

# UP **2** DATE

## ACCURATE CUTTING EDGE COOLING

DirectCooling (DC) system  
by CERATIZIT –  
now for turning holders!

### ... AND SOME MORE PRODUCTS

- ▲ Stationary 3-jaw chuck SBF-3 for Clamping round components
- ▲ Inserts with wear detection for turning ISO-P steels

TEAM CUTTING TOOLS



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

**Tooling the Future**

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# Tool holders with DirectCooling (DC)

Targeted coolant application on the cutting edge



## Targeted action is half the battle

Machining without cutting fluids? It's hard to imagine in many cases because they are so efficient at cooling, lubricating and evacuating chips. But CERATIZIT has an even better alternative in the form of its DirectCooling system: two nozzles in the holder apply the coolant directly to the cutting edge – for cool machining results! Whereas a hose would typically direct liberal amounts of coolant towards the machining area, the DirectCooling (DC) system from CERATIZIT takes a different approach. Tool holders with DirectCooling (DC) are equipped with two inner holes that guide the coolant to where it has the greatest impact: directly on the cutting edge. Why is this so important? Targeted cooling improves both the service life and general process security.

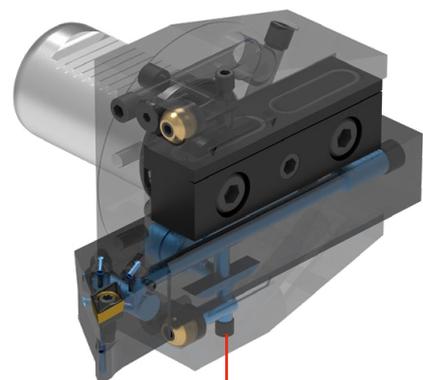


- ▲ Fewer trapped chips
- ▲ Reduced wear
- ▲ Universal application

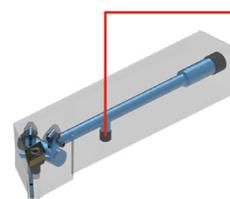
## Advantage/benefit

The lengths of all CERATIZIT DirectCooling holders are ideally matched to one another. As a result...

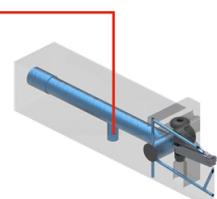
- ▲ Interference contours are eliminated
- ▲ A compact complete package is created
- ▲ Optimum stability is reached
- ▲ Unlimited flexibility is achieved



VDI square adapters – DC



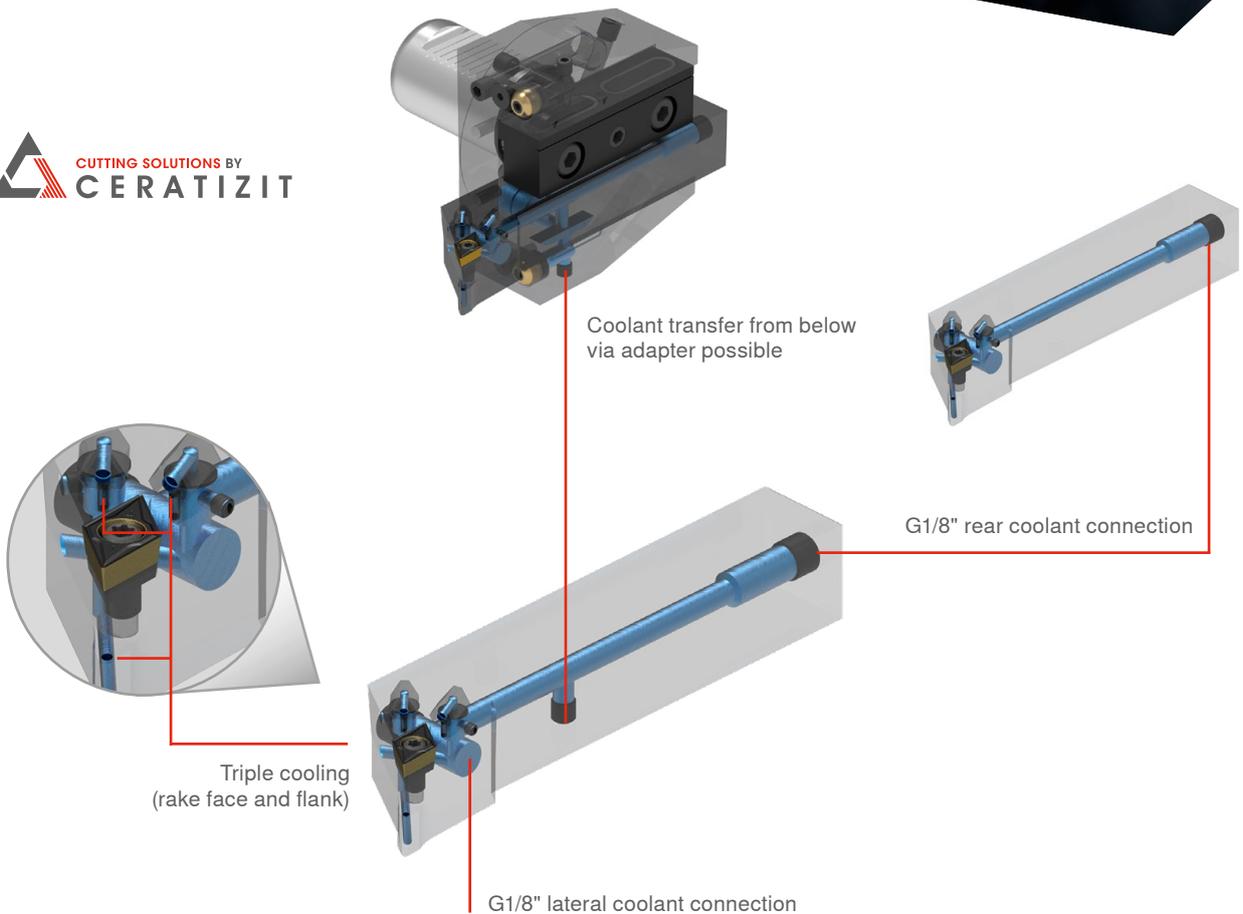
Rotating holder:  
MaxiLock – S-DC



Grooving tool holder:  
MonoClamp – GX-DC

# MaxiLock – S-DC rotating holder with DirectCooling

Three nozzles for the  
ultimate cooling effect



- ▲ Fewer trapped chips
- ▲ Reduced wear
- ▲ Universal application

## Features

- ▲ The new MaxiLock – S-DC tool holders improve both your process security and the service life of the tool cutting edges with targeted cooling.
- ▲ The revamped insert seat ensures increased stability when clamping the indexable insert.
- ▲ In combination with our flexible VDI adapters, the coolant transfer of the machine occurs unseen, without the hassle of a connection.

## Test Report

### Material:

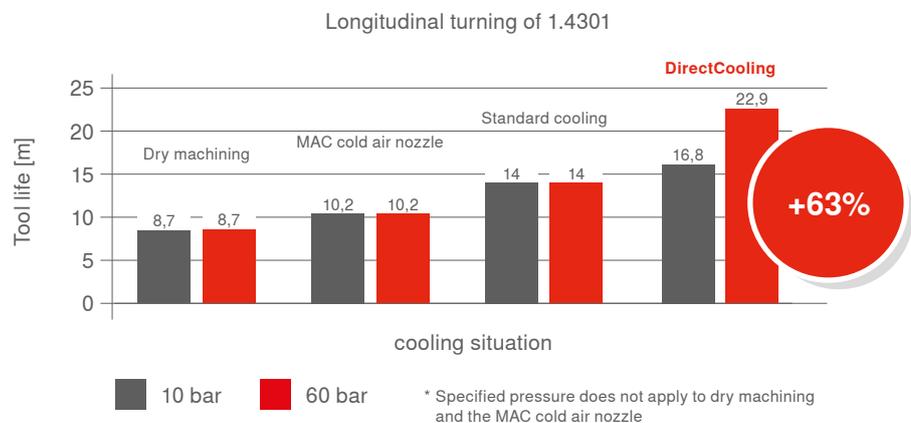
1.4301 – X5CrNi18-10

### Cutting data:

f 0.25 mm/rev  
a<sub>p</sub> 2.00 mm  
v<sub>c</sub> 200 m/min

### Insert:

CCMT 120408EN-M55 CTPM125



**Result:** With the DirectCooling cooling system, the tool life can be increased by **63 %** compared to a conventional cooling situation.

What's interesting here is that the lower coolant hole on the flank of the indexable insert has a considerable influence on the tool life. While cooling exclusively through the upper two nozzles gives rise to an improvement of just 22 %, flank cooling achieves an increase of 54 % compared to standard cooling!



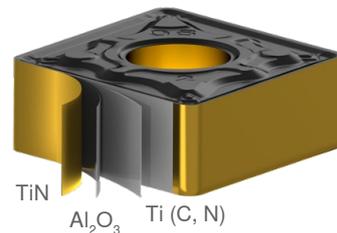
Further information can be found on → Pages 40–55

# Steel machining made easy

The new ISO-P grades with indicator layer  
for high-performance turning processes!



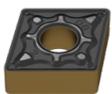
## Machining with no compromises – with the CERATIZIT ISO-P carbide grades update



Thanks to a CVD multilayer coating with the latest Dragonskin coating technology, the indexable inserts are ideally suited to versatile steel machining. In combination with a balanced carbide base substrate, the new grades in the ISO-P category boast a wide application area with improved wear resistance.

Depending on the cutting conditions, the perfect cutting material can be selected from three grades:

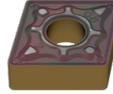
**NEW**



**CTCP115-P**

- ▲ ISO-P15
- ▲ Wear-resistant grade with high degree of elevated-temperature resistance for steel machining with optimum tool life
- ▲ High cutting speeds
- ▲ Maximum productivity
- ▲ For a smooth cut

**NEW**

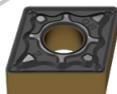


**CTCP135-P**

- ▲ ISO-P35
- ▲ Tough carbide grade for interrupted cuts
- ▲ Guaranteed process security
- ▲ For low cutting speeds and unstable conditions

**DRAGONSKIN**

**NEW**



**CTCP125-P**

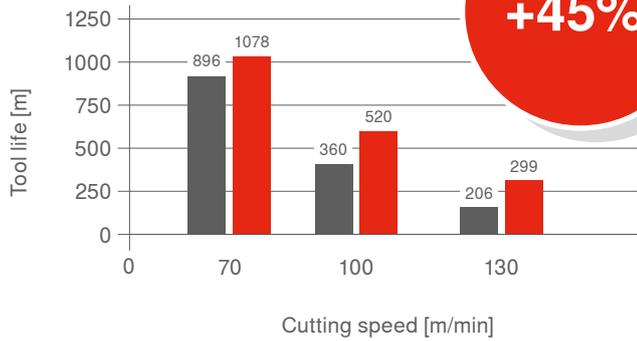
- ▲ ISO-P25
- ▲ Universal carbide grade for steel machining
- ▲ Excellent balance between toughness and elevated-temperature resistance
- ▲ High level of reliability for machining general steel
- ▲ Excellent for fluctuating cutting conditions, from finishing to roughing

**DRAGONSKIN**

**DRAGONSKIN**

## Test Report

**Insert:** CNMG 120408EN-M50  
**Material:** 1.2343 – X37CrMoV 5-1 44 HRC  
**Cutting data:**  $v_c$  70-130 m/min  
 $f_c$  0.35 mm/rev  
 $a_p$  2 mm



### Performance increase of the new grades:

Cutting speed $v_c$	Increase in %
70 m/min	20
100 m/min	44
130 m/min	45

CTCP115
  CTCP115-P **NEW**

**Result:** Depending on the cutting speed, an increase in performance of up to **45%** can be achieved with the new CTCP115-P grade.



CTCP115 → 10 cuts



CTCP115-P → 1 cut

Wear detection means that optimum utilisation of the multi-edged indexable insert can be identified with a quick glance at the cutting edges. Wear on the cutting edges is also easier to see and easier for the machine operator to identify.



Further information can be found on → Pages 16–39

DRAGONSKIN



# Stationary 3-jaw chuck

Hotly anticipated – now also for round components



Further information can be found on → Page 62–64

## New SBF-3 stationary 3-jaw chuck from CERATIZIT

Machining round components has become daily routine for many companies. The right clamping system is often a game changer for a successful machining result. CERATIZIT now has a brand-new solution in the portfolio with its SBF-3 stationary 3-jaw chuck – fully compatible with the in-house MNG and PNG zero point clamping systems for rapid, uncomplicated handling.

