ø 2 mm

Inserts and tool holders can be found in → **Chapter 10**
Multifunctional Tools – EcoCut and FreeTurn



SlotCut – Broaching

Inserts + Holder DIN138

Symbol explanation



Internal machining



Internal grooving



Internal thread turning



Axial machining

System overview

UltraMini



- ▲ from Ø 0.5 mm
- ▲ flexible system
- ▲ ground inserts
- ▲ high repeatability
- ▲ coolant supply to the cutting edge

MiniCut



- ▲ from Ø 7.8 mm
- ▲ stable three-rib interface
- ▲ easy handling
- ▲ coolant supply to the cutting edge
- ▲ precise cutting edge position

SlotCut



- ▲ broaching directly on the machine
- ▲ usable from Ø 6 mm
- ▲ low machine load
- ▲ variety of tolerance classes

		UltraMini										MiniCut				
Hole diameter (mm)		≥ 0,5	≥ 2	≥ 2,4	≥ 2,8	≥ 3	≥ 4	≥ 5	≥ 6	≥ 8	≥ 16	≥ 8	≥ 9	≥ 11	≥ 14	≥ 16
Internal turning and profiling	Internal turning and profiling	✓	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓	✓
	Internal turning and profiling – hard turning		✓		✓		✓	✓	✓			✓		✓	✓	✓
	High-feed turning		✓			✓	✓	✓	✓							
	Internal turning				✓		✓	✓				✓	✓	✓	✓	✓
	Back boring					✓	✓	✓	✓			✓	✓	✓	✓	
	Turning and chamfering							✓	✓			✓	✓	✓	✓	
Pre-parting and chamfering	Pre-parting and chamfering						✓	✓	✓			✓	✓	✓	✓	✓
	Internal Undercuts		✓		✓		✓	✓	✓			✓	✓	✓	✓	✓
	Groove turning		✓			✓	✓	✓	✓			✓	✓	✓	✓	✓
Groove and profile turning	Groove and profile turning						✓	✓	✓			✓	✓	✓	✓	✓
	Internal thread turning			✓			✓	✓	✓			✓	✓	✓	✓	✓
Axial grooving	Axial grooving							✓	✓	✓	✓	✓	✓	✓	✓	✓
	suitable holder	✓										✓				
	Sets	✓										✓				





Solid drilling and bore machining

HSS drilling

Solid carbide drilling

Reamers

1

Threading

HSS taps

Circular and Thread Milling

Thread turning

2

Turning

Turning Tools

Multifunction

Grooving Tools

Miniature turning tools

3

Milling

Solid Carbide milling cutters

Milling tools with indexable inserts

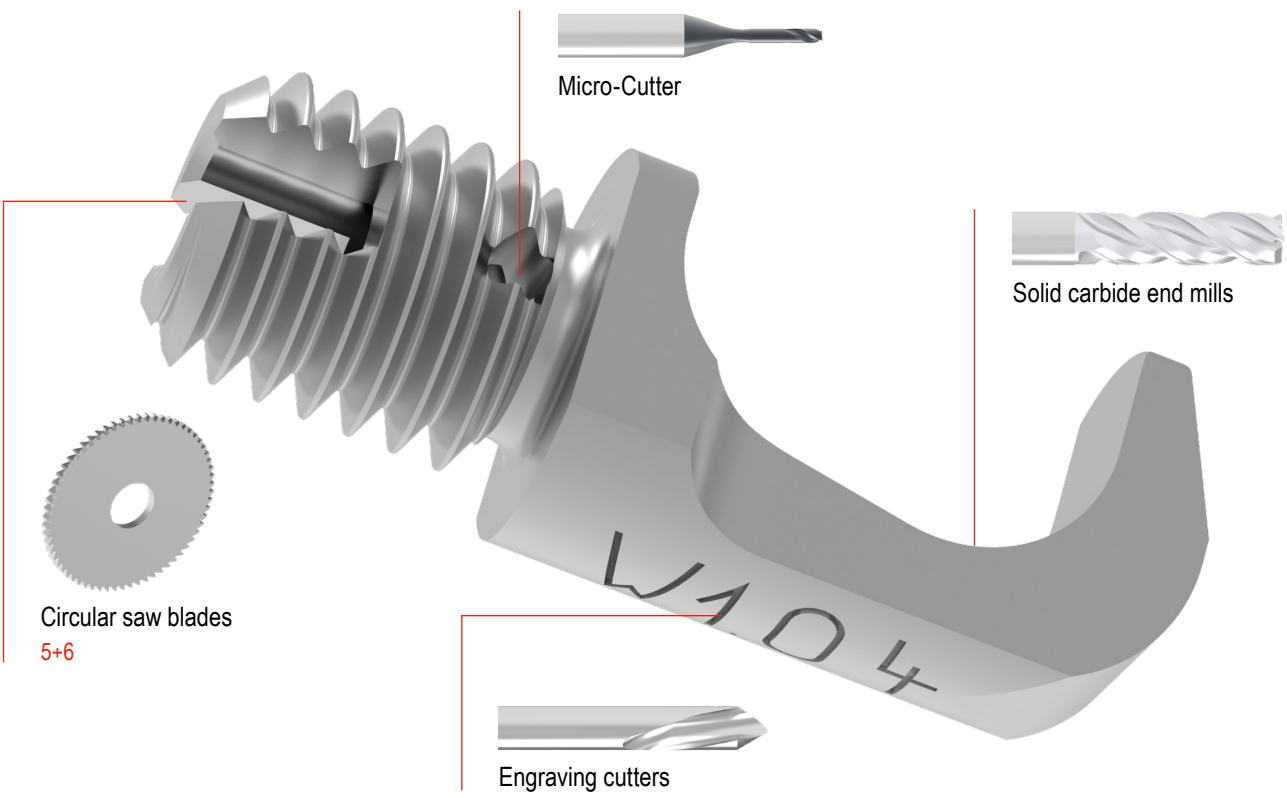
4

Clamping technology

Collets and reduction sleeves

5

Toolfinder



Symbol explanation

Shank

- Shank type
- Length:** extra short / short / medium / long / extra long
- Axial thro' coolant
- Radial thro' coolant

Cutting edge preparation

- Sharp
- Corner chamfer (CHW = chamfer width in mm)
- Corner radius
- Full Radius

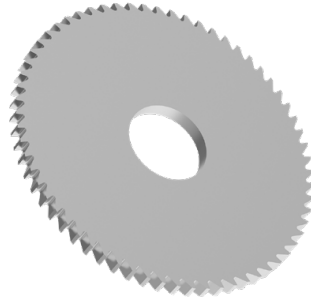
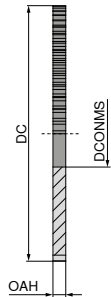
Application

- HPC** High volume machining
- HFC** High-feed milling
- 54–70 HRC** Hard materials
- Machining example
- The red arrows describe the possible feed directions
- Cutting geometry
 $\lambda_s = 48^\circ$
 $\gamma_s = 10^\circ$
 λ_s = Helix Angle
 γ_s = Rake Angle
- λ_s var.** Variable helix angle
- ZEFP = Number of flutes
- = Main Application
- = Extended application



Solid carbide circular saw blades, fine-toothed, DIN 1837A

▲ fine-straight-cut



DIN 1837 A

54 700 ...

DC _{js15}	OAH _{±0.01}	DCONMS _{H6}	ZEFP	EUR	
mm	mm	mm		V6	
15	0,20	5	64	18,97	102
15	0,25	5	64	18,97	103
15	0,30	5	64	18,97	104
15	0,35	5	64	18,97	105
15	0,40	5	64	18,97	106
15	0,50	5	48	18,97	107
15	0,60	5	48	18,97	108
15	0,70	5	48	22,61	109
15	0,80	5	40	22,61	110
15	0,90	5	40	23,17	111
15	1,00	5	40	24,05	112
15	1,10	5	40	25,06	113
15	1,20	5	40	25,06	114
15	1,30	5	40	25,06	115
15	1,40	5	40	25,06	116
15	1,50	5	40	27,25	117
15	1,60	5	40	29,26	118
15	1,70	5	40	31,74	119
15	1,80	5	40	31,74	120
15	1,90	5	40	33,03	121
15	2,00	5	40	33,46	122
15	2,50	5	40	46,21	123
15	3,00	5	40	52,30	124
15	3,50	5	40	59,09	125
15	4,00	5	40	72,86	126
15	4,50	5	40	85,45	127
15	5,00	5	40	88,94	128
15	5,50	5	40	106,20	129
15	6,00	5	40	109,40	130
20	0,20	5	80	20,57	152
20	0,25	5	64	20,57	153
20	0,30	5	64	20,57	154
20	0,35	5	64	20,57	155
20	0,40	5	64	20,57	156
20	0,50	5	48	20,57	157
20	0,60	5	48	20,57	158
20	0,70	5	48	24,05	159
20	0,80	5	48	24,05	160
20	0,90	5	40	25,06	161
20	1,00	5	40	27,25	162
20	1,10	5	40	29,26	163
20	1,20	5	40	29,26	164
20	1,30	5	40	30,84	165
20	1,40	5	40	33,46	166
20	1,50	5	40	33,46	167
20	1,60	5	40	35,06	168
20	1,70	5	40	36,94	169
20	1,80	5	32	36,94	170
20	1,90	5	32	38,68	171
20	2,00	5	32	38,68	172
20	2,50	5	32	48,83	173
20	3,00	5	32	55,64	174
20	3,50	5	24	62,58	175
20	4,00	5	24	74,47	176
20	4,50	5	24	88,94	177
20	5,00	5	24	92,56	178
20	5,50	5	24	107,60	179
20	6,00	5	24	111,10	180
25	0,20	8	80	20,28	202

54 700 ...

EUR

V6

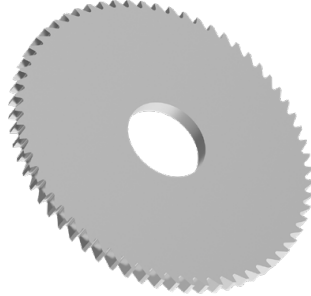
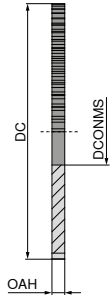
DC _{js15}	OAH _{±0.01}	DCONMS _{H6}	ZEFP	EUR	
mm	mm	mm		V6	
25	0,25	8	80	20,28	203
25	0,30	8	80	20,28	204
25	0,35	8	64	20,28	205
25	0,40	8	64	20,28	206
25	0,50	8	64	23,61	207
25	0,60	8	64	23,61	208
25	0,70	8	48	26,22	209
25	0,80	8	48	29,26	210
25	0,90	8	48	31,74	211
25	1,00	8	48	31,74	212
25	1,10	8	48	36,51	213
25	1,20	8	48	36,51	214
25	1,30	8	40	38,09	215
25	1,40	8	40	39,69	216
25	1,50	8	40	39,69	217
25	1,60	8	40	43,73	218
25	1,70	8	40	43,73	219
25	1,80	8	40	45,49	220
25	1,90	8	40	48,67	221
25	2,00	8	40	50,13	222
25	2,50	8	40	60,83	223
25	3,00	8	32	79,24	224
25	3,50	8	32	87,36	225
25	4,00	8	32	98,66	226
25	4,50	8	32	113,00	227
25	5,00	8	32	119,40	228
25	5,50	8	24	135,90	229
25	6,00	8	24	142,30	230
30	0,20	8	100	26,22	252
30	0,25	8	100	26,22	253
30	0,30	8	80	26,22	254
30	0,35	8	80	26,22	255
30	0,40	8	80	26,22	256
30	0,50	8	80	27,53	257
30	0,60	8	64	27,53	258
30	0,70	8	64	33,33	259
30	0,80	8	64	36,51	260
30	0,90	8	64	39,69	261
30	1,00	8	64	39,69	262
30	1,10	8	64	44,64	263
30	1,20	8	48	43,90	264
30	1,30	8	48	45,36	265
30	1,40	8	48	49,40	266
30	1,50	8	48	49,40	267
30	1,60	8	48	52,58	268
30	1,70	8	48	52,58	269
30	1,80	8	48	54,03	270
30	1,90	8	48	55,64	271
30	2,00	8	48	59,09	272
30	2,50	8	40	69,38	273
30	3,00	8	40	82,57	274
30	3,50	8	40	93,73	275
30	4,00	8	40	105,20	276
30	4,50	8	32	121,20	277
30	5,00	8	32	127,80	278
30	5,50	8	32	144,00	279
30	6,00	8	32	150,60	280

P	•
M	•
K	•
N	•
S	•
H	
O	•

→ v_e/f_z Page 10

Solid carbide circular saw blades, fine-toothed, DIN 1837A

▲ fine-straight-cut



DIN 1837 A

54 700 ...

DC _{js15}	OAH _{±0,01}	DCONMS _{H6}	ZEFP	EUR	
mm	mm	mm		V6	
40	0,20	10	128	32,14	302
40	0,25	10	100	32,14	303
40	0,30	10	100	32,14	304
40	0,35	10	100	32,14	305
40	0,40	10	100	34,05	306
40	0,50	10	80	37,09	307
40	0,60	10	80	37,09	308
40	0,70	10	80	42,44	309
40	0,80	10	80	44,18	310
40	0,90	10	64	44,18	311
40	1,00	10	64	45,64	312
40	1,10	10	64	47,08	313
40	1,20	10	64	48,83	314
40	1,30	10	64	49,68	315
40	1,40	10	64	52,87	316
40	1,50	10	64	54,45	317
40	1,60	10	64	55,77	318
40	1,70	10	48	59,09	319
40	1,80	10	48	60,53	320
40	1,90	10	48	62,28	321
40	2,00	10	48	62,28	322
40	2,50	10	48	80,10	323
40	3,00	10	48	92,72	324
40	3,50	10	48	103,60	325
40	4,00	10	40	114,90	326
40	4,50	10	40	130,40	327
40	5,00	10	40	138,40	328
40	5,50	10	40	155,00	329
40	6,00	10	40	163,70	330
50	0,20	13	128	52,87	352
50	0,25	13	128	51,15	353
50	0,30	13	128	43,44	354
50	0,35	13	100	43,44	355
50	0,40	13	100	43,44	356
50	0,50	13	100	44,91	357
50	0,60	13	100	44,91	358
50	0,70	13	80	47,08	359
50	0,80	13	80	51,15	360
50	0,90	13	80	52,87	361
50	1,00	13	80	54,45	362
50	1,10	13	80	55,77	363
50	1,20	13	80	57,51	364
50	1,30	13	64	64,46	365
50	1,40	13	64	65,90	366
50	1,50	13	64	69,26	367
50	1,60	13	64	70,70	368
50	1,70	13	64	71,73	369
50	1,80	13	64	76,32	370
50	1,90	13	64	76,32	371
50	2,00	13	64	78,66	372
50	2,50	13	64	96,03	373
50	3,00	13	48	111,50	374
50	3,50	13	48	127,30	375
50	4,00	13	48	135,10	376
50	4,50	13	48	156,60	377
50	5,00	13	48	165,20	378
50	5,50	13	40	184,00	379
50	6,00	13	40	191,30	380
63	0,20	16	160	77,64	402

54 700 ...

EUR

V6

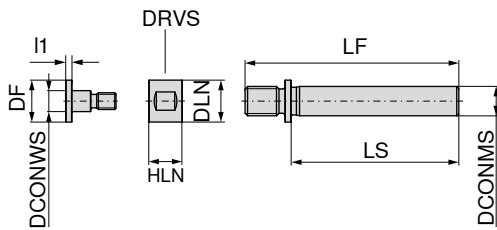
DC _{js15}	OAH _{±0,01}	DCONMS _{H6}	ZEFP	EUR	
mm	mm	mm		V6	
63	0,25	16	160	74,74	403
63	0,30	16	128	69,53	404
63	0,35	16	128	65,75	405
63	0,40	16	128	59,54	406
63	0,50	16	128	58,08	407
63	0,60	16	100	59,54	408
63	0,70	16	100	67,07	409
63	0,80	16	100	73,88	410
63	0,90	16	100	74,74	411
63	1,00	16	100	76,20	412
63	1,10	16	80	79,24	413
63	1,20	16	80	81,99	414
63	1,30	16	80	84,01	415
63	1,40	16	80	85,33	416
63	1,50	16	80	86,78	417
63	1,60	16	80	91,13	418
63	1,70	16	80	95,75	419
63	1,80	16	80	97,34	420
63	1,90	16	80	101,50	421
63	2,00	16	80	105,00	422
63	2,50	16	64	126,20	423
63	3,00	16	64	142,80	424
63	3,50	16	64	163,70	425
63	4,00	16	64	179,80	426
63	4,50	16	64	205,70	427
63	5,00	16	48	214,40	428
63	5,50	16	48	240,60	429
63	6,00	16	48	249,20	430

P	•
M	•
K	•
N	•
S	•
H	•
O	•

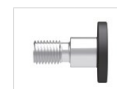
→ v_c/f_z Page 10

Cylindrical shank adapter for circular saw blades

▲ DCONWS = circular saw blade bore diameter



									72 900 ...	
DCONWS _{H7}	DCONMS _{H7}	DLN	DF	LF	LS	HLN	I ₁	DRVS	EUR	
mm	mm	mm	mm	mm	mm	mm	mm	mm	X1	
5	7	10	10	51	40	8	3	9	129,60	005
5	10	10	10	61	50	8	3	9	129,60	105
8	7	15	15	51	40	8	3	14	129,60	008
8	10	15	15	61	50	8	3	14	140,70	108
10	7	17	17	53	40	10	3	16	129,60	010
10	10	17	17	63	50	10	3	16	140,70	110
10	16	17	17	74	55	10	3	16	150,10	210
13	10	20	20	66	50	10	3	18	140,70	113
13	16	20	20	77	55	10	3	18	150,10	213
16	10	24	24	66	50	14	3	22	140,70	116
16	16	24	24	79	55	14	3	22	150,10	216



Screw - SR



Lock nut - KM

Spare parts for Article no.

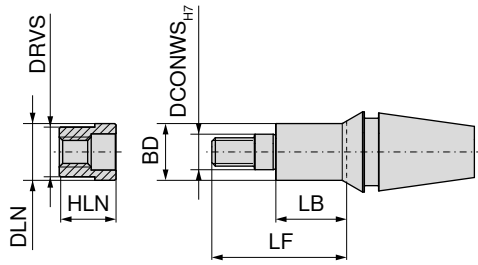
	72 945 ...		72 945 ...	
	EUR		EUR	
	X1		X1	
72 900 005	24,61	000	38,67	005
72 900 105	24,61	000	38,67	005
72 900 008	24,61	001	38,67	006
72 900 108	24,61	001	38,67	006
72 900 010	26,22	002	40,14	007
72 900 110	26,22	002	40,14	007
72 900 210	26,22	010	40,14	012
72 900 113	27,45	003	41,51	008
72 900 213	27,45	003	41,51	008
72 900 116	28,80	004	42,70	009
72 900 216	28,80	011	42,70	013

ER mono clamping - Circular saw blades

▲ DCONWS = circular saw blade bore diameter

Scope of supply:

Adapter incl. Lock nut



								72 930 ...	
DCONWS _{H7}	Adapter	DLN	LB	HLN	BD	LF	DRVS	EUR	
mm		mm	mm	mm	mm	mm	mm	X1	
5	ER 11	8	10	8	8	21	7	177,90	51100
5	ER 16	10	18	8	10	29	9	184,80	51600
5	ER 20	10	18	8	10	29	9	191,50	52000
8	ER 20	15	18	8	15	29	13	191,50	82000
10	ER 20	16	30	8	15	41	14	191,50	12000



Lock nut - ER

Spare parts for Article no.

