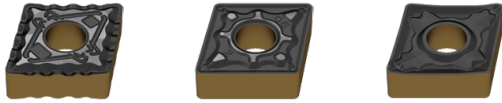


New products for machining technicians

NEW

Steel machining with the new ISO-P grades



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

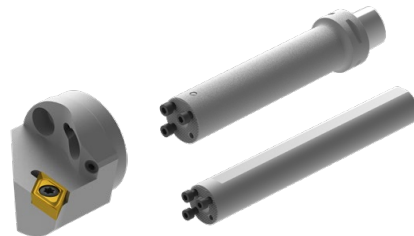
-M23 chip breaker



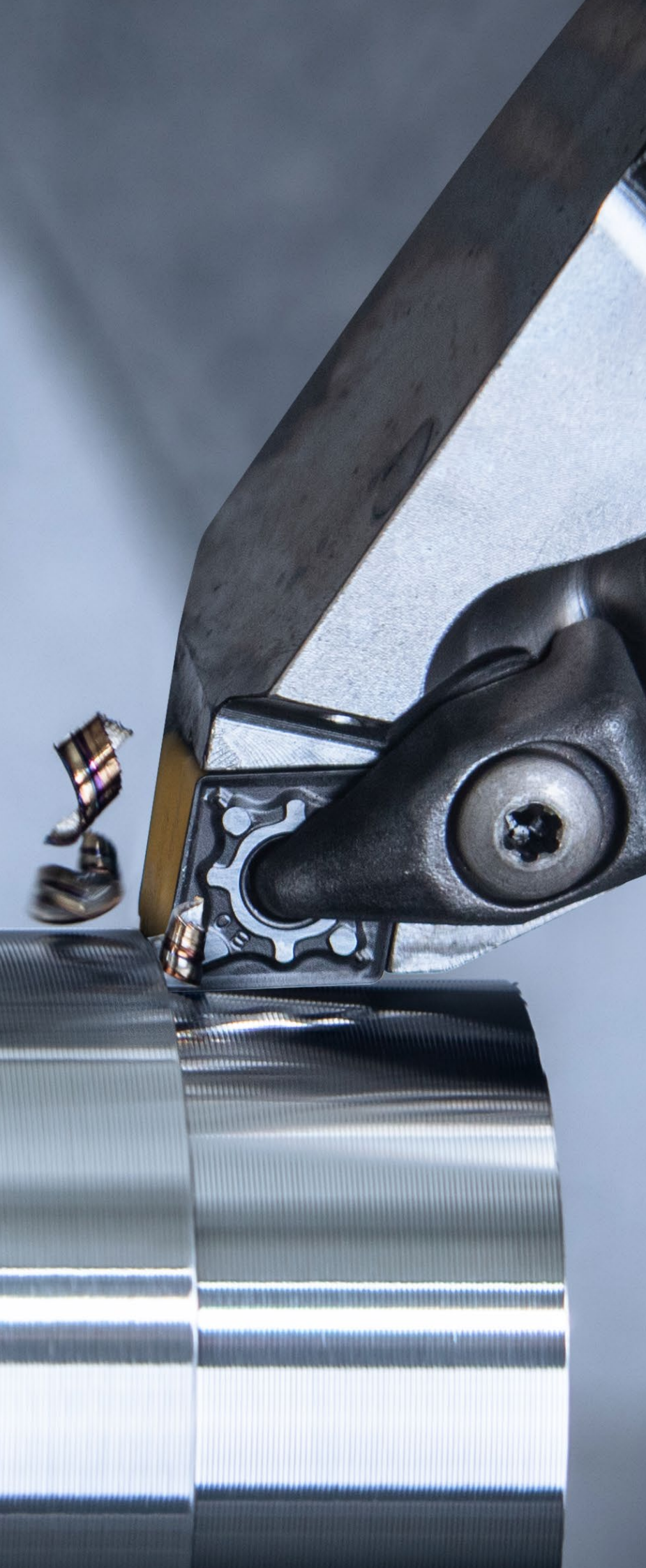
Soft cutting geometry with excellent Chip breaking behavior at low cutting depths for steel machining. Available for positive round inserts in the ISO-P carbide grades.

NEW

MaxiChange – Exchangeable head system



The new actively vibration-dampened basic holder for demanding internal turning operations. Available with the Machine interface PSC, HSK-T and cylindrical shank.



Solid drilling and bore machining	Metric Catalog	HSS drilling	1
	Metric Catalog	Solid carbide drilling	2
		Indexable drilling	3
		Reaming and Countersinking	4
		Indexable Boring	5
Threading	Metric Catalog	Taps and thread formers	6
	Metric Catalog	Circular and Thread Milling	7
	Metric Catalog	Thread turning	8
Turning		Indexable Turning	9
		Multifunction	10
		Parting and Grooving	11
	Metric Catalog	Miniature turning tools	12
Milling	Metric Catalog	HSS Milling Cutters	13
		Solid Milling	14
		Indexable Milling	15
Clamping technology		Adaptors and Accessories	16
	Metric Catalog	Workpiece clamping	17
		Material examples and article no. Index	18

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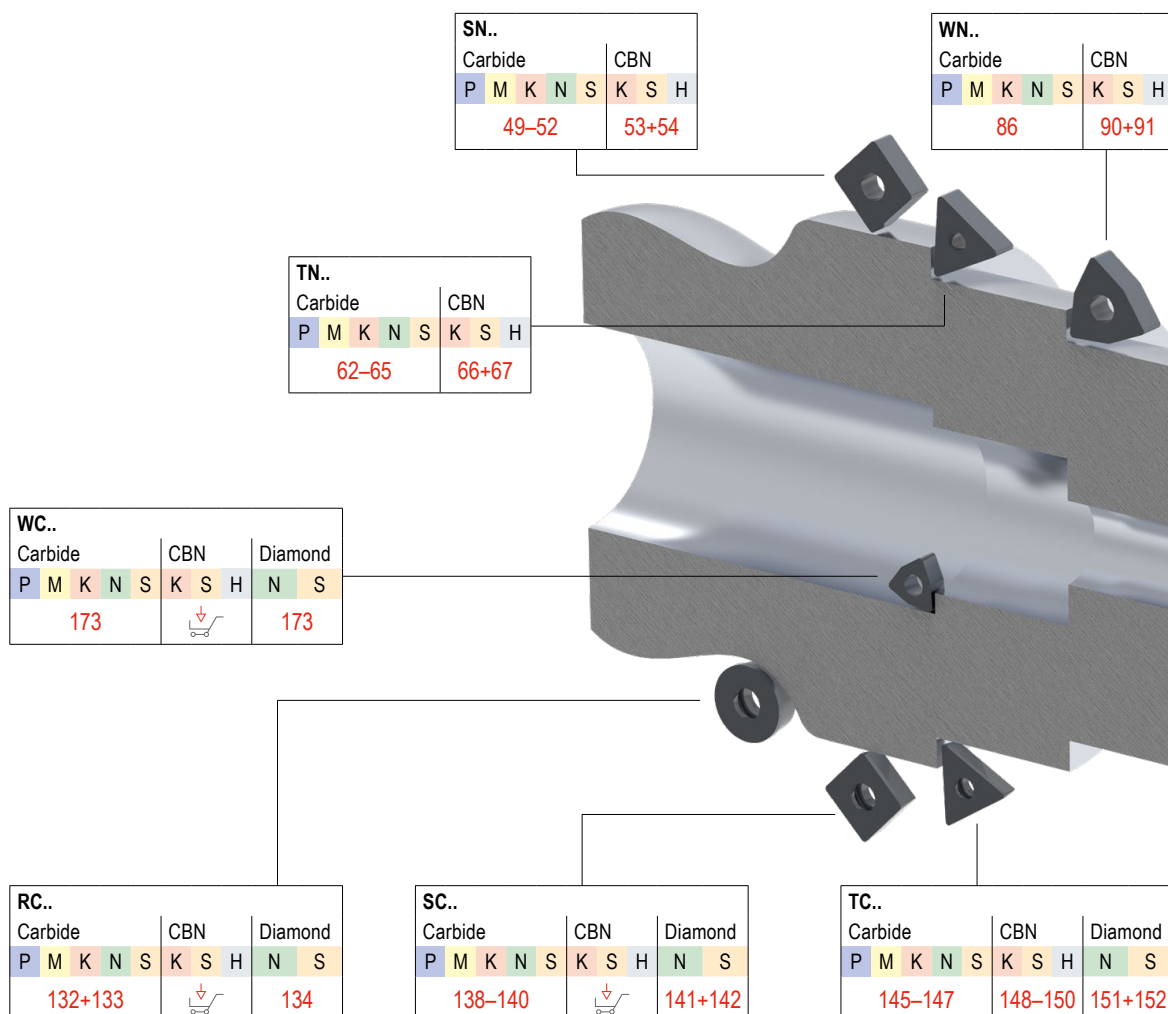
Symbol explanation	5
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CERATIZIT \ Performance

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.

Toolfinder – Application



Symbol explanation

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

A detailed overview of grades can be found in the technical appendix on → **page 232**



Hard turning with PCBN indexable inserts



cts.ceratizit.com/en/us/pcbn-indexable-inserts



The tool selection for Sliding head machines



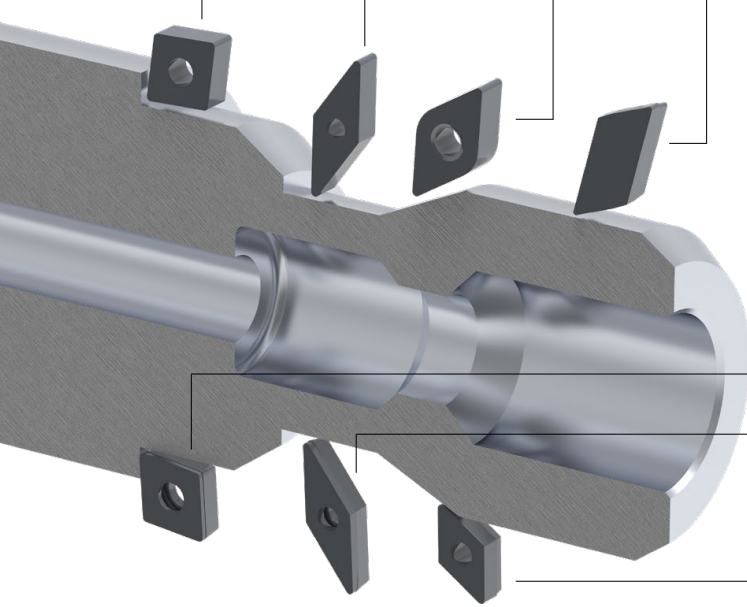
cts.ceratizit.com/en/us/sliding-head-turning

CN..									
Carbide			CBN			Diamond			
P	M	K	N	S	K	S	H	N	S
11-16			17+18			19			

DN..									
Carbide			CBN			Diamond			
P	M	K	N	S	K	S	H	N	S
31-34			35+36			37			

VN..							
Carbide			CBN				
P	M	K	N	S	K	S	H
77+78			79+80				

KN..				
Carbide				
P	M	K	N	S



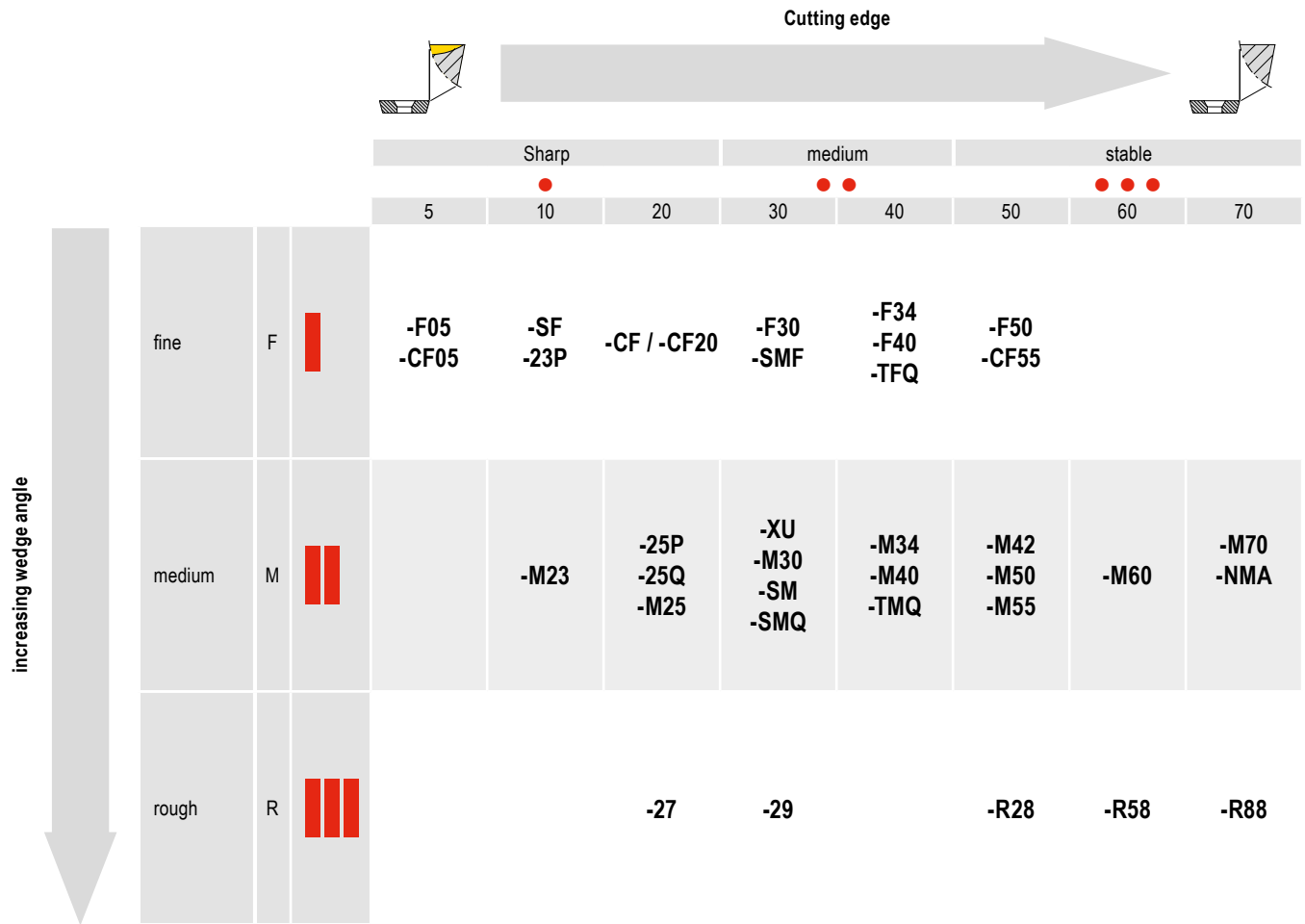
CC..									
Carbide			CBN			Diamond			
P	M	K	N	S	K	S	H	N	S
96-99			100-102			103-107			

VC..									
Carbide			CBN			Diamond			
P	M	K	N	S	K	S	H	N	S
156-159			160-162			163-165			

DC..									
Carbide			CBN			Diamond			
P	M	K	N	S	K	S	H	N	S
113-117			118-120			121-125			

This article can be found in our online shop at cuttingtools.ceratizit.com

Chip Breakers Overview



Grade description

CT CERATIZIT

C **T** **C** **P** **1** **2** **5** **-P** (Example)

CT CERATIZIT

-P Performance

Main application – material

P Steel
M Stainless steel
K Cast iron
N Non-ferrous metals
S Heat-resistant
H Tempered steel
O Non-metal materials
X Universal application

Application

1	Turning
2	Milling
3	Grooving
4	Drilling
5	Thread turning
6	Others
7	Several processes

Degree of hardness

05	ISO 05
10	ISO 10
15	ISO 15
20	ISO 20
25	ISO 25
30	ISO 30
35	ISO 35
40	ISO 40

Coating

W Uncoated carbide	S Mixed ceramic
C CVD-coated carbide	K Whisker ceramic
P PVD-coated carbide	I SiAlON
T Cermet, uncoated	D PDC
E Cermet, coated	B PcBN
N Silicon nitride, uncoated	H HSS sintered
M Silicon nitride, coated	

Toolfinder – negative inserts



			Steel	Stainless steel	Cast iron	Non-ferrous metals	Heat-resistant	Tempered steel	Non-metal materials	Geometry							
			P	M	K	N	S	H	O								
Main application: Steel and cast iron	Fine	-CF / -CF20		●	○	○				11	31			62		86	
		-F40		●	○										77		
		-F50		●	○						11	31		49	62	77	86
		-TFQ		●	○	○					11+12	31+32					86
	Medium	-XU		●	○						12	32				77	87
		-M40		●	○										77		
		-M50		●	○	○					12+13	32		49	62	77	87
		-TMQ		●	○						13	32					87
	Rough	-M70 -11, -12		●	○	○					13+14	33		50+51	63		87
		.NMA		●	○						14	33		50+51	63		88
		-R28		●	○	○					14	33		51	63		
		-R58		●	○	○					14+15	33+34		51	63+64		
		-R88		●	○					15			51				
Main application: Stainless	Fine	-F30		○	●		○			15	34		52	64	77	88	
		-M30		○	●		○			15	34		52	64	78	88	
		-42		○	●		○			16							
	Medium	-M42		○	●		●			16	34		52	65		88	
		-M60		○	●		○			16	34		52	64		88	
		-M70		○	●		○			13+14	33		52	65		89	
		Main application: Heat-resistant	Fine	-F32		●		○	●								
-F34				○	●		○	●		16						89	
Medium	-M34			●	●		○	●		16	34		52	64	78	89	
	-M42			○	●		○	●		16							
	-M52			●		○	●										
Main application: Non-ferrous metals	Diamond	FN , FL, FR				●		●		19	37						

This article can be found in our online shop at cuttingtools.ceratizit.com

Toolfinder – positive inserts



			Steel	Stainless steel	Cast iron	Non-ferrous metals	Heat-resistant	Tempered steel	Non-metal materials	Geometry									
			P	M	K	N	S	H	O	CC..	DC..	RC..	SC..	SP..	TC..	TP..	VC..	WC..	
Main application: Steel and cast iron	Sharp	Fine		●	○	○				96	113		138		145		156		
		-SF		●	○	○				96-98	113-115		138		145		156+157	173	
		-CF55		●	○	○				96	113		138		145		156		
		-M23		●	○							133							
	stable	Medium	-SMF		●	○	○				96+97	113+114	132	138		145		156+157	
		-SM		●	○	●				97+98	122+123	132+133	139		146		157		
		-SMQ		●	○					97+98	115								
		-EN, -EL, -ER		●	○	●													
Main application: Stainless	Sharp	Fine	-F43		○	●		○		98	115				146				
		-M81		○	●		○												
	stable	Medium	-M25		○	●		●		98	115		139		146		157		
		-M55		○	●		●			98	115		139		146+147		157+158		
Main application: Non-ferrous metals	Sharp	Fine	-23P			○	●		○	98	116								
		-25P		●	●	○	●	●	○	98	116	133	140				158		
		-25Q		●	●	○	●	●	○	99	116						158		
		-27		●	●	○	●	●	○	99	116	133	140		147		159		
		-29				○	●		○	99	117						159		
	stable	Diamond	-FN, -FL, -FR				●		●	103-107	121-124	134	141+142		151+152		163	173	
		CB1				●		●	104+107	122-125	134	141		151		164+165			
		CB2				●		●	104+107	122-125 124+125	134	142		152		164+165			
	CB3				●		●	106	124+125		142		152		165				
Main application: Heat-resistant	Sharp	Fine	-F05		●	●	●	●		99	117						159		
		-F23			●	○	○	●											

This article can be found in our online shop at cuttingtools.ceratizit.com

Toolfinder – holders

Toolholders and boring bars for negative inserts



Geometry	Tool holder	Boring bars	HSK-T	PSC
CN..	20–25	28+29	26	27
DN..	38–40	47+48	41–43	43–46
SN..	55–60	61	60	
TN..	68–74	61		
VN..	81+82	85	81	83+84
WN..	92+93	95	93	94

Toolholders and boring bars for positive inserts



Geometry	Tool holder	Boring bars	HSK-T	PSC
CC..	108	108	108+109	109+110
DC..	126	130	127	128+129
RC..	135+136		136+137	
SC..	143	144		
TC..	153+154	155		
VC..	166+167	171+172	167–169	169+170



Additional metric items are available in our Online-Shop at cuttingtools.ceratizit.com and in the metric main catalog.