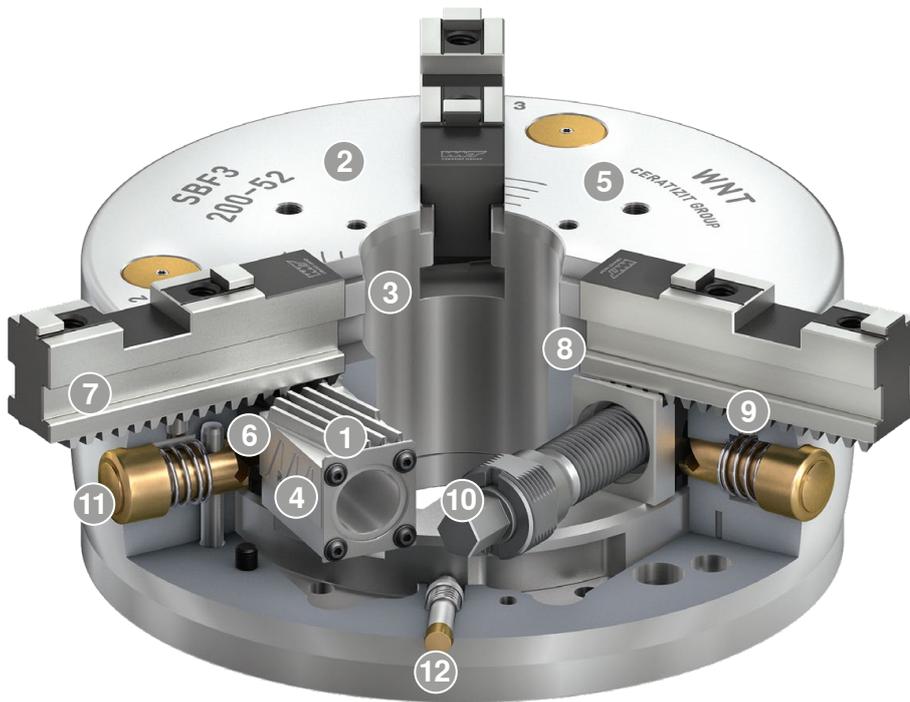


SBF-3 Ø 200 mm



SBF-3 Ø 315 mm

## Technical information – cross-section diagram



- 1 Wedge bar drive**  
Allows for excellent machining results
- 2 Hardened and extremely stiff base body**  
Longer service life with maximum precision as a result – even at the highest clamping force
- 3 Large through hole**  
For machining all common bar material diameters (optional: enlargement of through hole)
- 4 Optimised lubrication system**  
For high degree of efficiency
- 5 Mounting threads**  
For workpiece stops or cover plates
- 6 Quick jaw change system**  
Single release of jaws, meaning extremely short setup times
- 7 Base jaws with angled teeth (SFG)**
- 8 Locking mechanism**  
Guarantees secure engagement of the base jaw teeth with the wedge bar teeth
- 9 Engagement pin**  
For pre-positioning the base jaw
- 10 Actuation via hex connection**  
Easier operation as a result
- 11 Pushbutton for jaw change**  
For extremely short setup times
- 12 Indicator pin**  
For visual stroke monitoring of the manual clamping chuck

# Turning Holder with DirectCooling system



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### KOMET Spindle Tooling

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12+13 ABS adapters



### Circular and Thread Milling

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14+15 Type HR thread milling cutter



### Turning Tools

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## Stationary 3-jaw chuck



ISO-P grades with  
indicator layer



## Milling tools with indexable inserts

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## Adapters and accessories

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## Workpiece clamping

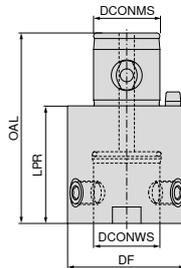
62–64 Stationary 3-jaw chuck

# MicroKom – STM/ABS adapters

- ▲ using this adapter, STM core drilling and precision spindle systems can be accommodated reliably and precisely in ABS base adapters
- ▲ with thro' coolant supply

**ABS**

**NEW**



ABS Modular  
**62 359 ...**

Adapter	SZID	DCONWS mm	DCONMS mm	DF mm	LPR mm	OAL mm	
ABS 25	STM 14	14	13	25	30	50	<b>02590</b>
ABS 32	STM 18	18	16	32	40	63	<b>03289</b>
ABS 40	STM 22	22	20	40	40	66	<b>04088</b>
ABS 50	STM 28	28	28	50	50	81	<b>05097</b>
ABS 63	STM 36	36	34	63	60	98	<b>06396</b>

 Positioning pin <b>84 950 ...</b>	 Pendulum bolt <b>84 950 ...</b>	 Coolant pipe <b>84 950 ...</b>	 Clamping screw ST <b>62 950 ...</b>
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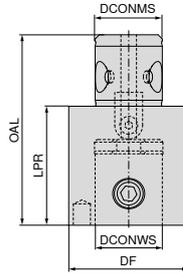
Spare parts DCONWS					
14	<b>23600</b>	<b>26000</b>	<b>24400</b>	M5x0,5x7,5	<b>027</b>
18	<b>23700</b>	<b>26100</b>	<b>24500</b>	M6x0,75x9,5	<b>028</b>
22	<b>23800</b>	<b>26200</b>	<b>24600</b>	M8x0,75x12	<b>029</b>
28	<b>20200</b>	<b>20000</b>	<b>20100</b>	M10x1x14,2	<b>030</b>
36	<b>23900</b>	<b>26300</b>	<b>24700</b>	M12x1x18	<b>031</b>

# SpinTools – ABS/STM adapters

- ▲ using this adapter, ABS core drilling and precision spindle systems can be accommodated reliably and precisely in STM base adapters
- ▲ with thro' coolant supply

**STM**

**NEW**



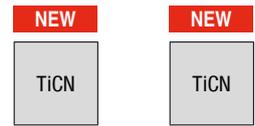
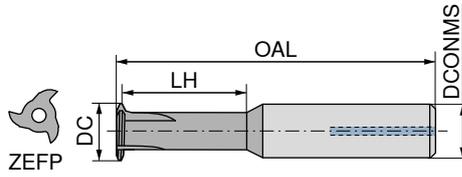
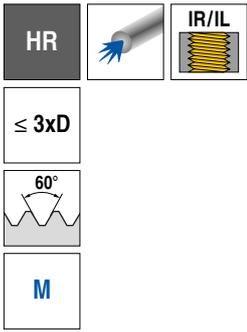
STM Modular  
**62 359 ...**

Adapter	SZID	DCONWS mm	DCONMS mm	DF mm	LPR mm	OAL mm	
STM 14	ABS 25	13	14	25	35	51	02519
STM 18	ABS 32	16	18	32	40	60	03218
STM 22	ABS 40	20	22	40	45	69	04017
STM 28	ABS 50	28	28	50	50	80	05016
STM 36	ABS 63	34	36	63	60	100	06315

Clamping screw	Clamping screw	Driver	Taper screw
<b>62 950 ...</b>	<b>84 950 ...</b>	<b>62 950 ...</b>	<b>84 950 ...</b>

Spare parts	DCONWS					
13						
16	M8x12/SW4	13989	26800	6x10,3x4	036	27000
20				8x15x5	037	27100
28			26900	10x18,1x6	038	27200
34			20300	12x20x6	039	20400
			25500	16x26,5x8	040	27300

# Thread Milling Cutter



HA Solid carbide 50 546 ...  
HB Solid carbide 50 547 ...

DC mm	Thread	TP mm	LH mm	DCONMS <sub>h6</sub> mm	OAL mm	ZEFP		
3,14	M4	0,70	9	6	55	3		
3,95	M5	0,80	11	6	55	3		
4,68	M6 - M7	1,00	16	8	60	3		
6,22	M8 - M9	1,25	22	10	71	4		
7,79	M10 - M12	1,50	26	10	76	4		
9,38	M12	1,75	27	12	86	4		
P								○ ○
M								○ ○
K								○ ○
N								○ ○
S								○ ○
H								● ●
O								○ ○

Other dimensions are available on request.

# Cutting data approximate values

			HR thread milling cutter			
			50 546 ..., 50 547 ...			
Material sub-group	Index	Tensile strength N/mm <sup>2</sup> / HB / HRC	v <sub>c</sub>	f <sub>z</sub> [mm/tooth]		
			m/min	< Ø 10	> Ø 10	
<b>P</b>	Unalloyed steel	P.1.1	420 N/mm <sup>2</sup> / 125 HB	100	0,025	0,05
		P.1.2	640 N/mm <sup>2</sup> / 190 HB	100	0,025	0,05
		P.1.3	840 N/mm <sup>2</sup> / 250 HB	100	0,025	0,05
		P.1.4	910 N/mm <sup>2</sup> / 270 HB	80	0,015	0,035
		P.1.5	1010 N/mm <sup>2</sup> / 300 HB	80	0,015	0,035
	Low-alloy steel	P.2.1	610 N/mm <sup>2</sup> / 180 HB	100	0,025	0,05
		P.2.2	930 N/mm <sup>2</sup> / 275 HB	80	0,015	0,035
		P.2.3	1010 N/mm <sup>2</sup> / 300 HB	80	0,015	0,035
		P.2.4	1200 N/mm <sup>2</sup> / 375 HB	80	0,015	0,035
	High-alloy steel and high-alloy tool steel	P.3.1	680 N/mm <sup>2</sup> / 200 HB	100	0,025	0,05
		P.3.2	1100 N/mm <sup>2</sup> / 300 HB	80	0,015	0,035
		P.3.3	1300 N/mm <sup>2</sup> / 400 HB	80	0,02	0,04
	Stainless steel	P.4.1	680 N/mm <sup>2</sup> / 200 HB	80	0,02	0,04
		P.4.2	1010 N/mm <sup>2</sup> / 300 HB	80	0,02	0,04
<b>M</b>	Stainless steel	M.1.1	610 N/mm <sup>2</sup> / 180 HB	80	0,02	0,04
		M.2.1	300 HB	80	0,02	0,04
		M.3.1	780 N/mm <sup>2</sup> / 230 HB	80	0,02	0,04
<b>K</b>	Grey cast iron	K.1.1	350 N/mm <sup>2</sup> / 180 HB	120	0,03	0,09
		K.1.2	500 N/mm <sup>2</sup> / 260 HB	120	0,03	0,09
	Spherulitic graphite cast iron	K.2.1	540 N/mm <sup>2</sup> / 160 HB	100	0,02	0,05
		K.2.2	845 N/mm <sup>2</sup> / 250 HB	100	0,02	0,05
	Malleable iron	K.3.1	440 N/mm <sup>2</sup> / 130 HB	100	0,02	0,05
		K.3.2	780 N/mm <sup>2</sup> / 230 HB	100	0,02	0,05
<b>N</b>	Aluminium wrought alloy	N.1.1	60 HB	350	0,05	0,1
		N.1.2	340 N/mm <sup>2</sup> / 100 HB	350	0,05	0,1
	Cast aluminium alloy	N.2.1	250 N/mm <sup>2</sup> / 75 HB	350	0,05	0,1
		N.2.2	300 N/mm <sup>2</sup> / 90 HB	250	0,05	0,1
		N.2.3	440 N/mm <sup>2</sup> / 130 HB	250	0,05	0,1
	Copper and copper alloys (bronze/brass)	N.3.1	375 N/mm <sup>2</sup> / 110 HB	350	0,05	0,1
		N.3.2	300 N/mm <sup>2</sup> / 90 HB	350	0,05	0,1
		N.3.3	340 N/mm <sup>2</sup> / 100 HB	350	0,05	0,1
Magnesium alloys	N.4.1	70 HB	350	0,05	0,1	
<b>S</b>	Heat-resistant alloys	S.1.1	680 N/mm <sup>2</sup> / 200 HB	40	0,02	0,05
		S.1.2	950 N/mm <sup>2</sup> / 280 HB	20	0,02	0,05
		S.2.1	840 N/mm <sup>2</sup> / 250 HB	20	0,02	0,05
		S.2.2	1180 N/mm <sup>2</sup> / 350 HB			
		S.2.3	1080 N/mm <sup>2</sup> / 320 HB			
	Titanium alloys	S.3.1	400 N/mm <sup>2</sup>	100	0,02	0,05
		S.3.2	1050 N/mm <sup>2</sup> / 320 HB	80	0,02	0,05
		S.3.3	1400 N/mm <sup>2</sup> / 410 HB	80	0,02	0,05
<b>H</b>	Hardened steel	H.1.1	46-55 HRC	<b>40</b>	0,008	0,017
		H.1.2	56-60 HRC	<b>25</b>	0,005	0,012
		H.1.3	61-65 HRC			
		H.1.4	66-70 HRC			
	Chilled iron	H.2.1	400 HB	<b>60</b>	0,02	0,04
Hardened cast iron	H.3.1	55 HRC	<b>25</b>	0,005	0,012	
<b>O</b>	Non-metal materials	O.1.1	≤ 150 N/mm <sup>2</sup>	120	0,04	0,1
		O.1.2	≤ 100 N/mm <sup>2</sup>	120	0,04	0,1
		O.2.1	≤ 1000 N/mm <sup>2</sup>	80	0,04	0,1
		O.2.2	≤ 1000 N/mm <sup>2</sup>	80	0,04	0,1
		O.3.1		130	0,04	0,1

\* Tensile strength

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## CERATIZIT \ Performance

Premium quality tools for high performance.