		72 946 ...	
		EUR	
		X1	
72 930 51100		44,93	51100
72 930 51600		45,93	51600
72 930 52000		46,95	52000
72 930 82000		46,95	82000
72 930 12000		46,95	12000

Material examples for cutting data tables

	Material sub-group	Index	Composition / Structure / Heat treatment	Tensile strength N/mm ² / HB / HRC	Material number	Material designation	Material number	Material designation
P	Unalloyed steel	P.1.1	< 0,15 % C	Annealed	420 N/mm ² / 125 HB	1.0401	C15	1.1141 Ck15
		P.1.2	< 0,45 % C	Annealed	640 N/mm ² / 190 HB	1.1191	C45E	1.0718 9SMnPb28
		P.1.3	< 0,45 % C	Tempered	840 N/mm ² / 250 HB	1.1191	C45E	1.0535 C55
		P.1.4	< 0,75 % C	Annealed	910 N/mm ² / 270 HB	1.1223	C60R	1.0535 C55
		P.1.5	< 0,75 % C	Tempered	1010 N/mm ² / 300 HB	1.1223	C60R	1.0727 45S20
	Low-alloy steel	P.2.1		Annealed	610 N/mm ² / 180 HB	1.7131	16MnCr5	1.6587 17CrNiMo6
		P.2.2		Tempered	930 N/mm ² / 275 HB	1.7131	16MnCr5	1.6587 17CrNiMo6
		P.2.3		Tempered	1010 N/mm ² / 300 HB	1.7225	42CrMo4	1.3505 100Cr6
		P.2.4		Tempered	1200 N/mm ² / 375 HB	1.7225	42CrMo4	1.3505 100Cr6
	High-alloy steel and high-alloy tool steel	P.3.1		Annealed	680 N/mm ² / 200 HB	1.4021	X20Cr13	1.4034 X46Cr13
		P.3.2		Hardened and tempered	1100 N/mm ² / 300 HB	1.2343	X38CrMoV5-1	1.4034 X46Cr13
		P.3.3		Hardened and tempered	1300 N/mm ² / 400 HB	1.2343	X38CrMoV5-1	1.4034 X46Cr13
	Stainless steel	P.4.1	Ferritic / martensitic	Annealed	680 N/mm ² / 200 HB	1.4016	X6Cr17	1.2316 X36CrMo16
		P.4.2	Martensitic	Tempered	1010 N/mm ² / 300 HB	1.4112	X90CrMoV18	1.2316 X36CrMo16
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic	Quenched	610 N/mm ² / 180 HB	1.4301	X5CrNi18-10	1.4571 X6CrNiMoTi17-12-2
		M.2.1	Austenitic	Tempered	300 HB	1.4841	X15CrNiSi25-21	1.4539 X1NiCrMoCu25-20-5
		M.3.1	Austenitic / ferritic (Duplex)		780 N/mm ² / 230 HB	1.4462	X2CrNiMoN22-5-3	1.4501 X2CrNiMoCuWN25-7-4
K	Grey cast iron	K.1.1	Pearlitic / ferritic		350 N/mm ² / 180 HB	0.6010	GG-10	0.6025 GG-25
		K.1.2	Pearlitic (martensitic)		500 N/mm ² / 260 HB	0.6030	GG-30	0.6045 GG-45
	Spherulitic graphite cast iron	K.2.1	Ferritic		540 N/mm ² / 160 HB	0.7040	GGG-40	0.7060 GGG-60
		K.2.2	Pearlitic		845 N/mm ² / 250 HB	0.7070	GGG-70	0.7080 GGG-80
	Malleable iron	K.3.1	Ferritic		440 N/mm ² / 130 HB	0.8035	GTW-35-04	0.8045 GTW-45
		K.3.2	Pearlitic		780 N/mm ² / 230 HB	0.8165	GTS-65-02	0.8170 GTS-70-02
N	Aluminium wrought alloy	N.1.1	Non-hardenable		60 HB	3.0255	Al99,5	3.3315 AlMg1
		N.1.2	Hardenable	Age-hardened	340 N/mm ² / 100 HB	3.1355	AlCuMg2	3.2315 AlMgSi1
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable		250 N/mm ² / 75 HB	3.2581	G-AlSi12	3.2163 G-AlSi9Cu3
		N.2.2	≤ 12 % Si, hardenable	Age-hardened	300 N/mm ² / 90 HB	3.2134	G-AlSi5Cu1Mg	3.2373 G-AlSi9Mg
		N.2.3	> 12 % Si, non-hardenable		440 N/mm ² / 130 HB		G-AlSi17Cu4Mg	G-AlSi18CuNiMg
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %		375 N/mm ² / 110 HB	2.0380	CuZn39Pb2 (Ms58)	2.0410 CuZn44Pb2
		N.3.2	CuZn, CuSnZn		300 N/mm ² / 90 HB	2.0331	CuZn15	2.4070 CuZn28Sn1As
		N.3.3	CuSn, lead-free copper and electrolytic copper		340 N/mm ² / 100 HB	2.0060	E-Cu57	2.0590 CuZn40Fe
	Magnesium alloys	N.4.1	Magnesium and magnesium alloys		70 HB	3.5612	MgAl6Zn	3.5312 MgAl3Zn
S	Heat-resistant alloys	S.1.1	Fe - basis	Annealed	680 N/mm ² / 200 HB	1.4864	X12NiCrSi 36-16	1.4865 G-X40NiCrSi38-18
		S.1.2		Age-hardened	950 N/mm ² / 280 HB	1.4980	X6NiCrTiMoVB25-15-2	1.4876 X10NiCrAlTi32-20
		S.2.1	Ni or Co basis	Annealed	840 N/mm ² / 250 HB	2.4631	NiCr20TiAl (Nimonic80A)	3.4856 NiCr22Mo9Nb
		S.2.2		Age-hardened	1180 N/mm ² / 350 HB	2.4668	NiCr19Nb5Mo3 (Inconel 718)	2.4955 NiFe25Cr20NbTi
		S.2.3		Cast	1080 N/mm ² / 320 HB	2.4765	CoCr20W15Ni	1.3401 G-X120Mn12
	Titanium alloys	S.3.1	Pure titanium		400 N/mm ²	3.7025	Ti99,8	3.7034 Ti99,7
		S.3.2	Alpha + beta alloys	Age-hardened	1050 N/mm ² / 320 HB	3.7165	TiAl6V4	Ti-6246 Ti-6Al-2Sn-4Zr-6Mo
		S.3.3	Beta alloys		1400 N/mm ² / 410 HB	Ti555.3	Ti-5Al-5V-5Mo-3Cr	R56410 Ti-10V-2Fe-3Al
H	Hardened steel	H.1.1		Hardened and tempered	46–55 HRC			
		H.1.2		Hardened and tempered	56–60 HRC			
		H.1.3		Hardened and tempered	61–65 HRC			
		H.1.4		Hardened and tempered	66–70 HRC			
	Chilled iron	H.2.1		Cast	400 HB			
	Hardened cast iron	H.3.1		Hardened and tempered	55 HRC			
O	Non-metal materials	O.1.1	Plastics, duroplastic		≤ 150 N/mm ²			
		O.1.2	Plastics, thermoplastic		≤ 100 N/mm ²			
		O.2.1	Aramid fibre-reinforced		≤ 1000 N/mm ²			
		O.2.2	Glass/carbon-fibre reinforced		≤ 1000 N/mm ²			
		O.3.1	Graphite					

* Tensile strength

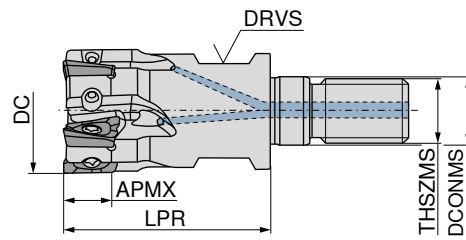
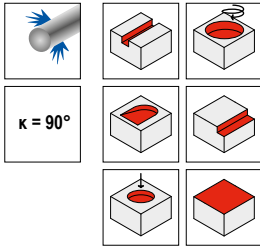
Cutting data standard values – Circular saw blades

54 700 ...		
Circular saws Solid carbide Fine		
Index	v_c (m/min)	f_z mm
P.1.1	80 – 140	0,002 – 0,012
P.1.2	50 – 80	0,001 – 0,012
P.1.3	50 – 80	0,001 – 0,012
P.1.4	50 – 80	0,001 – 0,012
P.1.5	50 – 80	0,001 – 0,012
P.2.1	50 – 80	0,001 – 0,012
P.2.2	50 – 80	0,001 – 0,012
P.2.3	50 – 80	0,001 – 0,012
P.2.4	50 – 80	0,001 – 0,012
P.3.1	50 – 80	0,001 – 0,012
P.3.2	50 – 80	0,001 – 0,012
P.3.3	50 – 80	0,001 – 0,012
P.4.1	80 – 120	0,001 – 0,012
P.4.2	50 – 80	0,001 – 0,012
M.1.1	50 – 80	0,001 – 0,012
M.2.1	50 – 80	0,001 – 0,012
M.3.1	50 – 80	0,001 – 0,012
K.1.1	80 – 140	0,002 – 0,012
K.1.2	50 – 80	0,001 – 0,01
K.2.1	50 – 80	0,001 – 0,01
K.2.2	50 – 80	0,001 – 0,01
K.3.1	50 – 80	0,001 – 0,01
K.3.2	50 – 80	0,001 – 0,01
N.1.1	200 – 500	0,003 – 0,012
N.1.2	200 – 500	0,003 – 0,012
N.2.1	200 – 450	0,003 – 0,012
N.2.2	200 – 450	0,003 – 0,012
N.2.3	200 – 450	0,003 – 0,012
N.3.1	200 – 450	0,003 – 0,012
N.3.2	200 – 450	0,003 – 0,012
N.3.3	200 – 450	0,003 – 0,012
N.4.1		
S.1.1	20 – 30	0,001 – 0,012
S.1.2	20 – 30	0,001 – 0,012
S.2.1	20 – 30	0,001 – 0,012
S.2.2	20 – 30	0,001 – 0,012
S.2.3	20 – 30	0,001 – 0,012
S.3.1	30 – 70	0,001 – 0,012
S.3.2	30 – 70	0,001 – 0,012
S.3.3	30 – 70	0,001 – 0,012
H.1.1		
H.1.2		
H.1.3		
H.1.4		
H.2.1		
H.3.1		
O.1.1	130 – 200	0,003 – 0,015
O.1.2	130 – 200	0,003 – 0,015
O.2.1		
O.2.2		
O.3.1		



The cutting data depends extremely on the external conditions, e.g. stability of the tool and tool clamping, material and machine type. The indicated values are possible cutting data which have to be increased or reduced according to the application conditions.

MaxiMill – 211-07 Screw in cutter

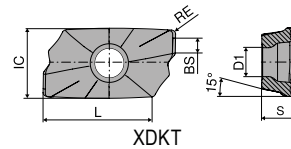


											50 751 ...
Designation	DC mm	ZNF	APMX mm	LPR mm	DCONMS mm	THSZMS	DRVS mm	RPMX 1/min.	torque moment Nm	Insert	EUR 2B/40
G211.16.R.04-07	16	4	6	27	8,5	M8	10	50400	1	XD.T 0703	338,90 016
G211.20.R.05-07	20	5	6	33	10,5	M10	15	44280	1	XD.T 0703	378,20 020

Spare parts for Article no.	TORX® blade		Key D		Molykote		Clamping screw		Torque screw- driver	
	80 950 ...		80 950 ...		70 950 ...		70 950 ...		80 950 ...	
	EUR Y7		EUR Y7		EUR 2A/28		EUR 2A/28		EUR Y7	
50 751 016	6,78	051	10,26	117	5,64	303	4,19	137	153,30	191
50 751 020	6,78	051	10,26	117	5,64	303	4,19	137	153,30	191

XDKT

Designation	IC mm	D1 mm	L mm	BS mm	S mm
XDKT 0703..	4,9	2,5	7,8	1,2	3,18



XDKT

ISO	RE mm																
		-F50 CTCP230 DRAGONSKIN				-M50 CTCP230 DRAGONSKIN				-F50 CTPP235 DRAGONSKIN				-M50 CTPP235 DRAGONSKIN			
		F XDKT				M XDKT				F XDKT				M XDKT			
		51 033 ...				51 036 ...				51 033 ...				51 036 ...			
		EUR 1B/61				EUR 1B/61				EUR 1B/61				EUR 1B/61			
070304SR	0,4	15,19 004				15,19 004				15,19 104				15,19 104			
070308SR	0,8	15,19 008				15,19 008				15,19 108				15,19 108			
P		●				●				●				●			
M										○				○			
K		○				○				○				○			
N																	
S																	
H																	
O																	

XDKT

ISO	RE mm	-F50 CTPM240 DRAGONSKIN		-M50 CTPM240 DRAGONSKIN		-F40 CTPM245 DRAGONSKIN		-F40 CTCM245 DRAGONSKIN		-F20 CTWN215		-F40 CTC5240 DRAGONSKIN		-F40 CTCS245 DRAGONSKIN	
		F XDKT		M XDKT		F XDKT		F XDKT		F XDKT		F XDKT		F XDKT	
		51 033 ...		51 036 ...		51 112 ...		51 112 ...		50 507 ...		50 498 ...		51 112 ...	
		EUR 1B/61		EUR 1B/61		EUR 1H/17		EUR 1H/17		EUR 1A/90		EUR 1H/17		EUR 1H/17	
070304ER	0,4					18,15 454		18,15 90401		18,69 504		18,15 544			
070304FR	0,4														
070304SR	0,4	15,19 404		15,19 404											
070308ER	0,8					18,15 458		18,15 90801		18,69 508		18,15 548		18,15 558	
070308FR	0,8														
070308SR	0,8	15,19 408		15,19 408											
P		○		○		●		●							
M		●		●		●		●							
K										○					
N										●					
S								○				●		●	
H															
O										○					

Milling guide

Cutting data standard values

→ 14

Machining strategy

→ 15

Starting Parameter

→ 15

Material examples for cutting data tables

	Material sub-group	Index	Composition / Structure / Heat treatment	Tensile strength N/mm ² / HB / HRC	Material number	Material designation	Material number	Material designation
P	Unalloyed steel	P.1.1	< 0,15 % C	Annealed	420 N/mm ² / 125 HB	1.0401	C15	1.1141 Ck15
		P.1.2	< 0,45 % C	Annealed	640 N/mm ² / 190 HB	1.1191	C45E	1.0718 9SMnPb28
		P.1.3	< 0,45 % C	Tempered	840 N/mm ² / 250 HB	1.1191	C45E	1.0535 C55
		P.1.4	< 0,75 % C	Annealed	910 N/mm ² / 270 HB	1.1223	C60R	1.0535 C55
		P.1.5	< 0,75 % C	Tempered	1010 N/mm ² / 300 HB	1.1223	C60R	1.0727 45S20
	Low-alloy steel	P.2.1		Annealed	610 N/mm ² / 180 HB	1.7131	16MnCr5	1.6587 17CrNiMo6
		P.2.2		Tempered	930 N/mm ² / 275 HB	1.7131	16MnCr5	1.6587 17CrNiMo6
		P.2.3		Tempered	1010 N/mm ² / 300 HB	1.7225	42CrMo4	1.3505 100Cr6
		P.2.4		Tempered	1200 N/mm ² / 375 HB	1.7225	42CrMo4	1.3505 100Cr6
	High-alloy steel and high-alloy tool steel	P.3.1		Annealed	680 N/mm ² / 200 HB	1.4021	X20Cr13	1.4034 X46Cr13
		P.3.2		Hardened and tempered	1100 N/mm ² / 300 HB	1.2343	X38CrMoV5-1	1.4034 X46Cr13
		P.3.3		Hardened and tempered	1300 N/mm ² / 400 HB	1.2343	X38CrMoV5-1	1.4034 X46Cr13
	Stainless steel	P.4.1	Ferritic / martensitic	Annealed	680 N/mm ² / 200 HB	1.4016	X6Cr17	1.2316 X36CrMo16
		P.4.2	Martensitic	Tempered	1010 N/mm ² / 300 HB	1.4112	X90CrMoV18	1.2316 X36CrMo16
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic	Quenched	610 N/mm ² / 180 HB	1.4301	X5CrNi18-10	1.4571 X6CrNiMoTi17-12-2
		M.2.1	Austenitic	Tempered	300 HB	1.4841	X15CrNiSi25-21	1.4539 X1NiCrMoCu25-20-5
		M.3.1	Austenitic / ferritic (Duplex)		780 N/mm ² / 230 HB	1.4462	X2CrNiMoN22-5-3	1.4501 X2CrNiMoCuWN25-7-4
K	Grey cast iron	K.1.1	Pearlitic / ferritic		350 N/mm ² / 180 HB	0.6010	GG-10	0.6025 GG-25
		K.1.2	Pearlitic (martensitic)		500 N/mm ² / 260 HB	0.6030	GG-30	0.6045 GG-45
	Spherulitic graphite cast iron	K.2.1	Ferritic		540 N/mm ² / 160 HB	0.7040	GGG-40	0.7060 GGG-60
		K.2.2	Pearlitic		845 N/mm ² / 250 HB	0.7070	GGG-70	0.7080 GGG-80
	Malleable iron	K.3.1	Ferritic		440 N/mm ² / 130 HB	0.8035	GTW-35-04	0.8045 GTW-45
		K.3.2	Pearlitic		780 N/mm ² / 230 HB	0.8165	GTS-65-02	0.8170 GTS-70-02
N	Aluminium wrought alloy	N.1.1	Non-hardenable		60 HB	3.0255	Al99,5	3.3315 AlMg1
		N.1.2	Hardenable	Age-hardened	340 N/mm ² / 100 HB	3.1355	AlCuMg2	3.2315 AlMgSi1
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable		250 N/mm ² / 75 HB	3.2581	G-AlSi12	3.2163 G-AlSi9Cu3
		N.2.2	≤ 12 % Si, hardenable	Age-hardened	300 N/mm ² / 90 HB	3.2134	G-AlSi5Cu1Mg	3.2373 G-AlSi9Mg
		N.2.3	> 12 % Si, non-hardenable		440 N/mm ² / 130 HB		G-AlSi17Cu4Mg	G-AlSi18CuNiMg
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %		375 N/mm ² / 110 HB	2.0380	CuZn39Pb2 (Ms58)	2.0410 CuZn44Pb2
		N.3.2	CuZn, CuSnZn		300 N/mm ² / 90 HB	2.0331	CuZn15	2.4070 CuZn28Sn1As
		N.3.3	CuSn, lead-free copper and electrolytic copper		340 N/mm ² / 100 HB	2.0060	E-Cu57	2.0590 CuZn40Fe
	Magnesium alloys	N.4.1	Magnesium and magnesium alloys		70 HB	3.5612	MgAl6Zn	3.5312 MgAl3Zn
S	Heat-resistant alloys	S.1.1	Fe - basis	Annealed	680 N/mm ² / 200 HB	1.4864	X12NiCrSi 36-16	1.4865 G-X40NiCrSi38-18
		S.1.2		Age-hardened	950 N/mm ² / 280 HB	1.4980	X6NiCrTiMoVB25-15-2	1.4876 X10NiCrAlTi32-20
		S.2.1		Annealed	840 N/mm ² / 250 HB	2.4631	NiCr20TiAl (Nimonic80A)	3.4856 NiCr22Mo9Nb
		S.2.2	Ni or Co basis	Age-hardened	1180 N/mm ² / 350 HB	2.4668	NiCr19Nb5Mo3 (Inconel 718)	2.4955 NiFe25Cr20NbTi
		S.2.3		Cast	1080 N/mm ² / 320 HB	2.4765	CoCr20W15Ni	1.3401 G-X120Mn12
	Titanium alloys	S.3.1	Pure titanium		400 N/mm ²	3.7025	Ti99,8	3.7034 Ti99,7
		S.3.2	Alpha + beta alloys	Age-hardened	1050 N/mm ² / 320 HB	3.7165	TiAl6V4	Ti-6246 Ti-6Al-2Sn-4Zr-6Mo
		S.3.3	Beta alloys		1400 N/mm ² / 410 HB	Ti555.3	Ti-5Al-5V-5Mo-3Cr	R56410 Ti-10V-2Fe-3Al
H	Hardened steel	H.1.1		Hardened and tempered	46–55 HRC			
		H.1.2		Hardened and tempered	56–60 HRC			
		H.1.3		Hardened and tempered	61–65 HRC			
		H.1.4		Hardened and tempered	66–70 HRC			
	Chilled iron	H.2.1		Cast	400 HB			
	Hardened cast iron	H.3.1		Hardened and tempered	55 HRC			
O	Non-metal materials	O.1.1	Plastics, duroplastic		≤ 150 N/mm ²			
		O.1.2	Plastics, thermoplastic		≤ 100 N/mm ²			
		O.2.1	Aramid fibre-reinforced		≤ 1000 N/mm ²			
		O.2.2	Glass/carbon-fibre reinforced		≤ 1000 N/mm ²			
		O.3.1	Graphite					