MaxiChange – Overview of the product range

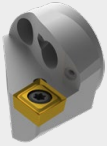





Exchangeable heads

Turning Tools

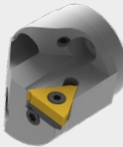
For negative inserts

PCLN 95°  183	PDUN 93°  183	PDQN 107,5°  184	PWLN 95°  184
--	--	---	--

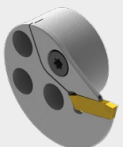
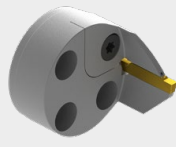
For positive inserts

SCLC 95°  185	SDUC 93°  185	SDQC 107,5°  186
NEW SVPC 117,5°  186	NEW SVUC 93°  187	NEW SVQC 107,5°  187

For internal thread

 188
--

Grooving Tools

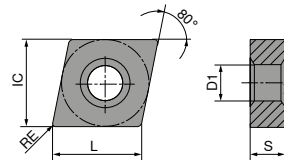
<p>For radial grooving</p> <p>NEW</p> <p>GX 16</p>  <p>→ Chapter 11</p>	<p>For axial grooving</p> <p>NEW</p> <p>GX 24</p>  <p>→ Chapter 11</p>
--	---

Tool holder

	PSC	174
	Vibration damped	175
	Actively vibration-damped	176
	HSK-T	177
	Vibration damped	
	Actively vibration-damped	
	Cylindrical shank	179
	Actively vibration-damped	180
	Square shank holder 0°	181
	Square shank holder 90°	182

CNMG / CNMA / CNMM

Designation	L inch	S inch	D1 inch	IC inch
CNMG 32..	0.3819	0.1252	0.1500	0.3748
CNM. 43..	0.5079	0.1874	0.2032	0.5000
CNM. 54..	0.6339	0.250	0.2500	0.6248
CNM. 64..	0.7598	0.250	0.3126	0.7500
CNMM 86..	1.0158	0.3748	0.3591	1.0000



CNMG

					NEW		NEW		NEW		NEW		
		-CF TCM10	-CF20 CTEP110	-TFQ CTEP110	-F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P	-F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P	-TFQ CTCP115-P	-TFQ CTCP115-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		F		F		F		F		F		F	
		CERMET CNMG		CERMET CNMG		CNMG		CNMG		CNMG		CNMG	
		70 101 ...		76 101 ...		76 110 ...		76 132 ...		76 132 ...		76 110 ...	
ANSI	RE inch												
321EN	0.0157					31601		51601		71601			
322EN	0.0315					31801		51801		71801			
431EN	0.0157	904		028		32801		52801		72801		32801	
432EN	0.0315	908		030		33001		53001		73001		33001	
433EN	0.0472			032		33201		53201		73201		32001	
P		●		●		●		●		●		●	
M		○		○		○		○		○		○	
K		○		○		○		○		○		○	
N													
S													
H													
O													

9

CNMG

		NEW			NEW		NEW		NEW		NEW	
		-TFQ CTCP125-P	-XU CTCP115-P	-XU CTCP125-P	-M50 CTCK110	-M50 CTCK120	-M50 CTCP115-P	-M50 CTCP125-P				
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN				
		F CNMG	M CNMG	M CNMG	M CNMG	M CNMG	M CNMG	M CNMG				
		76 110 ...	76 290 ...	76 290 ...	70 132 ...	70 132 ...	76 135 ...	76 135 ...				
ANSI	RE inch											
431EN	0.0157	52801	32801	52801	028		32801	52801				
432EN	0.0315	53001	33001	53001	030	530	33001	53001				
433EN	0.0472	53201	33201	53201	032	532	32001	53201				
434EN	0.0630						33401	53401				
542EN	0.0315						34201	54201				
543EN	0.0472						34401	54401				
544EN	0.0630						34601	54601				
P		●	●	●	○	○	●	●				
M												
K		○	○	○	●	●	○	○				
N												
S												
H												
O												

CNMG

		NEW	NEW	NEW		NEW	NEW	
		-M50 CTCP135-P	-TMQ CTCP115-P	-TMQ CTCP125-P	-M70 CTCK110	-M70 CTCK120	-M70 CTCP115-P	-M70 CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M CNMG	M CNMG	M CNMG	M CNMG	M CNMG	M CNMG	M CNMG
		76 135 ...	76 196 ...	76 196 ...	70 119 ...	70 119 ...	76 119 ...	76 119 ...
ANSI	RE inch							
431EN	0.0157	72801						
432EN	0.0315	73001	33001	53001	030	530	33001	53001
433EN	0.0472	73201	32001	53201	032	532	32001	53201
434EN	0.0630	73401			034	534	33401	53401
542EN	0.0315	74201			042	542	34201	54201
543EN	0.0472	74401			044	544	34401	54401
544EN	0.0630	74601			046	546	34601	54601
546EN	0.0945						34801	54801
642EN	0.0315						35401	55401
643EN	0.0472				056	556	35601	55601
644EN	0.0630				058	558	35801	55801
646EN	0.0945						36001	56001
P		●	●	●	○	○	●	●
M		○						
K			○	○	●	●	○	○
N								
S								
H								
O								

CNMG / CNMA / CNMM

		NEW				NEW		NEW		NEW	
		-M70	CTCK110	CTCK120	-R28	-R28	-R28	-R58			
		CTCP135-P	CTCP115-P	CTCP125-P	CTCP135-P	CTCP115-P	CTCP135-P	CTCP115-P			
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN			
		M	R	R	R	R	R	R			
		CNMG	CNMA	CNMA	CNMM	CNMM	CNMM	CNMM			
		76 119 ...	70 100 ...	70 100 ...	76 114 ...	76 114 ...	76 114 ...	76 115 ...			
ANSI	RE inch										
431EN	0.0157										
432EN	0.0315	73001	028	528	33001	53001		33001			
433EN	0.0472	73201	030	530	33201	53201	73201	33201			
434EN	0.0630	73401	032	532	33401	53401	73401	33401			
			034	534							
542EN	0.0315	74201	042	542							
543EN	0.0472	74401	044	544	34401	54401	74401	34401			
544EN	0.0630	74601	046	546	34601	54601	74601	34601			
546EN	0.0945	74801						34801			
642EN	0.0315	75401									
643EN	0.0472	75601	056	556	35601	55601	75601	35601			
644EN	0.0630	75801	058	558	35801	55801	75801	35801			
646EN	0.0945	76001			36001	56001	76001	36001			
866EN	0.0945				38401	58401	78401	38401			
P		●	○	○	●	●	●	●			
M		○					○				
K			●	●	○	○		○			
N											
S											
H											
O											

CNMM

		NEW -R58 CTCP125-P	NEW -R58 CTCP135-P	NEW -R88 CTCP115-P	NEW -R88 CTCP125-P	NEW -R88 CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		R CNMM	R CNMM	R CNMM	R CNMM	R CNMM
		76 115 ...	76 115 ...	76 133 ...	76 133 ...	76 133 ...
ANSI	RE inch	53001	73001			
432EN	0.0315	53201	73201			
433EN	0.0472	53401	73401			
434EN	0.0630					
543EN	0.0472	54401	74401			
544EN	0.0630	54601	74601			
546EN	0.0945	54801	74801			
546SN	0.0945			34801	54801	74801
643EN	0.0472	55601	75601			
644EN	0.0630	55801	75801			
644SN	0.0630			35801	55801	75801
646EN	0.0945	52401	76001			
646SN	0.0945			36001	56001	76001
866EN	0.0945	58401	78401			
866SN	0.0945			38401	58401	78401
P		●	●	●	●	●
M			○			○
K		○	○	○	○	○
N						
S						
H						
O						

9

CNMG

		-F30 CTCM120	-F30 CTPM125	-F30 CTCM130	-M30 CTCM120	-M30 CTPM125	-M30 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F CNMG	F CNMG	F CNMG	M CNMG	M CNMG	M CNMG
		75 010 ...	75 010 ...	75 010 ...	75 011 ...	75 011 ...	75 011 ...
ANSI	RE inch	12800	280	32800	13000	230	33000
431EN	0.0157	13000	230	33000	13200	232	33200
432EN	0.0315				13400	234	33400
433EN	0.0472						
434EN	0.0630						
P		○	○	○	○	○	○
M		●	●	●	●	●	●
K							
N							
S				○			○
H							
O							

CNMG

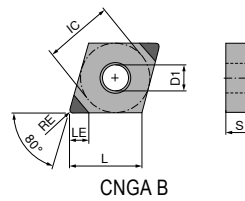
		NEW	NEW				NEW
		-42 CTCM130	-M42 CTCM130	-M60 CTCM120	-M60 CTPM125	-M60 CTCM130	-M70 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M CNMG	M CNMG	M CNMG	M CNMG	M CNMG	M CNMG
		75 030 ...	75 029 ...	75 012 ...	75 012 ...	75 012 ...	75 037 ...
ANSI	RE inch						
431EN	0.0157		32800				
432EN	0.0315	33000	33000	13000	230	33000	33000
433EN	0.0472		33200	13200	232	33200	33200
434EN	0.0630			13400	234	33400	
543EN	0.0472			14400	24400	34400	34400
643EN	0.0472						35600
644EN	0.0630						35800
P		○	○	○	○	○	○
M		●	●	●	●	●	●
K							
N							
S		○	○			○	○
H							
O							

CNMG

		NEW	NEW	NEW		NEW
		-42 CTCM130	-M70 CTCM130	-F34 CTPX710	-M34 CTPX710	-M42 CTPX710
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M CNMG	M CNMG	F CNMG	M CNMG	M CNMG
		75 030 ...	75 037 ...	75 299 ...	75 003 ...	75 007 ...
ANSI	RE inch					
431EN	0.0157				62800	
432EN	0.0315	33000	33000	63000	63000	63000
433EN	0.0472		33200	63200	63200	63200
434EN	0.0630				63400	
543EN	0.0472		34400			
643EN	0.0472		35600			
644EN	0.0630		35800			
P		○	○	●	●	●
M		●	●	●	●	●
K						
N				○	○	○
S		○	○	●	●	●
H						
O						

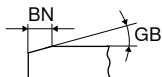
CNGA

Designation	L inch	S inch	D1 inch	IC inch
CNGA 431E..	0.5079	0.1874	0.202	0.500
CNGA 431S..	0.5079	0.1874	0.202	0.500
CNGA 432E..	0.5079	0.1874	0.202	0.500
CNGA 432S..	0.5079	0.1874	0.202	0.500
CNGA 433E..	0.5079	0.1874	0.202	0.500
CNGA 433S..	0.5079	0.1874	0.202	0.500



CNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN CNGA	PCBN CNGA	PCBN CNGA
71 003 ...	71 003 ...	71 003 ...
70002	80002	90002
70302	80302	90302
70602	80602	90602

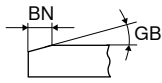
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
431EN	0.0157			B (2)	0.1299
431SN	0.0157	0.0055	20°	B (2)	0.1299
432EN	0.0315			B (2)	0.1299
432SN	0.0315	0.0055	20°	B (2)	0.1299
433EN	0.0472			B (2)	0.1220
433SN	0.0472	0.0055	20°	B (2)	0.1220

P
M
K
N
S
H
O

9

CNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



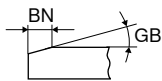
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN CNGA	PCBN CNGA	PCBN CNGA
71 003 ...	71 003 ...	71 003 ...
70102	80102	90102
70402	80402	90402
70702	80702	90702

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
431SN	0.0157	0.0035	15°	B (2)	0.1299
431SN	0.0157	0.0071	25°	B (2)	0.1299
432SN	0.0315	0.0035	15°	B (2)	0.1299
432SN	0.0315	0.0071	25°	B (2)	0.1299
433SN	0.0472	0.0035	15°	B (2)	0.1220
433SN	0.0472	0.0071	25°	B (2)	0.1220

P
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CNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



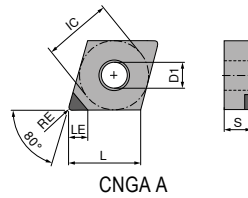
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN CNGA	PCBN CNGA	PCBN CNGA
71 003 ...	71 003 ...	71 003 ...
70202	80202	90202
70502	80502	90502
70802	80802	90802

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
431SN	0.0157	0.0055	20°	B (2)	0.1299
431SN	0.0157	0.0079	35°	B (2)	0.1299
432SN	0.0315	0.0055	20°	B (2)	0.1299
432SN	0.0315	0.0079	35°	B (2)	0.1299
433SN	0.0472	0.0055	20°	B (2)	0.1220
433SN	0.0472	0.0079	35°	B (2)	0.1220

P
M
K
N
S
H
O

CNGA

Designation	L inch	S inch	D1 inch	IC inch
CNGA 43..	0.5079	0.1874	0.202	0.500



CNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch
431FN	0.0157	A (1)	0.2480
432FN	0.0315	A (1)	0.2362
433FN	0.0472	A (1)	0.2244

CTDPD20	CTDPS30
F	F
DIAMOND CNGA	DIAMOND CNGA
71 127 ...	71 127 ...
10001	20001
10101	20101
10201	20201

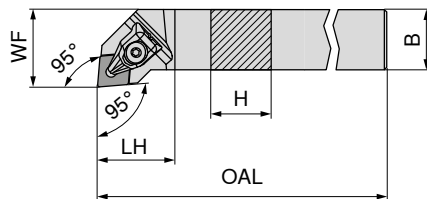
P		
M		
K		
N	•	•
S		
H		
O	•	•

MaxiLock-D – DCLN 95° – Toolholder with top clamping

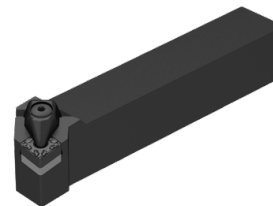
▲ ...A-N = with thru coolant
▲ ...N = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand		Right-hand	
							78 501 ...	78 500 ...	78 501 ...	78 500 ...
DCLN R/L 12-4BA-N	0.750	0.750	4.500	1.250	1.000	CN..43..	01294		01294	
DCLN R/L 12-4B-N	0.750	0.750	4.500	1.250	1.000	CN..43..	01293		01293	
DCLN R/L 16-4D-N	1.000	1.000	6.000	1.250	1.250	CN..43..	01689		01689	
DCLN R/L 16-4DA-N	1.000	1.000	6.000	1.250	1.250	CN..43..	01690		01690	
DCLN R/L 20-4D-N	1.250	1.250	6.000	1.250	1.500	CN..43..	02089		02089	
DCLN R/L 20-4DA-N	1.250	1.250	6.000	1.250	1.500	CN..43..	02090		02090	
DCLN R/L 20-5D-N	1.250	1.250	6.000	1.380	1.500	CN..54..	02084		02084	
DCLN L 20-5DA-N	1.250	1.250	6.000	1.380	1.500	CN..54..	02085 ¹⁾		02085 ¹⁾	
DCLN R/L 24-5E-N	1.500	1.500	7.000	1.380	2.000	CN..54..	02482 ¹⁾		02482 ¹⁾	
DCLN R/L 24-5EA-N	1.500	1.500	7.000	1.380	2.000	CN..54..	02483 ¹⁾		02483 ¹⁾	
DCLN L 20-6D-N	1.250	1.250	6.000	1.650	1.500	CN..64..	02080		02080	
DCLN R/L 20-6DA-N	1.250	1.250	6.000	1.650	1.500	CN..64..	02081 ¹⁾		02081 ¹⁾	
DCLN R/L 24-6E-N	1.500	1.500	7.000	1.650	2.000	CN..64..	02477 ¹⁾		02477 ¹⁾	
DCLN R/L 24-6EA-N	1.500	1.500	7.000	1.650	2.000	CN..64..	02478 ¹⁾		02478 ¹⁾	