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

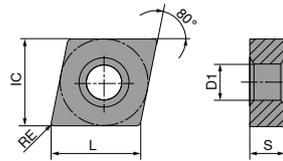
## Overview of inserts

			Steel	Stainless steel	Cast iron	Non-ferrous metals	Heat-resistant	Tempered steel	Non-metal materials	Geometry								
			P	M	K	N	S	H	O									
		Negative								CC..	DC..	RC..	SC..	SP..	TC..	TP..	VC..	WC..
Fine	-F40		●	○												27		
	-F50		●	○						17	20		22	25	27	28		
	-TFQ		●	○	○					17	20						28	
Medium	-XU		●	○						18	20					27	28	
	-M40		●	○											27			
	-M50		●	○	○					18	21		22	25	27	29		
	-TMQ		●	○						18	21						29	
	-M70		●	○	○					18	21		22+23	26			29	
Rough	-R28		●	○	○					19	21		23	26				
	-R58		●	○	○					19	21		24	26				

			P	M	K	N	S	H	O	Geometry								
		Positive								CC..	DC..	RC..	SC..	SP..	TC..	TP..	VC..	WC..
Fine	-SF		●	○	○					30	32		35		36		37	
Medium	-SMF		●	○	○					30	32		35		36		37	
	-SM		●	○	●					31	33	34	35		36		37	
	-SMQ		●	○	○					31	33							

# CNMG / CNMM

Designation	L mm	S mm	D1 mm	IC mm
CNMG 0903..	9,7	3,18	3,81	9,52
CNM. 1204..	12,9	4,76	5,16	12,70
CNM. 1606..	16,1	6,35	6,35	15,87
CNM. 1906..	19,3	6,35	7,94	19,05
CNMM 2509..	25,8	9,52	9,12	25,40



# CNMG

	NEW	NEW	NEW	NEW	NEW
	<b>-F50</b> CTCP115-P	<b>-F50</b> CTCP125-P	<b>-F50</b> CTCP135-P	<b>-TFQ</b> CTCP115-P	<b>-TFQ</b> CTCP125-P
	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
	<b>F</b> CNMG	<b>F</b> CNMG	<b>F</b> CNMG	<b>F</b> CNMG	<b>F</b> CNMG
	<b>76 132 ...</b>	<b>76 132 ...</b>	<b>76 132 ...</b>	<b>76 110 ...</b>	<b>76 110 ...</b>

ISO	RE mm					
090304EN	0,4	31601	51601	71601		
090308EN	0,8	31801	51801	71801		
120404EN	0,4	32801	52801	72801	32801	52801
120408EN	0,8	33001	53001	73001	33001	53001
120412EN	1,2	33201	53201	73201	32001	53201
P		●	●	●	●	●
M				○		
K		○	○		○	○
N						
S						
H						
O						

### CNMG

		<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
		<b>-XU</b> CTCP115-P	<b>-XU</b> CTCP125-P	<b>-M50</b> CTCP115-P	<b>-M50</b> CTCP125-P	<b>-M50</b> CTCP135-P	<b>-TMQ</b> CTCP115-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M CNMG	M CNMG	M CNMG	M CNMG	M CNMG	M CNMG
		76 290 ...	76 290 ...	76 135 ...	76 135 ...	76 135 ...	76 196 ...
ISO	RE mm						
120404EN	0,4	32801	52801	32801	52801	72801	
120408EN	0,8	33001	53001	33001	53001	73001	53001
120412EN	1,2	33201	53201	32001	53201	73201	53201
120416EN	1,6			33401	53401	73401	
160608EN	0,8			34201	54201	74201	
160612EN	1,2			34401	54401	74401	
160616EN	1,6			34601	54601	74601	
P		•	•	•	•	•	•
M						○	
K		○	○	○	○		○
N							
S							
H							
O							

### CNMG

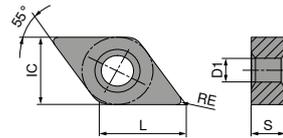
		<b>NEW</b>	<b>NEW</b>	<b>NEW</b>
		<b>-M70</b> CTCP115-P	<b>-M70</b> CTCP125-P	<b>-M70</b> CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M CNMG	M CNMG	M CNMG
		76 119 ...	76 119 ...	76 119 ...
ISO	RE mm			
120408EN	0,8		33001	53001
120412EN	1,2		32001	53201
120416EN	1,6		33401	53401
160608EN	0,8		34201	54201
160612EN	1,2		34401	54401
160616EN	1,6		34601	54601
160624EN	2,4		34801	54801
190608EN	0,8		35401	55401
190612EN	1,2		35601	55601
190616EN	1,6		35801	55801
190624EN	2,4		36001	56001
P			•	•
M				○
K			○	○
N				
S				
H				
O				

# CNMM

		NEW	NEW	NEW	NEW	NEW	NEW
		-R28 CTCP115-P	-R28 CTCP125-P	-R28 CTCP135-P	-R58 CTCP115-P	-R58 CTCP125-P	-R58 CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		R CNMM	R CNMM	R CNMM	R CNMM	R CNMM	R CNMM
		76 114 ...	76 114 ...	76 114 ...	76 115 ...	76 115 ...	76 115 ...
ISO	RE mm						
120408EN	0,8	33001	53001		33001	53001	73001
120412EN	1,2	33201	53201	73201	33201	53201	73201
120416EN	1,6	33401	53401	73401	33401	53401	73401
160612EN	1,2	34401	54401	74401	34401	54401	74401
160616EN	1,6	34601	54601	74601	34601	54601	74601
160624EN	2,4				34801	54801	74801
190612EN	1,2	35601	55601	75601	35601	55601	75601
190616EN	1,6	35801	55801	75801	35801	55801	75801
190624EN	2,4	36001	56001	76001	36001	52401	76001
250924EN	2,4	38401	58401	78401	38401	58401	78401
P		●	●	●	●	●	●
M				○			○
K		○	○		○	○	
N							
S							
H							
O							

### DNMG / DNMM

Designation	L mm	S mm	D1 mm	IC mm
DNMG 1104..	11,6	4,76	3,81	9,52
DNMG 1504..	15,5	4,76	5,16	12,70
DNM. 1506..	15,5	6,35	5,16	12,70



### DNMG

		NEW	NEW	NEW	NEW	NEW	NEW
		-F50	-F50	-F50	-TFQ	-TFQ	-XU
		CTCP115-P	CTCP125-P	CTCP135-P	CTCP115-P	CTCP125-P	CTCP115-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	F	F	F	M
		DNMG	DNMG	DNMG	DNMG	DNMG	DNMG
		76 134 ...	76 134 ...	76 134 ...	76 153 ...	76 153 ...	76 291 ...
ISO	RE mm						
110402EN	0,2	30201	50201	70201			
110404EN	0,4	30401	50401	70401			
110408EN	0,8	30601	50601	70601			
110412EN	1,2	30801	50801	70801			
150404EN	0,4	31601	51601	71601			
150408EN	0,8	31801	51801	71801			
150412EN	1,2	32001	52001	72001			
150604EN	0,4	32801	52801	72801	32801	52801	32801
150608EN	0,8	33001	53001	73001	33001	53001	33001
150612EN	1,2	33201	53201	73201			33201
P		•	•	•	•	•	•
M				○			
K		○	○		○	○	○
N							
S							
H							
O							

### DNMG

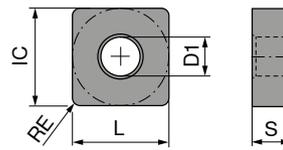
		NEW	NEW	NEW	NEW	NEW	NEW
		-M50	-M50	-M50	-TMQ	-M70	-M70
		CTCP115-P	CTCP125-P	CTCP135-P	CTCP125-P	CTCP115-P	CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M	M	M	M	M	M
		DNMG	DNMG	DNMG	DNMG	DNMG	DNMG
		76 136 ...	76 136 ...	76 136 ...	76 197 ...	76 263 ...	76 263 ...
ISO	RE mm						
110404EN	0,4	30401	50401	70401			
110408EN	0,8	30601	50601	70601		30601	50601
110412EN	1,2	30801	50801	70801		30801	50801
150404EN	0,4	31601	51401	71601			
150408EN	0,8	31801	51801	71801		31801	51801
150412EN	1,2	32001	51601	72001		32001	52001
150416EN	1,6	32201	52201	72201		32201	52201
150604EN	0,4	32801	52801	72801			
150608EN	0,8	33001	53001	73001	53001	33001	53001
150612EN	1,2	33201	53201	73201	53201	33201	53201
150616EN	1,6	33401	53401	73401		33401	53401
P		●	●	●	●	●	●
M				○			○
K		○	○		○	○	○
N							
S							
H							
O							

### DNMM

		NEW	NEW	NEW	NEW	NEW	NEW
		-R28	-R28	-R28	-R58	-R58	-R58
		CTCP115-P	CTCP125-P	CTCP135-P	CTCP115-P	CTCP125-P	CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		R	R	R	R	R	R
		DNMM	DNMM	DNMM	DNMM	DNMM	DNMM
		76 165 ...	76 165 ...	76 165 ...	76 166 ...	76 166 ...	76 166 ...
ISO	RE mm						
150612EN	1,2		33201	53201	73201	33201	53201
150616EN	1,6		33401	53401	73401	33401	53401
P			●	●	●	●	●
M					○		○
K			○	○		○	○
N							
S							
H							
O							

# SNMG / SNMM

Designation	L mm	S mm	D1 mm	IC mm
SNMG 0903..	9,52	3,18	3,81	9,52
SNM. 1204..	12,70	4,76	5,16	12,70
SNM. 1506..	15,87	6,35	6,35	15,87
SNM. 1906..	19,05	6,35	7,94	19,05
SNMM 2507..	25,40	7,94	9,12	25,40
SNMM 2509..	25,40	9,52	9,12	25,40



# SNMG

		NEW	NEW	NEW	NEW	NEW	NEW
		-F50	-F50	-F50	-M50	-M50	-M50
		CTCP115-P	CTCP125-P	CTCP135-P	CTCP115-P	CTCP125-P	CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	F	M	M	M
		SNMG	SNMG	SNMG	SNMG	SNMG	SNMG
		76 140 ...	76 140 ...	76 140 ...	76 137 ...	76 137 ...	76 225 ...
ISO	RE mm						
090308EN	0,8	30601	50601	70601			
120404EN	0,4	31601	51601	71601			
120408EN	0,8	31801	51801	71801	31801	51801	71801
120412EN	1,2	32001	52001	72001	32001	52001	72001
120416EN	1,6				32201	52201	72201
150608EN	0,8					53001	73001
150608EN	1,6				33001		
150612EN	1,2				33201	53201	73201
150616EN	1,6				33401	53401	73401
190612EN	1,2						34401
190616EN	1,6						34601
190624EN	2,4						34801
P		●	●	●	●	●	●
M				○			○
K		○	○		○	○	○
N							
S							
H							
O							

# SNMG / SNMM

		NEW -M70 CTCP125-P	NEW -M70 CTCP135-P	NEW -R28 CTCP115-P	NEW -R28 CTCP125-P	NEW -R28 CTCP135-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		M SNMG	M SNMG	R SNMM	R SNMM	R SNMM	
		76 225 ...	76 225 ...	76 128 ...	76 128 ...	76 128 ...	
ISO	RE mm						
120408EN	0,8	51801	71801				
120412EN	1,2	52001	72001				
120416EN	1,6	52201	72201				
150612EN	1,2	53201	73201	33201	53201	73201	
150616EN	1,6	53401	73401	33401	53401	73401	
190612EN	1,2	54401	74401				
190616EN	1,6	54601	74601	34601	54601	74601	
190624EN	2,4	54801	74801				
250724EN	2,4					76001	
250924EN	2,4			37001	57001	77001	
P		●	●	●	●	●	
M			○			○	
K		○		○	○		
N							
S							
H							
O							

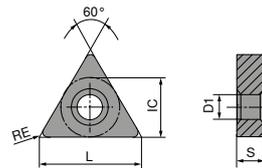
# SNMM



ISO	RE mm	76 129 ...	76 129 ...	76 129 ...
120408EN	0,8	31801	51801	71801
120412EN	1,2	32001	52001	72001
150612EN	1,2	33201	53201	73201
150616EN	1,6	33401	53401	73401
190612EN	1,2	34401	54401	74401
190616EN	1,6	34601	54601	74601
190624EN	2,4	34801	54801	74801
250724EN	2,4	36001	56001	76001
250924EN	2,4	37001	57001	77001
P		●	●	●
M				○
K		○	○	
N				
S				
H				
O				

# TNMG / TNMM

Designation	L mm	S mm	D1 mm	IC mm
TNMG 1103..	11,0	3,18	2,26	6,35
TNMG 1604..	16,5	4,76	3,81	9,52
TNM. 2204..	22,0	4,76	5,16	12,70



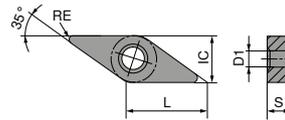
# TNMG

ISO	RE mm	NEW					
		-F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P	-M50 CTCP115-P	-M50 CTCP125-P	-M50 CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	F	M	M	M
		TNMG	TNMG	TNMG	TNMG	TNMG	TNMG
		76 146 ...	76 146 ...	76 146 ...	76 138 ...	76 138 ...	76 138 ...
110304EN	0,4	30401	50401	70401			
110308EN	0,8	30601	50601	70601			
160404EN	0,4	31601	51601	71601	31601	51601	71601
160408EN	0,8	31801	51801	71801	31801	51801	71801
160412EN	1,2	32001	52001	72001	32001	52001	72001
220408EN	0,8				33001	53001	73001
220412EN	1,2				33201	53201	73201
P		●	●	●	●	●	●
M				○			○
K		○	○		○	○	
N							
S							
H							
O							



### VNMG

Designation	L mm	S mm	D1 mm	IC mm
VNMG 1604..	16,6	4,76	3,81	9,52



### VNMG

	NEW -F40 CTCP125-P	NEW -F50 CTCP115-P	NEW -F50 CTCP125-P	NEW -F50 CTCP135-P
	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
	F VNMG	F VNMG	F VNMG	F VNMG
	76 000 ...	76 156 ...	76 156 ...	76 156 ...
ISO				
RE mm				
160404EN	0,4	51601	31601	51601
160408EN	0,8	51801	31801	51801

ISO	RE mm
160404EN	0,4
160408EN	0,8

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

### VNMG

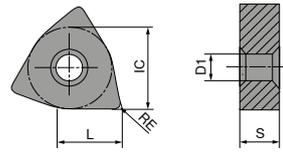
	NEW -XU CTCP115-P	NEW -XU CTCP125-P	NEW -M40 CTCP125-P	NEW -M50 CTCP115-P	NEW -M50 CTCP125-P
	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
	M VNMG	M VNMG	M VNMG	M VNMG	M VNMG
	76 294 ...	76 294 ...	76 001 ...	76 131 ...	76 131 ...
ISO					
RE mm					
160404EN	0,4	31601	51601	51601	31601
160408EN	0,8	31801	51801	51801	31801
160412EN	1,2			32001	52001

ISO	RE mm
160404EN	0,4
160408EN	0,8
160412EN	1,2

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

### WNMG

Designation	L mm	S mm	D1 mm	IC mm
WNMG 0604..	6,5	4,76	3,81	9,52
WNMG 0804..	8,6	4,76	5,16	12,70