* Tensile strength

Cutting data standard values

Index	CTCP230		CTPP235		CTPM240		CTPM245		CTCM245		CTWN215		CTC5240		CTCS245		
	DRAGONSKIN												DRAGONSKIN				
																	
	Cutting Material hard ($v_c \uparrow$) $\rightarrow$ tough ($v_c \downarrow$)																
	v_c (m/min)																
P.1.1	286	150	246	137	226	141	244	139	279	134							
P.1.2	242	133	208	121	188	126	207	124	242	119							
P.1.3	202	118	172	106	152	112	173	109	208	104							
P.1.4	189	112	160	101	140	107	161	104	196	99							
P.1.5	169	105	143	94	123	100	144	97	179	92							
P.2.1	249	136	214	123	194	128	212	126	247	121							
P.2.2	185	111	157	100	137	106	158	103	193	98							
P.2.3	169	105	143	94	123	100	144	97	179	92							
P.2.4	118	85	98	76	78	83	101	78	136	73							
P.3.1	140	87	121	97	126	105	155	107	175	122							
P.3.2	90	55	108	83	112	95	143	93	163	108							
P.3.3	40	22	96	69	98	85	131	79	151	94							
P.4.1	140	87	121	97	126	105	155	107	175	122							
P.4.2	115	71	114	90	119	100	149	100	169	115							
M.1.1			121	97	126	105	155	107	175	122							
M.2.1			108	83	112	95	143	93	163	108							
M.3.1			117	93	121	102	152	103	172	118							
K.1.1	310	190	160	110							130	130					
K.1.2	160	100	150	110							110	110					
K.2.1	200	120	150	110							130	130					
K.2.2	130	80	150	110							120	120					
K.3.1	190	115									130	130					
K.3.2	160	100									110	110					
N.1.1												1500					
N.1.2												1000					
N.2.1												1100					
N.2.2												1000					
N.2.3												280					
N.3.1												350					
N.3.2												350					
N.3.3												320					
N.4.1												320					
S.1.1										80				80		64	
S.1.2										70				70		56	
S.2.1										35				35		28	
S.2.2										25				25		20	
S.2.3										30				30		24	
S.3.1										80				80		64	
S.3.2										50				50		40	
S.3.3										40				40		32	
H.1.1																	
H.1.2																	
H.1.3																	
H.1.4																	
H.2.1																	
H.3.1																	
O.1.1											160	160					
O.1.2																	
O.2.1											240	240					
O.2.2																	
O.3.1																	

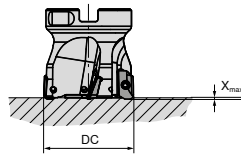
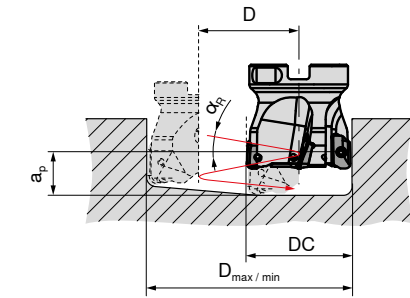


The cutting data is strongly influenced by external conditions, such as the stability of the tool and workpiece clamping, material and type of machine. The specified values represent guideline cutting data that can be adjusted by approx. $\pm 20\%$ according to the usage conditions.

System MaxiMill 211-07

Machining strategy

Helical plunging

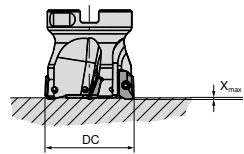


$$a_p \text{ in mm} = D * \pi * \tan \alpha_R$$

DC mm	D _{max} / RE 0,4 mm	D _{min} mm	α _{R max} °
10	19	13	5,5
12	23	17	6,0
16	31	25	3,0
20	39	33	2,0
25	49	43	1,5
32	63	57	1,2
40	79	73	0,8
50	99	93	0,7

DC mm	D mm	α _{R max 360°} °
10	13	5,5
12	17	6,0
16	25	3,0
20	33	2,0
25	43	1,5
32	57	1,2
40	73	0,8
50	93	0,7

Axial ramping

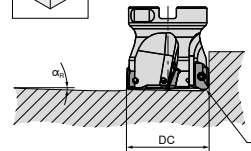


DC mm	X _{max} mm
10	0,8
12	0,8
16	0,8
20	0,8
25	0,8
32	0,8
40	0,8
50	0,8

D_{max} in mm = largest diameter for flat bottom hole

D_{min} in mm = smallest hole diameter for flat bottom surface

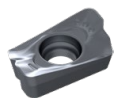
Angled ramping



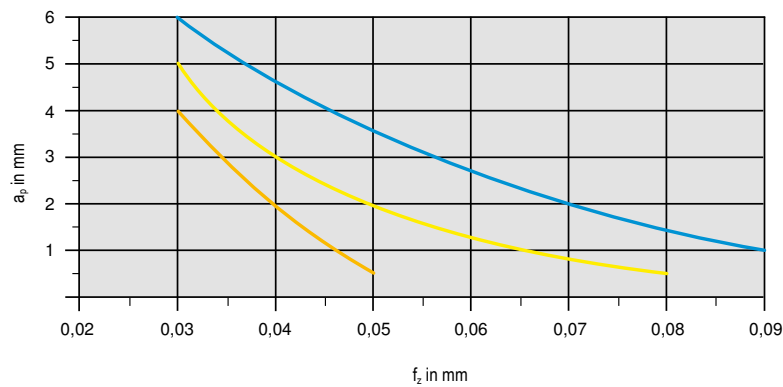
DC mm	α °
10	11,0
12	7,9
16	4,3
20	3,0
25	2,5
32	1,6
40	1,2
50	1,0

$$D = D_{max} - DC / D_{min} - DC$$

Starting Parameter



XDKT 07



Material	Inserts	v _c in m/min	Cooling
Steel	P.2.2 40CrMnMoS 8-6 XDKT070308SR-M50 CTCP230	200	Dry
Stainless steel	M.1.1 X6CrNiMoTi 1712 2 XDKT070308SR-F50 CTPM240	180	Dry
Heat-resistant	S.2.2 Inconel 718 XDKT070308ER-F50 CTC5240	35	Emulsion



Detailed information on cutting speed for each grade can be found on → page 14
From v_c > 400 m/min, the tool must be balanced!





Solid drilling and bore machining	HSS drilling	1
	Solid carbide drilling	
	Reamers	
Threading	HSS taps	2
	Circular and Thread Milling	
	Thread turning	
Turning	Turning Tools	3
	Multifunction	
	Grooving Tools	
	Miniature turning tools	
Milling	Solid Carbide milling cutters	4
	Milling tools with indexable inserts	
Clamping technology	Collets and reduction sleeves	5

Table of contents

Overview	4
Product programme	
Collets	5–15
Stem collets	16–21
Guide bushes	22–32
Clamping sleeves	33–41
Reduction sleeves	42
Technical Information	43

Overview

Collets

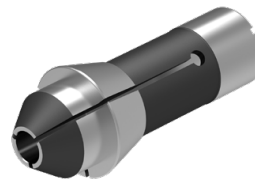
Collets for clamping the bar in the main spindle and for the sub-spindle



5–15

Stem collets

With an adapted stem for improved pick-up of the workpieces and for better secondary operation machinability



16–21

Guide bushes

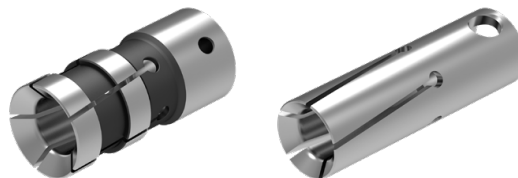
Ensures bar guidance in the main spindle



22–32

Clamping sleeves

Mounting for bar feeder magazines



33–41

Reduction sleeves

With a reduction sleeve, small tools can be used directly on tool clamping points with larger mounting diameters.



42



Other profile shapes and sizes and extended options available on request.

Collets overview

Norm	Clamping diameter range in mm	Profile	Version	Page No.
116 E / F 13	Ø 6,0 – 10,0		Grooved	6
	Ø 1,0 – 10,0		Smooth	6
120 E / F 15	Ø 6,0 – 12,0		Grooved	7
	Ø 1,0 – 12,0		Smooth	7
	SW 2,0 – 11,0		Grooved*	7
F 16 / 1212 E	Ø 1,0 – 13,0		Grooved	8
	Ø 6,0 – 13,0		Smooth	8
136 E / F 20-201	Ø 6,0 – 16,0		Grooved	9
	Ø 1,0 – 16,0		Smooth	9
138 E / F 20-87	Ø 6,0 – 16,0		Grooved	10
	Ø 1,0 – 16,0		Smooth	10
	SW 2,0 – 14,0		Grooved*	10
145 E / F 25	Ø 6,0 – 20,0		Grooved	11+12
	Ø 1,5 – 20,0		Smooth	11+12
	SW 2,0 – 19,0		Grooved*	11+12
	SW 2,0 – 15,0		Grooved*	11+12
F 37 / 1536 E	Ø 6,0 – 32,0		Grooved	13–15
	Ø 1,0 – 32,0		Smooth	13–15
	SW 3,0 – 27,0		Grooved*	13–15
	SW 3,0 – 23,0		Grooved*	13–15

* Grooved from SW 8

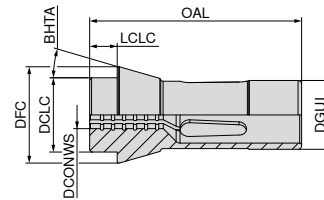


Other profile shapes and sizes and extended options available on request.

Should you wish to send us a request for specially adjusted solutions, you will find a detailed form in the download area on our homepage. Please fill it out carefully and send it via email or print it out and send via fax. → cuttingtools.ceratizit.com/ie/en/download.htmlPlease email the completed form to tsc@ceratizit.com.

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
116 E / F 13	13	19	13	6	64	16



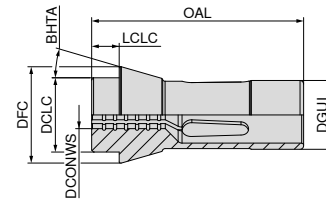
Pressure collet 116 E / F 13



DCONWS mm	Grooved 116 E / F 13		Smooth 116 E / F 13	
	81 000 ...	81 002 ...	81 000 ...	81 002 ...
	EUR Y8/YS	EUR Y8/YS	EUR Y8/YS	EUR Y8/YS
1,0			178,50	01000
1,5			178,50	01500
2,0			178,50	02000
2,5			178,50	02500
3,0			61,11	03000
3,5			61,11	03500
4,0			61,11	04000
4,5			61,11	04500
5,0			61,11	05000
5,5			61,11	05500
6,0	61,11	06000	87,20	06000
6,5	61,11	06500	87,20	06500
7,0	61,11	07000	87,20	07000
7,5	61,11	07500	87,20	07500
8,0	61,11	08000	87,20	08000
8,5	61,11	08500	87,20	08500
9,0	61,11	09000	87,20	09000
9,5	61,11	09500	87,20	09500
10,0	61,11	10000	87,20	10000

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
120 E / F 15	15	21	15	6	64	16



Pressure collet 120 E / F 15

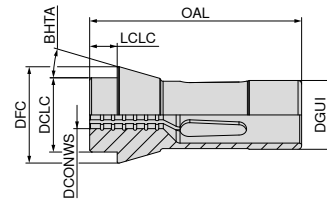


DCONWS mm	DCONWS inch	Grooved 120 E / F 15		Smooth 120 E / F 15		Grooved 120 E / F 15	
		81 003 ...		81 005 ...		81 031 ...	
		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS	
1,000				123,80	01000		
1,500				123,80	01500		
2,000				67,18	02000	236,60	02000 ¹⁾
2,500				67,18	02500		
3,000				40,97	03000	236,60	03000 ¹⁾
3,175	1/8					236,60	03175 ¹⁾
3,500				40,97	03500		
4,000				40,97	04000	126,00	04000 ¹⁾
4,500				40,97	04500		
5,000				40,97	05000	126,00	05000 ¹⁾
5,500				40,97	05500		
6,000		40,97	06000	67,18	06000	126,00	06000 ¹⁾
6,350	1/4					181,40	06350 ¹⁾
6,500		40,97	06500	67,18	06500		
7,000		40,97	07000	67,18	07000	126,00	07000 ¹⁾
7,500		40,97	07500	67,18	07500		
8,000		40,97	08000	67,18	08000	126,00	08000
8,500		40,97	08500	67,18	08500		
9,000		40,97	09000	67,18	09000	126,00	09000
9,500				67,18	09500		
10,000		40,97	10000	67,18	10000	151,30	10000
10,500		40,97	10500	67,18	10500		
11,000		40,97	11000	67,18	11000	263,60	11000
11,500		40,97	11500	67,18	11500		
12,000		40,97	12000	67,18	12000		

1) Without transverse grooves

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
F 16 / 1212 E	16	21	16	6	64	16



Pressure collet F 16 / 1212 E



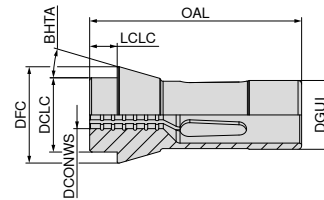
Grooved
F 16 / 1212 E

Smooth
F 16 / 1212 E

DCONWS mm	81 019 ... EUR Y8/YS		81 021 ... EUR Y8/YS	
1,0			94,22	01000
1,5			94,22	01500
2,0			94,22	02000
2,5			94,22	02500
3,0			61,11	03000
3,5			61,11	03500
4,0			61,11	04000
4,5			61,11	04500
5,0			61,11	05000
5,5			61,11	05500
6,0	61,11	06000	87,20	06000
6,5	61,11	06500	87,20	06500
7,0	61,11	07000	87,20	07000
7,5	61,11	07500	87,20	07500
8,0	61,11	08000	87,20	08000
8,5	61,11	08500	87,20	08500
9,0	61,11	09000	87,20	09000
9,5	61,11	09500	87,20	09500
10,0	61,11	10000	87,20	10000
10,5	61,11	10500	87,20	10500
11,0	61,11	11000	87,20	11000
11,5	61,11	11500	87,20	11500
12,0	61,11	12000	87,20	12000
12,5	61,11	12500	87,20	12500
13,0	61,11	13000	87,20	13000

Collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
136 E / F 20-201	20	26	19	5	54	15



Pressure collet 136 E / F 20-201

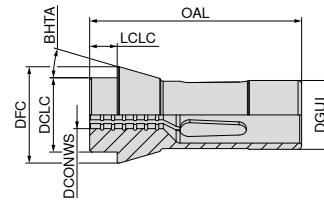


 Grooved
136 E / F 20-201
  Smooth
136 E / F 20-201

DCONWS mm	81 007 ... EUR Y8/YS		81 009 ... EUR Y8/YS	
1,0			152,80	01000
1,5			152,80	01500
2,0			99,51	02000
2,5			99,51	02500
3,0			61,11	03000
3,5			61,11	03500
4,0			61,11	04000
4,5			61,11	04500
5,0			61,11	05000
5,5			61,11	05500
6,0	61,11	06000	87,20	06000
6,5	61,11	06500	87,20	06500
7,0	61,11	07000	87,20	07000
7,5	61,11	07500	87,20	07500
8,0	61,11	08000	87,20	08000
8,5	61,11	08500	87,20	08500
9,0	61,11	09000	87,20	09000
9,5	61,11	09500	87,20	09500
10,0	61,11	10000	87,20	10000
10,5	61,11	10500	87,20	10500
11,0	61,11	11000	87,20	11000
11,5	61,11	11500	87,20	11500
12,0	61,11	12000	87,20	12000
12,5	61,11	12500	87,20	12500
13,0	61,11	13000	87,20	13000
13,5	61,11	13500	87,20	13500
14,0	61,11	14000	87,20	14000
14,5	61,11	14500	87,20	14500
15,0	61,11	15000	87,20	15000
15,5	61,11	15500	87,20	15500
16,0	61,11	16000	87,20	16000

Collets

Designation	DGWI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
138 E / F20-87	20	28	21	7	67	16



Pressure collet 138 E / F 20-87

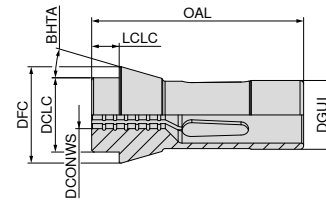


DCONWS mm	DCONWS inch	Grooved 138 E / F20-87		Smooth 138 E / F20-87		Grooved 138 E / F20-87	
		81 011 ...		81 013 ...		81 026 ...	
		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS	
1,00				155,50	01000		
1,50				155,50	01500		
2,00				85,44	02000	313,70	02000 ¹⁾
2,50				85,44	02500		
3,00				61,11	03000	148,80	03000 ¹⁾
3,50				61,11	03500		
4,00				61,11	04000	148,80	04000 ¹⁾
4,50				61,11	04500		
5,00				61,11	05000	148,80	05000 ¹⁾
5,50				61,11	05500		
6,00		61,11	06000	87,20	06000	148,80	06000 ¹⁾
6,35	1/4			204,80	06350 ¹⁾		
6,50		61,11	06500	87,20	06500		
7,00		61,11	07000	87,20	07000	117,60	07000 ¹⁾
7,50		61,11	07500	87,20	07500		
8,00		61,11	08000	87,20	08000	117,60	08000
8,50		61,11	08500	87,20	08500		
9,00		61,11	09000	87,20	09000	117,60	09000
9,50		61,11	09500	87,20	09500		
10,00		61,11	10000	87,20	10000	117,60	10000
10,50		61,11	10500	87,20	10500		
11,00		61,11	11000	87,20	11000	117,60	11000
11,50		61,11	11500	87,20	11500		
12,00		61,11	12000	87,20	12000	117,60	12000
12,50		61,11	12500	87,20	12500		
13,00		61,11	13000	87,20	13000	117,60	13000
13,50		61,11	13500	87,20	13500		
14,00		61,11	14000	87,20	14000	117,60	14000
14,50		61,11	14500	87,20	14500		
15,00		61,11	15000	87,20	15000		
15,50		61,11	15500	87,20	15500		
16,00		61,11	16000	87,20	16000		

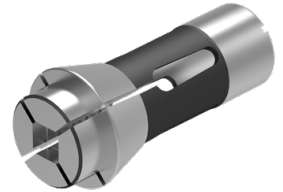
1) Without transverse grooves

Collets

Designation	DG UI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
145 E / F 25	25	35	27	10	77	16



Pressure collet 145 E / F 25



DCONWS mm	DCONWS inch	Grooved 145 E / F 25		Smooth 145 E / F 25		Grooved 145 E / F 25		Grooved 145 E / F 25	
		81 015 ...	EUR Y8/Y5	81 017 ...	EUR Y8/Y5	81 027 ...	EUR Y8/Y5	81 029 ...	EUR Y8/Y5
1,500				102,80	01500				
1,501 - 1,999				165,60	xxxxx ²⁾				
2,000				102,80	02000	343,40	02000 ¹⁾	434,00	02000 ¹⁾
2,001 - 2,499				165,60	xxxxx ²⁾				
2,500				102,80	02500				
2,501 - 2,999				165,60	xxxxx ²⁾				
3,000				73,21	03000	263,60	03000 ¹⁾	216,20	03000 ¹⁾
3,001 - 3,499				120,30	xxxxx ²⁾				
3,500				73,21	03500				
3,501 - 3,999				120,30	xxxxx ²⁾				
4,000				73,21	04000	204,30	04000 ¹⁾	155,50	04000 ¹⁾
4,001 - 4,499				120,30	xxxxx ²⁾				
4,500				73,21	04500				
4,501 - 4,999				120,30	xxxxx ²⁾				
5,000				73,21	05000	155,50	05000 ¹⁾	155,50	05000 ¹⁾
5,001 - 5,499				120,30	xxxxx ²⁾				
5,500				73,21	05500				
5,501 - 5,999				120,30	xxxxx ²⁾				
6,000		73,27	06000	99,36	06000	155,50	06000 ¹⁾	155,50	06000 ¹⁾
6,001 - 6,349		120,30	xxxxx ²⁾						
6,350	1/4	120,30	06350	146,50	06350	211,00	06350 ¹⁾		
6,351 - 6,499		120,30	xxxxx ²⁾						
6,500		73,27	06500	99,36	06500				
6,501 - 6,999		120,30	xxxxx ²⁾						
7,000		73,27	07000	99,36	07000	120,70	07000 ¹⁾	120,70	07000 ¹⁾
7,001 - 7,499		120,30	xxxxx ²⁾						
7,500		73,27	07500	99,36	07500				
7,501 - 7,937		120,30	xxxxx ²⁾						
7,938	5/16	120,30	07938	146,50	07938				
7,939 - 7,999		120,30	xxxxx ²⁾						
8,000		73,27	08000	99,36	08000	120,70	08000	120,70	08000
8,001 - 8,499		120,30	xxxxx ²⁾						
8,500		73,27	08500	99,36	08500				
8,501 - 8,999		120,30	xxxxx ²⁾						
9,000		73,27	09000	99,36	09000	120,70	09000	120,70	09000
9,001 - 9,499		120,30	xxxxx ²⁾						
9,500		73,27	09500	99,36	09500				
9,501 - 9,999		120,30	xxxxx ²⁾						
10,000		73,27	10000	99,36	10000	120,70	10000	120,70	10000
10,001 - 10,499		120,30	xxxxx ²⁾						
10,500		73,27	10500	99,36	10500				
10,501 - 10,999		120,30	xxxxx ²⁾						
11,000		73,27	11000	99,36	11000	120,70	11000	120,70	11000
11,001 - 11,112		120,30	xxxxx ²⁾						

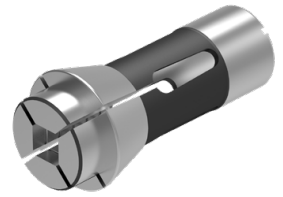
1) Without transverse grooves

2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 015 06789).