1) Not in stock

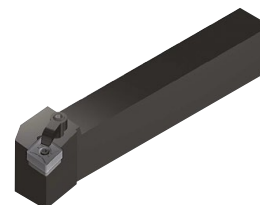
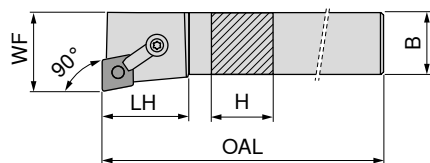


Spare parts for Article no.	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 500 01293 / 78 501 01293	07600	08100	08300			08500 04900
78 500 01689 / 78 501 01689	07600	08100	08300			08500 04900
78 500 01690 / 78 501 01690	07600	08100	08300			08500 04900
78 500 02089 / 78 501 02089	07600	08100	08300			08500 04900
78 500 02090 / 78 501 02090	07600	08100	08300			08500 04900
78 500 02084 / 78 501 02084	07700	08100	08300	04100		08600 04900
78 500 02085 / 78 501 02085	07700	08100	08300	04100		08600 04900
78 500 02482 / 78 501 02482	07700	08100	08300	04100		08600 04900
78 500 02483 / 78 501 02483	07700	08100	08300	04100		08600 04900
78 500 02080 / 78 501 02080	07800	08100	08300	00900		08700 04900
78 500 02081 / 78 501 02081	07800	08100	08300	00900		08700 04900
78 500 02477 / 78 501 02477	07800	08100	08300	00900		08700 04900
78 500 02478 / 78 501 02478	07800	08100	08300	00900		08700 04900

MaxiLock-M – MCFN 90° – Toolholder with top clamping

Scope of supply:






Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 517 ...	78 516 ...
MCFN R/L 12-4B	0.750	0.750	4.500	1.120	1.000	CN..43..	01224 ¹⁾	01224 ¹⁾
MCFN R/L 16-4D	1.000	1.000	6.000	1.120	1.250	CN..43..	01644 ¹⁾	01644 ¹⁾
MCFN R/L 20-4D	1.250	1.250	6.000	1.120	1.500	CN..43..	02044 ¹⁾	02044 ¹⁾
MCFN R/L 85-4D	1.250	1.000	6.000	1.120	1.250	CN..43..	08544 ¹⁾	08544 ¹⁾
MCFN R/L 16-5D	1.000	1.000	6.000	1.250	1.250	CN..54..	01645 ¹⁾	01645 ¹⁾
MCFN R/L 20-5D	1.250	1.250	6.000	1.250	1.500	CN..54..	02045 ¹⁾	02045 ¹⁾
MCFN R/L 24-5D	1.500	1.500	6.000	1.250	2.000	CN..54..	02445 ¹⁾	02445 ¹⁾
MCFN R/L 16-6D	1.000	1.000	6.000	1.310	1.250	CN..64..	01646 ¹⁾	01646 ¹⁾
MCFN R/L 20-6D	1.250	1.250	6.000	1.310	1.500	CN..64..	02046 ¹⁾	02046 ¹⁾
MCFN R/L 24-6D	1.500	1.500	6.000	1.250	2.000	CN..64..	02446 ¹⁾	02446 ¹⁾

1) Not in stock

				
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...

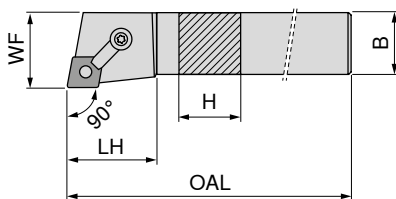
**Spare parts
for Article no.**

Article no.	Clamp	Key I	Dowel pin	Clamping screw	Carbide type C
78 516 01224 / 78 517 01224	00400	06900	03100	03800	00800
78 516 01644 / 78 517 01644	00400	06900	03100	03800	00800
78 516 02044 / 78 517 02044	00400	06900	03100	03800	00800
78 516 08544 / 78 517 08544	00400	06900	03100	03800	00800
78 516 01645 / 78 517 01645	00300	08100	03200	03900	04100
78 516 02045 / 78 517 02045	00300	08100	03200	03900	04100
78 516 02445 / 78 517 02445	00300	08100	03200	03900	04100
78 516 01646 / 78 517 01646	00300	08100	03300	03900	00900
78 516 02046 / 78 517 02046	00300	08100	03300	03900	00900
78 516 02446 / 78 517 02446	00300	08100	03300	03900	00900

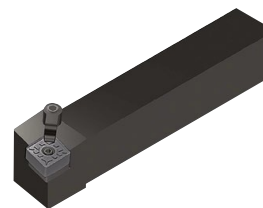
MaxiLock-M – MCGN 90° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 519 ...	78 518 ...
MCGN R/L 12-4B	0.750	0.750	4.500	1.120	1.000	CN..43..	01224 ¹⁾	01224 ¹⁾
MCGN R/L 16-4D	1.000	1.000	6.000	1.120	1.250	CN..43..	01644 ¹⁾	01644 ¹⁾
MCGN R/L 20-4D	1.250	1.250	6.000	1.120	1.500	CN..43..	02044 ¹⁾	02044 ¹⁾
MCGN R/L 24-4D	1.500	1.500	6.000	1.250	2.000	CN..43..	02444 ¹⁾	02444 ¹⁾
MCGN R/L 16-5D	1.000	1.000	6.000	1.500	1.250	CN..54..	01645 ¹⁾	01645 ¹⁾
MCGN R/L 20-5D	1.250	1.250	6.000	1.500	1.500	CN..54..	02045 ¹⁾	02045 ¹⁾
MCGN R/L 24-5D	1.500	1.500	6.000	1.500	2.000	CN..54..	02445 ¹⁾	02445 ¹⁾
MCGN R/L 20-6D	1.250	1.250	6.000	1.650	1.500	CN..64..	02046 ¹⁾	02046 ¹⁾
MCGN R/L 24-6D	1.500	1.500	6.000	1.650	2.000	CN..64..	02446 ¹⁾	02446 ¹⁾

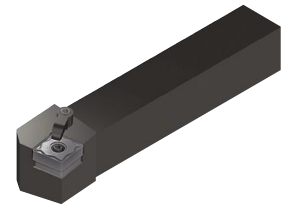
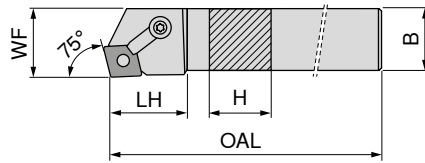
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Carbide type C
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 518 01224 / 78 519 01224	00400	06900	03100	03800	00800
78 518 01644 / 78 519 01644	00400	06900	03100	03800	00800
78 518 02044 / 78 519 02044	00400	06900	03100	03800	00800
78 518 02444 / 78 519 02444	00400	06900	03100	03800	00800
78 518 01645 / 78 519 01645	00300	08100	03200	03900	04100
78 518 02045 / 78 519 02045	00300	08100	03200	03900	04100
78 518 02445 / 78 519 02445	00300	08100	03200	03900	04100
78 518 02046 / 78 519 02046	00300	08100	03300	03900	00900
78 518 02446 / 78 519 02446	00300	08100	03300	03900	00900

MaxiLock-M – MCKN 75° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 521 ...	78 520 ...
MCKN R/L 12-4B	0.750	0.750	4.500	1.200	1.000	CN..43..	01224 ¹⁾	01224 ¹⁾
MCKN R/L 16-4D	1.000	1.000	6.000	1.200	1.250	CN..43..	01644 ¹⁾	01644 ¹⁾
MCKN R/L 20-4D	1.250	1.250	6.000	1.200	1.500	CN..43..	02044 ¹⁾	02044 ¹⁾
MCKN R/L 16-5D	1.000	1.000	6.000	1.350	1.250	CN..54..	01645 ¹⁾	01645 ¹⁾
MCKN R/L 20-5D	1.250	1.250	6.000	1.350	1.500	CN..54..	02045 ¹⁾	02045 ¹⁾
MCKN R/L 16-6D	1.000	1.000	6.000	1.470	1.250	CN..64..	01646 ¹⁾	01646 ¹⁾
MCKN R/L 20-6D	1.250	1.250	6.000	1.470	1.500	CN..64..	02046 ¹⁾	02046 ¹⁾
MCKN R/L 24-6D	1.500	1.500	6.000	1.470	2.000	CN..64..	02446 ¹⁾	02446 ¹⁾

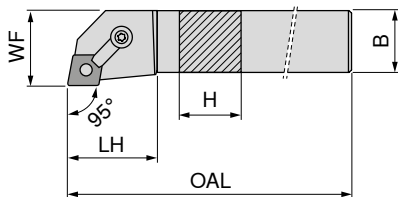
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Carbide type C
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 520 01224 / 78 521 01224	00400	06900	03100	03800	00800
78 520 01644 / 78 521 01644	00400	06900	03100	03800	00800
78 520 02044 / 78 521 02044	00400	06900	03100	03800	00800
78 520 01645 / 78 521 01645	00300	08100	03200	03900	04100
78 520 02045 / 78 521 02045	00300	08100	03200	03900	04100
78 520 01646 / 78 521 01646	00300	08100	03300	03900	00900
78 520 02046 / 78 521 02046	00300	08100	03300	03900	00900
78 520 02446 / 78 521 02446	00300	08100	03300	03900	00900

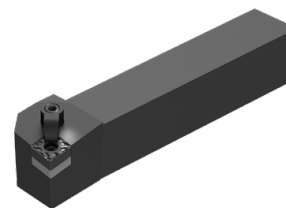
MaxiLock-M – MCLN 95° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key

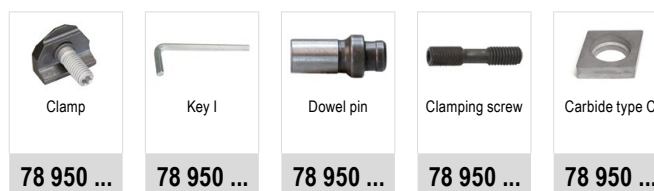


Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 523 ...	78 522 ...
MCLN R/L 12-4B	0.750	0.750	4.500	1.130	1.000	CN..43..	01224 ¹⁾	01224 ¹⁾
MCLN R/L 16-4D	1.000	1.000	6.000	1.130	1.250	CN..43..	01644 ¹⁾	01644 ¹⁾
MCLN R/L 85-4D	1.250	1.000	6.000	1.130	1.250	CN..43..	08544 ¹⁾	08544 ¹⁾
MCLN R/L 20-4D	1.250	1.250	6.000	1.130	1.500	CN..43..	02044 ¹⁾	02044 ¹⁾
MCLN R/L 16-5D	1.000	1.000	6.000	1.470	1.250	CN..54..	01645 ¹⁾	01645 ¹⁾
MCLN R/L 20-5D	1.250	1.250	6.000	1.470	1.500	CN..54..	02045 ¹⁾	02045 ¹⁾
MCLN R/L 24-5D	1.500	1.500	6.000	1.470	2.000	CN..54..	02445 ¹⁾	02445 ¹⁾
MCLN R/L 16-6D	1.000	1.000	6.000	1.510	1.250	CN..64..	01646 ¹⁾	01646 ¹⁾
MCLN R/L 20-6D	1.250	1.250	6.000	1.510	1.500	CN..64..	02046 ¹⁾	02046 ¹⁾
MCLN R/L 85-6D	1.250	1.000	6.000	1.510	1.250	CN..64..	08546 ¹⁾	08546 ¹⁾
MCLN R/L 24-6D	1.500	1.500	6.000	1.510	2.000	CN..64..	02446 ¹⁾	02446 ¹⁾
MCLN R/L 24-6E	1.500	1.500	7.000	1.500	2.000	CN..64..	02456 ¹⁾	02456 ¹⁾
MCLN R/L 86-6E	1.500	1.000	7.000	1.510	1.250	CN..64..	08656 ¹⁾	08656 ¹⁾

1) Not in stock



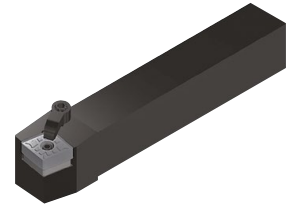
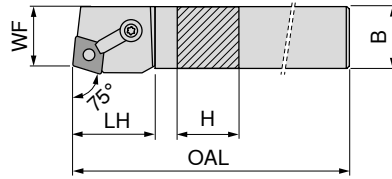
**Spare parts
for Article no.**

	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 522 01224 / 78 523 01224	00400	06900	03100	03800	00800
78 522 01644 / 78 523 01644	00400	06900	03100	03800	00800
78 522 08544 / 78 523 08544	00400	06900	03100	03800	00800
78 522 02044 / 78 523 02044	00400	06900	03100	03800	00800
78 522 01645 / 78 523 01645	00300	08100	03200	03900	04100
78 522 02045 / 78 523 02045	00300	08100	03200	03900	04100
78 522 02445 / 78 523 02445	00300	08100	03200	03900	04100
78 522 01646 / 78 523 01646	00300	08100	03300	03900	00900
78 522 02046 / 78 523 02046	00300	08100	03300	03900	00900
78 522 08546 / 78 523 08546	00300	08100	03300	03900	00900
78 522 02446 / 78 523 02446	00300	08100	03300	03900	00900
78 522 02456 / 78 523 02456	00300	08100	03300	03900	00900
78 522 08656 / 78 523 08656	00300	08100	03300	03900	00900

MaxiLock-M – MCRN 75° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 525 ...	78 524 ...
MCRN R/L 12-4B	0.750	0.750	4.500	1.180	0.878	CN..43..	01224 ¹⁾	01224 ¹⁾
MCRN R/L 16-4D	1.000	1.000	6.000	1.180	1.128	CN..43..	01644 ¹⁾	01644 ¹⁾
MCRN R/L 20-4D	1.250	1.250	6.000	1.180	1.318	CN..43..	02044 ¹⁾	02044 ¹⁾
MCRN R/L 16-5D	1.000	1.000	6.000	1.100	1.101	CN..54..	01645 ¹⁾	01645 ¹⁾
MCRN R/L 20-5D	1.250	1.250	6.000	1.350	1.351	CN..54..	02045 ¹⁾	02045 ¹⁾
MCRN R/L 20-6D	1.250	1.250	6.000	1.318	1.318	CN..64..	02046 ¹⁾	02046 ¹⁾
MCRN R/L 24-6D	1.500	1.500	6.000	1.818	1.818	CN..64..	02446 ¹⁾	02446 ¹⁾

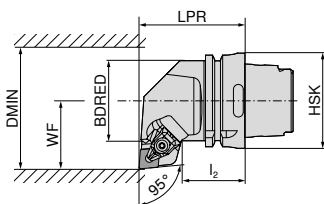
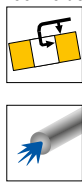
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Carbide type C
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 524 01224 / 78 525 01224	00400	06900	03100	03800	00800
78 524 01644 / 78 525 01644	00400	06900	03100	03800	00800
78 524 02044 / 78 525 02044	00400	06900	03100	03800	00800
78 524 01645 / 78 525 01645	00300	08100	03200	03900	04100
78 524 02045 / 78 525 02045	00300	08100	03200	03900	04100
78 524 02046 / 78 525 02046	00300	08100	03300	03900	00900
78 524 02446 / 78 525 02446	00300	08100	03300	03900	00900

MaxiLock-D – DCLN 95° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Left-hand **74 504 ...** Right-hand **74 503 ...**

Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand 74 504 ...	Right-hand 74 503 ...
HSK T63 DCLN R/L 12	HSK-T 63	70	42	53	45	100	4	CN.. 1204	512	512
HSK T63 DCLN R/L 16	HSK-T 63	70	42	53	45	125	4	CN.. 1606	516	516
HSK T63 DCLN R/L 19	HSK-T 63	70	42	53	45	125	8	CN.. 1906	519	519
HSK T100 DCLN R/L 12	HSK-T 100	80	45	88	55	125	4	CN.. 1204	712	712
HSK T100 DCLN R/L 19	HSK-T 100	80	45	88	55	125	8	CN.. 1906	719	719



XPress type

70 950 ...



Screwdriver

80 950 ...



Clamping screw

70 950 ...



Carbide type C

70 950 ...

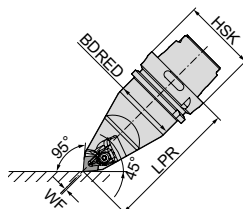
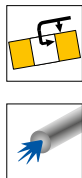
Spare parts

74 504 516 / 74 503 516	825	T20 - IP	129	M5x14 - IP	821	814
74 504 512 / 74 503 712	824	T15 - IP	128	M4.5x12 - IP	820	810
74 504 519 / 74 503 719	826	T20 - IP	129	M5x14 - IP	821	816

MaxiLock-D – DCMN 95° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Neutral **74 506 ...**

Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	Neutral 74 506 ...
HSK T63 DCMN N 12	HSK-T 63	115	53	0	4	CN.. 1204	512
HSK T100 DCMN N 12	HSK-T 100	150	88	0	4	CN.. 1204	712



XPress type

70 950 ...



Screwdriver

80 950 ...



Clamping screw

70 950 ...



Carbide type C

70 950 ...