### WNMG

ISO	RE mm	NEW						
		-F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P	-TFQ CTCP115-P	-TFQ CTCP125-P	-XU CTCP115-P	-XU CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F WNMG	F WNMG	F WNMG	F WNMG	F WNMG	M WNMG	M WNMG
		76 157 ...	76 157 ...	76 157 ...	76 177 ...	76 177 ...	76 295 ...	76 295 ...
060404EN	0,4	30401	50401	70401	30401	51401		
060408EN	0,8	30601	50601	70601	30601	50601		
080404EN	0,4	31601	51601	71601			31601	51601
080408EN	0,8	31801	51801	71801	31801	51801	31801	51801
080412EN	1,2	32001	52001	72001	32001	52001	32001	52001
P		●	●	●	●	●	●	●
M				○				
K		○	○		○	○	○	○
N								
S								
H								
O								

# WNMG

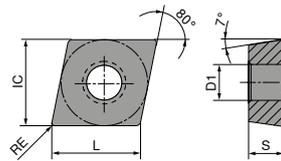
		NEW		NEW		NEW		NEW		NEW	
		-M50 CTCP115-P		-M50 CTCP125-P		-M50 CTCP135-P		-TMQ CTCP115-P		-TMQ CTCP125-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		M WNMG		M WNMG		M WNMG		M WNMG		M WNMG	
		76 139 ...		76 139 ...		76 139 ...		76 198 ...		76 198 ...	
ISO	RE mm										
060404EN	0,4	30401		50401		70401					
060408EN	0,8	30601		50601		70601					
060412EN	1,2	30801		50801		70801					
080404EN	0,4	31601		51601		71601					
080408EN	0,8	31801		51801		71801		31801		51801	
080412EN	1,2	32001		52001		72001		32001		52001	
080416EN	1,6	32201		52201		72201					
P		●		●		●		●		●	
M						○					
K		○		○				○		○	
N											
S											
H											
O											

# WNMG

		NEW		NEW		NEW	
		-M70 CTCP115-P		-M70 CTCP125-P		-M70 CTCP135-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		M WNMG		M WNMG		M WNMG	
		76 273 ...		76 273 ...		76 273 ...	
ISO	RE mm						
060408EN	0,8	30601		50601		70601	
060412EN	1,2	30801		50801		70801	
080408EN	0,8	31801		51801		71801	
080412EN	1,2	32001		52001		72001	
080416EN	1,6	32201		52201		72201	
P		●		●		●	
M						○	
K		○		○			
N							
S							
H							
O							

### CCGT / CCMT

Designation	L mm	S mm	D1 mm	IC mm
CC.T 0602..	6,4	2,38	2,8	6,35
CCMT 09T3..	9,7	3,97	4,4	9,52
CCMT 09T3..	9,7	9,70	4,4	9,52
CCMT 1204..	12,9	4,76	5,5	12,70
CCMT 1204..	12,9	12,90	5,5	12,70



### CCGT / CCMT

		NEW	NEW	NEW	NEW	NEW	NEW
		-SF	-SF	-SF	-SF	-SF	-SMF
		CTCP125-P	CTCP135-P	CTCP115-P	CTCP125-P	CTCP135-P	CTCP115-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	F	F	F	F
		CCGT	CCGT	CCMT	CCMT	CCMT	CCMT
		76 251 ...	76 251 ...	76 253 ...	76 253 ...	76 253 ...	76 249 ...
ISO	RE mm						
060202EN	0,2	50201	70201				
060204EN	0,4			30401	50401	70401	50401
060208EN	0,8						50601
09T304EN	0,4			31601	51601	71601	31601
09T308EN	0,8			31801	51801		31801
120404EN	0,4				52801		
120408EN	0,8				53001	33001	52801
P		●	●	●	●	●	●
M			○			○	
K		○		○	○		○
N							
S							
H							
O							

# CCMT / CCGT

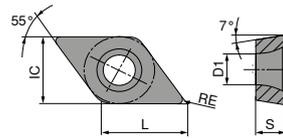
		NEW -SMF CTCP135-P	NEW -SM CTCP125-P	NEW -SM CTCP135-P	NEW -SM CTCP115-P	NEW -SM CTCP125-P	NEW -SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F CCMT	M CCGT	M CCGT	M CCMT	M CCMT	M CCMT
		76 249 ...	76 250 ...	76 250 ...	76 252 ...	76 252 ...	76 252 ...
ISO	RE mm						
060202EN	0,2		50201	70201			
060204EN	0,4	70401			30401 30601	50401	70401
060208EN	0,8						70601
09T304EN	0,4	71601			31601	51601	71601
09T308EN	0,8				31801	51801	71801
120404EN	0,4				32801	52801	72801
120408EN	0,8	73001			33001	53001	73001
120412EN	1,2					53201	
P		●	●	●	●	●	●
M		○		○			○
K			○		○	○	
N							
S							
H							
O							

# CCMT

		NEW -SMQ CTCP115-P	NEW -SMQ CTCP125-P
		DRAGONSKIN	DRAGONSKIN
		F CCMT	F CCMT
		76 194 ...	76 194 ...
ISO	RE mm		
09T304EN	0,4		31601
09T308EN	0,8		31801
120404EN	0,4		32801
120408EN	0,8		33001
120412EN	1,2		53201
P			●
M			○
K			○
N			
S			
H			
O			

### DCGT / DCMT

Designation	L mm	S mm	D1 mm	IC mm
DC.T 0702..	7,75	2,38	2,8	6,35
DCMT 11T3..	11,60	3,97	4,4	9,52



### DCGT / DCMT

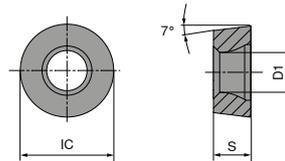
		NEW	NEW	NEW	NEW	NEW	NEW	
		<b>-SF</b> CTCP125-P	<b>-SF</b> CTCP115-P	<b>-SF</b> CTCP125-P	<b>-SF</b> CTCP135-P	<b>-SMF</b> CTCP115-P	<b>-SMF</b> CTCP125-P	<b>-SMF</b> CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		<b>F</b> DCGT	<b>F</b> DCMT	<b>F</b> DCMT	<b>F</b> DCMT	<b>F</b> DCMT	<b>F</b> DCMT	<b>F</b> DCMT
		<b>76 257 ...</b>	<b>76 259 ...</b>	<b>76 259 ...</b>	<b>76 259 ...</b>	<b>76 265 ...</b>	<b>76 265 ...</b>	<b>76 265 ...</b>
ISO	RE mm							
070202EN	0,2	50201						
070204EN	0,4		30401	50401	70401		50401	70401
070208EN	0,8							70601
11T304EN	0,4		31601	51601	71601	31601	51601	71601
11T308EN	0,8		31801	51801	71801	31801	51801	71801
P		●	●	●	●	●	●	●
M					○			○
K		○	○	○		○	○	
N								
S								
H								
O								

# DCGT / DCMT

		NEW	NEW	NEW	NEW	NEW	NEW	NEW
		-SM CTCP125-P	-SM CTCP135-P	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P	-SMQ CTCP115-P	-SMQ CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M DCGT	M DCGT	M DCMT	M DCMT	M DCMT	M DCMT	M DCMT
		76 256 ...	76 256 ...	76 258 ...	76 258 ...	76 258 ...	76 195 ...	76 195 ...
ISO	RE mm							
070202EN	0,2	50201	70201					
070204EN	0,4			30401	50401	70401	30401	50401
070208EN	0,8			30601	50601	70601		
11T304EL	0,4							51601
11T304EN	0,4				51601	71601		51501
11T304EN	0,4			31601				
11T304ER	0,4							51701
11T308EN	0,8			31801	51801	71801		51801
11T312EN	1,2				52001			
P		•	•	•	•	•	•	•
M			○			○		
K		○		○	○		○	○
N								
S								
H								
O								

## RCMT / RCGT

Designation	S mm	D1 mm	IC mm
RCGT 0602..	2,38	2,8	6
RCGT 0803..	3,18	3,4	8
RCMT 1003..	3,18	4,0	10
RCMT 1204..	4,76	4,9	12
RCMT 1606..	6,35	5,3	16
RCMT 2006..	6,35	6,5	20
RCMT 2507..	7,94	7,2	25

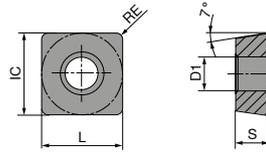


## RCMT / RCGT

ISO	RE mm	NEW -SM CTCP115-P DRAGONSKIN	NEW -SM CTCP125-P DRAGONSKIN	NEW -SM CTCP125-P DRAGONSKIN	NEW -SM CTCP135-P DRAGONSKIN	NEW -SM CTCP135-P DRAGONSKIN
		M RCGT 76 264 ...	M RCGT 76 262 ...	M RCGT 76 264 ...	M RCGT 76 262 ...	M RCGT 76 264 ...
0602M0EN	3,0		50201		70201	
0803M0EN	4,0		51201		71201	
1003M0SN	5,0			51401		71401
1204M0SN	6,0	32801		52601		72601
1606M0SN	8,0	34001		53801		73801
2006M0SN	10,0			55001		75001
2507M0SN	12,5	36201		56201		76201
P		●	●	●	●	●
M					○	○
K		○	○	○		
N						
S						
H						
O						

### SCMT

Designation	L mm	S mm	D1 mm	IC mm
SCMT 09T3..	9,52	3,97	4,4	9,52
SCMT 1204..	12,70	4,76	5,5	12,70

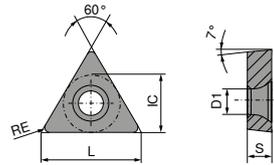


### SCMT

ISO	RE mm	NEW					
		-SF CTCP125-P	-SMF CTCP115-P	-SMF CTCP135-P	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F SCMT	F SCMT	F SCMT	M SCMT	M SCMT	M SCMT
		76 269 ...	76 267 ...	76 267 ...	76 268 ...	76 268 ...	76 268 ...
09T304EN	0,4	50401	30401		30401	50401	70401
09T308EN	0,8	50601	30601		30601	50601	70601
120408EN	0,8	51801		71801	31801	51801	71801
120412EN	1,2					52001	
P		●	●	●	●	●	●
M				○			○
K		○	○		○	○	
N							
S							
H							
O							

### TCMT / TCGT

Designation	L mm	S mm	D1 mm	IC mm
TCMT 0902..	9,6	2,38	2,50	5,56
TC.T 1102..	11,0	2,38	2,80	6,35
TCMT 16T3..	16,5	3,97	4,40	9,52
TCMT 2204..	22,0	4,76	5,16	12,70

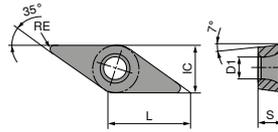


### TCMT / TCGT

ISO	RE mm	NEW						
		-SF CTCP125-P	-SMF CTCP115-P	-SMF CTCP135-P	-SM CTCP135-P	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F TCMT	F TCMT	F TCMT	M TCGT	M TCMT	M TCMT	M TCMT
		76 275 ...	76 284 ...	76 284 ...	76 270 ...	76 274 ...	76 274 ...	76 274 ...
090204EN	0,4						50401	70401
110202EN	0,2				71401			
110204EN	0,4	51601				31601	51601	71601
110208EN	0,8	51801	31801	71801		31801		71801
16T304EN	0,4	52801	32801			32801	52801	72801
16T308EN	0,8	53001	33001			33001	53001	73001
220408EN	0,8						54201	74201
P		●	●	●	●	●	●	●
M								
K		○	○	○	○	○	○	○
N								
S								
H								
O								

### VCMT / VCMT

Designation	L mm	S mm	D1 mm	IC mm
VC.T 1103..	11,1	3,18	2,9	6,35
VCMT 1604..	16,6	4,76	4,4	9,52



### VCMT / VCMT

ISO	RE mm	NEW -SF CTCP115-P DRAGONSKIN	NEW -SF CTCP115-P DRAGONSKIN	NEW -SF CTCP125-P DRAGONSKIN	NEW -SF CTCP125-P DRAGONSKIN	NEW -SF CTCP135-P DRAGONSKIN	NEW -SF CTCP135-P DRAGONSKIN
		F VCMT 76 277 ...	F VCMT 76 279 ...	F VCMT 76 277 ...	F VCMT 76 279 ...	F VCMT 76 277 ...	F VCMT 76 279 ...
110302EN	0,2	31401		51401		71401	
110304EN	0,4	31601		51601		71601	
110308EN	0,8	31801		51801		71801	
160404EN	0,4		32801		52801		72801
160408EN	0,8		33001		53001		
P		●	●	●	●	●	●
M						○	○
K		○	○	○	○		
N							
S							
H							
O							

### VCMT / VCMT

ISO	RE mm	NEW -SMF CTCP115-P DRAGONSKIN	NEW -SMF CTCP125-P DRAGONSKIN	NEW -SMF CTCP135-P DRAGONSKIN	NEW -SMF CTCP135-P DRAGONSKIN	NEW -SM CTCP115-P DRAGONSKIN	NEW -SM CTCP125-P DRAGONSKIN	NEW -SM CTCP135-P DRAGONSKIN
		F VCMT 76 288 ...	F VCMT 76 288 ...	F VCMT 76 285 ...	F VCMT 76 288 ...	M VCMT 76 278 ...	M VCMT 76 278 ...	M VCMT 76 278 ...
110302EN	0,2			71401				
110304EN	0,4	31601	51601		71601			
160404EN	0,4	32801	52801		72801	32801	52801	72801
160406EN	0,6					32901		
160408EN	0,8	33001	53001		73001	33001	53001	73001
160412EN	1,2					33201	53201	73201
P		●	●	●	●	●	●	●
M				○	○			○
K		○	○			○	○	
N								
S								
H								
O								

# Material examples for cutting data tables

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

\* Tensile strength

## Cutting data standard values

Index	DRAGONSKIN		
	CTCP115-P	CTCP125-P	CTCP135-P
P.1.1	370	295	210
P.1.2	315	250	175
P.1.3	270	210	145
P.1.4	250	200	135
P.1.5	230	180	120
P.2.1	325	260	180
P.2.2	250	195	130
P.2.3	230	180	120
P.2.4	170	130	85
P.3.1	200	170	150
P.3.2	140	105	95
P.3.3	85	40	35
P.4.1	200	170	155
P.4.2	170	135	125
M.1.1			155
M.2.1			95
M.3.1			135
K.1.1	255	170	
K.1.2	235	160	
K.2.1	270	180	
K.2.2	205	160	
K.3.1	250	200	
K.3.2	210	160	
N.1.1			
N.1.2			
N.2.1			
N.2.2			
N.2.3			
N.3.1			
N.3.2			
N.3.3			
N.4.1			
S.1.1			
S.1.2			
S.2.1			
S.2.2			
S.2.3			
S.3.1			
S.3.2			
S.3.3			
H.1.1			
H.1.2			
H.1.3			
H.1.4			
H.2.1			
H.3.1			
O.1.1			
O.1.2			
O.2.1			
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. **±20%** according to the usage conditions.