Pressure collet 145 E / F 25



DCONWS mm	DCONWS inch	Grooved 145 E / F 25		Smooth 145 E / F 25		Grooved 145 E / F 25		Grooved 145 E / F 25	
		81 015 ...		81 017 ...		81 027 ...		81 029 ...	
		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS	
11,113	7/16	120,30	11113	146,50	11113				
11,114 - 11,499		120,30	xxxxx ²⁾						
11,500		73,27	11500	99,36	11500				
11,501 - 11,999		120,30	xxxxx ²⁾						
12,000		73,27	12000	99,36	12000	120,70	12000	120,70	12000
12,001 - 12,499		120,30	xxxxx ²⁾						
12,500		73,27	12500	99,36	12500				
12,501 - 12,699		120,30	xxxxx ²⁾						
12,700	1/2	120,30	12700	146,50	12700	120,70	12700		
12,701 - 12,999		120,30	xxxxx ²⁾						
13,000		73,27	13000	99,36	13000	120,70	13000	120,70	13000
13,001 - 13,499		120,30	xxxxx ²⁾						
13,500		73,27	13500	99,36	13500				
13,501 - 13,999		120,30	xxxxx ²⁾						
14,000		73,27	14000	99,36	14000	120,70	14000	120,70	14000
14,001 - 14,499		120,30	xxxxx ²⁾						
14,500		73,27	14500	99,36	14500				
14,501 - 14,999		120,30	xxxxx ²⁾						
15,000		73,27	15000	99,36	15000	120,70	15000	216,20	15000
15,001 - 15,499		120,30	xxxxx ²⁾						
15,500		73,27	15500	99,36	15500				
15,501 - 15,999		120,30	xxxxx ²⁾						
16,000		73,27	16000	99,36	16000	120,70	16000		
16,001 - 16,499		120,30	xxxxx ²⁾						
16,500		73,27	16500	99,36	16500				
16,501 - 16,999		120,30	xxxxx ²⁾						
17,000		73,27	17000	99,36	17000	120,70	17000		
17,001 - 17,499		120,30	xxxxx ²⁾						
17,500		73,27	17500	99,36	17500				
17,501 - 17,999		120,30	xxxxx ²⁾						
18,000		73,27	18000	99,36	18000	263,60	18000		
18,001 - 18,499		120,30	xxxxx ²⁾						
18,500		73,27	18500	99,36	18500				
18,501 - 18,999		120,30	xxxxx ²⁾						
19,000		73,27	19000	99,36	19000	263,60	19000		
19,001 - 19,049		120,30	xxxxx ²⁾						
19,050	3/4	120,30	19050						
19,051 - 19,499		120,30	xxxxx ²⁾						
19,500		73,27	19500	99,36	19500				
19,501 - 19,999		120,30	xxxxx ²⁾						
20,000		73,27	20000	99,36	20000				

1) Without transverse grooves

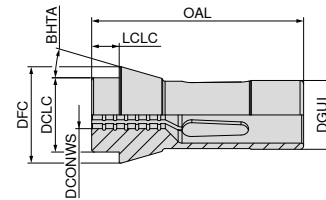
2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



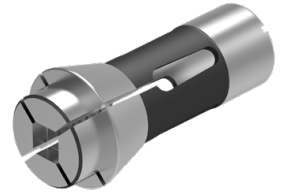
For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 015 06789).

Collets

Designation	DG UI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °
F 37 / 1536 E	37	47	40	10	92	16



Pressure collet F 37 / 1536 E



DCONWS mm	DCONWS inch	Grooved F 37 / 1536 E		Smooth F 37 / 1536 E		Grooved F 37 / 1536 E		Grooved F 37 / 1536 E	
		81 023 ...	EUR Y8/Y5	81 025 ...	EUR Y8/Y5	81 028 ...	EUR Y8/Y5	81 030 ...	EUR Y8/Y5
1,000				142,10	01000				
1,001 - 1,499				204,90	xxxxx ²⁾				
1,500				142,10	01500				
1,501 - 1,999				204,90	xxxxx ²⁾				
2,000				142,10	02000				
2,001 - 2,499				204,90	xxxxx ²⁾				
2,500				142,10	02500				
2,501 - 2,999				204,90	xxxxx ²⁾				
3,000				102,80	03000	329,80	03000 ¹⁾	263,60	03000 ¹⁾
3,001 - 3,499				150,00	xxxxx ²⁾				
3,500				102,80	03500				
3,501 - 3,999				150,00	xxxxx ²⁾				
4,000				102,80	04000	169,00	04000 ¹⁾	263,60	04000 ¹⁾
4,001 - 4,499				150,00	xxxxx ²⁾				
4,500				102,80	04500				
4,501 - 4,999				150,00	xxxxx ²⁾				
5,000				102,80	05000	169,00	05000 ¹⁾	263,60	05000 ¹⁾
5,001 - 5,499				150,00	xxxxx ²⁾				
5,500				102,80	05500				
5,501 - 5,999				150,00	xxxxx ²⁾				
6,000		102,90	06000	128,90	06000	169,00	06000 ¹⁾	263,60	06000 ¹⁾
6,001 - 6,349		150,10	xxxxx ²⁾						
6,350	1/4	150,10	06350	176,00	06350	223,10	06350 ¹⁾	263,60	06350 ¹⁾
6,351 - 6,499		150,10	xxxxx ²⁾						
6,500		102,90	06500	128,90	06500				
6,501 - 6,999		150,10	xxxxx ²⁾						
7,000		102,90	07000	128,90	07000	169,00	07000 ¹⁾	263,60	07000 ¹⁾
7,001 - 7,499		150,10	xxxxx ²⁾						
7,500		102,90	07500	128,90	07500				
7,501 - 7,999		150,10	xxxxx ²⁾						
8,000		102,90	08000	128,90	08000	169,00	08000	263,60	08000
8,001 - 8,499		150,10	xxxxx ²⁾						
8,500		102,90	08500	128,90	08500				
8,501 - 8,999		150,10	xxxxx ²⁾						
9,000		102,90	09000	128,90	09000	169,00	09000	263,60	09000
9,001 - 9,499		150,10	xxxxx ²⁾						
9,500		102,90	09500	128,90	09500				
9,501 - 9,524		150,10	xxxxx ²⁾						
9,525	3/8	150,10	09525						
9,526 - 9,999		150,10	xxxxx ²⁾						
10,000		102,90	10000	128,90	10000	169,00	10000	263,60	10000
10,001 - 10,499		150,10	xxxxx ²⁾						
10,500		102,90	10500	128,90	10500				
10,501 - 10,999		150,10	xxxxx ²⁾						

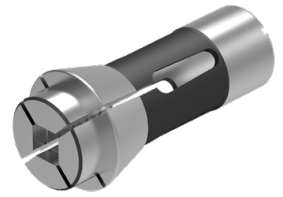
1) Without transverse grooves

2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 023 06789).

Pressure collet F 37 / 1536 E



DCONWS mm	DCONWS inch	Grooved F 37 / 1536 E		Smooth F 37 / 1536 E		Grooved F 37 / 1536 E		Grooved F 37 / 1536 E	
		81 023 ...		81 025 ...		81 028 ...		81 030 ...	
		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS	
11,000		102,90	11000	128,90	11000	169,00	11000	263,60	11000
11,001 - 11,499		150,10	xxxxx ²⁾						
11,500		102,90	11500	128,90	11500				
11,501 - 11,999		150,10	xxxxx ²⁾						
12,000		102,90	12000	128,90	12000	169,00	12000	263,60	12000
12,001 - 12,499		150,10	xxxxx ²⁾						
12,500		102,90	12500	128,90	12500				
12,501 - 12,699		150,10	xxxxx ²⁾						
12,700	1/2	150,10	12700	176,00	12700	223,10	12700	263,60	12700
12,701 - 12,999		150,10	xxxxx ²⁾						
13,000		102,90	13000	128,90	13000	169,00	13000	263,60	13000
13,001 - 13,499		150,10	xxxxx ²⁾						
13,500		102,90	13500	128,90	13500				
13,501 - 13,999		150,10	xxxxx ²⁾						
14,000		102,90	14000	128,90	14000	169,00	14000	263,60	14000
14,001 - 14,499		150,10	xxxxx ²⁾						
14,500		102,90	14500	128,90	14500				
14,501 - 14,999		150,10	xxxxx ²⁾						
15,000		102,90	15000	128,90	15000	169,00	15000	263,60	15000
15,001 - 15,499		150,10	xxxxx ²⁾						
15,500		102,90	15500	128,90	15500				
15,501 - 15,999		150,10	xxxxx ²⁾						
16,000		102,90	16000	128,90	16000	169,00	16000	263,60	16000
16,001 - 16,499		150,10	xxxxx ²⁾						
16,500		102,90	16500	128,90	16500				
16,501 - 16,999		150,10	xxxxx ²⁾						
17,000		102,90	17000	128,90	17000	169,00	17000	263,60	17000
17,001 - 17,499		150,10	xxxxx ²⁾						
17,500		102,90	17500	128,90	17500				
17,501 - 17,999		150,10	xxxxx ²⁾						
18,000		102,90	18000	128,90	18000	169,00	18000	263,60	18000
18,001 - 18,499		150,10	xxxxx ²⁾						
18,500		102,90	18500	128,90	18500				
18,501 - 18,999		150,10	xxxxx ²⁾						
19,000		102,90	19000	128,90	19000	169,00	19000	263,60	19000
19,001 - 19,049		150,10	xxxxx ²⁾						
19,050	3/4	150,10	19050	176,00	19050				
19,051 - 19,499		150,10	xxxxx ²⁾						
19,500		102,90	19500	128,90	19500				
19,501 - 19,999		150,10	xxxxx ²⁾						
20,000		102,90	20000	128,90	20000	169,00	20000	263,60	20000
20,001 - 20,499		150,10	xxxxx ²⁾						
20,500		102,90	20500	128,90	20500				
20,501 - 20,999		150,10	xxxxx ²⁾						
21,000		102,90	21000	128,90	21000	169,00	21000	263,60	21000
21,001 - 21,499		150,10	xxxxx ²⁾						
21,500		102,90	21500	128,90	21500				
21,501 - 21,999		150,10	xxxxx ²⁾						
22,000		102,90	22000	128,90	22000	169,00	22000	263,60	22000
22,001 - 22,224		150,10	xxxxx ²⁾						
22,225	7/8	150,10	22225						
22,226 - 22,499		150,10	xxxxx ²⁾						
22,500		129,10	22500	128,90	22500				
22,501 - 22,999		150,10	xxxxx ²⁾						
23,000		129,10	23000	128,90	23000	169,00	23000	263,60	23000

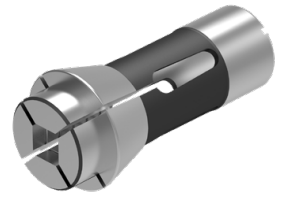
1) Without transverse grooves

2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 023 06789).

Pressure collet F 37 / 1536 E



DCONWS mm	DCONWS inch	Grooved F 37 / 1536 E		Smooth F 37 / 1536 E		Grooved F 37 / 1536 E		Grooved F 37 / 1536 E	
		81 023 ...		81 025 ...		81 028 ...		81 030 ...	
		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS		EUR Y8/YS	
23,001 - 23,499		150,10	xxxxx ²⁾						
23,500		129,10	23500	128,90	23500				
23,501 - 23,999		150,10	xxxxx ²⁾						
24,000		129,10	24000	128,90	24000	169,00	24000		
24,001 - 24,499		150,10	xxxxx ²⁾						
24,500		129,10	24500	128,90	24500				
24,501 - 24,999		150,10	xxxxx ²⁾						
25,000		102,90	25000	128,90	25000	169,00	25000		
25,001 - 25,499		150,10	xxxxx ²⁾						
25,400	1/1					223,10	25400		
25,500		102,90	25500	128,90	25500				
25,501 - 25,999		150,10	xxxxx ²⁾						
26,000		102,90	26000	128,90	26000	169,00	26000		
26,001 - 26,499		150,10	xxxxx ²⁾						
26,500		102,90	26500	128,90	26500				
26,501 - 26,999		150,10	xxxxx ²⁾						
27,000		102,90	27000	128,90	27000	169,00	27000		
27,001 - 27,499		150,10	xxxxx ²⁾						
27,500		102,90	27500	128,90	27500				
27,501 - 27,999		150,10	xxxxx ²⁾						
28,000		102,90	28000	128,90	28000				
28,001 - 28,499		150,10	xxxxx ²⁾						
28,500		102,90	28500	128,90	28500				
28,501 - 28,999		150,10	xxxxx ²⁾						
29,000		102,90	29000	128,90	29000				
29,001 - 29,499		150,10	xxxxx ²⁾						
29,500		102,90	29500	128,90	29500				
29,501 - 29,999		150,10	xxxxx ²⁾						
30,000		102,90	30000	128,90	30000				
30,001 - 30,499		150,10	xxxxx ²⁾						
30,500		102,90	30500	128,90	30500				
30,501 - 30,999		150,10	xxxxx ²⁾						
31,000		102,90	31000	128,90	31000				
31,001 - 31,499		150,10	xxxxx ²⁾						
31,500		102,90	31500	128,90	31500				
31,501 - 31,999		150,10	xxxxx ²⁾						
32,000		102,90	32000	128,90	32000				

1) Without transverse grooves

2) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 023 06789).

Stem collets overview

Norm	Clamping diameter range in mm	Profile	Version	Page No.
116 E / F 13	Ø 1,0 – 8,0		Smooth	17
120 E / F 15	Ø 1,0 – 8,0		Smooth	17
F 16 / 1212 E	Ø 1,0 – 9,0		Smooth	18
138 E / F 20-87	Ø 1,0 – 12,0		Smooth	18
136 E / F 20-201	Ø 1,0 – 14,0		Smooth	19
145 E / F 25	Ø 1,0 – 20,0		Smooth	20
F 37 / 1536 E	Ø 1,0 – 28,0		Smooth	21



Other profile shapes and sizes and extended options available on request.

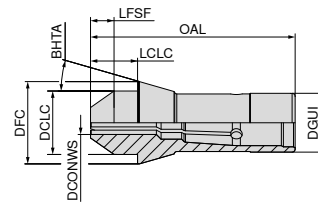


Should you wish to send us a request for specially adjusted solutions, you will find a detailed form in the download area on our homepage. Please fill it out carefully and send it via email or print it out and send via fax. → cuttingtools.ceratizit.com/ie/en/download.html

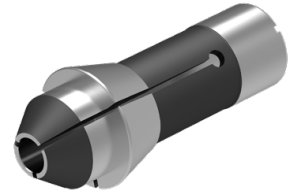
Please email the completed form to tsc@ceratizit.com.