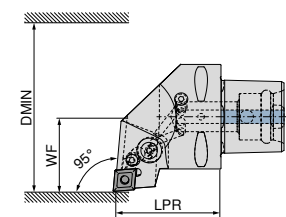
Spare parts

74 506 512 / 74 506 712	824	T15 - IP	128	M4.5x12 - IP	820	810
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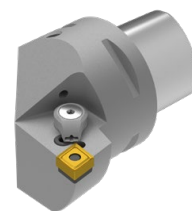
MaxiLock-N – PCLN 95° – Toolholder with lever clamping

Scope of supply:

without high-performance coolant set



Illustrations show right-hand versions



Left-hand **84 657 ...** Right-hand **84 656 ...**

Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible	Left-hand	Right-hand
PSC40 PCLN R/L 50050-12	PSC 40	50	27	50	5	CN.. 1204	DC	01295	01295
PSC50 PCLN R/L 65060-12	PSC 50	60	35	65	5	CN.. 1204	DC	01294	01294
PSC63 PCLN R/L 80065-12	PSC 63	65	45	80	5	CN.. 1204	DC	01293	01293

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**

Shim	Elbow lever screw	Lever	Carbide type C
84 950 ...	84 950 ...	84 950 ...	84 950 ...
29200	M8X1/L17 SW3	28700	29000

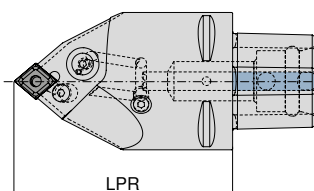
Spare parts

84 656 01293 / 84 657 01295

MaxiLock-N – PCMN 50° – Toolholder with lever clamping

Scope of supply:

without high-performance coolant set



Neutral **84 675 ...**

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible	Neutral
PSC63 PCMN N 0100-12	PSC 63	100	5	CN.. 1204	DC	01293
PSC63 PCMN N 0130-12	PSC 63	130	5	CN.. 1204	DC	11293

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**

Shim	Elbow lever screw	Lever	Carbide type C
84 950 ...	84 950 ...	84 950 ...	84 950 ...
29200	M8X1/L17 SW3	28700	29000

Spare parts

84 675 01293 / 84 675 11293

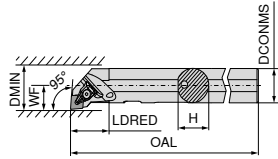
9

MaxiLock-D – DCLN 95° – Boring bar with top clamping

- ▲ A... = with thru coolant
- ▲ S... = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand	Right-hand
								78 701 ...	78 700 ...
S16T DCLN R/L 4N	1.000	0.900	12.000	1.575	0.640	1.280	CN..43..	41626 ¹⁾	41626 ¹⁾
S20U DCLN R/L 4N	1.250	1.180	14.000	1.771	0.765	1.530	CN..43..	42030 ¹⁾	42030 ¹⁾
S24U DCLN R/L 4N	1.500	1.370	14.000	1.968	0.890	1.780	CN..43..	42434 ¹⁾	42434 ¹⁾

1) Not in stock

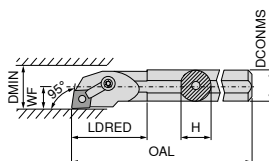
Spare parts for Article no.	Clamping claw	Key I	Clamping screw	Carbide type C	Threaded bush	Spring
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 700 41626 / 78 701 41626	07600	08100	08300	07200	08500	04900
78 700 42030 / 78 701 42030	07600	08100	08300	07200	08500	04900
78 700 42434 / 78 701 42434	07600	08100	08300	07200	08500	04900

MaxiLock-M – MCLN 95° – Boring bar with top clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	DCONMS	H	OAL	LDRED	WF	DMIN	Insert	Left-hand		Right-hand	
								78 705 ...		78 704 ...	
A16T MCLN R/L 4	1.000	0.900	12.000	2.500	0.640	1.280	CN..32..	41616		41616	
S16T MCLN R/L 4	1.000	0.900	12.000	2.500	0.640	1.280	CN..43..	41626 ¹⁾		41626 ¹⁾	
S20U MCLN R/L 4	1.250	1.118	14.000	3.000	0.765	1.530	CN..43..	42030 ¹⁾		42030 ¹⁾	
A20U MCLN R/L 4	1.250	1.118	14.000	3.000	0.765	1.530	CN..43..	42020 ¹⁾		42020 ¹⁾	
S24U MCLN R/L 4	1.500	1.370	14.000	3.000	0.890	1.780	CN..43..	42434 ¹⁾		42434 ¹⁾	
A24U MCLN R/L 4	1.500	1.370	14.000	3.000	0.890	1.780	CN..43..	42424		42424	
S28U MCLN R/L 4	1.750	1.630	14.000	4.000	1.015	2.030	CN..43..	42838 ¹⁾		42838 ¹⁾	
A28U MCLN R/L 4	1.750	1.630	14.000	4.000	1.015	2.030	CN..43..	42828 ¹⁾		42828 ¹⁾	
S32V MCLN R/L 4	2.000	1.870	16.000	4.000	1.281	2.562	CN..43..	43242 ¹⁾		43242 ¹⁾	
S40V MCLN R/L 4	2.500	2.380	16.000	4.000	1.531	3.062	CN..43..	44050 ¹⁾		44050 ¹⁾	
S32V MCLN R/L 5	2.000	1.870	16.000	4.000	1.281	2.562	CN..54..	53242 ¹⁾		53242 ¹⁾	
A32V MCLN R/L 5	2.000	1.870	16.000	4.000	1.281	2.562	CN..54..	53233 ¹⁾		53233 ¹⁾	
S40V MCLN R/L 5	2.500	2.380	16.000	4.000	1.531	3.062	CN..54..	54050 ¹⁾		54050 ¹⁾	
A32V MCLN R/L 6	2.000	1.870	16.000	4.000	1.281	2.562	CN..64..	63233 ¹⁾		63233 ¹⁾	
S32V MCLN R/L 6	2.000	1.870	16.000	4.000	1.281	2.562	CN..64..	63242 ¹⁾		63242 ¹⁾	
S40V MCLN R/L 6	2.500	2.380	16.000	4.000	1.531	3.062	CN..64..	64050 ¹⁾		64050 ¹⁾	

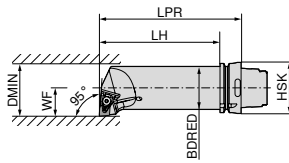
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Carbide type C
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 704 41616 / 78 705 41616	00400	06900	03000	03700	
78 704 41626 / 78 705 41626	00400	06900	03000	03700	
78 704 42030 / 78 705 42030	00400	06900	03100	03800	00800
78 704 42020 / 78 705 42020	00400	06900	03100	03800	00800
78 704 42434 / 78 705 42434	00400	06900	03100	03800	00800
78 704 42424 / 78 705 42424	00400	06900	03100	03800	00800
78 704 42838 / 78 705 42838	00400	06900	03100	03800	00800
78 704 42828 / 78 705 42828	00400	06900	03100	03800	00800
78 704 43242 / 78 705 43242	00400	06900	03100	03800	00800
78 704 44050 / 78 705 44050	00400	06900	03100	03800	00800
78 704 53242 / 78 705 53242	00300	08100	03200	03900	04100
78 704 53233 / 78 705 53233	00300	08100	03200	03900	04100
78 704 54050 / 78 705 54050	00300	08100	03200	03900	04100
78 704 63233 / 78 705 63233	00300	08100	03300	03900	00900
78 704 63242 / 78 705 63242	00300	08100	03300	03900	00900
78 704 64050 / 78 705 64050	00300	08100	03300	03900	00900

MaxiLock-D – DCLN 95° – Boring bar with top clamping

Scope of supply:

Boring bar with Torx key



Illustrations show right-hand versions

Designation	Adapter	LPR mm	LH mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand 74 529 ...	Right-hand 74 528 ...
HSK T63 50Q DCLN R/L 12	HSK-T 63	175	149	50	35	63	4	CN.. 1204	512	512

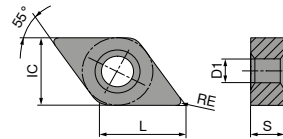
Spare parts

74 528 512 / 74 529 512

XPress type	Screwdriver	Clamping screw	Carbide type C
70 950 ...	80 950 ...	70 950 ...	70 950 ...
824	T15 - IP	128	M4.5x12 - IP
		820	810

DNMG / DNMA / DNMM

Designation	L inch	S inch	D1 inch	IC inch
DNMG 33..	0.4567	0.1874	0.1500	0.3748
DNM. 43..	0.6102	0.1874	0.2032	0.5000
DNM. 44..	0.6102	0.250	0.2032	0.5000



DNMG

ANSI	RE inch	-CF TCM10	-CF20 CTEP110	-TFQ CTEP110	NEW -F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	F	F	F	F
		CERMET DNMG	CERMET DNMG	CERMET DNMG	DNMG	DNMG	DNMG
		70 155 ...	76 102 ...	76 153 ...	76 134 ...	76 134 ...	76 134 ...
33.5EN	0.0079				30201	50201	70201
331EN	0.0157	904	004		30401	50401	70401
332EN	0.0315		006		30601	50601	70601
333EN	0.0472				30801	50801	70801
431EN	0.0157				31601	51601	71601
432EN	0.0315				31801	51801	71801
433EN	0.0472				32001	52001	72001
441EN	0.0157	914	028	028	32801	52801	72801
442EN	0.0315		030	030	33001	53001	73001
443EN	0.0472		032		33201	53201	73201
P		●	●	●	●	●	●
M		○	○	○	○	○	○
K		○	○	○	○	○	○
N							
S							
H							
O							

9

DNMG

		NEW	NEW	NEW	NEW	
		-TFQ CTCP115-P	-TFQ CTCP125-P	-XU CTCP115-P	-XU CTCP125-P	-M50 CTCK110
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	M	M	M
		DNMG	DNMG	DNMG	DNMG	DNMG
		76 153 ...	76 153 ...	76 291 ...	76 291 ...	70 133 ...
ANSI	RE inch					
432EN	0.0315					018
433EN	0.0472					020
441EN	0.0157	32801	52801	32801	52801	
442EN	0.0315	33001	53001	33001	53001	030
443EN	0.0472			33201	53201	032
P		●	●	●	●	○
M						
K		○	○	○	○	●
N						
S						
H						
O						

DNMG

			NEW	NEW	NEW	NEW
		-M50 CTCK120	-M50 CTCP115-P	-M50 CTCP125-P	-M50 CTCP135-P	-TMQ CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M	M	M	M	M
		DNMG	DNMG	DNMG	DNMG	DNMG
		70 133 ...	76 136 ...	76 136 ...	76 136 ...	76 197 ...
ANSI	RE inch					
331EN	0.0157		30401	50401	70401	
332EN	0.0315		30601	50601	70601	
333EN	0.0472		30801	50801	70801	
431EN	0.0157		31601	51401	71601	
432EN	0.0315	518	31801	51801	71801	
433EN	0.0472	520	32001	51601	72001	
434EN	0.0630		32201	52201	72201	
441EN	0.0157		32801	52801	72801	
442EN	0.0315	530	33001	53001	73001	53001
443EN	0.0472	532	33201	53201	73201	53201
444EN	0.0630		33401	53401	73401	
P		○	●	●	●	●
M					○	
K		●	○	○		○
N						
S						
H						
O						

DNMG

		-M70 CTCK110		-M70 CTCK120		-M70 CTCP115-P		-M70 CTCP125-P		-M70 CTCP135-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		M DNMG		M DNMG		M DNMG		M DNMG		M DNMG	
		70 263 ...		70 263 ...		76 263 ...		76 263 ...		76 263 ...	
ANSI	RE inch										
332EN	0.0315							30601	50601	70601	
333EN	0.0472							30801	50801	70801	
432EN	0.0315		018		518		31801		51801		71801
433EN	0.0472		020		520		32001		52001		72001
434EN	0.0630						32201		52201		72201
442EN	0.0315		030		530		33001		53001		73001
443EN	0.0472		032		532		33201		53201		73201
444EN	0.0630		034		534		33401		53401		73401
P			○		○		●		●		●
M											○
K			●		●		○		○		
N											
S											
H											
O											

DNMA / DNMM

		CTCK110		CTCK120		-R28 CTCP115-P		-R28 CTCP125-P		-R28 CTCP135-P		-R58 CTCP115-P		-R58 CTCP125-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		R DNMA		R DNMA		Ri DNMM		Ri DNMM		Ri DNMM		Ri DNMM		Ri DNMM	
		70 156 ...		70 156 ...		76 165 ...		76 165 ...		76 165 ...		76 166 ...		76 166 ...	
ANSI	RE inch														
432EN	0.0315		018		518										
433EN	0.0472		020		520										
442EN	0.0315		030		530										
443EN	0.0472		032		532										
444EN	0.0630						33201		53201		73201		33201		53201
							33401		53401		73401		33401		53401
P			○		○		●		●		●		●		●
M											○				
K			●		●		○		○				○		○
N															
S															
H															
O															

DNMM / DNMG

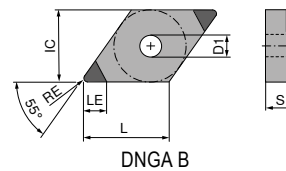
		-R58 CTCP135-P	-F30 CTCM120	-F30 CTPM125	-F30 CTCM130	-M30 CTCM120	-M30 CTPM125	-M30 CTCM130
		R DNMM	F DNMG	F DNMG	F DNMG	M DNMG	M DNMG	M DNMG
		76 166 ...	75 013 ...	75 013 ...	75 013 ...	75 014 ...	75 014 ...	75 014 ...
ANSI	RE inch							
331EN	0.0157		10400	204	30400			
332EN	0.0315		10600	206	30600	10600	206	30600
333EN	0.0472					10800	208	30800
431EN	0.0157		11600		31600			
432EN	0.0315		11800		31800	11800		31800
433EN	0.0472					12000		32000
441EN	0.0157		12800	228	32800			
442EN	0.0315		13000	230	33000	13000	230	33000
443EN	0.0472	73201				13200	232	33200
444EN	0.0630	73401						
P		●	○	○	○	○	○	○
M		○	●	●	●	●	●	●
K								
N								
S					○			○
H								
O								

DNMG

		-M42 CTCM130	-M60 CTCM120	-M60 CTPM125	NEW -M60 CTCM130	NEW -M70 CTCM130	-M34 CTPX710	NEW -M42 CTPX710
		M DNMG	M DNMG	M DNMG	M DNMG	M DNMG	M DNMG	M DNMG
		75 027 ...	75 015 ...	75 015 ...	75 015 ...	75 038 ...	75 004 ...	75 027 ...
ANSI	RE inch							
331EN	0.0157	30400						
332EN	0.0315	30600				30600		
431EN	0.0157	31600					61600	
432EN	0.0315	31800	11800		31800		61800	
433EN	0.0472		12000		32000		62000	
441EN	0.0157	32800						
442EN	0.0315	33000	13000	230	33000		63000	63000
443EN	0.0472		13200	232	33200		63200	
P		○	○	○	○	○	●	●
M		●	●	●	●	●	●	●
K								
N							○	○
S		○			○	○	●	●
H								
O								

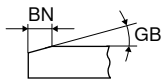
DNGA

Designation	L inch	S inch	D1 inch	IC inch
DNGA 441E..	0.6102	0.250	0.2032	0.500
DNGA 441S..	0.6102	0.250	0.2032	0.500
DNGA 442E..	0.6102	0.250	0.2032	0.500
DNGA 442S..	0.6102	0.250	0.2032	0.500
DNGA 443E..	0.6102	0.250	0.2032	0.500
DNGA 443S..	0.6102	0.250	0.2032	0.500



DNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN DNGA	PCBN DNGA	PCBN DNGA
71 017 ...	71 017 ...	71 017 ...
70002	80002	90002
70302	80302	90302
70602	80602	90602

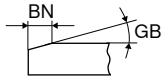
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
441EN	0.0157			B (2)	0.1417
441SN	0.0157	0.0055	20°	B (2)	0.1417
442EN	0.0315			B (2)	0.1299
442SN	0.0315	0.0055	20°	B (2)	0.1299
443EN	0.0472			B (2)	0.1181
443SN	0.0472	0.0055	20°	B (2)	0.1181

P
M
K
N
S
H
O

9

DNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



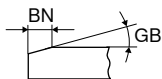
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN DNGA	PCBN DNGA	PCBN DNGA
71 017 ...	71 017 ...	71 017 ...
70102	80102	90102
70402	80402	90402
70702	80702	90702

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
441SN	0.0157	0.0035	15°	B (2)	0.1417
441SN	0.0157	0.0071	25°	B (2)	0.1417
442SN	0.0315	0.0035	15°	B (2)	0.1299
442SN	0.0315	0.0071	25°	B (2)	0.1299
443SN	0.0472	0.0035	15°	B (2)	0.1181
443SN	0.0472	0.0071	25°	B (2)	0.1181

P
M
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H
O

DNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



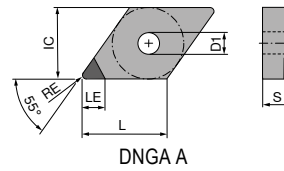
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN DNGA	PCBN DNGA	PCBN DNGA
71 017 ...	71 017 ...	71 017 ...
70202	80202	90202
70502	80502	90502
70802	80802	90802

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
441SN	0.0157	0.0055	20°	B (2)	0.1417
441SN	0.0157	0.0079	35°	B (2)	0.1417
442SN	0.0315	0.0055	20°	B (2)	0.1299
442SN	0.0315	0.0079	35°	B (2)	0.1299
443SN	0.0472	0.0055	20°	B (2)	0.1181
443SN	0.0472	0.0079	35°	B (2)	0.1181

P
M
K
N
S
H
O

DNGA

Designation	L inch	S inch	D1 inch	IC inch
DNGA 43..	0.6102	0.1874	0.2032	0.500
DNGA 44..	0.6102	0.250	0.2032	0.500



DNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners

CTDPD20

○ ○ ○

F
DIAMOND
DNGA

71 128 ...