## Table of contents

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Product programme	41-55

## CERATIZIT \ Performance

Premium quality tools for high performance.

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

## Overview of Clamping systems

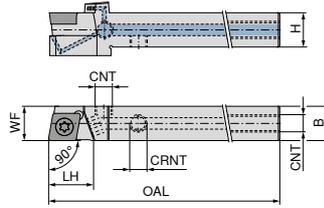
### Holders for positive inserts



Geometry	Tool holder	Page No.
	SCAC 90° DC	41
 CC..	SCDC 45° DC	42
	SCLC 95° DC	43
	SDAC 90° DC	44
 DC..	SDHC 107,5° DC	45
	SDJC 93° DC	46
	SDNC 62,5° DC	47
	SRDC 0° DC	48
 SC..	SSDC 45° DC	49
	SSSC 45° DC	50
 TC..	STGC 90° DC	51
 VC..	SVHC 107,5° DC	52
	SVJC 93° DC	53
	SVVC 72,5° DC	54
	SVZC 100° DC	55

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

▲ for sliding head lathes



Illustrations show right-hand versions



**NEW** Left-hand 70 766 ...  
**NEW** Right-hand 70 766 ...

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 ...
SCAC R/L 1212 F09 DC	12	12	80	13	12	M6	M6	3,2	CC.. 09T3	01201	01200
SCAC R/L 1212 M09 DC	12	12	150	13	12	M6	M6	3,2	CC.. 09T3	11201	11200
SCAC R/L 1616 H09 DC	16	16	100	13	16	G1/8"	M6	3,2	CC.. 09T3	01601	01600
SCAC R/L 2020 K12 DC	20	20	125	17	20	G1/8"	M6	5	CC.. 1204	02001	02000

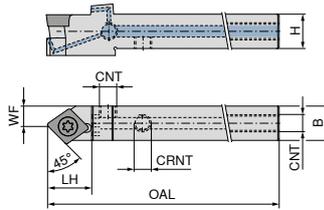
**Spare parts for Article no.**

Article no.	Clamping screw	Carbide type C	Grubscrew	Grubscrew	Threaded sleeve
70 766 01200 / 70 766 01201	859			86700	
70 766 11200 / 70 766 11201	859			86700	
70 766 01600 / 70 766 01601	87900	165	88000	86700	171
70 766 02000 / 70 766 02001	820	166	88000	86700	170

**Spare parts for Article no.**

Article no.	Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 766 01200 / 70 766 01201		120			
70 766 11200 / 70 766 11201		120			
70 766 01600 / 70 766 01601	87600	120	88100	87700	294
70 766 02000 / 70 766 02001	87600	120	88100	87700	294

# MaxiLock-S – SCDC 45° DC – Tool holder with screw clamping

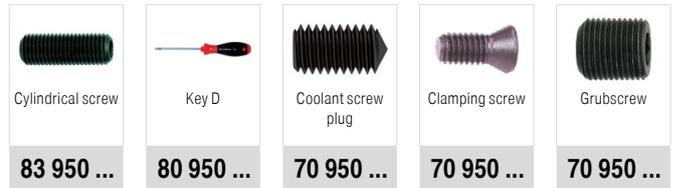


**NEW**  
Neutral  
**70 767 ...**

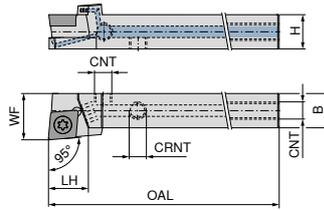
ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	
SCDC L 0808 K06 DC	8	8	125	13	4	M5	M5	1,2	CC.. 0602	00801
SCDC L 1010 M06 DC	10	10	150	13	5	M6	M6	1,2	CC.. 0602	01001
SCDC L 1212 M09 DC	12	12	150	18	6	M6	M6	3,2	CC.. 09T3	01201
SCDC L 1414 M09 DC	14	14	150	18	7	G1/8"	M6	3,2	CC.. 09T3	01401

**Spare parts for Article no.**

Article no.	Cylindrical screw	Key D	Coolant screw plug	Clamping screw	Grubscrew
70 767 00801	157	039		857	
70 767 01001		039		857	86700
70 767 01201		120		859	86700
70 767 01401		120	294	859	86700



# MaxiLock-S – SCLC 95° DC – Tool holder with screw clamping



Illustrations show right-hand versions



**NEW**  
Left-hand  
**70 770 ...**

**NEW**  
Right-hand  
**70 770 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	70 770 ...	70 770 ...
SCLC R/L 1010 E06 DC	10	10	70	9	12	M6	M6	1,2	CC.. 0602	01001	01000
SCLC R/L 1212 F09 DC	12	12	80	15	16	M6	M6	3,2	CC.. 09T3	01201	01200
SCLC R/L 1616 H09 DC	16	16	100	17	20	G1/8"	M6	3,2	CC.. 09T3	11601	01600
SCLC R/L 2020 K09 DC	20	20	125	17	25	G1/8"	M6	3,2	CC.. 09T3	12001	02000
SCLC R/L 1616 H12 DC	16	16	100	20	20	G1/8"	M6	5	CC.. 1204	01601	11600
SCLC R/L 2020 K12 DC	20	20	125	20	25	G1/8"	M6	5	CC.. 1204	02001	12000
SCLC R/L 2525 M12 DC	25	25	150	20	32	G1/8"	M6	5	CC.. 1204	02501	02500
SCLC R/L 3225 P12 DC	32	25	170	20	32	G1/8"	G1/8"	5	CC.. 1204	03201	03200

**Spare parts for Article no.**

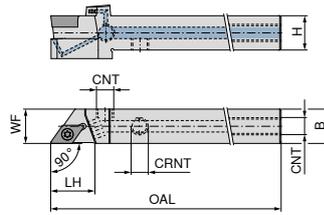
Article no.	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
70 770 01000 / 70 770 01001	857			86700	
70 770 01200 / 70 770 01201	859			86700	
70 770 01600 / 70 770 11601	87900	165	88000	86700	171
70 770 02000 / 70 770 12001	87900	165	88000	86700	171
70 770 11600 / 70 770 01601	820	166	88000	86700	170
70 770 12000 / 70 770 02001	820	166	88000	86700	170
70 770 02500 / 70 770 02501	820	166	88000	86700	170
70 770 03200 / 70 770 03201	820	166	88000		170

**Spare parts for Article no.**

Article no.	70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...
70 770 01000 / 70 770 01001		039			
70 770 01200 / 70 770 01201		120			
70 770 01600 / 70 770 11601	87600	120	88100	87700	294
70 770 02000 / 70 770 12001	87600	120	88100	87700	294
70 770 11600 / 70 770 01601	87600	120	88100	87700	294
70 770 12000 / 70 770 02001	87600	120	88100	87700	294
70 770 02500 / 70 770 02501	87600	120	88100	87700	294
70 770 03200 / 70 770 03201	87600	120	88100	87700	294

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

▲ for sliding head lathes



Illustrations show right-hand versions



**NEW**  
Left-hand  
**70 771 ...**

**NEW**  
Right-hand  
**70 771 ...**

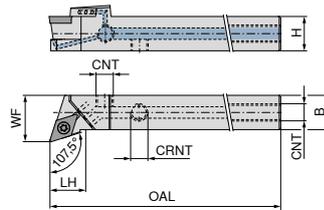
ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert		
SDAC R/L 0808 K07 DC	8	8	125	14	8	M5	M5	1,2	DC.. 0702		
SDAC R/L 1010 M07 DC	10	10	150	14	10	M6	M6	1,2	DC.. 0702	00801	00800
SDAC R/L 1212 M07 DC	12	12	150	14	12	M6	M6	1,2	DC.. 0702	01201	01200
SDAC R/L 1212 M11 DC	12	12	150	21	12	M6	M6	3,2	DC.. 11T3	11201	11200

Cylindrical screw	Key D	Clamping screw	Grubscrew
<b>83 950 ...</b>	<b>80 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>

**Spare parts  
for Article no.**

70 771 00800 / 70 771 00801	157	039	857	
70 771 01000 / 70 771 01001		039	857	86700
70 771 01200 / 70 771 01201		039	857	86700
70 771 11200 / 70 771 11201		120	859	86700

# MaxiLock-S – SDHC 107.5° DC – Tool holder with screw clamping



Illustrations show right-hand versions



**NEW**  
Left-hand  
**70 772 ...**

**NEW**  
Right-hand  
**70 772 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert		
SDHC R/L 1212 F07 DC	12	12	80	12,2	16	M6	M6	1,2	DC.. 0702		
SDHC R/L 1616 H11 DC	16	16	100	11,6	20	G1/8"	M6	3,2	DC.. 11T3	<b>01201</b>	<b>01200</b>
SDHC R/L 2020 K11 DC	20	20	125	14,1	25	G1/8"	M6	3,2	DC.. 11T3	<b>01601</b>	<b>01600</b>
SDHC R/L 2525 M11 DC	25	25	150	20,5	32	G1/8"	M6	3,2	DC.. 11T3	<b>02001</b>	<b>02000</b>
										<b>02501</b>	<b>02500</b>

**Spare parts for Article no.**

Article no.	857	106	88000	86700	171
70 772 01200 / 70 772 01201				<b>86700</b>	
70 772 01600 / 70 772 01601	<b>87900</b>	<b>106</b>	<b>88000</b>	<b>86700</b>	<b>171</b>
70 772 02000 / 70 772 02001	<b>87900</b>	<b>106</b>	<b>88000</b>	<b>86700</b>	<b>171</b>
70 772 02500 / 70 772 02501	<b>87900</b>	<b>106</b>	<b>88000</b>	<b>86700</b>	<b>171</b>

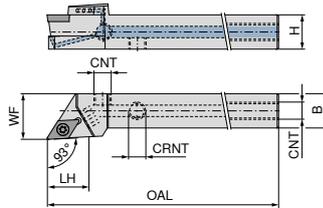
Clamping screw	Solid Carbide Seat D	Grubscrew	Grubscrew	Threaded sleeve
<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>

**Spare parts for Article no.**

Article no.	87600	120	88100	87700	294
70 772 01200 / 70 772 01201		<b>039</b>			
70 772 01600 / 70 772 01601	<b>87600</b>	<b>120</b>	<b>88100</b>	<b>87700</b>	<b>294</b>
70 772 02000 / 70 772 02001	<b>87600</b>	<b>120</b>	<b>88100</b>	<b>87700</b>	<b>294</b>
70 772 02500 / 70 772 02501	<b>87600</b>	<b>120</b>	<b>88100</b>	<b>87700</b>	<b>294</b>

Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
<b>70 950 ...</b>	<b>80 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>

# MaxiLock-S – SDJC 93° DC – Tool holder with screw clamping



Illustrations show right-hand versions



**NEW**  
Left-hand  
**70 773 ...**

**NEW**  
Right-hand  
**70 773 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert
SDJC R/L 1010 E07 DC	10	10	70	13,0	12	M6	M6	1,2	DC.. 0702
SDJC R/L 1212 F07 DC	12	12	80	14,3	16	M6	M6	1,2	DC.. 0702
SDJC R/L 1616 H11 DC	16	16	100	19,3	20	G1/8"	M6	3,2	DC.. 11T3
SDJC R/L 2020 K11 DC	20	20	125	19,9	25	G1/8"	M6	3,2	DC.. 11T3
SDJC R/L 2525 M11 DC	25	25	150	21,2	32	G1/8"	M6	3,2	DC.. 11T3

**Spare parts for Article no.**

70 773 01000 / 70 773 01001  
70 773 01200 / 70 773 01201  
70 773 01600 / 70 773 01601  
70 773 02000 / 70 773 02001  
70 773 02500 / 70 773 02501

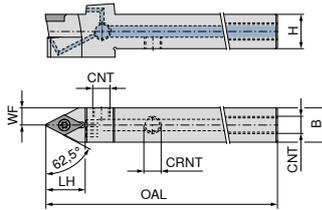
Clamping screw	Solid Carbide Seat D	Grubscrew	Grubscrew	Threaded sleeve
70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
857			86700	
857			86700	
87900	106	88000	86700	171
87900	106	88000	86700	171
87900	106	88000	86700	171

**Spare parts for Article no.**

70 773 01000 / 70 773 01001  
70 773 01200 / 70 773 01201  
70 773 01600 / 70 773 01601  
70 773 02000 / 70 773 02001  
70 773 02500 / 70 773 02501

Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...
	039			
	039			
87600	120	88100	87700	294
87600	120	88100	87700	294
87600	120	88100	87700	294