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
116 E / F 13	13	19	13	12	70	16	6
120 E / F 15	15	21	15	13	71	16	7
120 E / F 15	15	21	15	15	73	16	9



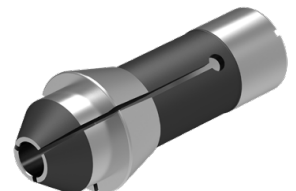
Stem collet 116 E / F 13



Smooth
116 E / F 13

DCONWS mm	EUR Y8/YS	
1	310,90	01000
2	310,90	02000
3	282,60	03000
4	282,60	04000
5	282,60	05000
6	282,60	06000
7	282,60	07000

Stem collet 120 E / F 15



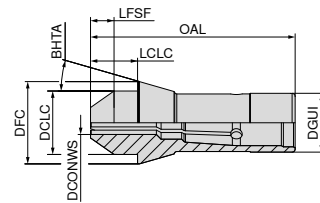
Smooth
120 E / F 15
LFSF = 7 mm

Smooth
120 E / F 15
LFSF = 9 mm

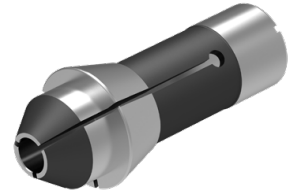
DCONWS mm	EUR Y8/YS		EUR Y8/YS	
1	312,30	01000	312,30	01000
2	312,30	02000	312,30	02000
3	286,70	03000	286,70	03000
4	286,70	04000	286,70	04000
5	286,70	05000	286,70	05000
6	286,70	06000	286,70	06000
7	286,70	07000	286,70	07000
8	286,70	08000	286,70	08000

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
F 16 / 1212 E	16	21	16	13	71	16	7
F 16 / 1212 E	16	21	16	15	73	16	9
138 E / F20-87	20	28	21	15	78	16	8
138 E / F20-87	20	28	21	20	80	16	13

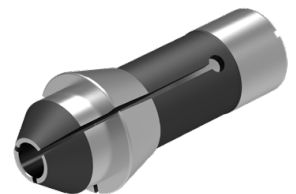


Stem collet F 16 / 1212 E



DCONWS mm		Smooth F 16 / 1212 E LFSF = 7 mm	Smooth F 16 / 1212 E LFSF = 9 mm
1		81 020 ...	81 022 ...
2		EUR Y8/YS 312,30 01000	EUR Y8/YS 312,30 01000
3		312,30 02000	312,30 02000
4		286,70 03000	286,70 03000
5		286,70 04000	286,70 04000
6		286,70 05000	373,10 05000
7		286,70 06000	373,10 06000
8		286,70 07000	373,10 07000
9		286,70 08000	286,70 08000
		286,70 09000	373,10 09000

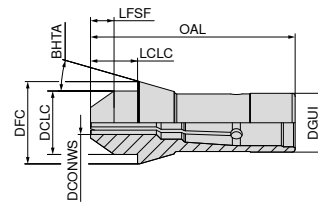
Stem collet 138 E / F 20-87



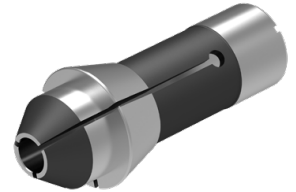
DCONWS mm		Smooth 138 E / F20-87 LFSF = 8 mm	Smooth 138 E / F20-87 LFSF = 13 mm
1		81 012 ...	81 014 ...
2		EUR Y8/YS 374,50 01000	EUR Y8/YS 374,50 01000
3		374,50 02000	374,50 02000
4		348,70 03000	348,70 03000
5		348,70 04000	348,70 04000
6		348,70 05000	348,70 05000
7		348,70 06000	348,70 06000
8		348,70 07000	348,70 07000
9		348,70 08000	348,70 08000
10		348,70 09000	348,70 09000
11		348,70 10000	348,70 10000
12		348,70 11000	348,70 11000
		348,70 12000	348,70 12000

Stem collets

Designation	DGUL mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
136 E / F 20-201	20	26	19	13	62	15	8
136 E / F 20-201	20	26	19	15	64	15	10



Stem collet 136 E / F 20-201

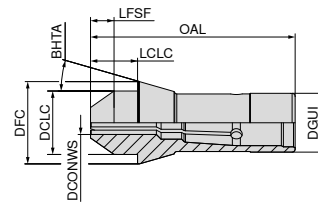


Smooth	Smooth
136 E / F 20-201	136 E / F 20-201
LFSF = 8 mm	LFSF = 10 mm

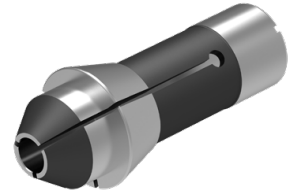
DCONWS mm	81 008 ... EUR Y8/YS	81 010 ... EUR Y8/YS
1	374,50 01000	374,50 01000
2	374,50 02000	374,50 02000
3	348,70 03000	348,70 03000
4	348,70 04000	348,70 04000
5	348,70 05000	348,70 05000
6	374,50 06000	348,70 06000
7	374,50 07000	348,70 07000
8	348,70 08000	348,70 08000
9	348,70 09000	348,70 09000
10	348,70 10000	348,70 10000
11	348,70 11000	348,70 11000
12	348,70 12000	348,70 12000
13		348,70 13000
14		348,70 14000

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
145 E / F 25	25	35	27	20	87	16	10
145 E / F 25	25	35	27	25	92	16	15



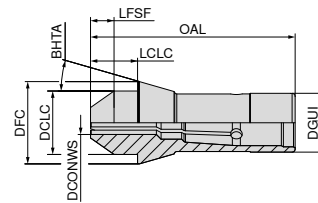
Stem collet 145 E / F 25



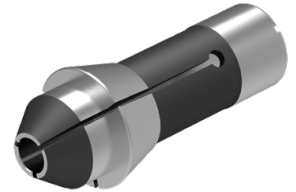
DCONWS mm	Smooth 145 E / F 25 LFSF = 10 mm		Smooth 145 E / F 25 LFSF = 15 mm	
	EUR Y8/YS		EUR Y8/YS	
1	374,50	01000	374,50	01000
2	374,50	02000	374,50	02000
3	348,70	03000	348,70	03000
4	348,70	04000	348,70	04000
5	348,70	05000	348,70	05000
6	348,70	06000	348,70	06000
7	348,70	07000	348,70	07000
8	348,70	08000	348,70	08000
9	348,70	09000	348,70	09000
10	348,70	10000	348,70	10000
11	348,70	11000	348,70	11000
12	348,70	12000	348,70	12000
13	348,70	13000	348,70	13000
14	348,70	14000	348,70	14000
15	348,70	15000	348,70	15000
16	348,70	16000	348,70	16000
17	348,70	17000	348,70	17000
18	348,70	18000	348,70	18000
19	348,70	19000	348,70	19000
20	348,70	20000	348,70	20000

Stem collets

Designation	DGUI mm	DFC mm	DCLC mm	LCLC mm	OAL mm	BHTA °	LFSF mm
F 37 / 1536 E	37	47	40	25	107	16	15



Stem collet F 37 / 1536 E



Smooth

F 37 / 1536 E

81 024 ...

DCONWS mm	EUR Y8/YS	
1	419,20	01000
2	419,20	02000
3	358,10	03000
4	358,10	04000
5	358,10	05000
6	358,10	06000
7	358,10	07000
8	358,10	08000
9	358,10	09000
10	358,10	10000
11	358,10	11000
12	358,10	12000
13	401,40	13000
14	358,10	14000
15	358,10	15000
16	358,10	16000
17	358,10	17000
18	358,10	18000
19	358,10	19000
20	358,10	20000
21	358,10	21000
22	358,10	22000
23	358,10	23000
24	358,10	24000
25	358,10	25000
26	358,10	26000
27	358,10	27000
28	358,10	28000

Adjustable guide bushes overview

Norm	Guide diameter range in mm	Profile	Version	Page No.
I353	Ø 1,0 – 10,5		Carbide insert	23
F853	Ø 1,0 – 13,0		Carbide insert	24
F391	Ø 1,0 – 18,0		Carbide insert	25
F605	Ø 1,0 – 17,0		Carbide insert	26
T223	Ø 1,0 – 22,0		Carbide insert	27
	SW 2,0 – 11,0		Carbide insert	27
	SW 2,0 – 15,0		Carbide insert	27
I357	Ø 2,0 – 22,0		Carbide insert	28
T227	Ø 1,0 – 25,0		Carbide insert	29
T229	Ø 2,0 – 32,0		Carbide insert	30
	SW 2,0 – 14,0		Carbide insert	30

Flexible GBE guide bushes overview

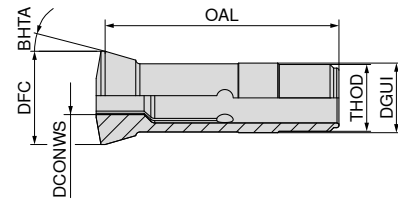
GBE 28	Ø 2,0 – 15,0		31
GBE 42	Ø 2,0 – 15,0		32



Other profile shapes and sizes and extended options available on request.

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
I 353 SR	16	19,5	56,79	16	M14 x 1



Adjustable guide bush I 353 SR

▲ For Star* CNC sliding head lathes

▲ With carbide insert

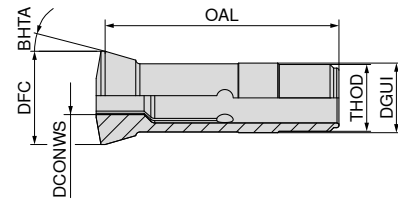


I 353 SR

DCONWS mm	EUR Y8/YF	81 035 ...
1,0	183,90	01000
1,5	169,00	01500
2,0	169,00	02000
2,5	169,00	02500
3,0	169,00	03000
3,5	169,00	03500
4,0	169,00	04000
4,5	135,30	04500
5,0	135,30	05000
5,5	150,10	05500
6,0	150,10	06000
6,5	159,50	06500
7,0	159,50	07000
7,5	169,00	07500
8,0	169,00	08000
8,5	174,50	08500
9,0	174,50	09000
9,5	181,30	09500
10,0	181,30	10000
10,5	187,90	10500

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
F 853	18	22	60	30	M16 x 1



Adjustable guide bush F 853

▲ With carbide insert

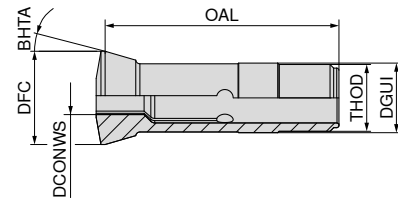


F 853

DCONWS		81 034 ...	
mm		EUR Y8/YF	
1,0		183,90	01000
1,5		169,00	01500
2,0		169,00	02000
2,5		169,00	02500
3,0		169,00	03000
3,5		169,00	03500
4,0		169,00	04000
4,5		135,30	04500
5,0		135,30	05000
5,5		150,10	05500
6,0		150,10	06000
6,5		159,50	06500
7,0		159,50	07000
7,5		169,00	07500
8,0		169,00	08000
8,5		174,50	08500
9,0		174,50	09000
9,5		181,30	09500
10,0		181,30	10000
10,5		187,90	10500
11,0		187,90	11000
11,5		196,10	11500
12,0		196,10	12000
12,5		205,50	12500
13,0		205,50	13000

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
F 391	22	29	68	16	M22 x 1



Adjustable guide bush F 391

▲ With carbide insert



F 391

81 032 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
1,000		206,70	01000
1,001 - 1,499		284,90	xxxxx ¹⁾
1,500		174,20	01500
1,501 - 1,999		252,40	xxxxx ¹⁾
2,000		174,20	02000
2,001 - 2,499		252,40	xxxxx ¹⁾
2,500		139,70	02500
2,501 - 2,999		217,90	xxxxx ¹⁾
3,000		139,70	03000
3,001 - 3,499		204,90	xxxxx ¹⁾
3,500		133,20	03500
3,501 - 3,999		198,30	xxxxx ¹⁾
4,000		133,20	04000
4,001 - 4,499		198,30	xxxxx ¹⁾
4,500		141,60	04500
4,501 - 4,999		206,70	xxxxx ¹⁾
5,000		141,60	05000
5,001 - 5,499		206,70	xxxxx ¹⁾
5,500		156,30	05500
5,501 - 5,999		221,70	xxxxx ¹⁾
6,000		156,30	06000
6,001 - 6,349		221,70	xxxxx ¹⁾
6,350	1/4	221,70	06350
6,351 - 6,499		221,70	xxxxx ¹⁾
6,500		162,10	06500
6,501 - 6,999		227,20	xxxxx ¹⁾
7,000		162,10	07000
7,001 - 7,499		227,20	xxxxx ¹⁾
7,500		174,20	07500
7,501 - 7,999		239,30	xxxxx ¹⁾
8,000		174,20	08000
8,001 - 8,499		239,30	xxxxx ¹⁾
8,500		181,50	08500
8,501 - 8,999		246,70	xxxxx ¹⁾
9,000		181,50	09000
9,001 - 9,499		246,70	xxxxx ¹⁾
9,500		189,00	09500
9,501 - 9,999		254,20	xxxxx ¹⁾
10,000		189,00	10000
10,001 - 10,499		254,20	xxxxx ¹⁾
10,500		195,70	10500
10,501 - 10,999		260,70	xxxxx ¹⁾
11,000		195,70	11000
11,001 - 11,499		260,70	xxxxx ¹⁾
11,500		202,90	11500
11,501 - 11,999		268,10	xxxxx ¹⁾
12,000		202,90	12000
12,001 - 12,499		268,10	xxxxx ¹⁾
12,500		219,70	12500
12,501 - 12,699		284,90	xxxxx ¹⁾

81 032 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
12,700	1/2	284,90	12700
12,701 - 12,999		284,90	xxxxx ¹⁾
13,000		219,70	13000
13,001 - 13,499		284,90	xxxxx ¹⁾
13,500		226,30	13500
13,501 - 13,999		291,50	xxxxx ¹⁾
14,000		226,30	14000
14,001 - 14,499		291,50	xxxxx ¹⁾
14,500		238,50	14500
14,501 - 14,999		303,50	xxxxx ¹⁾
15,000		238,50	15000
15,001 - 15,499		303,50	xxxxx ¹⁾
15,500		257,00	15500
15,501 - 15,999		322,20	xxxxx ¹⁾
16,000		257,00	16000
16,001 - 16,499		322,20	xxxxx ¹⁾
16,500		267,30	16500
16,501 - 16,999		332,30	xxxxx ¹⁾
17,000		267,30	17000
17,001 - 17,499		332,30	xxxxx ¹⁾
17,500		282,10	17500
17,501 - 17,999		347,40	xxxxx ¹⁾
18,000		282,10	18000

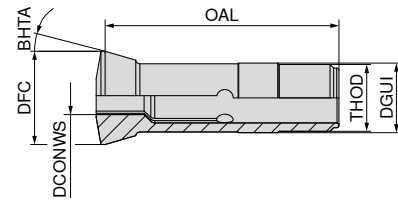
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 032 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
F 605	24	29,5	61	30	M24 x 1



Adjustable guide bush F 605

▲ With carbide insert



F 605

81 033 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
1,000		202,90	01000
1,001 - 1,499		281,10	xxxxx ¹⁾
1,500		174,20	01500
1,501 - 1,999		252,40	xxxxx ¹⁾
2,000		174,20	02000
2,001 - 2,499		252,40	xxxxx ¹⁾
2,500		139,70	02500
2,501 - 2,999		217,90	xxxxx ¹⁾
3,000		139,70	03000
3,001 - 3,174		204,90	xxxxx ¹⁾
3,175	1/8	204,90	03175
3,176 - 3,499		204,90	xxxxx ¹⁾
3,500		133,20	03500
3,501 - 3,999		198,30	xxxxx ¹⁾
4,000		133,20	04000
4,001 - 4,499		198,30	xxxxx ¹⁾
4,500		141,60	04500
4,501 - 4,762		206,70	xxxxx ¹⁾
4,763	3/16	206,70	04763
4,764 - 4,999		206,70	xxxxx ¹⁾
5,000		141,60	05000
5,001 - 5,499		206,70	xxxxx ¹⁾
5,500		156,30	05500
5,501 - 5,999		221,70	xxxxx ¹⁾
6,000		156,30	06000
6,001 - 6,349		221,70	xxxxx ¹⁾
6,350	1/4	221,70	06350
6,351 - 6,499		221,70	xxxxx ¹⁾
6,500		162,10	06500
6,501 - 6,999		227,20	xxxxx ¹⁾
7,000		162,10	07000
7,001 - 7,499		227,20	xxxxx ¹⁾
7,500		174,20	07500
7,501 - 7,999		239,30	xxxxx ¹⁾
8,000		174,20	08000
8,001 - 8,499		239,30	xxxxx ¹⁾
8,500		181,50	08500
8,501 - 8,999		246,70	xxxxx ¹⁾
9,000		181,50	09000
9,001 - 9,499		246,70	xxxxx ¹⁾
9,500		189,00	09500
9,501 - 9,999		254,20	xxxxx ¹⁾
10,000		189,00	10000
10,001 - 10,499		254,20	xxxxx ¹⁾
10,500		195,70	10500
10,501 - 10,999		260,70	xxxxx ¹⁾
11,000		195,70	11000
11,001 - 11,499		260,70	xxxxx ¹⁾
11,500		202,90	11500
11,501 - 11,999		268,10	xxxxx ¹⁾

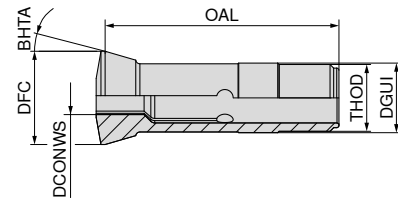
81 033 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
12,000		202,90	12000
12,001 - 12,499		268,10	xxxxx ¹⁾
12,500		219,70	12500
12,501 - 12,699		284,90	xxxxx ¹⁾
12,700	1/2	284,90	12700
12,701 - 12,999		284,90	xxxxx ¹⁾
13,000		219,70	13000
13,001 - 13,499		284,90	xxxxx ¹⁾
13,500		226,30	13500
13,501 - 13,999		291,50	xxxxx ¹⁾
14,000		226,30	14000
14,001 - 14,499		291,50	xxxxx ¹⁾
14,500		238,50	14500
14,501 - 14,999		303,50	xxxxx ¹⁾
15,000		238,50	15000
15,001 - 15,499		303,50	xxxxx ¹⁾
15,500		257,00	15500
15,501 - 15,999		322,20	xxxxx ¹⁾
16,000		257,00	16000
16,001 - 16,499		322,20	xxxxx ¹⁾
16,500		267,30	16500
16,501 - 16,999		332,30	xxxxx ¹⁾
17,000		267,30	17000

1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working daysFor xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 033 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
T 223	28	34	82	16	M25 x 1



Adjustable guide bush T 223

▲ With carbide insert



		T 223		T 223		T 223	
		81 037 ...		81 038 ...		81 039 ...	
DCONWS mm	DCONWS inch	EUR Y8/YF		EUR Y8/YF		EUR Y8/YF	
1,000		202,90	01000				
1,001 - 1,499		281,10	xxxxx ¹⁾				
1,500		235,60	01500				
1,501 - 1,999		313,80	xxxxx ¹⁾				
2,000		174,20	02000				
2,001 - 2,499		252,40	xxxxx ¹⁾				
2,500		139,70	02500				
2,501 - 2,999		217,90	xxxxx ¹⁾				
3,000		139,70	03000	301,30	03000	450,10	03000
3,001 - 3,499		204,90	xxxxx ¹⁾				
3,500		133,20	03500				
3,501 - 3,999		198,30	xxxxx ¹⁾				
4,000		133,20	04000	294,90	04000	443,40	04000
4,001 - 4,499		198,30	xxxxx ¹⁾				
4,500		141,60	04500				
4,501 - 4,999		206,70	xxxxx ¹⁾				
5,000		141,60	05000	269,90	05000	417,70	05000
5,001 - 5,499		206,70	xxxxx ¹⁾				
5,500		156,30	05500				
5,501 - 5,999		221,70	xxxxx ¹⁾				
6,000		156,30	06000	298,70	06000	447,50	06000
6,001 - 6,349		221,70	xxxxx ¹⁾				
6,350	1/4	221,70	06350	354,00	06350	505,70	06350
6,351 - 6,499		221,70	xxxxx ¹⁾				
6,500		162,10	06500				
6,501 - 6,999		227,20	xxxxx ¹⁾				
7,000		162,10	07000	313,30	07000	462,40	07000
7,001 - 7,499		227,20	xxxxx ¹⁾				
7,500		174,20	07500				
7,501 - 7,999		239,30	xxxxx ¹⁾				
7,938	5/16			381,80	07938		
8,000		174,20	08000	335,60	08000	484,00	08000
8,001 - 8,499		239,30	xxxxx ¹⁾				
8,500		181,50	08500				
8,501 - 8,999		246,70	xxxxx ¹⁾				
9,000		181,50	09000	348,50	09000	497,60	09000
9,001 - 9,499		246,70	xxxxx ¹⁾				
9,500		189,00	09500				
9,501 - 9,999		254,20	xxxxx ¹⁾				
9,525	3/8			406,80	09525		
10,000		189,00	10000	360,50	10000	509,70	10000
10,001 - 10,499		254,20	xxxxx ¹⁾				
10,500		195,70	10500				
10,501 - 10,999		260,70	xxxxx ¹⁾				
11,000		195,70	11000	374,40	11000	523,20	11000
11,001 - 11,499		260,70	xxxxx ¹⁾				
11,500		202,90	11500				
11,501 - 11,999		268,10	xxxxx ¹⁾				
12,000		202,90	12000	390,20	12000	538,10	12000
12,001 - 12,499		268,10	xxxxx ¹⁾				