ANSI	RE inch	TCE (NOI)	LE inch	
441FN	0.0157	A (1)	0.2520	10301
431FN	0.0157	A (1)	0.2520	10001
432FN	0.0315	A (1)	0.2362	10101
433FN	0.0472	A (1)	0.2205	10201
442FN	0.0315	A (1)	0.2362	10401
443FN	0.0472	A (1)	0.2205	10501
P				
M				
K				
N				●
S				
H				
O				●

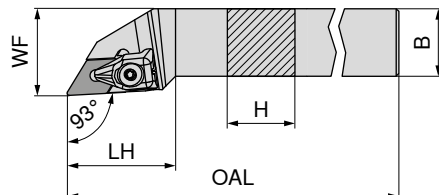
9

MaxiLock-D – DDJN 93° – Toolholder with top clamping

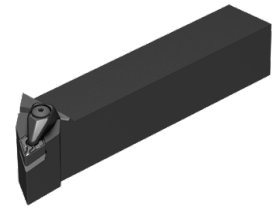
- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key









Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand 78 503 ...		Right-hand 78 502 ...	
DDJN R/L 12-4BA-N	0.750	0.750	4.500	1.535	1.000	DN..43..	01294			01294
DDJN R/L 12-4B-N	0.750	0.750	4.500	1.535	1.000	DN..43..	01293			01293
DDJN R/L 16-4D-N	1.000	1.000	6.000	1.535	1.250	DN..43..	01689			01689
DDJN R/L 16-4DA-N	1.000	1.000	6.000	1.535	1.250	DN..43..	01692			01692
DDJN R/L 20-4D-N	1.250	1.250	6.000	1.535	1.500	DN..43..	02089			02089
DDJN R/L 20-4DA-N	1.250	1.250	6.000	1.535	1.500	DN..43..	02092			02092
DDJN R/L 24-4E-N	1.500	1.500	7.000	1.535	2.000	DN..43..	02486 ¹⁾			02486 ¹⁾
DDJN R/L 24-4EA-N	1.500	1.500	7.000	1.535	2.000	DN..43..	02488 ¹⁾			02488 ¹⁾

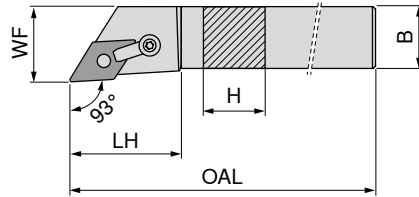
1) Not in stock

Spare parts for Article no.	 Clamping claw 78 950 ...						 Key I 78 950 ...						 Clamping screw 78 950 ...						 Solid Carbide Seat D 78 950 ...						 Threaded bush 78 950 ...						 Spring 78 950 ...					
	78 502 01293 / 78 503 01293	07600						08100						08300						06700						08500						04900				
78 502 01689 / 78 503 01689	07600						08100						08300						06700						08500						04900					
78 502 01692 / 78 503 01692	07600						08100						08300						06700						08500						04900					
78 502 02089 / 78 503 02089	07600						08100						08300						06700						08500						04900					
78 502 02092 / 78 503 02092	07600						08100						08300						06700						08500						04900					
78 502 02486 / 78 503 02486	07600						08100						08300						06700						08500						04900					
78 502 02488 / 78 503 02488	07600						08100						08300						06700						08500						04900					

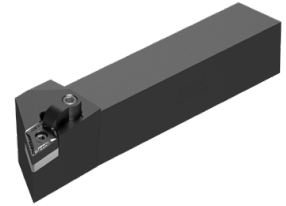
MaxiLock-M – MDJN 93° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



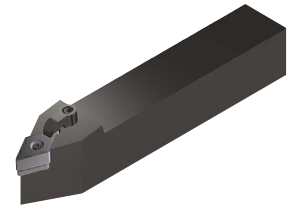
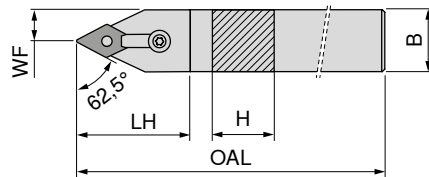
Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 527 ...	78 526 ...
MDJN R/L 08-3A	0.500	0.500	4.000	1.060	0.625	DN..33..	00813 ¹⁾	00813 ¹⁾
MDJN R/L 10-3B	0.625	0.625	4.500	1.250	0.875	DN..33..	01023 ¹⁾	01023 ¹⁾
MDJN R/L 12-4B	0.750	0.750	4.500	1.500	1.000	DN..43..	01224 ¹⁾	01224 ¹⁾
MDJN R/L 16-4D	1.000	1.000	6.000	1.500	1.250	DN..43..	01644 ¹⁾	01644 ¹⁾
MDJN R/L 20-4D	1.250	1.250	6.000	1.500	1.500	DN..43..	02044 ¹⁾	02044 ¹⁾
MDJN R/L 85-4D	1.250	1.000	6.000	1.500	1.250	DN..43..	08544 ¹⁾	08544 ¹⁾
MDJN R/L 24-4D	1.500	1.500	6.000	1.500	2.000	DN..43..	02444 ¹⁾	02444 ¹⁾

1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat D
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 526 00813 / 78 527 00813	00700	06800		03600	
78 526 01023 / 78 527 01023	00700	06800		03600	
78 526 01224 / 78 527 01224	00400	06900	03100	03800	04200
78 526 01644 / 78 527 01644	00400	06900	03100	03800	04200
78 526 02044 / 78 527 02044	00400	06900	03100	03800	04200
78 526 08544 / 78 527 08544	00400	06900	03100	03800	04200
78 526 02444 / 78 527 02444	00400	06900	03100	03800	04200

MaxiLock-M – MDPN 62.5° – Toolholder with top clamping

Scope of supply:
Tool holder with allen key



Neutral
78 576 ...

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
MDPN N 12-4B	0.750	0.750	4.500	1.620	0.375	DN..43..
MDPN N 16-4D	1.000	1.000	6.000	1.620	0.500	DN..43..
MDPN N 20-4D	1.250	1.250	6.000	1.620	0.625	DN..43..

01224¹⁾
01644¹⁾
02044¹⁾

1) Not in stock

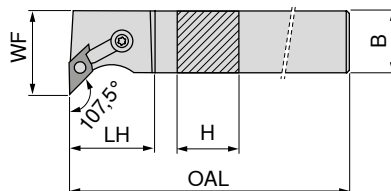
Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat D
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
09000	06900	03100	03800	04200
09000	06900	03100	03800	04200
09000	06900	03100	03800	04200

Spare parts
for Article no.

78 576 01224
78 576 01644
78 576 02044

MaxiLock-M – MDQN 107.5° – Toolholder with top clamping

Scope of supply:
Tool holder with allen key



Illustrations show right-hand versions



Left-hand **78 529 ...** Right-hand **78 528 ...**

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
MDQN R/L 12-4B	0.750	0.750	4.500	1.370	1.000	DN..43..
MDQN R/L 16-4D	1.000	1.000	6.000	1.370	1.250	DN..43..
MDQN R/L 20-4D	1.250	1.250	6.000	1.370	1.500	DN..43..
MDQN R/L 24-4E	1.500	1.500	7.000	1.370	2.000	DN..43..

01293¹⁾ **01293¹⁾**
01689¹⁾ **01689¹⁾**
02089¹⁾ **02089¹⁾**
02486¹⁾ **02486¹⁾**

1) Not in stock

Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat D
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
00400	06900	03100	03800	04200
00400	06900	03100	03800	04200
00400	06900	03100	03800	04200
00400	06900	03100	03800	04200

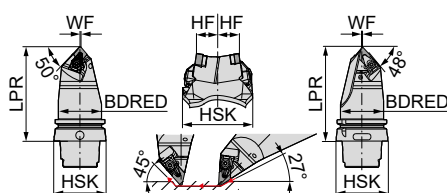
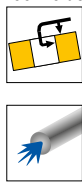
Spare parts
for Article no.

78 528 01293 / 78 529 01293
78 528 01689 / 78 529 01689
78 528 02089 / 78 529 02089
78 528 02486 / 78 529 02486

MaxiLock-D – DCMN + DDMN – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Neutral

74 600 ...

Designation	Adapter	LPR mm	BDRED mm	WF mm	HF mm	torque moment Nm	Insert	
HSK T63 DCMN L 12 + DDMN L 15	HSK-T 63	115	53	0.5	20	4	CN.. 1204 / DN.. 1506	501
HSK T100 DCMN L 12 + DDMN L 15	HSK-T 100	150	88	0.5	20	4	CN.. 1204 / DN.. 1506	701

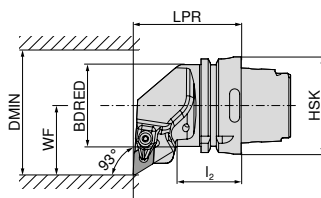
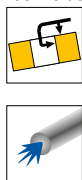
Face turning maximum 78 mm

Spare parts	XPress type	Screwdriver	Clamping screw	Solid Carbide Seat D	Carbide type C
74 600 501 / 74 600 701	70 950 ...	80 950 ...	70 950 ...	70 950 ...	70 950 ...
	824 T15 - IP	128 M4.5x12 - IP	820	811	810

MaxiLock-D – DDUN 93° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Left-hand **74 516 ...** Right-hand **74 515 ...**

Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert		
HSK T63 DDUN R/L 15	HSK-T 63	70	42	53	45	125	4	DN.. 1506	515	515
HSK T100 DDUN R/L 15	HSK-T 100	80	45	88	55	125	4	DN.. 1506	715	715

Spare parts

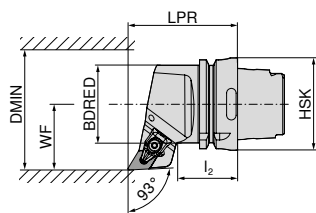
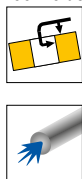
74 516 515 / 74 515 715	70 950 ...	80 950 ...	70 950 ...	70 950 ...
	824 T15 - IP	128 M4.5x12 - IP	820	811

9

MaxiLock-D – DDJN 93° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand		Right-hand	
									74 512 ...	74 511 ...	74 512 ...	74 511 ...
HSK T63 DDJN R/L 15	HSK-T 63	75	42	53	45	125	4	DN.. 1506	515		515	
HSK T100 DDJN R/L 15	HSK-T 100	85	45	88	55	125	4	DN.. 1506	715		715	

Spare parts

74 512 515 / 74 511 715

XPress type	Screwdriver	Clamping screw	Solid Carbide Seat D
70 950 ...	80 950 ...	70 950 ...	70 950 ...
824	128	820	811

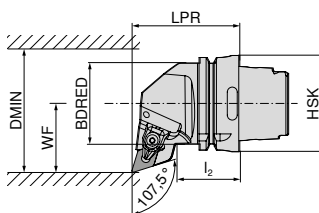
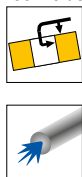
T15 - IP

M4.5x12 - IP

MaxiLock-D – DDHN 107.5° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand		Right-hand	
									74 508 ...	74 507 ...	74 508 ...	74 507 ...
HSK T63 DDHN R/L 15	HSK-T 63	70	42	53	45	125	4	DN.. 1506	515		515	

Spare parts

74 508 515 / 74 507 515

XPress type	Screwdriver	Clamping screw	Solid Carbide Seat D
70 950 ...	80 950 ...	70 950 ...	70 950 ...
824	128	820	811

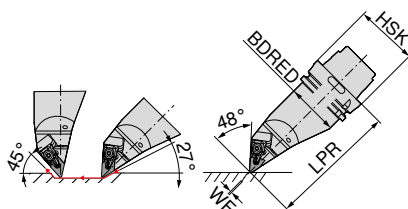
T15 - IP

M4.5x12 - IP

MaxiLock-D – DDMN 48° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Left-hand
74 519 ...

Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	
HSK T63 DDMN L 15	HSK-T 63	130	53	0	4	DN.. 1506	515
HSK T100 DDMN L 15	HSK-T 100	160	88	0	4	DN.. 1506	715

XPress type	Screwdriver	Clamping screw	Solid Carbide Seat D
70 950 ...	80 950 ...	70 950 ...	70 950 ...
824	128	820	811

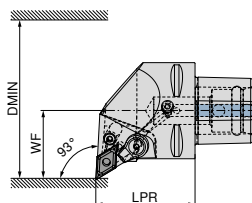
Spare parts

74 519 515 / 74 519 715

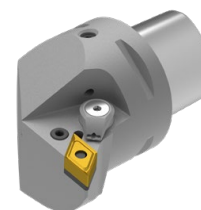
MaxiLock-N – PDUN 93° – Toolholder with lever clamping

Scope of supply:

without high-performance coolant set



Illustrations show right-hand versions



Left-hand **84 661 ...** Right-hand **84 660 ...**

Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible		
PSC40 PDUN R/L 50050-15	PSC 40	50	27	50	5	DN.. 1504 / 1506	DC	01595	01595
PSC50 PDUN R/L 65060-15	PSC 50	60	35	65	5	DN.. 1504 / 1506	DC	01594	01594
PSC63 PDUN R/L 80065-15	PSC 63	65	45	80	5	DN.. 1504 / 1506	DC	01593	01593

Shim	Elbow lever screw	Lever	Solid Carbide Seat D
84 950 ...	84 950 ...	84 950 ...	84 950 ...
29200	M8X1/L17 SW3	28700	28900
		28900	27900

Spare parts

84 660 01593 / 84 661 01595



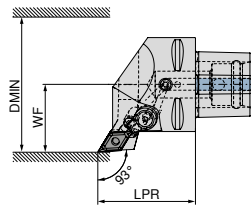
The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**

When using DN1504.. inserts Shim item no. **84 950 28200**

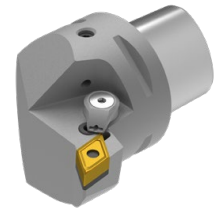
MaxiLock-N – PDJN 93° – Toolholder with lever clamping

Scope of supply:





without high-performance coolant set



Illustrations show right-hand versions



Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible	Left-hand	Right-hand
								84 665 ...	84 664 ...
PSC40 PDJN R/L 50050-15	PSC 40	50	27	50	5	DN.. 1504 / 1506	DC	01595	01595
PSC50 PDJN R/L 65060-15	PSC 50	60	35	65	5	DN.. 1504 / 1506	DC	01594	01594
PSC63 PDJN R/L 80065-15	PSC 63	65	45	80	5	DN.. 1504 / 1506	DC	01593	01593

 Shim	 Elbow lever screw	 Lever	 Solid Carbide Seat D
84 950 ...	84 950 ...	84 950 ...	84 950 ...

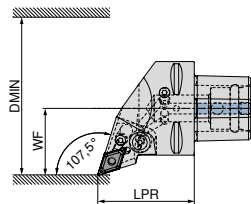
Spare parts

Adapter	29200	M8X1/L17 SW3	28700	28900	27900
PSC 40	29200	M8X1/L17 SW3	28700	28900	27900
PSC 50	29200	M8X1/L17 SW3	28700	28900	27900
PSC 63	29200	M8X1/L17 SW3	28700	28900	27900

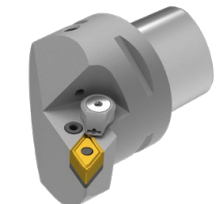
MaxiLock-N – PDHN 107.5° – Toolholder with lever clamping

Scope of supply:





without high-performance coolant set



Illustrations show right-hand versions




Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible	Left-hand	Right-hand
								84 669 ...	84 668 ...
PSC40 PDHN R/L 50050-15	PSC 40	50	27	50	5	DN.. 1504 / 1506	DC	01595	01595
PSC50 PDHN R/L 65060-15	PSC 50	60	35	65	5	DN.. 1504 / 1506	DC	01594	01594
PSC63 PDHN R/L 80065-15	PSC 63	65	45	80	5	DN.. 1504 / 1506	DC	01593	01593

 Shim	 Elbow lever screw	 Lever	 Solid Carbide Seat D
84 950 ...	84 950 ...	84 950 ...	84 950 ...

Spare parts

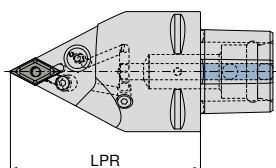
84 668 01593 / 84 669 01595	29200	28700	28900	27900
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 The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → Page 46.
When using DN1504... inserts Shim item no. **84 950 28200**

MaxiLock-N – PDNN 62.5° – Toolholder with lever clamping

Scope of supply:

without high-performance coolant set







Neutral

84 676 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible	
PSC63 PDNN N 0100-15	PSC 63	100	5	DN.. 1504 / 1506	DC	01593
PSC63 PDNN N 0130-15	PSC 63	130	5	DN.. 1504 / 1506	DC	11593

Spare parts

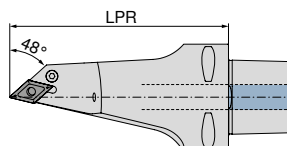
84 676 01593 / 84 676 11593

			
Shim	Elbow lever screw	Lever	Solid Carbide Seat D
84 950 ...	84 950 ...	84 950 ...	84 950 ...
29200	28700	28900	27900

MaxiLock-N – PDMN 48° – Toolholder with lever clamping

Scope of supply:

without high-performance coolant set







Neutral

84 680 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible	
PSC63 PDMN L 0130-15	PSC 63	130	5	DN.. 1504 / 1506	DC	11593

Spare parts

84 680 11593

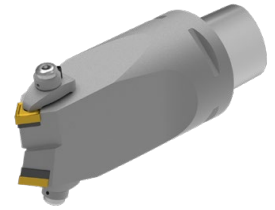
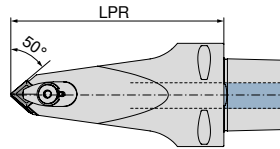
			
Shim	Elbow lever screw	Lever	Solid Carbide Seat D
84 950 ...	84 950 ...	84 950 ...	84 950 ...
29200	28700	28900	27900



The high-performance coolant set with article number 84 950 27400 can be ordered as an optional extra → Page 46.

When using DN1504.. inserts Shim item no. 84 950 28200

MaxiLock-D – DCMN + DDMN 50°/48° – Toolholder with top clamping









Neutral
84 683 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert
PSC63 DCMN-DDMN L 0130-12/15	PSC 63	130	10	CN.. 1204 / DN.. 1506

01293

Spare parts

84 683 01293

					
Clamping Screw	Clamping claw	Ring-shaped nozzle	Clamping screw	Solid Carbide Seat D	Carbide type C
84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...	84 950 ...
28300	28500	28400	27500	27900	27800

High-performance coolant set

- ▲ Using the DC kit blocks the other coolant outlet so that all of the pressure is concentrated by the kit!
- ▲ Can be used up to 100 bar

Scope of supply:

Direct cooling nozzle and O-ring



84 950 ...

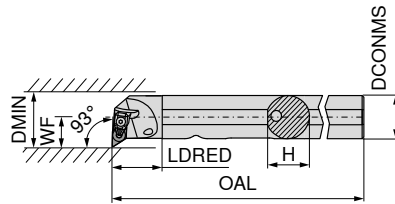
Coolant set

27400

MaxiLock-D – DDUN 93° – Boring bar with top clamping

- ▲ A... = with thru coolant
- ▲ S... = without thru coolant

Scope of supply:
Tool holder with allen key



Illustrations show right-hand versions



Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand	Right-hand
								78 703 ...	78 702 ...
S20U DDUN R/L 4N	1.250	1.118	14.000	1.771	0.765	1.530	DN..43..	42030 ¹⁾	42030 ¹⁾
S24U DDUN R/L 4N	1.500	1.370	14.000	1.968	0.890	1.780	DN..43..	42434 ¹⁾	42434 ¹⁾

1) Not in stock

Clamping claw	Key I	Clamping screw	Solid Carbide Seat D	Threaded bush	Spring
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...