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



**NEW**  
Neutral  
**70 774 ...**

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

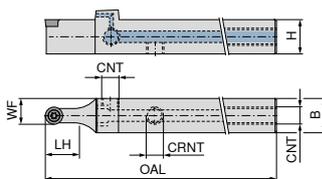
**Spare parts  
for Article no.**

Article no.	Clamping screw	Solid Carbide Seat D	Grubscrew	Grubscrew	Threaded sleeve
70 774 01200	857			86700	
70 774 11200	857			86700	
70 774 01600	87900	106	88000	86700	171
70 774 02000	87900	106	88000	86700	171
70 774 21200	859			86700	
70 774 02500	87900	106	88000	86700	171

**Spare parts  
for Article no.**

Article no.	Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 774 01200		039			
70 774 11200		039			
70 774 01600	87600	120	88100	87700	294
70 774 02000	87600	120	88100	87700	294
70 774 21200		120			
70 774 02500	87600	120	88100	87700	294

# MaxiLock-S – SRDC 0° DC – Tool holder with screw clamping



**NEW**  
Neutral  
**70 775 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	
SRDC N 1212 F06 DC	12	12	80	12,0	9,0	M6	M6	1,2	RC.. 0602 M0	01200
SRDC N 1616 H06 DC	16	16	100	12,0	11,0	G1/8"	M6	1,2	RC.. 0602 M0	01600
SRDC N 2020 K06 DC	20	20	125	12,0	13,0	G1/8"	M6	1,2	RC.. 0602 M0	02000
SRDC N 2525 M06 DC	25	25	150	12,4	15,5	G1/8"	M6	1,2	RC.. 0602 M0	02500
SRDC N 1616 H08 DC	16	16	100	16,0	12,0	G1/8"	M6	1,8	RC.. 0803 M0	11600
SRDC N 2020 K08 DC	20	20	125	16,5	14,0	G1/8"	M6	1,8	RC.. 0803 M0	12000
SRDC N 2525 M08 DC	25	25	150	16,5	16,5	G1/8"	M6	1,8	RC.. 0803 M0	12500
SRDC N 1616 H10 DC	16	16	100	20,9	13,0	G1/8"	M6	3,2	RC.. 1003 M0	21600
SRDC N 2020 K10 DC	20	20	125	20,0	15,0	G1/8"	M6	3,2	RC.. 1003 M0	22000
SRDC N 2525 M10 DC	25	25	150	20,9	17,5	G1/8"	M6	3,2	RC.. 1003 M0	22500

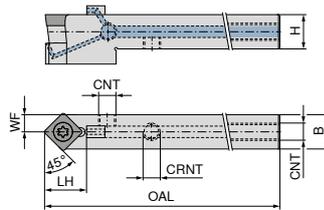
**Spare parts for Article no.**

	Clamping screw	Solid carbide support R	Grubscrew	Grubscrew	Threaded sleeve
70 775 01200	857			86700	
70 775 01600	857		88000	86700	
70 775 02000	857		88000	86700	
70 775 02500	857		88000	86700	
70 775 11600	819		88000	86700	
70 775 12000	819		88000	86700	
70 775 12500	819		88000	86700	
70 775 21600	87900	117	88000	86700	171
70 775 22000	87900	117	88000	86700	171
70 775 22500	87900	117	88000	86700	171

**Spare parts for Article no.**

	Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 775 01200		039			
70 775 01600	87600	039	88100	87700	294
70 775 02000	87600	039	88100	87700	294
70 775 02500	87600	039	88100	87700	294
70 775 11600	87600	118	88100	87700	294
70 775 12000	87600	118	88100	87700	294
70 775 12500	87600	118	88100	87700	294
70 775 21600	87600	120	88100	87700	294
70 775 22000	87600	120	88100	87700	294
70 775 22500	87600	120	88100	87700	294

# MaxiLock-S – SSDC 45° DC – Tool holder with screw clamping

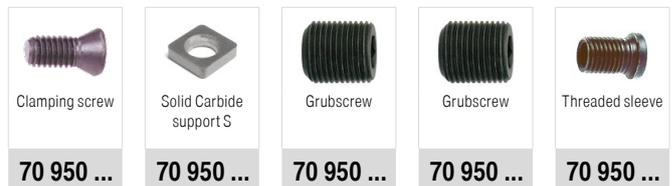


**NEW**  
Neutral  
**70 776 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	
SSDC N 1212 F09 DC	12	12	80	16	6,0	M6	M6	3,2	SC.. 09T3..	01200
SSDC N 1616 H09 DC	16	16	100	20	8,0	G1/8"	M6	3,2	SC.. 09T3..	01600
SSDC N 2020 K09 DC	20	20	125	20	10,0	G1/8"	M6	3,2	SC.. 09T3..	02000
SSDC N 1616 H12 DC	16	16	100	25	8,0	G1/8"	M6	5	SC.. 1204..	11600
SSDC N 2020 K12 DC	20	20	125	25	10,0	G1/8"	M6	5	SC.. 1204..	12000
SSDC N 2525 M12 DC	25	25	150	25	12,5	G1/8"	M6	5	SC.. 1204..	02500

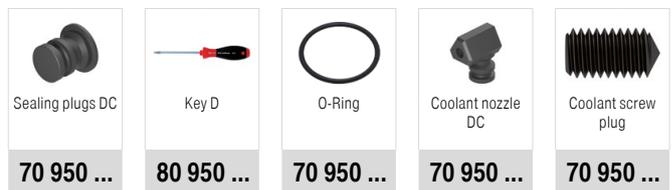
**Spare parts for Article no.**

Article no.	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
70 776 01200	87900			86700	
70 776 01600	87900	167	88000	86700	171
70 776 02000	87900	167	88000	86700	171
70 776 11600	820	168	88000	86700	170
70 776 12000	820	168	88000	86700	170
70 776 02500	820	168	88000	86700	170

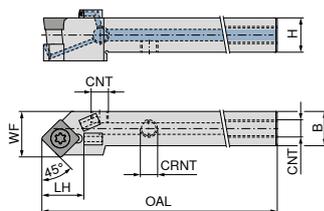


**Spare parts for Article no.**

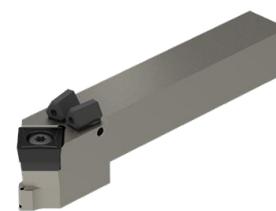
Article no.	70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...
70 776 01200		120			
70 776 01600	87600	120	88100	87700	294
70 776 02000	87600	120	88100	87700	294
70 776 11600	87600	120	88100	87700	294
70 776 12000	87600	120	88100	87700	294
70 776 02500	87600	120	88100	87700	294



# MaxiLock-S – SSSC 45° DC – Tool holder with screw clamping



Illustrations show right-hand versions



**NEW** Left-hand 70 777 ...  
**NEW** Right-hand 70 777 ...

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	Left-hand 70 777 ...	Right-hand 70 777 ...
SSSC R/L 1212 F09 DC	12	12	80	18	16	M6	M6	3,2	SC.. 09T3..	01201	01200
SSSC R/L 1616 H09 DC	16	16	100	20	20	G1/8"	M6	3,2	SC.. 09T3..	01601	01600
SSSC R/L 2020 K09 DC	20	20	125	20	25	G1/8"	M6	3,2	SC.. 09T3..	02001	02000
SSSC R/L 1616 H12 DC	16	16	100	25	20	G1/8"	M6	5	SC.. 1204..	11601	11600
SSSC R/L 2020 K12 DC	20	20	125	25	25	G1/8"	M6	5	SC.. 1204..	12001	12000
SSSC R/L 2525 M12 DC	25	25	150	25	32	G1/8"	M6	5	SC.. 1204..	02501	02500
SSSC L 3225 P 12 DC	32	25	170	25	32	G1/8"	G1/8"	5	SC.. 1204..	03201	

**Spare parts for Article no.**

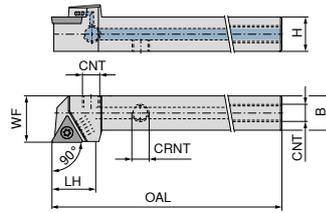
Article no.	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
70 777 01200 / 70 777 01201	859			86700	
70 777 01600 / 70 777 01601	87900	167	88000	86700	171
70 777 02000 / 70 777 02001	87900	167	88000	86700	171
70 777 11600 / 70 777 11601	820	168	88000	86700	170
70 777 12000 / 70 777 12001	820	168	88000	86700	170
70 777 02500 / 70 777 02501	820	168	88000	86700	170
70 777 03201	820	168	88000		170

**Spare parts for Article no.**

Article no.	70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...
70 777 01200 / 70 777 01201		120			
70 777 01600 / 70 777 01601	87600	120	88100	87700	294
70 777 02000 / 70 777 02001	87600	120	88100	87700	294
70 777 11600 / 70 777 11601	87600	120	88100	87700	294
70 777 12000 / 70 777 12001	87600	120	88100	87700	294
70 777 02500 / 70 777 02501	87600	120	88100	87700	294
70 777 03201	87600	120	88100	87700	294

70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...

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



Illustrations show right-hand versions



**NEW** Left-hand **70 778 ...**  
**NEW** Right-hand **70 778 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert		
STGC R/L 1212 F11 DC	12	12	80	15	16	M6	M6	1,2	TC.. 1102		01201
STGC R/L 1616 H16 DC	16	16	100	22	20	G1/8"	M6	3,2	TC.. 16T3		01601
STGC R/L 2020 K16 DC	20	20	125	22	25	G1/8"	M6	3,2	TC.. 16T3		02001
STGC R/L 2525 M16 DC	25	25	150	22	32	G1/8"	M6	3,2	TC.. 16T3		02501

**Spare parts for Article no.**

70 778 01200 / 70 778 01201	857				86700	
70 778 01600 / 70 778 01601	87900	169	88000	86700	171	
70 778 02000 / 70 778 02001	87900	169	88000	86700	171	
70 778 02500 / 70 778 02501	87900	169	88000	86700	171	

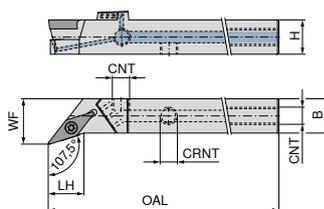
Clamping screw	Solid Carbide Seat T	Grubscrew	Grubscrew	Threaded sleeve
70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...

Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...

**Spare parts for Article no.**

70 778 01200 / 70 778 01201		039			
70 778 01600 / 70 778 01601	87600	120	88100	87700	294
70 778 02000 / 70 778 02001	87600	120	88100	87700	294
70 778 02500 / 70 778 02501	87600	120	88100	87700	294

# MaxiLock-S – SVHC 107.5° DC – Tool holder with screw clamping



Illustrations show right-hand versions



**NEW** Left-hand 70 779 ...  
**NEW** Right-hand 70 779 ...

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	Left-hand 70 779 ...	Right-hand 70 779 ...
SVHC R/L 1212 F11 DC	12	12	80	11,9	16	M6	M6	1,2	VC.. 1103	01201	01200
SVHC R/L 1616 H11 DC	16	16	100	11,9	20	G1/8"	M6	1,2	VC.. 1103	01601	01600
SVHC R/L 2020 K11 DC	20	20	125	14,7	25	G1/8"	M6	1,2	VC.. 1103	02001	02000
SVHC R/L 2525 M11 DC	25	25	150	20,1	32	G1/8"	M6	1,2	VC.. 1103	02501	02500
SVHC R/L 2020 K16 DC	20	20	125	13,7	25	G1/8"	M6	3,2	VC.. 1604	12001	12000
SVHC R/L 2525 M16 DC	25	25	150	20,0	32	G1/8"	M6	3,2	VC.. 1604	12501	12500
SVHC R/L 3225 P16 DC	32	25	170	20,0	32	G1/8"	M6	3,2	VC.. 1604	03201	03200
SVHC R/L 2525 M22 DC	25	25	150	21,9	32	G1/8"	M6	5	VC.. 2205	22501	22500

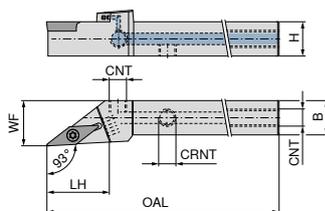
**Spare parts for Article no.**

Article no.	Clamping screw	Solid Carbide Seat V	Grubscrew	Grubscrew	Threaded sleeve
70 779 01200 / 70 779 01201	857			86700	
70 779 01600 / 70 779 01601	857			86700	
70 779 02000 / 70 779 02001	857		88000	86700	
70 779 02500 / 70 779 02501	857		88000	86700	
70 779 12000 / 70 779 12001	87900	107	88000	86700	171
70 779 12500 / 70 779 12501	87900	107	88000	86700	171
70 779 03200 / 70 779 03201	87900	107	88000	86700	171
70 779 22500 / 70 779 22501	820	109	88000	86700	170

**Spare parts for Article no.**

Article no.	Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 779 01200 / 70 779 01201		039			
70 779 01600 / 70 779 01601	87600	039	88100	87700	294
70 779 02000 / 70 779 02001	87600	039	88100	87700	294
70 779 02500 / 70 779 02501	87600	039	88100	87700	294
70 779 12000 / 70 779 12001	87600	120	88100	87700	294
70 779 12500 / 70 779 12501	87600	120	88100	87700	294
70 779 03200 / 70 779 03201	87600	120	88100	87700	294
70 779 22500 / 70 779 22501	87600	120	88100	87700	294