		81 037 ...		81 038 ...		81 039 ...	
DCONWS mm	DCONWS inch	EUR Y8/YF		EUR Y8/YF		EUR Y8/YF	
12,500		219,70	12500				
12,501 - 12,699		284,90	xxxxx ¹⁾				
12,700	1/2	284,90	12700	462,30	12700		
12,701 - 12,999		284,90	xxxxx ¹⁾				
13,000		219,70	13000	416,00	13000	565,20	13000
13,001 - 13,499		284,90	xxxxx ¹⁾				
13,500		226,30	13500				
13,501 - 13,999		291,50	xxxxx ¹⁾				
14,000		226,30	14000	426,10	14000	574,70	14000
14,001 - 14,499		291,50	xxxxx ¹⁾				
14,500		238,50	14500				
14,501 - 14,999		303,50	xxxxx ¹⁾				
15,000		238,50	15000	443,60	15000		
15,001 - 15,499		303,50	xxxxx ¹⁾				
15,500		257,00	15500				
15,501 - 15,999		322,20	xxxxx ¹⁾				
16,000		257,00	16000	467,80	16000		
16,001 - 16,499		322,20	xxxxx ¹⁾				
16,500		267,30	16500				
16,501 - 16,999		332,30	xxxxx ¹⁾				
17,000		267,30	17000	485,30	17000		
17,001 - 17,499		332,30	xxxxx ¹⁾				
17,500		282,10	17500				
17,501 - 17,999		347,40	xxxxx ¹⁾				
18,000		282,10	18000				
18,001 - 18,499		347,40	xxxxx ¹⁾				
18,500		293,30	18500				
18,501 - 18,999		358,40	xxxxx ¹⁾				
19,000		293,30	19000				
19,001 - 19,499		358,40	xxxxx ¹⁾				
19,500		299,80	19500				
19,501 - 19,999		365,00	xxxxx ¹⁾				
20,000		299,80	20000				
20,001 - 20,499		365,00	xxxxx ¹⁾				
20,500		316,60	20500				
20,501 - 20,999		381,80	xxxxx ¹⁾				
21,000		316,60	21000				
21,001 - 21,499		381,80	xxxxx ¹⁾				
21,500		328,70	21500				
21,501 - 21,999		393,90	xxxxx ¹⁾				
22,000		452,50	22000				

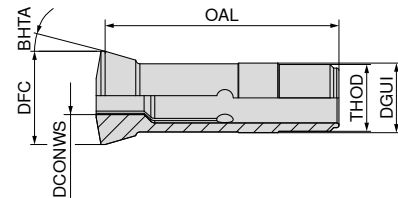
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 037 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
I 357	28	38	81	30	M25 x 1



Adjustable guide bush I 357

▲ With carbide insert



I 357

81 036 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
2,000		174,20	02000
2,001 - 2,499		252,40	xxxxx ¹⁾
2,500		174,20	02500
2,501 - 2,999		252,40	xxxxx ¹⁾
3,000		139,70	03000
3,001 - 3,174		204,90	xxxxx ¹⁾
3,175	1/8	204,90	03175
3,176 - 3,499		204,90	xxxxx ¹⁾
3,500		133,20	03500
3,501 - 3,999		198,30	xxxxx ¹⁾
4,000		133,20	04000
4,001 - 4,499		198,30	xxxxx ¹⁾
4,500		141,60	04500
4,501 - 4,999		206,70	xxxxx ¹⁾
5,000		141,60	05000
5,001 - 5,499		206,70	xxxxx ¹⁾
5,500		156,30	05500
5,501 - 5,999		221,70	xxxxx ¹⁾
6,000		156,30	06000
6,001 - 6,499		221,70	xxxxx ¹⁾
6,500		162,10	06500
6,501 - 6,999		227,20	xxxxx ¹⁾
7,000		162,10	07000
7,001 - 7,143		227,20	xxxxx ¹⁾
7,144	9/32	227,20	07144
7,145 - 7,499		227,20	xxxxx ¹⁾
7,500		174,20	07500
7,501 - 7,999		239,30	xxxxx ¹⁾
8,000		174,20	08000
8,001 - 8,499		239,30	xxxxx ¹⁾
8,500		181,50	08500
8,501 - 8,999		246,70	xxxxx ¹⁾
9,000		181,50	09000
9,001 - 9,499		246,70	xxxxx ¹⁾
9,500		189,00	09500
9,501 - 9,999		254,20	xxxxx ¹⁾
10,000		189,00	10000
10,001 - 10,499		254,20	xxxxx ¹⁾
10,500		195,70	10500
10,501 - 10,999		260,70	xxxxx ¹⁾
11,000		195,70	11000
11,001 - 11,499		260,70	xxxxx ¹⁾
11,500		202,90	11500
11,501 - 11,999		268,10	xxxxx ¹⁾
12,000		202,90	12000
12,001 - 12,499		268,10	xxxxx ¹⁾
12,500		219,70	12500
12,501 - 12,699		284,90	xxxxx ¹⁾
12,700	1/2	284,90	12700
12,701 - 12,999		284,90	xxxxx ¹⁾

81 036 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
13,000		219,70	13000
13,001 - 13,499		284,90	xxxxx ¹⁾
13,500		226,30	13500
13,501 - 13,999		291,50	xxxxx ¹⁾
14,000		226,30	14000
14,001 - 14,499		291,50	xxxxx ¹⁾
14,500		238,50	14500
14,501 - 14,999		303,50	xxxxx ¹⁾
15,000		238,50	15000
15,001 - 15,499		303,50	xxxxx ¹⁾
15,500		257,00	15500
15,501 - 15,999		322,20	xxxxx ¹⁾
16,000		257,00	16000
16,001 - 16,499		322,20	xxxxx ¹⁾
16,500		267,30	16500
16,501 - 16,999		332,30	xxxxx ¹⁾
17,000		267,30	17000
17,001 - 17,499		332,30	xxxxx ¹⁾
17,500		282,10	17500
17,501 - 17,999		347,40	xxxxx ¹⁾
18,000		282,10	18000
18,001 - 18,499		347,40	xxxxx ¹⁾
18,500		293,30	18500
18,501 - 18,999		358,40	xxxxx ¹⁾
19,000		293,30	19000
19,001 - 19,499		358,40	xxxxx ¹⁾
19,500		299,80	19500
19,501 - 19,999		365,00	xxxxx ¹⁾
20,000		299,80	20000
20,001 - 20,499		365,00	xxxxx ¹⁾
20,500		316,60	20500
20,501 - 20,999		381,80	xxxxx ¹⁾
21,000		316,60	21000
21,001 - 21,499		381,80	xxxxx ¹⁾
21,500		328,70	21500
21,501 - 21,999		393,90	xxxxx ¹⁾
22,000		329,60	22000

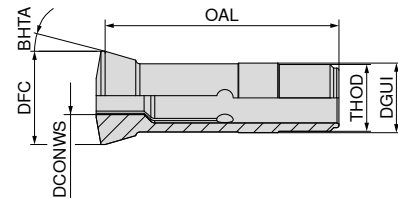
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 036 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
T 227	34	41	87,5	10	M34 x 1



Adjustable guide bush T 227

▲ With carbide insert



T 227

81 040 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
1,000		202,90	01000
1,001 - 1,499		281,10	xxxxx ¹⁾
1,500		202,90	01500
1,501 - 1,999		281,10	xxxxx ¹⁾
2,000		174,20	02000
2,001 - 2,499		252,40	xxxxx ¹⁾
2,500		139,70	02500
2,501 - 2,999		217,90	xxxxx ¹⁾
3,000		139,70	03000
3,001 - 3,499		204,90	xxxxx ¹⁾
3,500		133,20	03500
3,501 - 3,999		198,30	xxxxx ¹⁾
4,000		133,20	04000
4,001 - 4,499		198,30	xxxxx ¹⁾
4,500		141,60	04500
4,501 - 4,999		206,70	xxxxx ¹⁾
5,000		141,60	05000
5,001 - 5,499		206,70	xxxxx ¹⁾
5,500		156,30	05500
5,501 - 5,999		221,70	xxxxx ¹⁾
6,000		156,30	06000
6,001 - 6,349		221,70	xxxxx ¹⁾
6,350	1/4	221,70	06350
6,351 - 6,499		221,70	xxxxx ¹⁾
6,500		162,10	06500
6,501 - 6,999		227,20	xxxxx ¹⁾
7,000		162,10	07000
7,001 - 7,499		227,20	xxxxx ¹⁾
7,500		174,20	07500
7,501 - 7,999		239,30	xxxxx ¹⁾
8,000		174,20	08000
8,001 - 8,499		239,30	xxxxx ¹⁾
8,500		181,50	08500
8,501 - 8,999		246,70	xxxxx ¹⁾
9,000		181,50	09000
9,001 - 9,499		246,70	xxxxx ¹⁾
9,500		189,00	09500
9,501 - 9,999		254,20	xxxxx ¹⁾
10,000		189,00	10000
10,001 - 10,499		254,20	xxxxx ¹⁾
10,500		195,70	10500
10,501 - 10,999		260,70	xxxxx ¹⁾
11,000		195,70	11000
11,001 - 11,499		260,70	xxxxx ¹⁾
11,500		202,90	11500
11,501 - 11,999		268,10	xxxxx ¹⁾
12,000		202,90	12000
12,001 - 12,499		268,10	xxxxx ¹⁾
12,500		219,70	12500
12,501 - 12,699		284,90	xxxxx ¹⁾
12,700	1/2	284,90	12700
12,701 - 12,999		284,90	xxxxx ¹⁾

81 040 ...

DCONWS mm	DCONWS inch	EUR Y8/YF	
13,000		219,70	13000
13,001 - 13,499		284,90	xxxxx ¹⁾
13,500		226,30	13500
13,501 - 13,999		291,50	xxxxx ¹⁾
14,000		226,30	14000
14,001 - 14,499		291,50	xxxxx ¹⁾
14,500		238,50	14500
14,501 - 14,999		303,50	xxxxx ¹⁾
15,000		238,50	15000
15,001 - 15,499		303,50	xxxxx ¹⁾
15,500		257,00	15500
15,501 - 15,999		322,20	xxxxx ¹⁾
16,000		257,00	16000
16,001 - 16,499		322,20	xxxxx ¹⁾
16,500		267,30	16500
16,501 - 16,999		332,30	xxxxx ¹⁾
17,000		267,30	17000
17,001 - 17,499		332,30	xxxxx ¹⁾
17,500		282,10	17500
17,501 - 17,999		347,40	xxxxx ¹⁾
18,000		282,10	18000
18,001 - 18,499		347,40	xxxxx ¹⁾
18,500		293,30	18500
18,501 - 18,999		358,40	xxxxx ¹⁾
19,000		293,30	19000
19,001 - 19,499		358,40	xxxxx ¹⁾
19,500		299,80	19500
19,501 - 19,999		365,00	xxxxx ¹⁾
20,000		299,80	20000
20,001 - 20,499		365,00	xxxxx ¹⁾
20,500		316,60	20500
20,501 - 20,999		381,80	xxxxx ¹⁾
21,000		316,60	21000
21,001 - 21,499		381,80	xxxxx ¹⁾
21,500		328,70	21500
21,501 - 21,999		393,90	xxxxx ¹⁾
22,000		328,70	22000
22,001 - 22,499		393,90	xxxxx ¹⁾
22,500		338,10	22500
22,501 - 22,999		403,20	xxxxx ¹⁾
23,000		338,10	23000
23,001 - 23,499		403,20	xxxxx ¹⁾
23,500		349,10	23500
23,501 - 23,999		414,30	xxxxx ¹⁾
24,000		349,10	24000
24,001 - 24,499		414,30	xxxxx ¹⁾
24,500		352,90	24500
24,501 - 24,999		418,10	xxxxx ¹⁾
25,000		352,90	25000

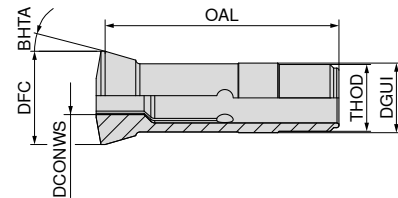
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 040 06789).

Adjustable guide bushes

Designation	DGUI mm	DFC mm	OAL mm	BHTA °	THOD
T 229	42	49	82	16	M40 x 1



Adjustable guide bush T 229

▲ With carbide insert



T 229

T 229

		81 041 ...		81 042 ...	
DCONWS mm	DCONWS inch	EUR Y8/YF		EUR Y8/YF	
2,000		260,70	02000		
2,001 - 2,499		339,00	xxxxx ¹⁾		
2,500		260,70	02500		
2,501 - 2,999		339,00	xxxxx ¹⁾		
3,000		257,00	03000		
3,001 - 3,499		322,20	xxxxx ¹⁾		
3,500		257,00	03500		
3,501 - 3,999		322,20	xxxxx ¹⁾		
4,000		226,30	04000	388,00	04000
4,001 - 4,499		291,50	xxxxx ¹⁾		
4,500		226,30	04500		
4,501 - 4,999		291,50	xxxxx ¹⁾		
5,000		206,70	05000	335,20	05000
5,001 - 5,499		271,90	xxxxx ¹⁾		
5,500		206,70	05500		
5,501 - 5,999		271,90	xxxxx ¹⁾		
6,000		211,30	06000	354,10	06000
6,001 - 6,349		276,50	xxxxx ¹⁾		
6,350	1/4	276,50	06350	411,60	06350
6,351 - 6,499		276,50	xxxxx ¹⁾		
6,500		211,30	06500		
6,501 - 6,999		276,50	xxxxx ¹⁾		
7,000		211,30	07000	362,30	07000
7,001 - 7,499		276,50	xxxxx ¹⁾		
7,500		211,30	07500		
7,501 - 7,999		276,50	xxxxx ¹⁾		
8,000		211,30	08000	373,10	08000
8,001 - 8,499		276,50	xxxxx ¹⁾		
8,500		211,30	08500		
8,501 - 8,999		276,50	xxxxx ¹⁾		
9,000		211,30	09000	378,50	09000
9,001 - 9,499		276,50	xxxxx ¹⁾		
9,500		211,30	09500		
9,501 - 9,524		276,50	xxxxx ¹⁾		
9,525	3/8	276,50	09525		
9,526 - 9,999		276,50	xxxxx ¹⁾		
10,000		211,30	10000	382,70	10000
10,001 - 10,499		276,50	xxxxx ¹⁾		
10,500		211,30	10500		
10,501 - 10,999		276,50	xxxxx ¹⁾		
11,000		217,10	11000	396,20	11000
11,001 - 11,499		282,10	xxxxx ¹⁾		
11,500		217,10	11500		
11,501 - 11,999		282,10	xxxxx ¹⁾		
12,000		217,10	12000	404,20	12000
12,001 - 12,499		282,10	xxxxx ¹⁾		
12,500		217,10	12500		
12,501 - 12,699		282,10	xxxxx ¹⁾		
12,700	1/2	282,10	12700		
12,701 - 12,999		282,10	xxxxx ¹⁾		
13,000		222,60	13000	419,20	13000
13,001 - 13,499		287,80	xxxxx ¹⁾		
13,500		222,60	13500		
13,501 - 13,999		287,80	xxxxx ¹⁾		
14,000		230,10	14000	429,90	14000
14,001 - 14,499		295,20	xxxxx ¹⁾		
14,500		230,10	14500		
14,501 - 14,999		295,20	xxxxx ¹⁾		
15,000		240,20	15000	446,20	15000
15,001 - 15,499		305,40	xxxxx ¹⁾		
15,500		240,20	15500		
15,501 - 15,999		305,40	xxxxx ¹⁾		
16,000		258,90	16000	470,50	16000
16,001 - 16,499		324,00	xxxxx ¹⁾		

		81 041 ...		81 042 ...	
DCONWS mm	DCONWS inch	EUR Y8/YF		EUR Y8/YF	
16,500		258,90	16500		
16,501 - 16,999		324,00	xxxxx ¹⁾		
17,000		269,10	17000	488,20	17000
17,001 - 17,499		334,30	xxxxx ¹⁾		
17,500		269,10	17500		
17,501 - 17,999		334,30	xxxxx ¹⁾		
18,000		284,00	18000	512,30	18000
18,001 - 18,499		349,10	xxxxx ¹⁾		
18,500		284,00	18500		
18,501 - 18,999		349,10	xxxxx ¹⁾		
19,000		291,50	19000	538,10	19000
19,001 - 19,049		356,60	xxxxx ¹⁾		
19,050	3/4	356,60	19050		
19,051 - 19,499		356,60	xxxxx ¹⁾		
19,500		291,50	19500		
19,501 - 19,999		356,60	xxxxx ¹⁾		
20,000		297,90	20000	554,30	20000
20,001 - 20,499		363,10	xxxxx ¹⁾		
20,500		297,90	20500		
20,501 - 20,999		363,10	xxxxx ¹⁾		
21,000		310,10	21000	580,10	21000
21,001 - 21,499		375,10	xxxxx ¹⁾		
21,500		310,10	21500		
21,501 - 21,999		375,10	xxxxx ¹⁾		
22,000		324,00	22000	601,70	22000
22,001 - 22,224		389,30	xxxxx ¹⁾		
22,225	7/8	389,30	22225		
22,226 - 22,499		389,30	xxxxx ¹⁾		
22,500		324,00	22500		
22,501 - 22,999		389,30	xxxxx ¹⁾		
23,000		339,00	23000	623,20	23000
23,001 - 23,499		404,10	xxxxx ¹⁾		
23,500		339,00	23500		
23,501 - 23,999		404,10	xxxxx ¹⁾		
24,000		345,40	24000	640,80	24000
24,001 - 24,499		410,70	xxxxx ¹⁾		
24,500		345,40	24500		
24,501 - 24,999		410,70	xxxxx ¹⁾		
25,000		351,00	25000	659,80	25000
25,001 - 25,499		416,20	xxxxx ¹⁾		
25,500		351,00	25500		
25,501 - 25,999		416,20	xxxxx ¹⁾		
26,000		359,50	26000	682,70	26000
26,001 - 26,499		424,60	xxxxx ¹⁾		
26,500		359,50	26500		
26,501 - 26,999		424,60	xxxxx ¹⁾		
27,000		378,00	27000	707,10	27000
27,001 - 27,499		443,10	xxxxx ¹⁾		
27,500		378,00	27500		
27,501 - 27,999		443,10	xxxxx ¹⁾		
28,000		400,30	28000		
28,001 - 28,499		465,50	xxxxx ¹⁾		
28,500		400,30	28500		
28,501 - 28,999		465,50	xxxxx ¹⁾		
29,000		419,10	29000		
29,001 - 29,499		484,20	xxxxx ¹⁾		
29,500		419,10	29500		
29,501 - 29,999		484,20	xxxxx ¹⁾		
30,000		429,20	30000		
30,001 - 30,499		494,40	xxxxx ¹⁾		
30,500		429,20	30500		
30,501 - 30,999		494,40	xxxxx ¹⁾		
31,000		444,10	31000		
31,001 - 31,499		509,30	xxxxx ¹⁾		
31,500		444,10	31500		
31,501 - 31,999		509,30	xxxxx ¹⁾		
32,000		458,10	32000		

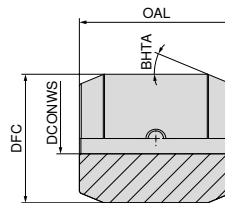
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



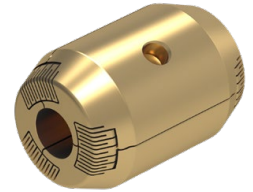
For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 041 06789).