Spare parts
for Article no.

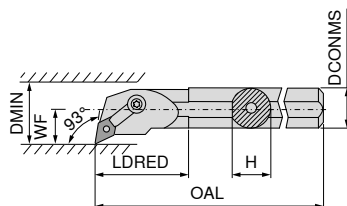
78 702 42030 / 78 703 42030	07600	08100	08300	04200	08500	04900
78 702 42434 / 78 703 42434	07600	08100	08300	04200	08500	04900

MaxiLock-M – MDUL 93° – Boring bar with top clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand	Right-hand
								78 707 ...	78 706 ...
S16T MDUN R/L 4	1.000	0.900	12.000	2.500	0.875	1.750	DN..43..	41626 ¹⁾	41626 ¹⁾
A16T MDUN R/L 4	1.000	0.900	12.000	2.500	0.875	1.750	DN..43..	41616	41616
S20U MDUN R/L 4	1.250	1.118	14.000	3.000	1.000	2.000	DN..43..	42030 ¹⁾	42030 ¹⁾
A20U MDUN R/L 4	1.250	1.118	14.000	3.000	1.000	2.000	DN..43..	42020 ¹⁾	42020 ¹⁾
S24U MDUN R/L 4	1.500	1.370	14.000	3.000	1.125	2.250	DN..43..	42434 ¹⁾	42434 ¹⁾
A24U MDUN R/L 4	1.500	1.370	14.000	3.000	1.125	2.250	DN..43..	42424	42424
S32V MDUN R/L 4	2.000	1.870	16.000	4.000	1.375	3.000	DN..43..	43242 ¹⁾	43242 ¹⁾
A32V MDUN R/L 4	2.000	1.870	16.000	4.000	1.375	3.000	DN..43..	43233 ¹⁾	43233 ¹⁾

1) Not in stock

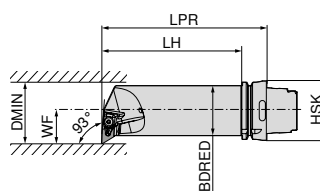
Spare parts for Article no.

Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat D
78 706 41626 / 78 707 41626	00400	06900	03000	03700	
78 706 41616 / 78 707 41616	00400	06900	03000	03700	
78 706 42030 / 78 707 42030	00400	06900	03100	03800	04200
78 706 42020 / 78 707 42020	00400	06900	03100	03800	04200
78 706 42434 / 78 707 42434	00400	06900	03100	03800	04200
78 706 42424 / 78 707 42424	00400	06900	03100	03800	04200
78 706 43242 / 78 707 43242	00400	06900	03100	03800	04200
78 706 43233 / 78 707 43233	00400	06900	03100	03800	04200

MaxiLock-D – DDUN 93° – Boring bar with top clamping

Scope of supply:

Boring bar with Torx key



Illustrations show right-hand versions



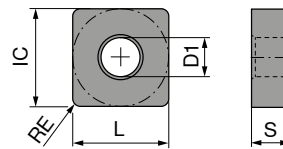
Designation	Adapter	LPR mm	LH mm	BRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand	Right-hand
									74 533 ...	74 532 ...
HSK T63 50Q DDUN R/L 15	HSK-T 63	175	149	50	35	63	4	DN.. 1506	515	515

Spare parts

Article no.	XPress type	Screwdriver	Clamping screw	Solid Carbide Seat D
74 533 515 / 74 532 515	824	T15 - IP	128	M4.5x12 - IP
			820	811

SNMG / SNMA / SNMM

Designation	L inch	S inch	D1 inch	IC inch
SNMG 32..	0.3748	0.1252	0.1500	0.3748
SNM. 43..	0.5000	0.1874	0.2032	0.5000
SNM. 54..	0.6248	0.250	0.2500	0.6248
SNM. 64..	0.7500	0.250	0.3126	0.7500
SNMM 85..	1.0000	0.3126	0.3591	1.0000
SNMM 86..	1.0000	0.3748	0.3591	1.0000

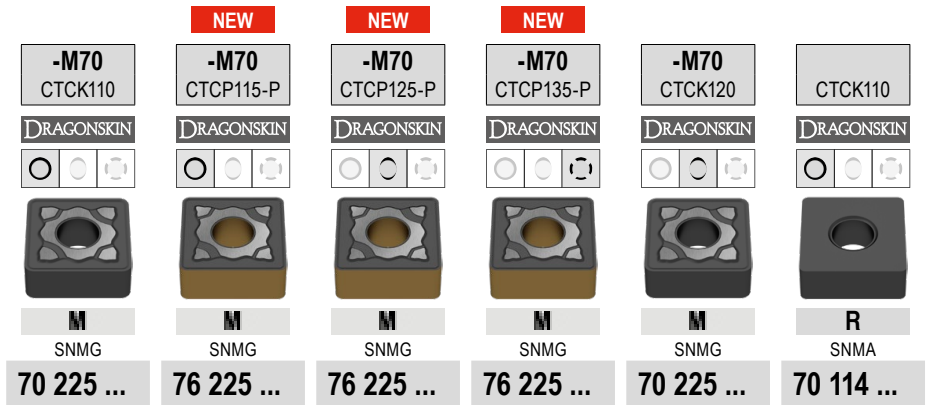


SNMG

ANSI	RE inch	NEW -F50		NEW -M50		
		CTCP115-P	CTCP125-P	CTCP115-P	CTCP125-P	CTCP135-P
		DRAGONSKIN		DRAGONSKIN		
		[Icons]		[Icons]		
		[Image]		[Image]		
		F	F	M	M	M
		SNMG	SNMG	SNMG	SNMG	SNMG
		76 140 ...	76 140 ...	76 140 ...	76 137 ...	76 137 ...
322EN	0.0315	30601	50601	70601		
431EN	0.0157	31601	51601	71601		
432EN	0.0315	31801	51801	71801	31801	51801
433EN	0.0472	32001	52001	72001	32001	52001
434EN	0.0630				32201	52201
542EN	0.0315				33001	53001
543EN	0.0472				33201	53201
544EN	0.0630				33401	53401
P		●	●	●	●	●
M				○		
K		○	○		○	○
N						
S						
H						
O						

9

SNMG / SNMA



ANSI	RE inch	70 225 ...	76 225 ...	76 225 ...	76 225 ...	70 225 ...	70 114 ...
432EN	0.0315	018	31801	51801	71801	518	018
433EN	0.0472	020	32001	52001	72001	520	020
434EN	0.0630	022	32201	52201	72201	522	022
543EN	0.0472	032	33201	53201	73201	532	032
544EN	0.0630	034	33401	53401	73401	534	034
643EN	0.0472	044	34401	54401	74401	544	044
644EN	0.0630	046	34601	54601	74601	546	046
646EN	0.0945		34801	54801	74801		
P		○	●	●	●	○	○
M					○		
K		●	○	○		●	●
N							
S							
H							
O							

SNMA / SNMM

			NEW	NEW	NEW	NEW	NEW	NEW
		CTCK120	-R28 CTCP115-P	-R28 CTCP125-P	-R28 CTCP135-P	-R58 CTCP115-P	-R58 CTCP125-P	-R58 CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		R SNMA	R SNMM	R SNMM	R SNMM	R SNMM	R SNMM	R SNMM
		70 114 ...	76 128 ...	76 128 ...	76 128 ...	76 129 ...	76 129 ...	76 129 ...
ANSI	RE inch							
432EN	0.0315	518				31801	51801	71801
433EN	0.0472	520				32001	52001	72001
434EN	0.0630	522						
543EN	0.0472	532	33201	53201	73201	33201	53201	73201
544EN	0.0630	534	33401	53401	73401	33401	53401	73401
643EN	0.0472	544				34401	54401	74401
644EN	0.0630	546	34601	54601	74601	34601	54601	74601
646EN	0.0945					34801	54801	74801
856EN	0.0945					36001	56001	76001
866EN	0.0945		37001	57001	77001	37001	57001	77001
P		○	●	●	●	●	●	●
M						○		○
K		●	○	○		○	○	○
N								
S								
H								
O								

SNMM

			NEW	NEW	NEW
			-R88 CTCP115-P	-R88 CTCP125-P	-R88 CTCP135-P
			DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
			R SNMM	R SNMM	R SNMM
			76 130 ...	76 130 ...	76 130 ...
ANSI	RE inch				
644SN	0.0630		34601	54601	74601
646SN	0.0945		34801	54801	74801
856SN	0.0945		36001	56001	76001
866SN	0.0945		37001	57001	77001
P			●	●	●
M					○
K			○	○	
N					
S					
H					
O					

SNMG

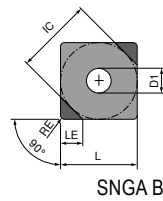
ANSI	RE inch	-F30 CTCM120	-F30 CTPM125	-F30 CTCM130	-M30 CTCM120	-M30 CTPM125	-M30 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F SNMG	F SNMG	F SNMG	M SNMG	M SNMG	M SNMG
		75 016 ...	75 016 ...	75 016 ...	75 017 ...	75 017 ...	75 017 ...
431EN	0.0157	11600	216	31600			
432EN	0.0315	11800	218	31800	11800	218	31800
433EN	0.0472				12000		32000
P		○	○	○	○	○	○
M		●	●	●	●	●	●
K							
N							
S				○			○
H							
O							

SNMG

ANSI	RE inch	NEW -M42 CTCM130	-M60 CTCM120	-M60 CTPM125	-M60 CTCM130	NEW -M70 CTCM130	-M34 CTPX710
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M SNMG	M SNMG	M SNMG	M SNMG	M SNMG	M SNMG
		75 034 ...	75 018 ...	75 018 ...	75 018 ...	75 039 ...	75 005 ...
432EN	0.0315	31800	11800	218	31800	31800	61800
433EN	0.0472	32000	12000	210	32000	32000	62000
434EN	0.0630		12200	220	32200		
644EN	0.0630					34600	
P		○	○	○	○	○	●
M		●	●	●	●	●	●
K							
N							○
S		○			○	○	●
H							
O							

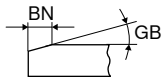
SNGA

Designation	L inch	S inch	D1 inch	IC inch
SNGA 432E..	0.500	0.1874	0.2032	0.500
SNGA 432S..	0.500	0.1874	0.2032	0.500
SNGA 433E..	0.500	0.1874	0.2032	0.500
SNGA 433S..	0.500	0.1874	0.2032	0.500



SNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN SNGA	PCBN SNGA	PCBN SNGA
71 039 ...	71 039 ...	71 039 ...
70002	80002	90002
70302	80302	90302

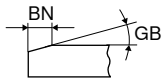
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
432EN	0.0315			B (2)	0.1496
432SN	0.0315	0.0055	20°	B (2)	0.1496
433EN	0.0472			B (2)	0.1496
433SN	0.0472	0.0055	20°	B (2)	0.1496

P			
M			
K			
N			
S			
H		•	•
O			•

9

SNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



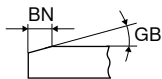
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN SNGA	PCBN SNGA	PCBN SNGA
71 039 ...	71 039 ...	71 039 ...
70102	80102	90102
70402	80402	90402

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
432SN	0.0315	0.0035	15°	B (2)	0.1496
432SN	0.0315	0.0071	25°	B (2)	0.1496
433SN	0.0472	0.0035	15°	B (2)	0.1496
433SN	0.0472	0.0071	25°	B (2)	0.1496

P
M
K
N
S
H
O

SNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN SNGA	PCBN SNGA	PCBN SNGA
71 039 ...	71 039 ...	71 039 ...
70202	80202	90202
70502	80502	90502

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
432SN	0.0315	0.0055	20°	B (2)	0.1496
432SN	0.0315	0.0079	35°	B (2)	0.1496
433SN	0.0472	0.0055	20°	B (2)	0.1496
433SN	0.0472	0.0079	35°	B (2)	0.1496

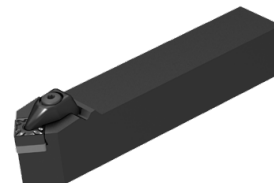
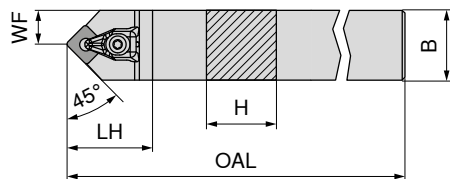
P
M
K
N
S
H
O

MaxiLock-D – DSDN 45° – Toolholder with top clamping

- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key



Neutral
78 574 ...

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	
DSDN N 12-4BA-N	0.750	0.750	4.500	1.380	0.375	SN..43..	01224 ¹⁾
DSDN N 16-4DA-N	1.000	1.000	6.000	1.457	0.500	SN..43..	01690
DSDN N 20-5DA-N	1.250	1.250	6.000	1.535	0.625	SN..54..	02085
DSDN N 20-6DA-N	1.250	1.250	6.000	1.535	0.625	SN..64..	02081 ¹⁾
DSDN N 24-6EA-N	1.500	1.500	7.000	1.650	0.750	SN..64..	02479 ¹⁾

1) Not in stock

Clamping claw	Key I	Clamping screw	Solid Carbide support S	Threaded bush	Spring
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
07600	08100	08300	01700	08500	04900
07800	08100	08300	01700	08700	04900
07800	08100	08300	01700	08700	04900

Spare parts for Article no.

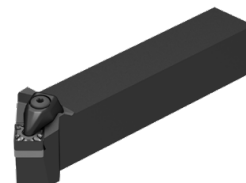
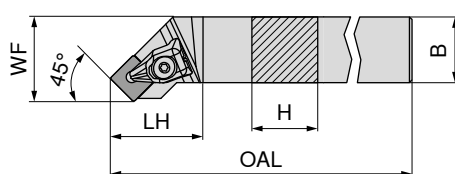
78 574 01224
78 574 02081
78 574 02479

MaxiLock-D – DSSN 45° – Toolholder with top clamping

- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Left-hand	Right-hand
78 507 ...	78 506 ...
01293 ¹⁾	01293 ¹⁾
01689 ¹⁾	01689 ¹⁾
02089 ¹⁾	02089 ¹⁾
02080 ¹⁾	02080 ¹⁾
02477 ¹⁾	02477 ¹⁾

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	
DSSN R/L 12-4B-N	0.750	0.750	4.500	1.457	1.000	SN..43..	01293 ¹⁾
DSSN R/L 16-4D-N	1.000	1.000	6.000	1.457	1.250	SN..43..	01689 ¹⁾
DSSN R/L 20-4D-N	1.250	1.250	6.000	1.457	1.500	SN..43..	02089 ¹⁾
DSSN R/L 20-6D-N	1.250	1.250	6.000	1.772	1.500	SN..64..	02080 ¹⁾
DSSN R/L 24-6E-N	1.500	1.500	7.000	1.772	2.000	SN..64..	02477 ¹⁾

1) Not in stock

Clamping claw	Key I	Clamping screw	Solid Carbide support S	Threaded bush	Spring
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
07600	08100	08300	01700	08500	04900
07600	08100	08300	01700	08500	04900
07600	08100	08300	01700	08500	04900
07800	08100	08300	01700	08700	04900
07800	08100	08300	01700	08700	04900

Spare parts for Article no.

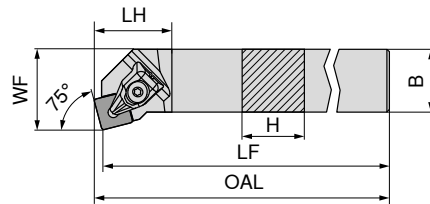
78 506 01293 / 78 507 01293
78 506 01689 / 78 507 01689
78 506 02089 / 78 507 02089
78 506 02080 / 78 507 02080
78 506 02477 / 78 507 02477

MaxiLock-D – DSRN 75° – Toolholder with top clamping

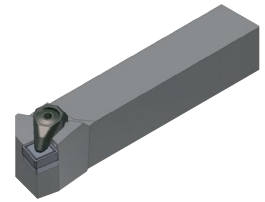
- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key








Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand 78 505 ...		Right-hand 78 504 ...	
DSRN R/L 12-4BA-N	0.750	0.750	4.500	1.380	0.880	SN..43..	01294¹⁾		01294¹⁾	
DSRN R/L 16-4DA-N	1.000	1.000	6.000	1.380	1.130	SN..43..	01690¹⁾		01690¹⁾	
DSRN R/L 20-5DA-N	1.250	1.250	6.000	1.380	1.353	SN..54..	02085¹⁾		02085¹⁾	
DSRN R/L 20-6DA-N	1.250	1.250	6.000	1.380	1.321	SN..64..	02081¹⁾		02081¹⁾	

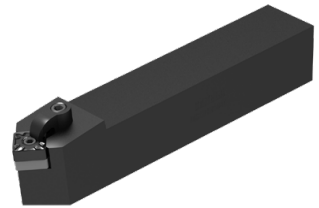
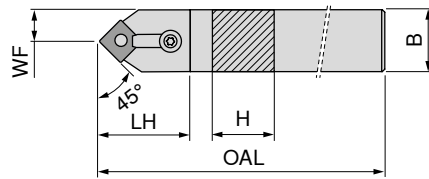
1) Not in stock

Spare parts for Article no.	 Clamping claw 78 950 ...						 Key I 78 950 ...						 Clamping screw 78 950 ...						 Solid Carbide support S 78 950 ...						 Threaded bush 78 950 ...						 Spring 78 950 ...					
	78 504 01294 / 78 505 01294	07600						08100						08300						08500						04900										
78 504 01690 / 78 505 01690	07600						08100						08300						08500						04900											
78 504 02085 / 78 505 02085	07700						08100						08300						01600						08600						04900					
78 504 02081 / 78 505 02081	07800						08100						08300						01700						08700						04900					

MaxiLock-M – MSDN 45° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Neutral
78 577 ...