# MaxiLock-S – SVJC 93° DC – Tool holder with screw clamping



Illustrations show right-hand versions



**NEW** Left-hand  
**70 780 ...**

**NEW** Right-hand  
**70 780 ...**

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert	Left-hand	Right-hand
SVJC R/L 1212 F11 DC	12	12	80	21,6	16	M6	M6	1,2	VC.. 1103	01201	01200
SVJC R/L 1616 H11 DC	16	16	100	21,6	20	G1/8"	M6	1,2	VC.. 1103	01601	01600
SVJC R/L 2020 K11 DC	20	20	125	23,0	25	G1/8"	M6	1,2	VC.. 1103	02001	02000
SVJC R/L 2525 M11 DC	25	25	150	25,5	32	G1/8"	M6	1,2	VC.. 1103	02501	02500
SVJC R/L 2020 K16 DC	20	20	125	29,4	25	G1/8"	M6	3,2	VC.. 1604	12001	12000
SVJC R/L 2525 M16 DC	25	25	150	32,5	32	G1/8"	M6	3,2	VC.. 1604	12501	12500
SVJC R/L 3225 P16 DC	32	25	170	32,5	32	G1/8"	G1/8"	3,2	VC.. 1604	03201	03200

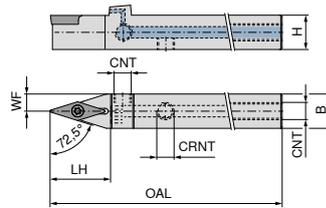
**Spare parts for Article no.**

Article no.	Clamping screw	Solid Carbide Seat V	Grubscrew	Grubscrew	Threaded sleeve
70 780 01200 / 70 780 01201	857			86700	
70 780 01600 / 70 780 01601	857		88000	86700	
70 780 02000 / 70 780 02001	857		88000	86700	
70 780 02500 / 70 780 02501	857		88000	86700	
70 780 12000 / 70 780 12001	87900	107	88000	86700	171
70 780 12500 / 70 780 12501	87900	107	88000	86700	171
70 780 03200 / 70 780 03201	87900	107	88000		171

**Spare parts for Article no.**

Article no.	Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 780 01200 / 70 780 01201		039			
70 780 01600 / 70 780 01601	87600	039	88100	87700	294
70 780 02000 / 70 780 02001	87600	039	88100	87700	294
70 780 02500 / 70 780 02501	87600	039	88100	87700	294
70 780 12000 / 70 780 12001	87600	120	88100	87700	294
70 780 12500 / 70 780 12501	87600	120	88100	87700	294
70 780 03200 / 70 780 03201	87600	120	88100	87700	294

# MaxiLock-S – SVVC 72.5° DC – Tool holder with screw clamping



**NEW**  
Neutral  
**70 781 ...**

ISO designation	H mm	B mm	OAL mm	WF mm	CNT	CRNT	torque moment Nm	Insert	
SVVC N 1212 F11 DC	12	12	80	6,0	M6	M6	1,2	VC.. 1103	01200
SVVC N 1616 H11 DC	16	16	100	8,0	G1/8"	M6	1,2	VC.. 1103	01600
SVVC N 2020 K11 DC	20	20	125	10,0	G1/8"	M6	1,2	VC.. 1103	02000
SVVC N 2525 M11 DC	25	25	150	12,5	G1/8"	M6	1,2	VC.. 1103	02500
SVVC N 2020 K16 DC	20	20	125	10,0	G1/8"	M6	3,2	VC.. 1604	12000
SVVC N 2525 M16 DC	25	25	150	12,5	G1/8"	M6	3,2	VC.. 1604	12500
SVVC N 3225 P16 DC	32	25	170	12,5	G1/8"	G1/8"	3,2	VC.. 1604	03200

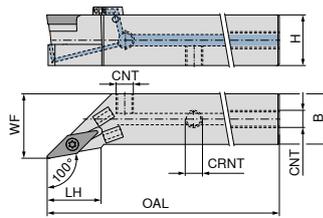
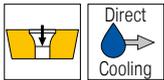
**Spare parts for Article no.**

Article no.	Clamping screw	Solid Carbide Seat V	Grubscrew	Grubscrew	Threaded sleeve
70 781 01200	857			86700	
70 781 01600	857		88000	86700	
70 781 02000	857		88000	86700	
70 781 02500	857		88000	86700	
70 781 12000	87900	107	88000	86700	171
70 781 12500	87900	107	88000	86700	171
70 781 03200	87900	107	88000		171

**Spare parts for Article no.**

Article no.	Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
70 781 01200		039			
70 781 01600	87600	039	88100	87700	294
70 781 02000	87600	039	88100	87800	294
70 781 02500	87600	039	88100	87700	294
70 781 12000	87600	120	88100	87800	294
70 781 12500	87600	120	88100	87800	294
70 781 03200	87600	120	88100	87700	294

# MaxiLock-S – SVZC 100° DC – Tool holder with screw clamping



Illustrations show right-hand versions



<b>NEW</b>	<b>NEW</b>
Left-hand	Right-hand
<b>70 783 ...</b>	<b>70 783 ...</b>
<b>02501</b>	<b>02500</b>

ISO designation	H mm	B mm	OAL mm	LH mm	WF mm	CNT	CRNT	torque moment Nm	Insert
SVZC R/L 2525 M16 DC	25	25	150	27,3	32	G1/8"	M6	3,2	VC.. 1604

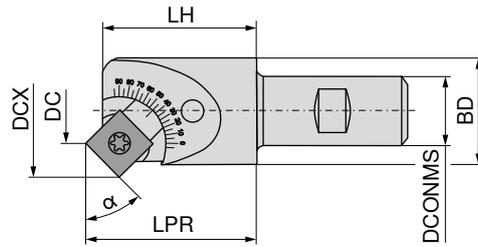
**Spare parts for Article no.**  
70 783 02500 / 70 783 02501

Clamping screw	Solid Carbide Seat V	Grubscrew	Grubscrew	Threaded sleeve
<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>
<b>87900</b>	<b>107</b>	<b>88000</b>	<b>86700</b>	<b>171</b>

**Spare parts for Article no.**  
70 783 02500 / 70 783 02501

Sealing plugs DC	Key D	O-Ring	Coolant nozzle DC	Coolant screw plug
<b>70 950 ...</b>	<b>80 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>	<b>70 950 ...</b>
<b>87600</b>	<b>120</b>	<b>88100</b>	<b>87700</b>	<b>294</b>

## MaxiMill – Adjustable single angle milling cutter C 490-09



50 690 ...

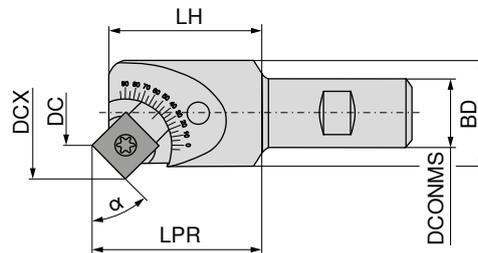
ISO designation	DC mm	DCX mm	ZNF	DCONMS mm	LH mm	torque moment Nm	Insert	
C490.20.R.01	1,6 - 11,1	20,1 - 23,6	1	16	32	3,2	SD.. 09T3..	01600

Spare parts  
DCONMS  
16

70 950 ...	70 950 ...	80 950 ...	80 950 ...	70 950 ...	70 950 ...	80 950 ...	
	87500	87200	036	113	303	110	192

Other items for this system can be found in the main catalogue → chapter 15 from page 77

## MaxiMill – Adjustable single angle milling cutter C 490-12



50 690 ...

ISO designation	DC mm	DCX mm	ZNF	DCONMS mm	LH mm	torque moment Nm	Insert	
C490.26.R.01	1,1 - 14,1	26,6 - 31,5	1	20	37	5	SD.. 1205..	02000

Spare parts  
DCONMS  
20

70 950 ...	70 950 ...	80 950 ...	80 950 ...	70 950 ...	70 950 ...	80 950 ...	
	87400	87300	037	114	303	01200	193

Other items for this system can be found in the main catalogue → chapter 15 from page 77

# Environmentally friendly, sustainable & cost-effective

## Certified recycling of valuable carbide

By deliberately conserving limited primary resources, we aim to significantly increase the proportion of recovered materials using carbide recycling. Our certified recycling process allows us to transform our used carbide products into a reusable powder and, using extremely low amounts of energy, to completely convert the finished product back into its original form.

## Join our sustainable material cycle

As part of our long-term partnership, we hope that we can together complete the cycle from the secondary raw material to a new finished product. Send us your used carbide. We will then process it in the approved manner. The price we offer for the returned carbide is always based on the current market price. Best of all: We take care of the entire process for you and also provide free, quantity-specific collection containers and transport solutions. Do you want to conserve valuable resources and make an important contribution to protecting the environment together with us? If so, our recycling process is just what you need.

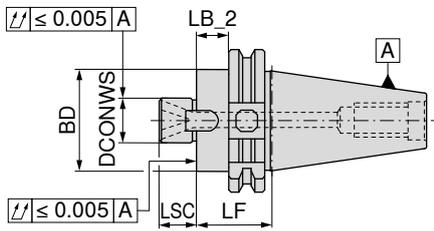


# Shell mill adapter with reduced flange diameter

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

**Scope of supply:**

Base body with retaining screw and drive dog



AD  
G 2,5 n<sub>max</sub> 18000

**82 315 ...**

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	
<b>short</b>	SK 40	22	41	60	38	19	<b>12279</b>
	SK 40	27	25	44	48	21	<b>12779</b>
	SK 50	22	41	60	38	19	<b>12278</b>
	SK 50	27	25	44	48	21	<b>12778</b>



**83 950 ...**



**83 950 ...**



**83 950 ...**

**Spare parts**  
**DCONWS**

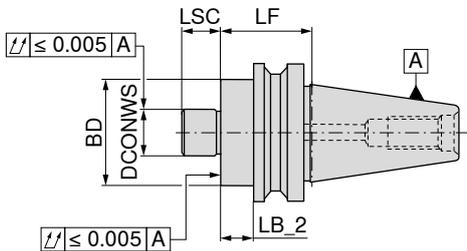
22	M4x8	<b>51700</b>	10x7x20,5	<b>51500</b>	M10x25	<b>124</b>
27	M4x8	<b>51800</b>	12x9x24,3	<b>51600</b>	M12x30	<b>125</b>

# Shell mill adapter with reduced flange diameter

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

**Scope of supply:**

Base body with retaining screw and drive dog



AD  
G 2,5 n<sub>max</sub> 18000

**82 315 ...**

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	
<b>short</b>	BT 40	22	33	60	38	19	<b>12269</b>
	BT 40	27	25	52	48	21	<b>12769</b>
	BT 50	22	22	60	38	19	<b>12268</b>
	BT 50	27	25	63	48	21	<b>12768</b>



**83 950 ...**



**83 950 ...**



**83 950 ...**

**Spare parts**  
**DCONWS**

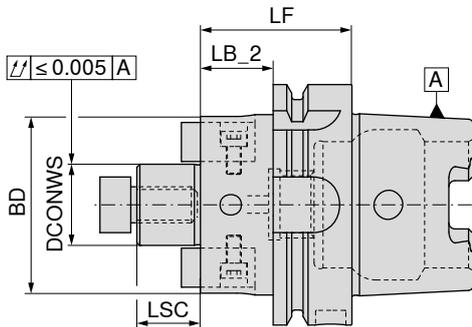
22	M4x8	51700	10x7x20,5	51500	M10x25	124
27	M4x8	51800	12x9x24,3	51600	M12x30	125

# Shell mill adapter with reduced flange diameter

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

**Scope of supply:**

Base body with retaining screw and drive dog



G 2,5 n<sub>max</sub> 25000

**82 315 ...**

	Adapter	DCONWS mm	LB_2 mm	LF mm	BD mm	LSC mm	
<b>short</b>	HSK-A 63	22	34	60	38	19	<b>12257</b>
	HSK-A 63	27	34	60	48	21	<b>12757</b>
	HSK-A 100	22	31	60	38	19	<b>12255</b>
	HSK-A 100	27	31	60	48	21	<b>12755</b>



**83 950 ...**



**83 950 ...**



**83 950 ...**

**Spare parts**  
**DCONWS**

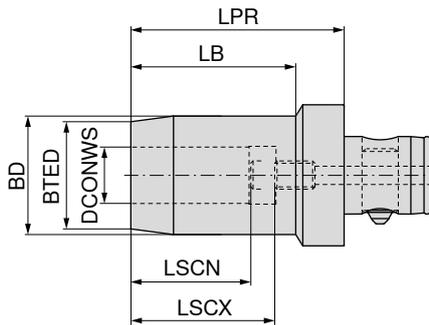
22	M4x8	<b>51700</b>	10x7x20,5	<b>51500</b>	M10x25	<b>124</b>
27	M4x8	<b>51800</b>	12x9x24,3	<b>51600</b>	M12x30	<b>125</b>

# Hydraulic chuck with ABS connection

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

**Scope of supply:**

Base body including backstop screw



**84 253 ...**

Adapter	DCONWS mm	BTED mm	BD mm	LPR mm	LB mm	LSCX mm	LSCN mm	
ABS 40	6	22	26	55	36,5	37	27	00688
ABS 40	8	24	28	60	42,0	37	27	00888
ABS 40	10	26	30	65	47,5	41	31	01088
ABS 40	12	28	32	65	48,0	46	36	01288
ABS 50	6	22	26	55	33,5	37	27	00697
ABS 50	8	24	28	55	34,0	37	27	00897
ABS 50	10	26	30	65	45,0	41	31	01097
ABS 50	12	28	32	65	45,5	46	36	01297
ABS 50	14	30	34	65	46,0	46	36	01497
ABS 50	16	34	38	70	52,0	49	39	01697
ABS 50	18	36	40	70	52,5	49	39	01897
ABS 50	20	38	42	75	58,0	51	41	02097
ABS 63	20	38	42	78	56,0	51	41	02096
ABS 63	25	53	57	85	60,0	57	47	02596
ABS 63	32	60	64	90	61,0	61	51	03296



**83 950 ...**

**Spare parts**

for Article no.