Flexible guide bushes

Designation	DFC mm	OAL mm	BHTA °
GBE 28	28	40	22,5



Guide bush GBE 28

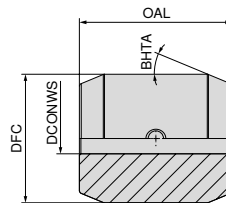


●
GBE 28

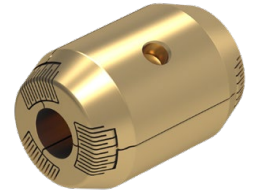
DCONWS mm	DCONWS inch		81 059 ...
3,000			EUR
4,000			Y8/YF
5,000			536,60 03000
6,000			536,60 04000
6,350	1/4		536,60 05000
7,000			536,60 06000
8,000			536,60 06350
9,000			536,60 07000
9,525	3/8		536,60 08000
10,000			536,60 09000
11,000			536,60 09525
12,000			451,60 10000
12,700	1/2		451,60 11000
13,000			451,60 12000
14,000			451,60 12700
15,000			451,60 13000
16,000			451,60 14000
17,000			451,60 15000
18,000			451,60 16000
19,000			451,60 17000
19,050	3/4		451,60 18000
20,000			451,60 19000
			451,60 20000

Flexible guide bushes

Designation	DFC mm	OAL mm	BHTA °
GBE 42	42	50	22,5



Guide bush GBE 42



●
GBE 42

DCONWS mm	DCONWS inch	81 060 ... EUR Y8/YF	
3,000		750,40	03000
4,000		750,40	04000
5,000		750,40	05000
6,000		750,40	06000
6,350	1/4	750,40	06350
7,000		750,40	07000
8,000		750,40	08000
9,000		750,40	09000
10,000		750,40	10000
11,000		665,20	11000
12,000		665,20	12000
12,700	1/2	665,20	12700
13,000		665,20	13000
14,000		665,20	14000
15,000		665,20	15000
15,875	5/8	665,20	15880
16,000		665,20	16000
17,000		665,20	17000
18,000		665,20	18000
19,000		665,20	19000
19,050	3/4	665,20	19050
20,000		665,20	20000
21,000		665,20	21000
22,000		665,20	22000
22,225	7/8	665,20	22225
23,000		665,20	23000
24,000		665,20	24000
25,000		665,20	25000
25,400	1/1	665,20	25400
26,000		665,20	26000
27,000		665,20	27000
28,000		665,20	28000
29,000		665,20	29000
30,000		665,20	30000
31,000		665,20	31000
32,000		665,20	32000

Clamping sleeves overview

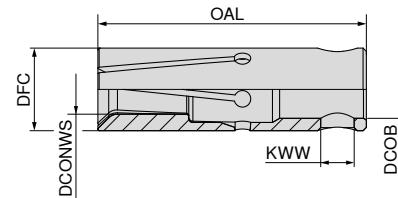
Norm	External diameter range in mm	Clamping diameter range	Profile	Version	Page No.
S 10 / 210 E	10	Ø 3,0 - 10,0			34
		SW 3,0 - 8,0			34
S 12 / 212 E	12	Ø 3,0 - 11,0			35
		SW 3,0 - 9,0			35
S 15 / 203 E	15	Ø 3,0 - 14,0			36
		SW 3,0 - 12,0			36
S 16	16	Ø 3,0 - 15,0			37
		SW 3,0 - 13,0			37
S 18 / 218 E	18	Ø 3,0 - 16,0			38
		SW 5,0 - 14,0			38
S 20 / 225 E	20	Ø 4,0 - 19,0			39
		SW 5,0 - 16,0			39
S 25 / 222 E	25	Ø 4,0 - 24,0			40
		SW 5,0 - 20,0			40
ST32 „Turbo“	32	Ø 5,0 - 32,0		Turbo	41
		SW 5,0 - 26,0			41



Other profile shapes and sizes and extended options available on request.

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 10 / 210 E	D 10	10	4	7	40



Clamping sleeve S 10 / 210 E

▲ Also suitable for all INDEX multi-spindle machines



DCONWS mm	DCONWS inch	S 10 / 210 E 81 043 ...		S 10 / 210 E 81 044 ...	
		EUR Y8/YS		EUR Y8/YS	
3,000		57,56	03000	122,90	03000
3,001 - 3,499		81,97	xxxxx ¹⁾		
3,500		57,56	03500		
3,501 - 3,999		81,97	xxxxx ¹⁾		
4,000		39,26	04000	100,60	04000
4,001 - 4,499		63,66	xxxxx ¹⁾		
4,500		39,26	04500		
4,501 - 4,999		63,66	xxxxx ¹⁾		
5,000		39,26	05000	100,60	05000
5,001 - 5,499		63,66	xxxxx ¹⁾		
5,500		39,26	05500		
5,501 - 5,999		63,66	xxxxx ¹⁾		
6,000		39,26	06000	100,60	06000
6,001 - 6,349		63,66	xxxxx ¹⁾		
6,350	1/4	63,66	06350		
6,351 - 6,499		63,66	xxxxx ¹⁾		
6,500		39,26	06500		
6,501 - 6,999		63,66	xxxxx ¹⁾		
7,000		39,26	07000	100,60	07000
7,001 - 7,143		63,66	xxxxx ¹⁾		
7,144	9/32	63,66	07144		
7,145 - 7,499		63,66	xxxxx ¹⁾		
7,500		39,26	07500		
7,501 - 7,937		63,66	xxxxx ¹⁾		
7,938	5/16	63,66	07938		
7,939 - 7,999		63,66	xxxxx ¹⁾		
8,000		39,26	08000	100,60	08000
8,001 - 8,499		63,66	xxxxx ¹⁾		
8,500		39,26	08500		
8,501 - 8,999		63,66	xxxxx ¹⁾		
9,000		57,56	09000		
9,001 - 9,499		81,97	xxxxx ¹⁾		
9,500		57,56	09500		
9,501 - 9,999		81,97	xxxxx ¹⁾		
10,000		57,56	10000		

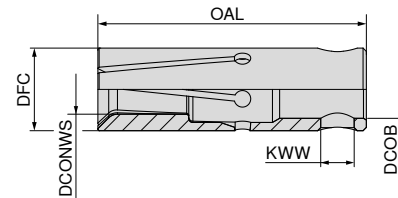
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 043 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 12 / 212 E	D 12	12	4	8	40



Clamping sleeve S 12 / 212 E

▲ Also suitable for all INDEX multi-spindle machines



DCONWS mm	DCONWS inch	S 12 / 212 E 81 045 ...		S 12 / 212 E 81 046 ...	
		EUR Y8/YS		EUR Y8/YS	
3,000		59,30	03000	128,20	03000
3,001 - 3,499		83,74	xxxxx ¹⁾		
3,500		59,30	03500		
3,501 - 3,999		83,74	xxxxx ¹⁾		
4,000		40,99	04000	102,70	04000
4,001 - 4,499		65,43	xxxxx ¹⁾		
4,500		40,99	04500		
4,501 - 4,762		65,43	xxxxx ¹⁾		
4,763	3/16	65,43	04763		
4,764 - 4,999		65,43	xxxxx ¹⁾		
5,000		40,99	05000	102,70	05000
5,001 - 5,499		65,43	xxxxx ¹⁾		
5,500		40,99	05500		
5,501 - 5,999		65,43	xxxxx ¹⁾		
6,000		40,99	06000	102,70	06000
6,001 - 6,349		65,43	xxxxx ¹⁾		
6,350	1/4	65,43	06350	135,60	06350
6,351 - 6,499		65,43	xxxxx ¹⁾		
6,500		40,99	06500		
6,501 - 6,999		65,43	xxxxx ¹⁾		
7,000		40,99	07000	102,70	07000
7,001 - 7,499		65,43	xxxxx ¹⁾		
7,500		40,99	07500		
7,501 - 7,937		65,43	xxxxx ¹⁾		
7,938	5/16	65,43	07938		
7,939 - 7,999		65,43	xxxxx ¹⁾		
8,000		40,99	08000	102,70	08000
8,001 - 8,499		65,43	xxxxx ¹⁾		
8,500		40,99	08500		
8,501 - 8,999		65,43	xxxxx ¹⁾		
9,000		40,99	09000	102,70	09000
9,001 - 9,499		65,43	xxxxx ¹⁾		
9,500		40,99	09500		
9,501 - 9,524		65,43	xxxxx ¹⁾		
9,525	3/8	65,43	09525		
9,526 - 9,999		65,43	xxxxx ¹⁾		
10,000		59,30	10000		
10,001 - 10,499		83,74	xxxxx ¹⁾		
10,500		59,30	10500		
10,501 - 10,999		83,74	xxxxx ¹⁾		
11,000		59,30	11000		

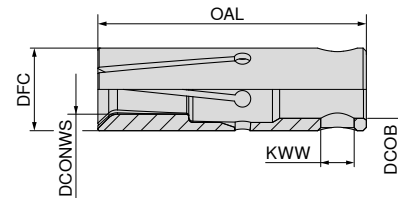
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 045 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 15 / 203 E	D 15	15	6	11	40



Clamping sleeve S 15 / 203 E

▲ Also suitable for all INDEX multi-spindle machines



S 15 / 203 E

S 15 / 203 E

DCONWS mm	DCONWS inch	81 047 ... EUR Y8/YS	81 048 ... EUR Y8/YS
3,000		63,62 03000	187,90 03000
3,001 - 3,174		88,01 xxxxx ¹⁾	
3,175	1/8	88,01 03175	
3,176 - 3,499		88,01 xxxxx ¹⁾	
3,500		63,62 03500	
3,501 - 3,999		88,01 xxxxx ¹⁾	
4,000		44,43 04000	106,90 04000
4,001 - 4,499		68,87 xxxxx ¹⁾	
4,500		44,43 04500	
4,501 - 4,999		68,87 xxxxx ¹⁾	
5,000		44,43 05000	106,90 05000
5,001 - 5,499		68,87 xxxxx ¹⁾	
5,500		44,43 05500	
5,501 - 5,999		68,87 xxxxx ¹⁾	
6,000		44,43 06000	106,90 06000
6,001 - 6,349		68,87 xxxxx ¹⁾	
6,350	1/4	68,87 06350	139,80 06350
6,351 - 6,499		68,87 xxxxx ¹⁾	
6,500		44,43 06500	
6,501 - 6,999		68,87 xxxxx ¹⁾	
7,000		44,43 07000	106,90 07000
7,001 - 7,499		68,87 xxxxx ¹⁾	
7,500		44,43 07500	
7,501 - 7,937		68,87 xxxxx ¹⁾	
7,938	5/16	68,87 07938	139,80 07938
7,939 - 7,999		68,87 xxxxx ¹⁾	
8,000		44,43 08000	106,90 08000
8,001 - 8,499		68,87 xxxxx ¹⁾	
8,500		44,43 08500	
8,501 - 8,999		68,87 xxxxx ¹⁾	
9,000		44,43 09000	106,90 09000
9,001 - 9,499		68,87 xxxxx ¹⁾	
9,500		44,43 09500	
9,501 - 9,524		68,87 xxxxx ¹⁾	
9,525	3/8	68,87 09525	
9,526 - 9,999		68,87 xxxxx ¹⁾	
10,000		44,43 10000	106,90 10000
10,001 - 10,499		68,87 xxxxx ¹⁾	
10,500		44,43 10500	
10,501 - 10,999		68,87 xxxxx ¹⁾	
11,000		44,43 11000	154,20 11000
11,001 - 11,112		68,87 xxxxx ¹⁾	
11,113	7/16	68,87 11113	
11,114 - 11,499		68,87 xxxxx ¹⁾	
11,500		44,43 11500	
11,501 - 11,999		68,87 xxxxx ¹⁾	
12,000		44,43 12000	154,20 12000
12,001 - 12,499		68,87 xxxxx ¹⁾	
12,500		44,43 12500	
12,501 - 12,699		68,87 xxxxx ¹⁾	

81 047 ...	81 048 ...
EUR Y8/YS	EUR Y8/YS
12,700	12700
12,701 - 12,999	xxxxx ¹⁾
13,000	13000
13,001 - 13,499	xxxxx ¹⁾
13,500	13500
13,501 - 13,999	xxxxx ¹⁾
14,000	14000

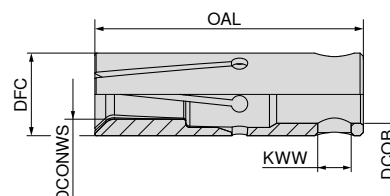
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 047 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 16	D 16	16	6	11	40



Clamping sleeve S 16

▲ Also suitable for all INDEX multi-spindle machines



S 16

S 16

		81 049 ...		81 050 ...	
DCONWS mm	DCONWS inch	EUR Y8/YS		EUR Y8/YS	
3,000		63,71	03000	187,90	03000
3,001 - 3,499		88,14	xxxxx ¹⁾		
3,500		63,71	03500		
3,501 - 3,999		88,14	xxxxx ¹⁾		
4,000		44,49	04000	106,90	04000
4,001 - 4,499		68,97	xxxxx ¹⁾		
4,500		44,49	04500		
4,501 - 4,999		68,97	xxxxx ¹⁾		
5,000		44,49	05000	106,90	05000
5,001 - 5,499		68,97	xxxxx ¹⁾		
5,500		44,49	05500		
5,501 - 5,999		68,97	xxxxx ¹⁾		
6,000		44,49	06000	106,90	06000
6,001 - 6,349		68,97	xxxxx ¹⁾		
6,350	1/4	68,97	06350		
6,351 - 6,499		68,97	xxxxx ¹⁾		
6,500		44,49	06500		
6,501 - 6,999		68,97	xxxxx ¹⁾		
7,000		44,49	07000	106,90	07000
7,001 - 7,499		68,97	xxxxx ¹⁾		
7,500		44,49	07500		
7,501 - 7,999		68,97	xxxxx ¹⁾		
8,000		44,49	08000	106,90	08000
8,001 - 8,499		68,97	xxxxx ¹⁾		
8,500		44,49	08500		
8,501 - 8,999		68,97	xxxxx ¹⁾		
9,000		44,49	09000	106,90	09000
9,001 - 9,499		68,97	xxxxx ¹⁾		
9,500		44,49	09500		
9,501 - 9,524		68,97	xxxxx ¹⁾		
9,525	3/8	68,97	09525		
9,526 - 9,999		68,97	xxxxx ¹⁾		
10,000		44,49	10000	106,90	10000
10,001 - 10,499		68,97	xxxxx ¹⁾		
10,500		44,49	10500		
10,501 - 10,999		68,97	xxxxx ¹⁾		
11,000		44,49	11000	106,90	11000
11,001 - 11,112		68,97	xxxxx ¹⁾		
11,113	7/16	68,97	11113		
11,114 - 11,499		68,97	xxxxx ¹⁾		
11,500		44,49	11500		
11,501 - 11,999		68,97	xxxxx ¹⁾		
12,000		44,49	12000	154,20	12000
12,001 - 12,499		68,97	xxxxx ¹⁾		
12,500		44,49	12500		
12,501 - 12,699		68,97	xxxxx ¹⁾		
12,700	1/2	68,97	12700		
12,701 - 12,999		68,97	xxxxx ¹⁾		
13,000		44,49	13000	154,20	13000
13,001 - 13,499		68,97	xxxxx ¹⁾		

81 049 ... 81 050 ...

DCONWS mm	DCONWS inch	EUR Y8/YS		EUR Y8/YS	
13,500		64,59	13500		
13,501 - 13,999		89,05	xxxxx ¹⁾		
14,000		64,59	14000		
14,001 - 14,287		89,05	xxxxx ¹⁾		
14,288	9/16	89,05	14288		
14,289 - 14,499		89,05	xxxxx ¹⁾		
14,500		64,59	14500		
14,501 - 14,999		89,05	xxxxx ¹⁾		
15,000		64,59	15000		

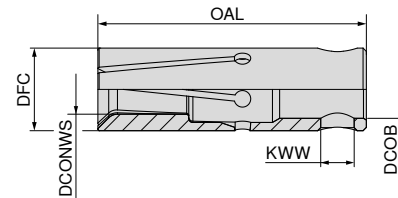
1) Not available ex stock, articles are non-returnable and cannot be exchanged / Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 049 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 18 / 218 E	D 18	18	6	11	40



Clamping sleeve S 18 / 218 E

▲ Also suitable for all INDEX multi-spindle machines



S 18 / 218 E

S 18 / 218 E

DCONWS mm	DCONWS inch	81 051 ... EUR Y8/YS	81 052 ... EUR Y8/YS
3,000		68,94 03000	
3,001 - 3,174		93,28 xxxxx ¹⁾	
3,175	1/8	93,28 03175	
3,176 - 3,499		93,28 xxxxx ¹⁾	
3,500		68,94 03500	
3,501 - 3,999		93,28 xxxxx ¹⁾	
4,000		68,94 04000	
4,001 - 4,499		93,28 xxxxx ¹⁾	
4,500		68,94 04500	
4,501 - 4,762		93,28 xxxxx ¹⁾	
4,763	3/16	93,28 04763	
4,764 - 4,999		93,28 xxxxx ¹⁾	
5,000		48,83 05000	112,20 05000
5,001 - 5,499		93,28 xxxxx ¹⁾	
5,500		48,83 05500	
5,501 - 5,999		93,28 xxxxx ¹⁾	
6,000		48,83 06000	112,20 06000
6,001 - 6,499		93,28 xxxxx ¹⁾	
6,500		48,83 06500	
6,501 - 6,999		93,28 xxxxx ¹⁾	
7,000		48,83 07000	112,20 07000
7,001 - 7,499		93,28 xxxxx ¹⁾	
7,500		48,83 07500	
7,501 - 7,937		93,28 xxxxx ¹⁾	
7,938	5/16	73,27 07938	
7,939 - 7,999		73,27 xxxxx ¹⁾	
8,000		48,83 08000	112,20 08000
8,001 - 8,499		73,27 xxxxx ¹⁾	
8,500		48,83 08500	
8,501 - 8,999		73,27 xxxxx ¹⁾	
9,000		48,83 09000	112,20 09000
9,001 - 9,499		73,27 xxxxx ¹⁾	
9,500		48,83 09500	
9,501 - 9,524		73,27 xxxxx ¹⁾	
9,525	3/8	73,27 09525	
9,526 - 9,999		73,27 xxxxx ¹⁾	
10,000		48,83 10000	112,20 10000
10,001 - 10,499		73,27 xxxxx ¹⁾	
10,500		48,83 10500	
10,501 - 10,999		73,27 xxxxx ¹⁾	
11,000		48,83 11000	159,50 11000
11,001 - 11,112		73,27 xxxxx ¹⁾	
11,113	7/16	73,27 11113	
11,114 - 11,499		73,27 xxxxx ¹⁾	
11,500		48,83 11500	
11,501 - 11,999		73,27 xxxxx ¹⁾	
12,000		48,83 12000	159,50 12000
12,001 - 12,499		73,27 xxxxx ¹⁾	
12,500		48,83 12500	
12,501 - 12,699		73,27 xxxxx ¹⁾	
12,700	1/2	73,27 12700	187,90 12700
12,701 - 12,999		73,27 xxxxx ¹⁾	
13,000		48,83 13000	159,50 13000
13,001 - 13,499		73,27 xxxxx ¹⁾	
13,500		48,83 13500	

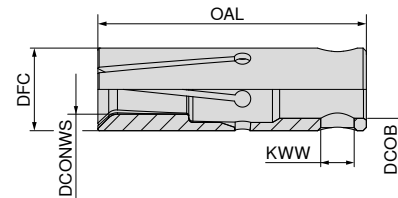
81 051 ... 81 052 ...