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	
MSDN N 08-3A	0.500	0.500	4.000	1.000	0.250	SN..32..	00813 ¹⁾
MSDN N 10-3B	0.625	0.625	4.500	1.000	0.313	SN..32..	01023 ¹⁾
MSDN N 12-4B	0.750	0.750	4.500	1.300	0.375	SN..43..	01224 ¹⁾
MSDN N 16-4D	1.000	1.000	6.000	1.300	0.500	SN..43..	01644 ¹⁾
MSDN N 85-4D	1.250	1.000	6.000	1.300	0.625	SN..43..	08544 ¹⁾
MSDN N 16-5D	1.000	1.000	6.000	1.500	0.500	SN..54..	01645 ¹⁾
MSDN N 85-5D	1.250	1.000	6.000	1.500	0.625	SN..54..	08545 ¹⁾
MSDN N 20-5D	1.250	1.250	6.000	1.500	0.625	SN..54..	02045 ¹⁾
MSDN N 16-6D	1.000	1.000	6.000	1.730	0.500	SN..64..	01646 ¹⁾
MSDN N 85-6D	1.250	1.000	6.000	1.750	0.625	SN..64..	08546 ¹⁾
MSDN N 20-6D	1.250	1.250	6.000	1.750	0.625	SN..64..	02046 ¹⁾
MSDN N 24-6E	1.500	1.500	7.000	1.750	0.750	SN..64..	02456 ¹⁾

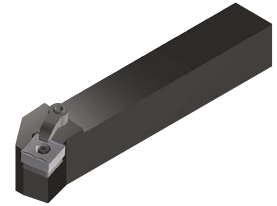
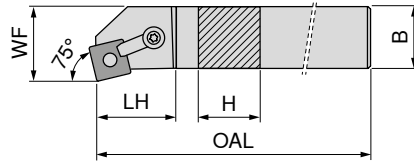
1) Not in stock

	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide support S
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
Spare parts for Article no.					
78 577 00813	00600	07000		03600	01500
78 577 01023	00600	07000		03600	01500
78 577 01224	00400	06900	03100	03800	04300
78 577 01644	00400	06900	03100	03800	04300
78 577 08544	00400	06900	03100	03800	04300
78 577 01645	00300	08100	03200	03900	01600
78 577 08545	00300	08100	03200	03900	01600
78 577 02045	00300	08100	03200	03900	01600
78 577 01646	00300	08100	03300	03900	01700
78 577 08546	00300	08100	03300	03900	01700
78 577 02046	00300	08100	03300	03900	01700
78 577 02456	00300	08100	03300	03900	01700

MaxiLock-M – MSKN 75° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 533 ...	78 532 ...
MSKN R/L 12-4B	0.750	0.750	4.500	1.220	1.000	SN..43..	01224 ¹⁾	01224 ¹⁾
MSKN R/L 16-4D	1.000	1.000	6.000	1.220	1.250	SN..43..	01644 ¹⁾	01644 ¹⁾
MSKN R/L 16-5D	1.000	1.000	6.000	1.410	1.250	SN..54..	01645 ¹⁾	01645 ¹⁾
MSKN R/L 85-5D	1.250	1.000	6.000	1.410	1.250	SN..54..	08545 ¹⁾	08545 ¹⁾
MSKN R/L 20-5D	1.250	1.250	6.000	1.410	1.500	SN..54..	02045 ¹⁾	02045 ¹⁾
MSKN R/L 20-6D	1.250	1.250	6.000	1.500	1.500	SN..64..	02046 ¹⁾	02046 ¹⁾
MSKN R/L 24-6E	1.500	1.500	7.000	1.500	2.000	SN..64..	02456 ¹⁾	02456 ¹⁾

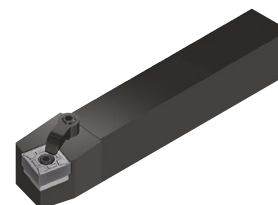
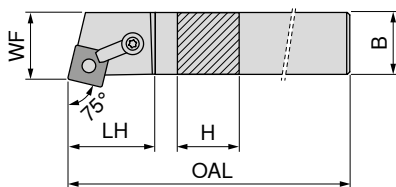
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide support S
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 532 01224 / 78 533 01224	00400	06900	03100	03800	04300
78 532 01644 / 78 533 01644	00400	06900	03100	03800	04300
78 532 01645 / 78 533 01645	00300	08100	03200	03900	01600
78 532 08545 / 78 533 08545	00300	08100	03200	03900	01600
78 532 02045 / 78 533 02045	00300	08100	03200	03900	01600
78 532 02046 / 78 533 02046	00300	08100	03300	03900	01700
78 532 02456 / 78 533 02456	00300	08100	03300	03900	01700

MaxiLock-M – MSRN 75° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 535 ...	78 534 ...
MSRN R/L 12-4B	0.750	0.750	4.500	1.250	0.880	SN..43..	01224 ¹⁾	01224 ¹⁾
MSRN R/L 16-4D	1.000	1.000	6.000	1.250	1.130	SN..43..	01644 ¹⁾	01644 ¹⁾
MSRN R/L 16-5D	1.000	1.000	6.000	1.500	1.103	SN..54..	01645 ¹⁾	01645 ¹⁾
MSRN R/L 20-5D	1.250	1.250	6.000	1.500	1.353	SN..54..	02045 ¹⁾	02045 ¹⁾
MSRN R/L 20-6D	1.250	1.250	6.000	1.590	1.321	SN..64..	02046 ¹⁾	02046 ¹⁾
MSRN R/L 24-6E	1.500	1.500	7.000	1.590	1.821	SN..64..	02456 ¹⁾	02456 ¹⁾

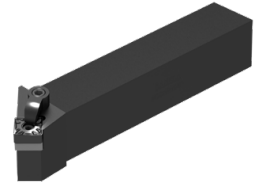
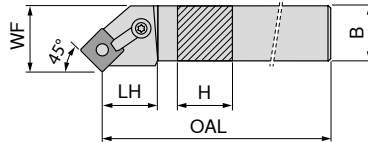
1) Not in stock

	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide support S
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
Spare parts for Article no.					
78 534 01224 / 78 535 01224	00400	06900	03100	03800	04300
78 534 01644 / 78 535 01644	00400	06900	03100	03800	04300
78 534 01645 / 78 535 01645	00300	08100	03200	03900	01600
78 534 02045 / 78 535 02045	00300	08100	03200	03900	01600
78 534 02046 / 78 535 02046	00300	08100	03300	03900	01700
78 534 02456 / 78 535 02456	00300	08100	03300	03900	01700

MaxiLock-M – MSSN 45° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H	B	OAL	LH	WF	Insert
	inch	inch	inch	inch	inch	
MSSN R/L 12-4B	0.750	0.750	4.500	1.230	0.675	SN..43..
MSSN R/L 16-4D	1.000	1.000	6.000	1.230	0.925	SN..43..
MSSN R/L 16-5D	1.000	1.000	6.000	1.380	0.847	SN..54..
MSSN R/L 20-5D	1.250	1.250	6.000	1.380	1.097	SN..54..
MSSN R/L 20-6D	1.250	1.250	6.000	1.470	1.010	SN..64..
MSSN R/L 24-6E	1.500	1.500	7.000	1.470	1.511	SN..64..
MSSN R/L 86-6E	1.500	1.000	7.000	1.470	0.761	SN..64..

Left-hand	Right-hand
78 537 ...	78 536 ...
01224 ¹⁾	01224 ¹⁾
01644 ¹⁾	01644 ¹⁾
01645 ¹⁾	01645 ¹⁾
02045 ¹⁾	02045 ¹⁾
02046 ¹⁾	02046 ¹⁾
02456 ¹⁾	02456 ¹⁾
08656 ¹⁾	08656 ¹⁾

1) Not in stock

Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide support S
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
00400	06900	03100	03800	04300
00400	06900	03100	03800	04300
00300	08100	03200	03900	01600
00300	08100	03200	03900	01600
00300	08100	03300	03900	01700
00300	08100	03300	03900	01700
00300	08100	03300	03900	01700

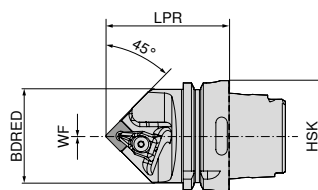
Spare parts
for Article no.

78 536 01224 / 78 537 01224
78 536 01644 / 78 537 01644
78 536 01645 / 78 537 01645
78 536 02045 / 78 537 02045
78 536 02046 / 78 537 02046
78 536 02456 / 78 537 02456
78 536 08656 / 78 537 08656

MaxiLock-D – DSDN 45° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Designation	Adapter	LPR	BDRED	WF	torque moment	Insert
		mm	mm	mm	Nm	
HSK T63 DSDN N 12	HSK-T 63	70	53	0	4	SN.. 1204
HSK T63 DSDN N 15	HSK-T 63	75	53	0	4	SN.. 1506
HSK T100 DSDN N 12	HSK-T 100	80	88	0	4	SN.. 1204
HSK T100 DSDN N 19	HSK-T 100	85	88	0	8	SN.. 1906

Neutral
74 522 ...

Spare parts

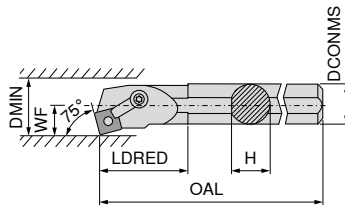
74 522 515
74 522 512 / 74 522 712
74 522 719

XPress type	Screwdriver	Clamping screw	Solid Carbide support S
70 950 ...	80 950 ...	70 950 ...	70 950 ...
825	T20 - IP	129	M5x14 - IP
824	T15 - IP	128	M4.5x12 - IP
826	T20 - IP	129	M5x14 - IP
		821	
		820	
		821	
			833
			813
			817

MaxiLock-M – MSKN 75° – Boring bar with top clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:
Tool holder with allen key



Illustrations show right-hand versions








Designation	H inch	OAL inch	LDRED inch	WF inch	Insert
S20U MSKN R/L 4	1.180	14.000	3.000	0.765	SN..43..
S24U MSKN R/L 4	1.370	14.000	3.000	0.890	SN..43..
S32V MSKN R/L 5	1.870	16.000	4.000	1.281	SN..54..
S32V MSKN R/L 6	1.870	16.000	4.000	1.281	SN..64..
S40V MSKN R/L 6	2.380	16.000	4.000	1.531	SN..64..

1) Not in stock

Left-hand 78 709 ...	Right-hand 78 708 ...
42030 ¹⁾	42030 ¹⁾
42434 ¹⁾	42434 ¹⁾
53242 ¹⁾	53242 ¹⁾
63242 ¹⁾	63242 ¹⁾
64050 ¹⁾	64050 ¹⁾

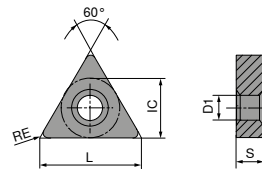
Spare parts

	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 708 53242 / 78 709 53242	00300	08100	03200	03900	01600
78 708 42030 / 78 709 42434	00400	06900	03100	03800	04300
78 708 63242 / 78 709 64050	00300	08100	03300	03900	01700

 Clamp 78 950 ...	 Key I 78 950 ...	 Dowel pin 78 950 ...	 Clamping screw 78 950 ...	 Solid Carbide support S 78 950 ...
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TNMG / TNMA / TNMM

Designation	L inch	S inch	D1 inch	IC inch
TNMG 22..	0.4331	0.1252	0.0890	0.2500
TNM. 33..	0.6496	0.1874	0.1500	0.3748
TNM. 43..	0.8661	0.1874	0.2032	0.5000



TNMG

		NEW		NEW		NEW		NEW		NEW	
		-CF20 CTEP110	-F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P	-M50 CTCP115-P	-M50 CTCP125-P	-M50 CTCP125-P	-M50 CTCP135-P		
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN		
		F	F	F	F	M	M	M	M		
		CERMET TNMG	TNMG	TNMG	TNMG	TNMG	TNMG	TNMG	TNMG		
		76 149 ...	76 146 ...	76 146 ...	76 146 ...	76 138 ...	76 138 ...	76 138 ...	76 138 ...		
ANSI	RE inch										
221EN	0.0157		30401	50401	70401						
222EN	0.0315		30601	50601	70601						
331EN	0.0157	016	31601	51601	71601	31601	51601	71601			
332EN	0.0315	018	31801	51801	71801	31801	51801	71801			
333EN	0.0472	020	32001	52001	72001	32001	52001	72001			
432EN	0.0315					33001	53001	73001			
433EN	0.0472					33201	53201	73201			
P		●	●	●	●	●	●	●	●	●	●
M		○			○						○
K		○	○	○			○	○			
N											
S											
H											
O											

TNMG

				NEW		NEW		NEW		NEW		NEW			
		-M70		-M70		-M70		-M70		-M70		-M70			
		CTCK110		CTCK120		CTCP115-P		CTCP125-P		CTCP135-P		CTCP125-P		CTCP135-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		M		M		M		M		M		M		M	
		TNMG		TNMG		TNMG		TNMG		TNMG		TNMG		TNMG	
		70 155 ...		70 155 ...		76 155 ...		76 155 ...		76 155 ...		76 142 ...		76 142 ...	
ANSI	RE inch														
331ER	0.0157											51601		71601	
332EL	0.0315											51801			
332EN	0.0315	018		518		31801		51801		71801					
332ER	0.0315											51701		71801	
333EN	0.0472	020		520		32001		52001		72001					
431EN	0.0157							52801							
432EN	0.0315	030		530		33001		53001		73001					
433EN	0.0472	032		532		33201		53201		73201					
434EN	0.0630	034		534		33401		53401		73401					
P		○		○		●		●		●		●		●	
M										○				○	
K		●		●		○		○		○		○		○	
N															
S															
H															
O															

9

TNMA / TNMM

				NEW		NEW		NEW		NEW		NEW			
		CTCK110		CTCK120		-R28		-R28		-R28		-R58		-R58	
		CTCK110		CTCK120		CTCP115-P		CTCP125-P		CTCP135-P		CTCP115-P		CTCP125-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		R		M		R		R		R		R		R	
		TNMA		TNMA		TNMM		TNMM		TNMM		TNMM		TNMM	
		70 134 ...		70 134 ...		76 154 ...		76 154 ...		76 154 ...		76 152 ...		76 152 ...	
ANSI	RE inch														
332EN	0.0315	018		518											
333EN	0.0472	020		520											
334EN	0.0630	022		522											
432EN	0.0315	030		530											
433EN	0.0472	032		532								33201		53201	
434EN	0.0630	034		534		33401		53401		73401					
P		○		○		●		●		●		●		●	
M										○					
K		●		●		○		○		○		○		○	
N															
S															
H															
O															

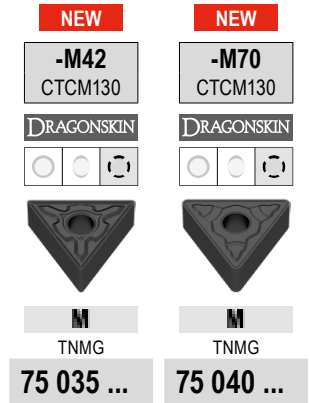
TNMM / TNMG

		NEW						
		-R58 CTCP135-P	-F30 CTCM120	-F30 CTPM125	-F30 CTCM130	-M30 CTCM120	-M30 CTPM125	-M30 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		R TNMM	F TNMG	F TNMG	F TNMG	M TNMG	M TNMG	M TNMG
		76 152 ...	75 019 ...	75 019 ...	75 019 ...	75 020 ...	75 020 ...	75 020 ...
ANSI	RE inch							
331EN	0.0157							
332EN	0.0315		11600	216	31600	11800	218	31800
333EN	0.0472		11800	218	31800	12000	220	32000
433EN	0.0472	73201						
P		●	○	○	○	○	○	○
M		○	●	●	●	●	●	●
K								
N								
S					○			○
H								
O								

TNMG

		-M60 CTCM120	-M60 CTPM125	-M60 CTCM130	-M34 CTPX710
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M TNMG	M TNMG	M TNMG	M TNMG
		75 021 ...	75 021 ...	75 021 ...	75 006 ...
ANSI	RE inch				
332EN	0.0315				
333EN	0.0472		11800	218	31800
			12000	220	32000
431EN	0.0157				62800
432EN	0.0315				63000
434EN	0.0630				63400
P			○	○	○
M		●	●	●	●
K					
N					○
S				○	●
H					
O					

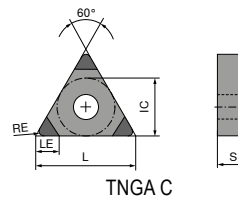
TNMG



ANSI	RE inch	75 035 ...	75 040 ...
331EN	0.0157	31600	
332EN	0.0315	31800	31800
333EN	0.0472		32000
433EN	0.0472		33200
P		○	○
M		●	●
K			
N			
S		○	○
H			
O			

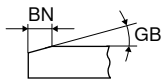
TNGA

Designation	L inch	S inch	D1 inch	IC inch
TNGA 331E..	0.6496	0.1874	0.150	0.3748
TNGA 331S..	0.6496	0.1874	0.150	0.3748
TNGA 332E..	0.6496	0.1874	0.150	0.3748
TNGA 332S..	0.6496	0.1874	0.150	0.3748
TNGA 333E..	0.6496	0.1874	0.150	0.3748
TNGA 333S..	0.6496	0.1874	0.150	0.3748



TNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



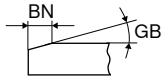
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN TNGA	PCBN TNGA	PCBN TNGA
71 040 ...	71 040 ...	71 040 ...
70002	80002	90002
70302	80302	90302
70602	80602	90602

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
331EN	0.0157			C (3)	0.1417
331SN	0.0157	0.0055	20°	C (3)	0.1417
332EN	0.0315			C (3)	0.1299
332SN	0.0315	0.0055	20°	C (3)	0.1299
333EN	0.0472			C (3)	0.1181
333SN	0.0472	0.0055	20°	C (3)	0.1181

P
M
K
N
S
H
O

TNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN TNGA	PCBN TNGA	PCBN TNGA
71 040 ...	71 040 ...	71 040 ...
70102	80102	90102
70402	80402	90402
70702	80702	90702

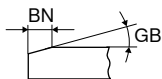
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
331SN	0.0157	0.0035	15°	C (3)	0.1417
331SN	0.0157	0.0071	25°	C (3)	0.1417
332SN	0.0315	0.0035	15°	C (3)	0.1299
332SN	0.0315	0.0071	25°	C (3)	0.1299
333SN	0.0472	0.0035	15°	C (3)	0.1181
333SN	0.0472	0.0071	25°	C (3)	0.1181

P
M
K
N
S
H
O

9

TNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN TNGA	PCBN TNGA	PCBN TNGA
71 040 ...	71 040 ...	71 040 ...
70202	80202	90202
70502	80502	90502
70802	80802	90802

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
331SN	0.0157	0.0055	20°	C (3)	0.1417
331SN	0.0157	0.0079	35°	C (3)	0.1417
332SN	0.0315	0.0055	20°	C (3)	0.1299
332SN	0.0315	0.0079	35°	C (3)	0.1299
333SN	0.0472	0.0055	20°	C (3)	0.1181
333SN	0.0472	0.0079	35°	C (3)	0.1181

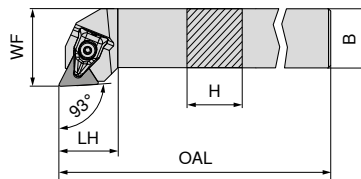
P
M
K
N
S
H
O

MaxiLock-D – DTJN 93° – Toolholder with top clamping

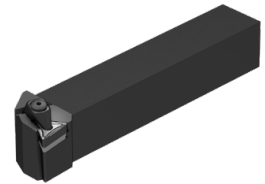
- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key

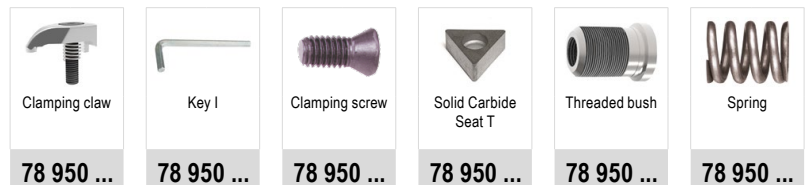


Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 511 ...	78 510 ...
DTJN R/L 12-3BA-N	0.750	0.750	4.500	1.250	1.000	TN..33..	01276	01276
DTJN R/L 16-3DA-N	1.000	1.000	6.000	1.250	1.250	TN..33..	01698 ¹⁾	01698 ¹⁾
DTJN R/L 16-4DA-N	1.000	1.000	6.000	1.380	1.250	TN..43..	01690 ¹⁾	01690 ¹⁾
DTJN R/L 20-4DA-N	1.250	1.250	6.000	1.250	1.500	TN..43..	02090	02090
DTJN R/L 24-4EA-N	1.500	1.500	7.000	1.380	2.000	TN..43..	02487 ¹⁾	02487 ¹⁾

1) Not in stock



Spare parts for Article no.