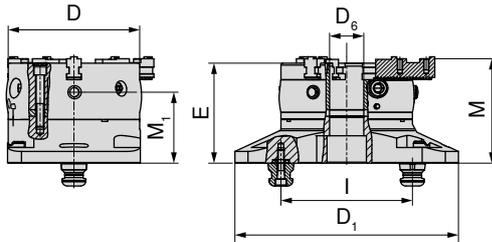
84 253 00688	M5x12,5 - SW2,5	418
84 253 00888	M6x12,5 - SW3	419
84 253 01088	M8x1x13,5 - SW3	420
84 253 01288	M10x1x13,5 - SW5	421
84 253 00697	M5x12,5 - SW2,5	418
84 253 00897	M6x12,5 - SW3	419
84 253 01097	M8x1x13,5 - SW3	420
84 253 01297	M10x1x13,5 - SW5	421
84 253 01497	M10x1x13,5 - SW5	421
84 253 01697	M10x1x13,5 - SW5	421
84 253 01897	M10x1x13,5 - SW5	421
84 253 02097	M16x1x13,5 - SW5	423
84 253 02096	M16x1x13,5 - SW5	423
84 253 02596	M16x1x13,5 - SW5	423
84 253 03296	M16x1x13,5 - SW5	423

## SBF 3-jaw chuck (Ø 200 mm) with console

- ▲ Suitable for 5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems
- ▲ Quick change jaw system with single release of jaws
- ▲ Spindle with hex connection

### Scope of supply:

SBF 3-jaw chuck (Ø 200 mm) incl. console (PNG and MNG-compatible) without clamping bolt  
1 set GBA base jaws  
1 set SB-H stepped jaws  
6 fixing screws and clamping key



NEW

80 913 ...

D	D <sub>1</sub>	D <sub>6</sub>	E	I	M	M <sub>1</sub>	MXC	TQX	DRVS	Stroke / jaw	Tooth pitch	WT
mm	mm	mm	mm	mm	mm	mm	kN	Nm	mm	mm	mm	kg
200	340	52	153,3	200	160,1	108,8	100	120	12	7	4,8	49,5

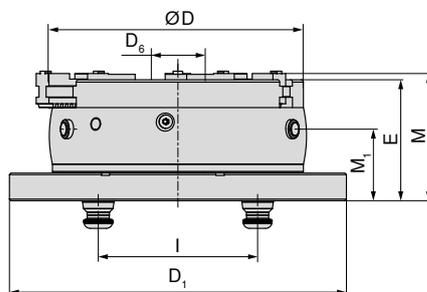
20000

## SBF 3-jaw chuck (Ø 315 mm) with console

- ▲ Suitable for 5-axis machining of round components
- ▲ Compatible with PNG and MNG zero point clamping systems
- ▲ Quick change jaw system with single release of jaws
- ▲ Spindle with hex connection

### Scope of supply:

SBF 3-jaw chuck (Ø 315 mm) incl. console (PNG and MNG-compatible) without clamping bolt  
1 set GBA base jaws  
1 set SB-H stepped jaws  
6 fixing screws and clamping key



NEW

80 913 ...

D	D <sub>1</sub>	D <sub>6</sub>	E	I	M	M <sub>1</sub>	MXC	TQX	DRVS	Stroke / jaw	Tooth pitch	WT
mm	mm	mm	mm	mm	mm	mm	kN	Nm	mm	mm	mm	kg
315	423	92	153	200	160,86	90,5	180	220	16	9,9	7	95

31500

 The chuck is designed exclusively for stationary use – do not use while rotating!

## System jaws overview

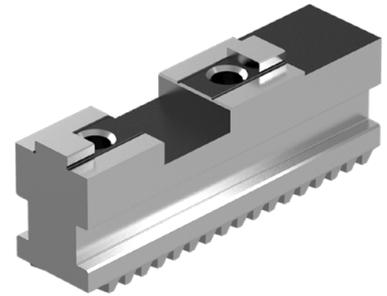
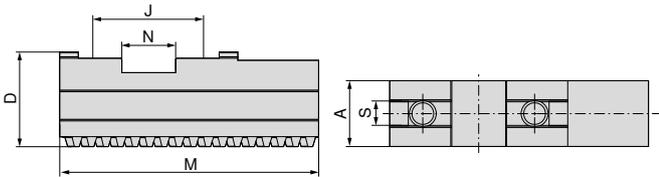
### Base jaws (GBA) – set

- ▲ Base jaws with angled teeth
- ▲ Price per set of 3 pieces

**Scope of supply:**

3 base jaws with angled teeth  
Including cylindrical screws

**SBF  
3**



**NEW**

**80 913 ...**

for	A mm	D mm	J mm	M mm	N mm	S mm	G	WT kg	
SBF-3.200	22	32	40	90	20	10	M8x1	1,2	50300
SBF-3.315	32	43	54	125	26	12	M12x1,5	3,1	60300

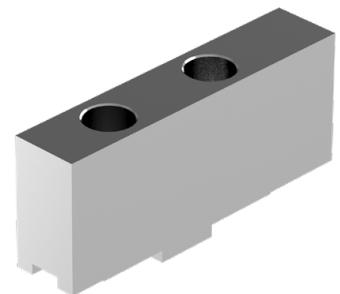
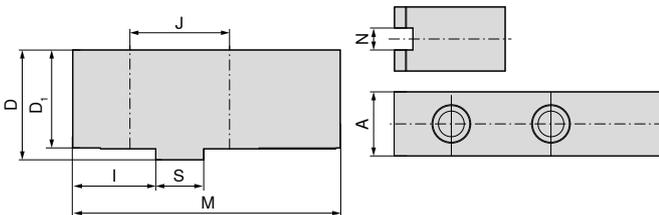
### Soft top jaws (AB-W) – set

- ▲ Price per set of 3 pieces
- ▲ Material: 16MnCr5

**Scope of supply:**

3 soft top jaws

**SBF  
3**



**NEW**

**80 913 ...**

for	A mm	D mm	D <sub>1</sub> mm	I mm	J mm	M mm	N mm	S mm	Hole for	WT kg	
SBF-3.200	22	47	43	35	40	105	10	20	M8	2,0	50400
SBF-3.315	35	60	54	45	54	145	12	26	M12	5,6	60400

## System jaws overview

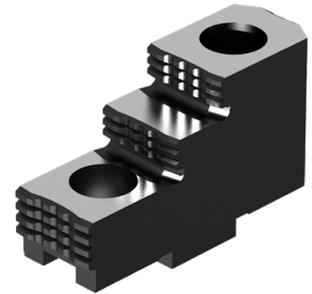
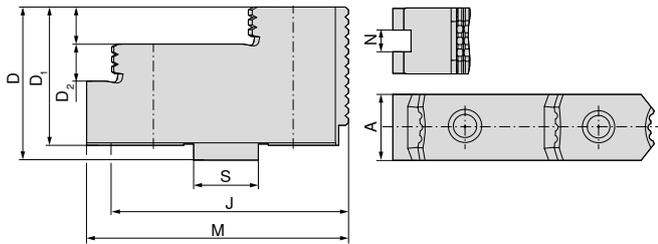
### Hard stepped top jaws (AB-H) – set

▲ Price per set of 3 pieces

**Scope of supply:**

3 hard stepped top jaws

**SBF  
3**



**NEW**

**80 913 ...**

for	A mm	D mm	D <sub>1</sub> mm	D <sub>2</sub> mm	J mm	M mm	N mm	S mm	Hole for	WT kg	
SBF-3.200	22	42	38	10	40	71,7	10	20	M8	2,4	50200
SBF-3.315	36	62	56	15	54	105	12	26	M12	3,3	60200

### Hard stepped top jaws (SB-H) – set

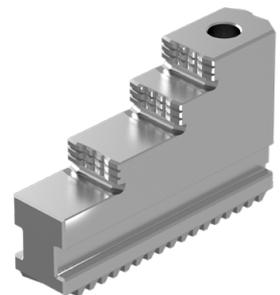
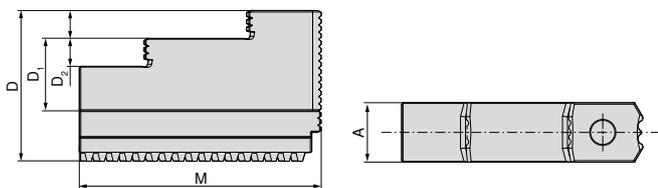
▲ Stepped block jaws with angled teeth

▲ Price per set of 3 pieces

**Scope of supply:**

3 hard stepped block jaws

**SBF  
3**



**NEW**

**80 913 ...**

for	A mm	D mm	D <sub>1</sub> mm	D <sub>2</sub> mm	M mm	WT kg	
SBF-3.200	22	60	35	10	94	1,9	50100
SBF-3.315	32	81	46	15	129	5,5	60100



**The CERATIZIT-WNT Pro Cycling Team**

No other sport reflects the corporate values of CERATIZIT better than cycling. At the same time, it is directly related to the products that we develop, manufacture and sell every day, high-quality precision tools for the machining industry.



[www.ceratizit-wnt-pro-cycling.com](http://www.ceratizit-wnt-pro-cycling.com)

# HIGH QUALITY PERFORMANCE JUST LIKE OUR CUTTING TOOLS



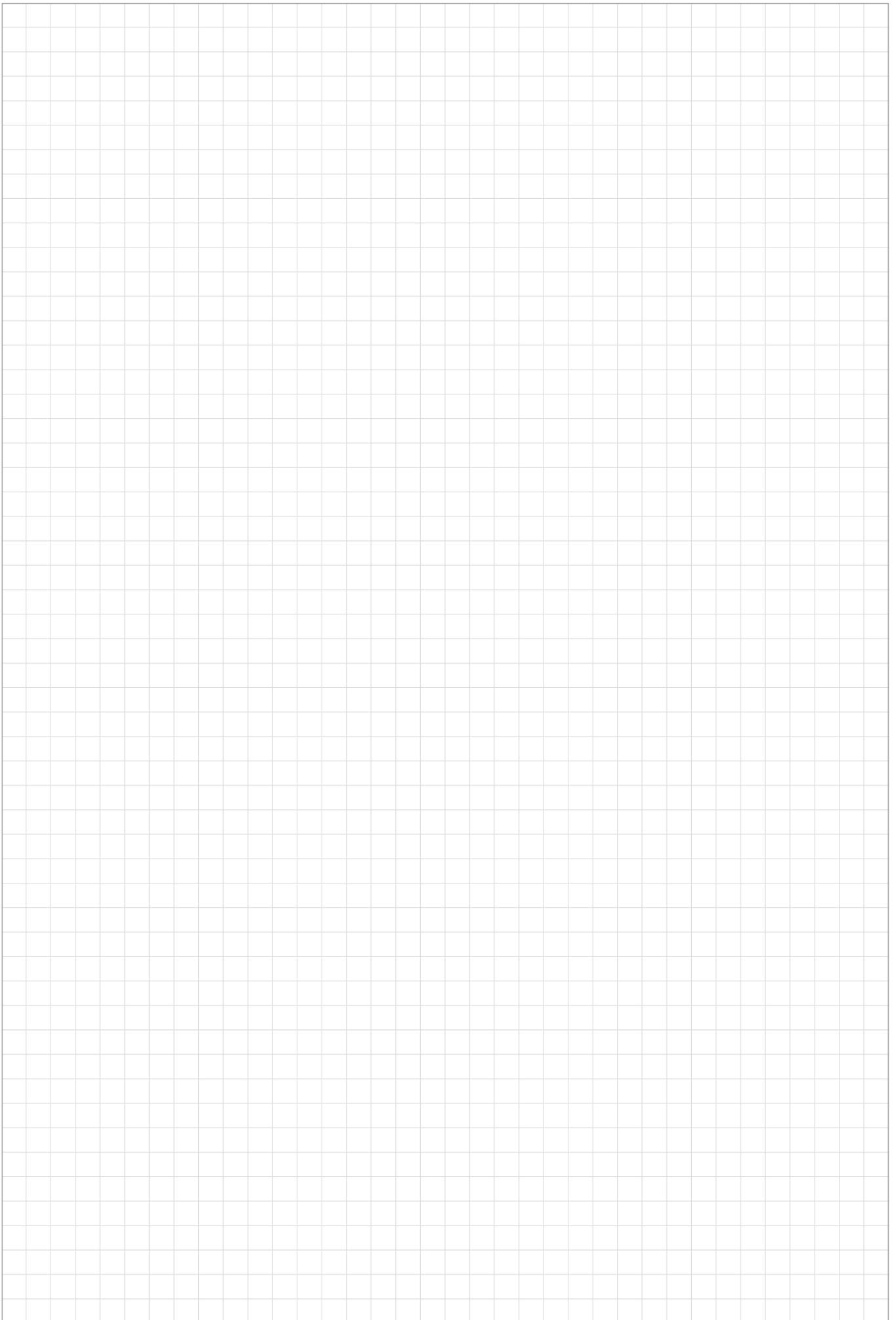
**TEAM CUTTING TOOLS**



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

**Tooling the Future**

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# UNITED. EXPERIENCED. METAL CUTTING.



**SPECIALIST FOR INDEXABLE INSERT TOOLS  
FOR TURNING, MILLING AND GROOVING**

The product brand CERATIZIT stands for high-quality indexable insert tools. The products are characterized by their high quality and contain the DNA of many years of experience in the development and production of carbide tools.



**THE QUALITY LABEL FOR  
EFFICIENT BORE PRODUCTION**

High-precision drilling, reaming, countersinking and boring is a matter of expertise: efficient tooling solutions for drilling and mechatronic tools are therefore part of the KOMET brand name.



**EXPERTS FOR ROTATING TOOLS,  
TOOL HOLDERS AND CLAMPING SOLUTIONS**

WNT is synonymous with product diversity: solid carbide and HSS rotating tools, tool holders and efficient workholding solutions are all part of this brand.



**CUTTING TOOLS  
FOR THE AEROSPACE INDUSTRY**

Solid carbide drills specially developed for the aerospace industry bear the product name KLENK. The highly specialised products are specifically designed for machining lightweight materials.