DCONWS mm	DCONWS inch	EUR Y8/YS	EUR Y8/YS
13,501 - 13,999		73,27 xxxxx ¹⁾	
14,000		48,83 14000	159,50 14000
14,001 - 14,287		73,27 xxxxx ¹⁾	
14,288	9/16	73,27 14288	
14,289 - 14,499		73,27 xxxxx ¹⁾	
14,500		48,83 14500	
14,501 - 14,999		73,27 xxxxx ¹⁾	
15,000		48,83 15000	
15,001 - 15,499		73,27 xxxxx ¹⁾	
15,500		48,83 15500	
15,501 - 15,874		73,27 xxxxx ¹⁾	
15,875	5/8	73,27 15875	
15,876 - 15,999		73,27 xxxxx ¹⁾	
16,000		48,83 16000	

1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working daysFor xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 051 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 20 / 225 E	D 20	20	8	14	65



Clamping sleeve S 20 / 225 E

▲ Also suitable for all INDEX multi-spindle machines



S 20 / 225 E

S 20 / 225 E

DCONWS mm	DCONWS inch	81 053 ... EUR Y8/YS	81 054 ... EUR Y8/YS
4,000		68,87 04000	
4,001 - 4,499		93,27 xxxxx ¹⁾	
4,500		68,87 04500	
4,501 - 4,762		93,27 xxxxx ¹⁾	
4,763	3/16	93,27 04763	
4,764 - 4,999		93,27 xxxxx ¹⁾	
5,000		68,87 05000	115,50 05000
5,001 - 5,499		93,27 xxxxx ¹⁾	
5,500		68,87 05500	
5,501 - 5,999		93,27 xxxxx ¹⁾	
6,000		51,42 06000	115,50 06000
6,001 - 6,349		75,81 xxxxx ¹⁾	
6,350	1/4	75,81 06350	169,60 06350
6,351 - 6,499		75,81 xxxxx ¹⁾	
6,500		51,42 06500	
6,501 - 6,999		75,81 xxxxx ¹⁾	
7,000		51,42 07000	115,50 07000
7,001 - 7,499		75,81 xxxxx ¹⁾	
7,500		51,42 07500	
7,501 - 7,937		75,81 xxxxx ¹⁾	
7,938	5/16	75,81 07938	
7,939 - 7,999		75,81 xxxxx ¹⁾	
8,000		51,42 08000	115,50 08000
8,001 - 8,499		75,81 xxxxx ¹⁾	
8,500		51,42 08500	
8,501 - 8,999		75,81 xxxxx ¹⁾	
9,000		51,42 09000	115,50 09000
9,001 - 9,499		75,81 xxxxx ¹⁾	
9,500		51,42 09500	
9,501 - 9,524		75,81 xxxxx ¹⁾	
9,525	3/8	75,81 09525	
9,526 - 9,999		75,81 xxxxx ¹⁾	
10,000		51,42 10000	115,50 10000
10,001 - 10,499		75,81 xxxxx ¹⁾	
10,500		51,42 10500	
10,501 - 10,999		75,81 xxxxx ¹⁾	
11,000		51,42 11000	162,40 11000
11,001 - 11,112		75,81 xxxxx ¹⁾	
11,113	7/16	75,81 11113	
11,114 - 11,499		75,81 xxxxx ¹⁾	
11,500		51,42 11500	
11,501 - 11,999		75,81 xxxxx ¹⁾	
12,000		51,42 12000	162,40 12000
12,001 - 12,499		75,81 xxxxx ¹⁾	
12,500		51,42 12500	
12,501 - 12,699		75,81 xxxxx ¹⁾	
12,700	1/2	75,81 12700	192,00 12700
12,701 - 12,999		75,81 xxxxx ¹⁾	
13,000		51,42 13000	162,40 13000
13,001 - 13,499		75,81 xxxxx ¹⁾	
13,500		51,42 13500	
13,501 - 13,999		75,81 xxxxx ¹⁾	
14,000		51,42 14000	162,40 14000
14,001 - 14,499		75,81 xxxxx ¹⁾	
14,500		51,42 14500	

81 053 ...

81 054 ...

DCONWS mm	DCONWS inch	EUR Y8/YS	EUR Y8/YS
14,501 - 14,999		75,81 xxxxx ¹⁾	
15,000		51,42 15000	162,40 15000
15,001 - 15,499		75,81 xxxxx ¹⁾	
15,500		51,42 15500	
15,501 - 15,999		75,81 xxxxx ¹⁾	
16,000		51,42 16000	162,40 16000
16,001 - 16,499		75,81 xxxxx ¹⁾	
16,500		51,42 16500	
16,501 - 16,999		75,81 xxxxx ¹⁾	
17,000		51,42 17000	
17,001 - 17,499		75,81 xxxxx ¹⁾	
17,500		51,42 17500	
17,501 - 17,999		75,81 xxxxx ¹⁾	
18,000		51,42 18000	
18,001 - 18,499		75,81 xxxxx ¹⁾	
18,500		68,87 18500	
18,501 - 18,999		93,27 xxxxx ¹⁾	
19,000		68,87 19000	

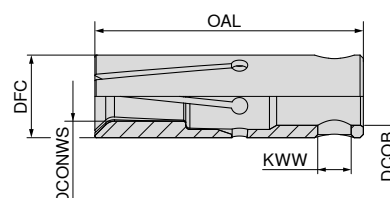
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 053 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	KWW mm	DCOB _{H7} mm	OAL mm
S 25 / 222 E	D 25	25	8	20	65



Clamping sleeve S 25 / 222 E

▲ Also suitable for all INDEX multi-spindle machines



S 25 / 222 E

S 25 / 222 E

DCONWS mm	DCONWS inch	EUR Y8/YS	81 056 ...	EUR Y8/YS	81 055 ...
4,000				70,72	04000
4,001 - 4,499				95,14	xxxxx ¹⁾
4,500				70,72	04500
4,501 - 4,999				95,14	xxxxx ¹⁾
5,000		139,30	05000	70,72	05000
5,001 - 5,499				95,14	xxxxx ¹⁾
5,500				70,72	05500
5,501 - 5,999				95,14	xxxxx ¹⁾
6,000		117,60	06000	53,26	06000
6,001 - 6,349				77,71	xxxxx ¹⁾
6,350	1/4	146,10	06350	77,71	06350
6,351 - 6,499				77,71	xxxxx ¹⁾
6,500				53,26	06500
6,501 - 6,999				77,71	xxxxx ¹⁾
7,000		117,60	07000	53,26	07000
7,001 - 7,499				77,71	xxxxx ¹⁾
7,500				53,26	07500
7,501 - 7,999				77,71	xxxxx ¹⁾
8,000		117,60	08000	53,26	08000
8,001 - 8,499				77,71	xxxxx ¹⁾
8,500				53,26	08500
8,501 - 8,999				77,71	xxxxx ¹⁾
9,000		117,60	09000	53,26	09000
9,001 - 9,499				77,71	xxxxx ¹⁾
9,500				53,26	09500
9,501 - 9,999				77,71	xxxxx ¹⁾
10,000		117,60	10000	53,26	10000
10,001 - 10,499				77,71	xxxxx ¹⁾
10,500				53,26	10500
10,501 - 10,999				77,71	xxxxx ¹⁾
11,000		163,60	11000	53,26	11000
11,001 - 11,499				77,71	xxxxx ¹⁾
11,500				53,26	11500
11,501 - 11,999				77,71	xxxxx ¹⁾
12,000		163,60	12000	53,26	12000
12,001 - 12,499				77,71	xxxxx ¹⁾
12,500				53,26	12500
12,501 - 12,699				77,71	xxxxx ¹⁾
12,700	1/2			77,71	12700
12,701 - 12,999				77,71	xxxxx ¹⁾
13,000		163,60	13000	53,26	13000
13,001 - 13,499				77,71	xxxxx ¹⁾
13,500				53,26	13500
13,501 - 13,999				77,71	xxxxx ¹⁾
14,000		163,60	14000	53,26	14000
14,001 - 14,499				77,71	xxxxx ¹⁾
14,500				53,26	14500
14,501 - 14,999				77,71	xxxxx ¹⁾
15,000		163,60	15000	53,26	15000
15,001 - 15,499				77,71	xxxxx ¹⁾
15,500				53,26	15500
15,501 - 15,999				77,71	xxxxx ¹⁾
16,000		163,60	16000	53,26	16000
16,001 - 16,499				77,71	xxxxx ¹⁾
16,500				53,26	16500

DCONWS mm	DCONWS inch	EUR Y8/YS	81 056 ...	EUR Y8/YS	81 055 ...
16,501 - 16,999				77,71	xxxxx ¹⁾
17,000		163,60	17000	53,26	17000
17,001 - 17,499				77,71	xxxxx ¹⁾
17,500				53,26	17500
17,501 - 17,999				77,71	xxxxx ¹⁾
18,000		163,60	18000	53,26	18000
18,001 - 18,499				77,71	xxxxx ¹⁾
18,500				53,26	18500
18,501 - 18,999				77,71	xxxxx ¹⁾
19,000		163,60	19000	53,26	19000
19,001 - 19,049				77,71	xxxxx ¹⁾
19,050	3/4			77,71	19050
19,051 - 19,499				77,71	xxxxx ¹⁾
19,500				53,26	19500
19,501 - 19,999				77,71	xxxxx ¹⁾
20,000		163,60	20000	53,26	20000
20,001 - 20,499				77,71	xxxxx ¹⁾
20,500				53,26	20500
20,501 - 20,999				77,71	xxxxx ¹⁾
21,000				53,26	21000
21,001 - 21,499				77,71	xxxxx ¹⁾
21,500				53,26	21500
21,501 - 21,999				77,71	xxxxx ¹⁾
22,000				53,26	22000
22,001 - 22,499				77,71	xxxxx ¹⁾
22,500				53,26	22500
22,501 - 22,999				77,71	xxxxx ¹⁾
23,000				53,26	23000
23,001 - 23,499				77,71	xxxxx ¹⁾
23,500				70,72	23500
23,501 - 23,999				95,14	xxxxx ¹⁾
24,000				70,72	24000

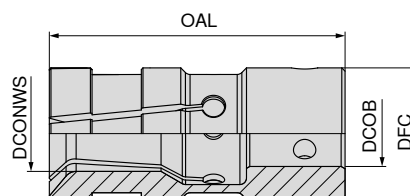
1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days



For xxxxx please specify the required diameter when ordering (e.g. Ø
6.789 – article number 81 056 06789).

Clamping sleeves

Designation	Pusher Ø	DFC mm	DCOB _{H7} mm	OAL mm
ST 32	D 32	32	20	90



Clamping sleeve ST 32 (turbo version)

▲ Also suitable for all INDEX multi-spindle machines



ST 32

ST 32

		81 057 ...		81 058 ...	
DCONWS mm	DCONWS inch	EUR Y8/Y5		EUR Y8/Y5	
5,000		122,20	05000	223,10	05000
5,001 - 5,499		167,60	xxxxx ¹⁾		
5,500		122,20	05500		
5,501 - 5,999		167,60	xxxxx ¹⁾		
6,000		122,20	06000	223,10	06000
6,001 - 6,349		167,60	xxxxx ¹⁾		
6,350	1/4	167,60	06350		
6,351 - 6,499		167,60	xxxxx ¹⁾		
6,500		122,20	06500		
6,501 - 6,999		167,60	xxxxx ¹⁾		
7,000		122,20	07000	223,10	07000
7,001 - 7,499		167,60	xxxxx ¹⁾		
7,500		122,20	07500		
7,501 - 7,999		167,60	xxxxx ¹⁾		
8,000		122,20	08000	223,10	08000
8,001 - 8,499		167,60	xxxxx ¹⁾		
8,500		122,20	08500		
8,501 - 8,999		167,60	xxxxx ¹⁾		
9,000		70,72	09000	159,50	09000
9,001 - 9,499		116,10	xxxxx ¹⁾		
9,500		70,72	09500		
9,501 - 9,524		116,10	xxxxx ¹⁾		
9,525	3/8	116,10	09525		
9,526 - 9,999		116,10	xxxxx ¹⁾		
10,000		70,72	10000	159,50	10000
10,001 - 10,499		116,10	xxxxx ¹⁾		
10,500		70,72	10500		
10,501 - 10,999		116,10	xxxxx ¹⁾		
11,000		70,72	11000	167,70	11000
11,001 - 11,499		116,10	xxxxx ¹⁾		
11,500		70,72	11500		
11,501 - 11,999		116,10	xxxxx ¹⁾		
12,000		70,72	12000	167,70	12000
12,001 - 12,499		116,10	xxxxx ¹⁾		
12,500		70,72	12500		
12,501 - 12,699		116,10	xxxxx ¹⁾		
12,700	1/2	116,10	12700		
12,701 - 12,999		116,10	xxxxx ¹⁾		
13,000		70,72	13000	167,70	13000
13,001 - 13,499		116,10	xxxxx ¹⁾		
13,500		70,72	13500		
13,501 - 13,999		116,10	xxxxx ¹⁾		
14,000		70,72	14000	167,70	14000
14,001 - 14,499		116,10	xxxxx ¹⁾		
14,500		70,72	14500		
14,501 - 14,999		116,10	xxxxx ¹⁾		
15,000		70,72	15000	167,70	15000
15,001 - 15,499		116,10	xxxxx ¹⁾		
15,500		70,72	15500		
15,501 - 15,874		116,10	xxxxx ¹⁾		
15,875	5/8	116,10	15875		
15,876 - 15,999		116,10	xxxxx ¹⁾		
16,000		70,72	16000	167,70	16000
16,001 - 16,499		116,10	xxxxx ¹⁾		
16,500		70,72	16500		
16,501 - 16,999		116,10	xxxxx ¹⁾		
17,000		70,72	17000	167,70	17000
17,001 - 17,462		116,10	xxxxx ¹⁾		
17,463	1 1/16	116,10	17463		
17,464 - 17,499		116,10	xxxxx ¹⁾		
17,500		70,72	17500		
17,501 - 17,999		116,10	xxxxx ¹⁾		
18,000		70,72	18000	167,70	18000
18,001 - 18,499		116,10	xxxxx ¹⁾		

		81 057 ...		81 058 ...	
DCONWS mm	DCONWS inch	EUR Y8/Y5		EUR Y8/Y5	
18,500		70,72	18500		
18,501 - 18,999		116,10	xxxxx ¹⁾		
19,000		70,72	19000	167,70	19000
19,001 - 19,049		116,10	xxxxx ¹⁾		
19,050	3/4	116,10	19050		
19,051 - 19,499		116,10	xxxxx ¹⁾		
19,500		70,72	19500		
19,501 - 19,999		116,10	xxxxx ¹⁾		
20,000		70,72	20000	167,70	20000
20,001 - 20,499		116,10	xxxxx ¹⁾		
20,500		70,72	20500		
20,501 - 20,999		116,10	xxxxx ¹⁾		
21,000		70,72	21000	193,30	21000
21,001 - 21,499		116,10	xxxxx ¹⁾		
21,500		70,72	21500		
21,501 - 21,999		116,10	xxxxx ¹⁾		
22,000		70,72	22000	193,30	22000
22,001 - 22,224		116,10	xxxxx ¹⁾		
22,225	7/8	116,10	22225		
22,226 - 22,499		116,10	xxxxx ¹⁾		
22,500		70,72	22500		
22,501 - 22,999		116,10	xxxxx ¹⁾		
23,000		70,72	23000	193,30	23000
23,001 - 23,499		116,10	xxxxx ¹⁾		
23,500		70,72	23500		
23,501 - 23,999		116,10	xxxxx ¹⁾		
24,000		70,72	24000	193,30	24000
24,001 - 24,499		116,10	xxxxx ¹⁾		
24,500		70,72	24500		
24,501 - 24,999		116,10	xxxxx ¹⁾		
25,000		70,72	25000	193,30	25000
25,001 - 25,399		116,10	xxxxx ¹⁾		
25,400	1/1	116,10	25400		
25,401 - 25,499		116,10	xxxxx ¹⁾		
25,500		70,72	25500		
25,501 - 25,999		116,10	xxxxx ¹⁾		
26,000		70,72	26000	193,30	26000
26,001 - 26,499		116,10	xxxxx ¹⁾		
26,500		70,72	26500		
26,501 - 26,999		116,10	xxxxx ¹⁾		
27,000		70,72	27000		
27,001 - 27,499		116,10	xxxxx ¹⁾		
27,500		70,72	27500		
27,501 - 27,999		116,10	xxxxx ¹⁾		
28,000		70,72	28000		
28,001 - 28,499		116,10	xxxxx ¹⁾		
28,500		122,20	28500		
28,501 - 28,574		167,60	xxxxx ¹⁾		
28,575	1 1/8	167,60	28575		
28,576 - 28,999		167,60	xxxxx ¹⁾		
29,000		122,20	29000		
29,001 - 29,499		167,60	xxxxx ¹⁾		
29,500		122,20	29500		
29,501 - 29,999		167,60	xxxxx ¹⁾		
30,000		122,20	30000		

1) Not available ex stock, articles are non-returnable and cannot be exchanged /
Delivery time 7 working days

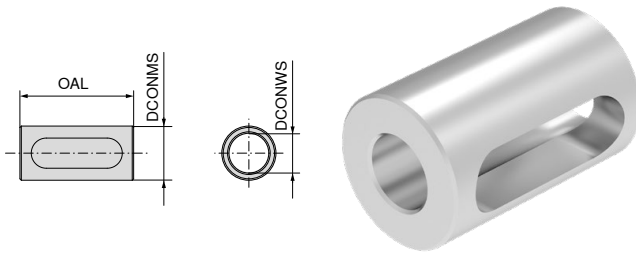


For xxxxx please specify the required diameter when ordering (e.g. Ø 6.789 – article number 81 057 06789).

Reduction sleeve

▲ for tools with cylindrical shank

▲ Radial run-out accuracy < 0.01 mm

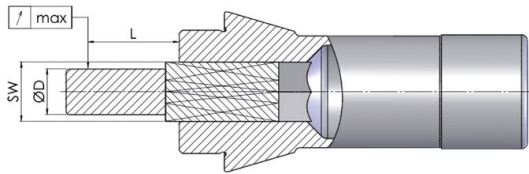


81 427 ...

DCONMS _{g6} mm	DCONMS _{g6} inch	DCONWS _{H7} mm	OAL mm	EUR Y8	
15,875	5/8	12	30	141,50	15912
16,000		12	30	141,50	16012
19,050	3/4	8	40	141,50	19108
19,050	3/4	10	40	141,50	19110
19,050	3/4	12	40	141,50	19112
19,050	3/4	14	40	141,50	19114
19,050	3/4	16	40	141,50	19116
20,000		10	40	141,50	20010
20,000		12	40	141,50	20012
20,000		16	40	141,50	20016
22,000		12	40	141,50	22012
22,000		16	40	141,50	22016
25,000		12	40	141,50	25012
25,000		16	40	141,50	25016
25,000		20	40	141,50	25020
25,400	1	12	40	141,50	25412
25,400	1	16	40	137,10	25416
25,400	1	20	40	141,50	25420
33,000		20	40	150,70	33020
33,000		22	40	150,70	33022
33,000		25	40	150,70	33025

Technical Information

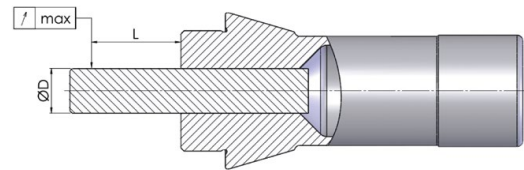
Runout accuracy



Run-out tolerances of collets with profiles					
Profile size		L mm	Standard norm	Norm	
from	up to			Standard	HP*
0,5	0,9	3	0,12	< 0,02	< 0,01
1	1,5	6	0,12	< 0,02	< 0,01
1,6	3	10	0,12	< 0,02	< 0,01
3,1	6	16	0,12	< 0,02	< 0,01
6,1	10	25	0,15	< 0,02	< 0,01
10,1	18	40	0,2	< 0,02	< 0,01
18,1	24	50	0,2	< 0,02	< 0,01
24,1	30	60	0,2	< 0,02	< 0,01
30,0		80	0,2	< 0,02	< 0,01

* Lower run-out tolerances with the HP (High Precision) option on request.

Our profile collets and guide bushes are micro-eroded with up to 7 slots. This ensures maximum quality with minimal run-out tolerances.



Run-out tolerances of round collets				
hole		L mm	Norm	
from	up to		Standard	HP*
0,5	0,9	3	< 0,01	< 0,008
1	1,5	6	< 0,01	< 0,008
1,6	3	10	< 0,015	< 0,008
3,1	6	16	< 0,015	< 0,008
6,1	10	25	< 0,015	< 0,008
10,1	18	40	< 0,02	< 0,01
18,1	24	50	< 0,02	< 0,01
24,1	30	60	< 0,02	< 0,01
30,0		80	< 0,03	< 0,015

* Lower run-out tolerances with the HP (High Precision) option on request.

Your wish is our command. That is why our tolerances are far tighter than standard tolerances. The service lives of both the machine components and the tools are extended.

Special shapes

Due to the variety of different applications, it may be necessary to individually adapt some products to the processes. To do this, we offer you maximum quality according to your specifications.

Get in touch using one of the options below and let us create your clamping device:

Technical Advice

Interested in our clamping devices?

Our Technical Sales Engineers would be happy to advise you. You can of course also talk to our in-house Technical Sales Engineers by calling our freefone number.

Enquiry Form

Should you wish to send us a request for specially adjusted solutions, you will find a detailed form in the download area on our homepage. Please fill it out carefully and send it via email or print it out and send via fax.

→ cuttingtools.ceratzit.com/ie/en/download.html

Please email the completed form to tsc@ceratzit.com.



Other profile shapes and sizes and extended options available on request.