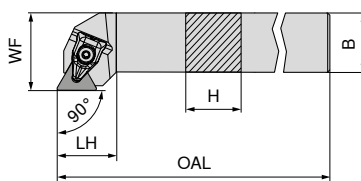
Article no.	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 510 01698 / 78 511 01698	07500	08100	07900	07400	08400	08000
78 510 01690 / 78 511 01690	07600	08100	08300	01900	08500	04900
78 510 02090 / 78 511 02090	07600	08100	08300	01900	08500	04900
78 510 02487 / 78 511 02487	07600	08100	08300	01900	08500	04900

MaxiLock-D – DTGN 90° – Toolholder with top clamping

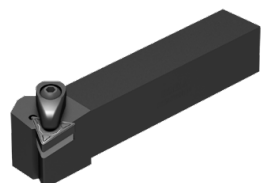
- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 509 ...	78 508 ...
DTGN R/L 12-3B-N	0.750	0.750	4.500	1.100	1.000	TN..33..	01299	01299
DTGN R/L 16-3D-N	1.000	1.000	6.000	1.100	1.250	TN..33..	01697	01697
DTGN R/L 16-4D-N	1.000	1.000	6.000	1.338	1.250	TN..43..	01689	01689
DTGN R/L 20-4D-N	1.250	1.250	6.000	1.338	1.500	TN..43..	02089	02089

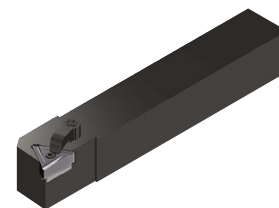
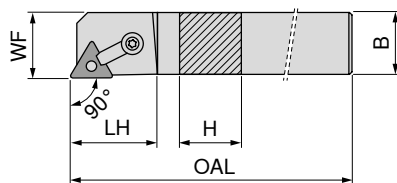
Spare parts for Article no.

Article no.	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 508 01299 / 78 509 01299	07500	08100	07900	07400	08400	08000
78 508 01697 / 78 509 01697	07500	08100	07900	07400	08400	08000
78 508 01689 / 78 509 01689	07600	08100	08300	01900	08500	04900
78 508 02089 / 78 509 02089	07600	08100	08300	01900	08500	04900

MaxiLock-M – MTAN 90° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



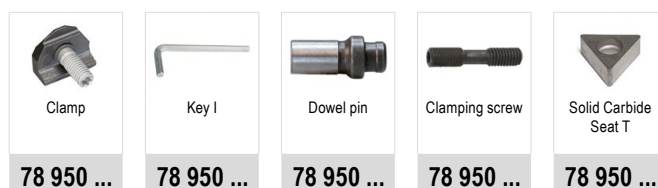
Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 539 ...	78 538 ...
MTAN R/L 08-2A	0.500	0.500	4.000	0.875	0.500	TN..22..	00812 ¹⁾	00812 ¹⁾
MTAN R/L 12-3B	0.750	0.750	4.500	1.060	0.750	TN..33..	01223 ¹⁾	01223 ¹⁾
MTAN R/L 16-3D	1.000	1.000	6.000	1.060	1.000	TN..33..	01643 ¹⁾	01643 ¹⁾
MTAN R/L 16-4D	1.000	1.000	6.000	1.220	1.000	TN..43..	01644 ¹⁾	01644 ¹⁾

1) Not in stock

Spare parts
for Article no.

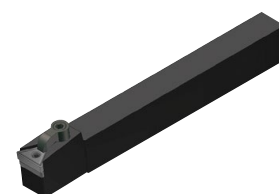
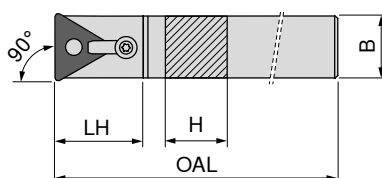
Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 538 00812 / 78 539 00812	00700	07000		05000	
78 538 01223 / 78 539 01223	00400	06900	02900	03800	01800
78 538 01643 / 78 539 01643	00400	06900	02900	03800	01800
78 538 01644 / 78 539 01644	00400	06900	03100	03800	01900



MaxiLock-M – MTCN 90° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key

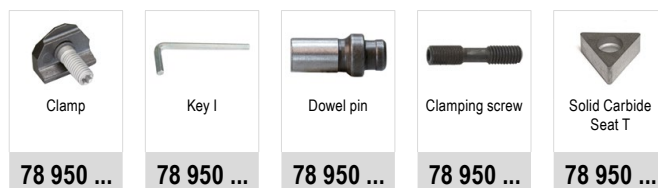


Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Neutral
							78 578 ...
MTCN N 44-3F	1.000	0.500	8.000	1.000	0.325	TN..33..	04463 ¹⁾
MTCN N 12-4B	0.750	0.750	4.500	1.380	0.433	TN..43..	01224 ¹⁾
MTCN N 64-4F	1.000	0.750	8.000	1.380	0.433	TN..43..	06464 ¹⁾
MTCN N 66-4F	1.500	0.750	8.000	1.380	0.433	TN..43..	06664 ¹⁾

1) Not in stock

Spare parts
for Article no.

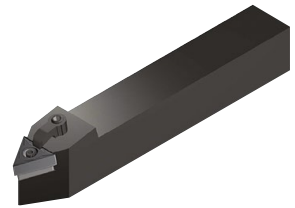
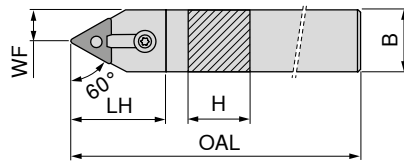
Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 578 04463	00400	06800	02900	04000	01800
78 578 01224	00400	07000	03100	03800	01900
78 578 06464	00300	07000	03100	03900	01900
78 578 06664	00300	07000	03100	03900	01900



MaxiLock-M – MTEN 60° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Neutral
78 580 ...
00812 ¹⁾
01023 ¹⁾
01223 ¹⁾
01643 ¹⁾
01644 ¹⁾

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
MTEN NS 08-2A	0.500	0.500	4.000	1.000	0.250	TN..22..
MTEN NS 10-3B	0.625	0.625	4.500	1.130	0.313	TN..33..
MTEN NS 12-3B	0.750	0.750	4.500	1.300	0.375	TN..33..
MTEN NS 16-3D	1.000	1.000	6.000	1.300	0.500	TN..33..
MTEN NS 16-4D	1.000	1.000	6.000	1.500	0.500	TN..43..

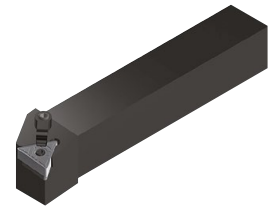
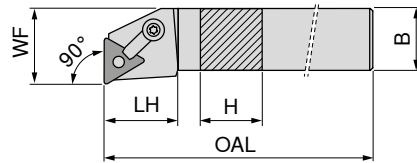
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 580 00812	00700	07000		05000	
78 580 01023	00600	06800	02900	03600	01800
78 580 01223	00400	06800	02900	03800	01800
78 580 01643	00400	06800	02900	03800	01800
78 580 01644	00400	07000	03100	03800	01900

MaxiLock-M – MTFN 90° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 541 ...	78 540 ...
MTFN R/L 12-3B	0.750	0.750	4.500	1.000	1.000	TN..33..	01223 ¹⁾	01223 ¹⁾
MTFN R/L 16-3D	1.000	1.000	6.000	1.250	1.250	TN..33..	01643 ¹⁾	01643 ¹⁾
MTFN R/L 16-4D	1.000	1.000	6.000	1.250	1.250	TN..43..	01644 ¹⁾	01644 ¹⁾
MTFN R/L 20-4D	1.250	1.250	6.000	1.500	1.500	TN..43..	02044 ¹⁾	02044 ¹⁾
MTFN R/L 85-4D	1.250	1.000	6.000	1.250	1.250	TN..43..	08544 ¹⁾	08544 ¹⁾
MTFN R/L 86-4D	1.500	1.000	6.000	1.250	1.250	TN..43..	08644 ¹⁾	08644 ¹⁾

1) Not in stock

Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...

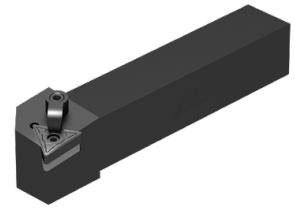
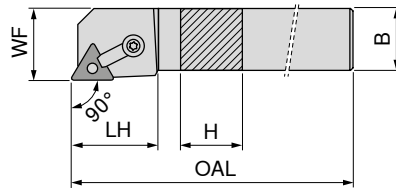
**Spare parts
for Article no.**

78 540 01223 / 78 541 01223	00400	06800	02900	03800	01800
78 540 01643 / 78 541 01643	00400	06800	02900	03800	01800
78 540 01644 / 78 541 01644	00400	07000	03100	03800	01900
78 540 02044 / 78 541 02044	00400	07000	03100	03800	01900
78 540 08544 / 78 541 08544	00400	07000	03100	03800	01900
78 540 08644 / 78 541 08644	00400	07000	03100	03800	01900

MaxiLock-M – MTGN 90° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand		Right-hand	
							78 543 ...	78 542 ...	78 543 ...	78 542 ...
MTGN R/L 08-2A	0.500	0.500	4.000	0.875	0.625	TN..22..	00812 ¹⁾	00812 ¹⁾	00812 ¹⁾	00812 ¹⁾
MTGN R/L 10-3B	0.625	0.625	4.500	1.000	0.875	TN..33..	01023 ¹⁾	01023 ¹⁾	01023 ¹⁾	01023 ¹⁾
MTGN R/L 12-3B	0.750	0.750	4.500	1.060	1.000	TN..33..	01223 ¹⁾	01223 ¹⁾	01223 ¹⁾	01223 ¹⁾
MTGN R/L 16-3D	1.000	1.000	6.000	1.060	1.250	TN..33..	01643 ¹⁾	01643 ¹⁾	01643 ¹⁾	01643 ¹⁾
MTGN R/L 16-4D	1.000	1.000	6.000	1.220	1.250	TN..43..	01644 ¹⁾	01644 ¹⁾	01644 ¹⁾	01644 ¹⁾
MTGN R/L 20-4D	1.250	1.250	6.000	1.220	1.500	TN..43..	02044 ¹⁾	02044 ¹⁾	02044 ¹⁾	02044 ¹⁾
MTGN R/L 85-4D	1.250	1.000	6.000	1.220	1.250	TN..43..	08544 ¹⁾	08544 ¹⁾	08544 ¹⁾	08544 ¹⁾
MTGN R/L 86-4D	1.500	1.000	6.000	1.220	1.250	TN..43..	08644 ¹⁾	08644 ¹⁾	08644 ¹⁾	08644 ¹⁾

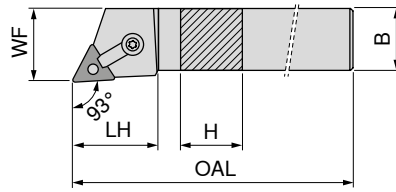
1) Not in stock

Spare parts for Article no.	78 950 ...				
	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 542 00812 / 78 543 00812	00700	07000		05000	
78 542 01023 / 78 543 01023	00400	06800	02900	03800	01800
78 542 01223 / 78 543 01223	00400	06800	02900	03800	01800
78 542 01643 / 78 543 01643	00400	06800	02900	03800	01800
78 542 01644 / 78 543 01644	00400	07000	03100	03800	01900
78 542 02044 / 78 543 02044	00400	07000	03100	03800	01900
78 542 08544 / 78 543 08544	00400	07000	03100	03800	01900
78 542 08644 / 78 543 08644	00400	07000	03100	03800	01900

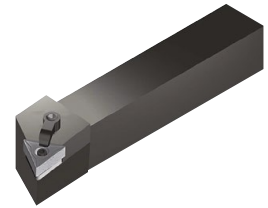
MaxiLock-M – MTJN 93° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions








Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 545 ...	78 544 ...
MTJN R/L 12-3B	0.750	0.750	4.500	1.030	1.000	TN..33..	01223 ¹⁾	01223 ¹⁾
MTJN R/L 16-3D	1.000	1.000	6.000	1.030	1.250	TN..33..	01643 ¹⁾	01643 ¹⁾
MTJN R/L 16-4D	1.000	1.000	6.000	1.250	1.250	TN..43..	01644 ¹⁾	01644 ¹⁾
MTJN R/L 20-4D	1.250	1.250	6.000	1.250	1.500	TN..43..	02044 ¹⁾	02044 ¹⁾

1) Not in stock

**Spare parts
for Article no.**

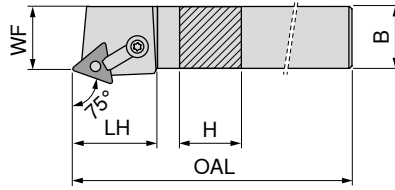
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 544 01223 / 78 545 01223	00400	06800	02900	03800	01800
78 544 01643 / 78 545 01643	00400	06800	02900	03800	01800
78 544 01644 / 78 545 01644	00400	07000	03100	03800	01900
78 544 02044 / 78 545 02044	00400	07000	03100	03800	01900

				
Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...

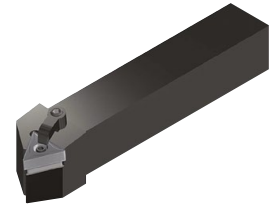
MaxiLock-M – MTRN 75° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 547 ...	78 546 ...
MTRN R/L 12-3B	0.750	0.750	4.500	1.160	0.855	TN..33..	01223 ¹⁾	01223 ¹⁾
MTRN R/L 16-3D	1.000	1.000	6.000	1.160	1.105	TN..33..	01643 ¹⁾	01643 ¹⁾
MTRN R/L 16-4D	1.000	1.000	6.000	1.380	1.048	TN..43..	01644 ¹⁾	01644 ¹⁾
MTRN R/L 20-4D	1.250	1.250	6.000	1.380	1.298	TN..43..	02044 ¹⁾	02044 ¹⁾

1) Not in stock

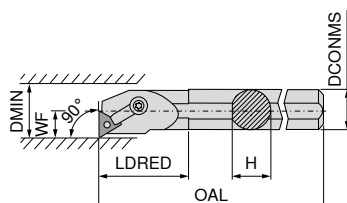
Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
78 546 01223 / 78 547 01223	00400	06800	02900	03800	01800
78 546 01643 / 78 547 01643	00400	06800	02900	03800	01800
78 546 01644 / 78 547 01644	00400	07000	03100	03800	01900
78 546 02044 / 78 547 02044	00400	07000	03100	03800	01900

MaxiLock-M – MTFN 90° – Boring bar with top clamping

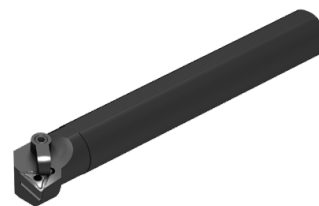
▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	DCONMS	H	OAL	LDRED	WF	DMIN	Insert	Left-hand		Right-hand	
								78 711 ...	78 710 ...	78 711 ...	78 710 ...
A16T MTFN R/L 3	1.000	0.900	12.000	2.500	0.640	1.280	TN..33..	31616		31616	
S16T MTFN R/L 3	1.000	0.900	12.000	2.500	0.640	1.280	TN..33..	31626 ¹⁾		31626 ¹⁾	
A20U MTFN R/L 3	1.250	1.180	14.000	3.000	0.765	1.530	TN..33..	32020 ¹⁾		32020 ¹⁾	
S20U MTFN R/L 3	1.250	1.180	14.000	3.000	0.765	1.530	TN..33..	32030 ¹⁾		32030 ¹⁾	
S24U MTFN R/L 3	1.500	1.370	14.000	3.000	0.890	1.780	TN..33..	32434 ¹⁾		32434 ¹⁾	
S20U MTFN R/L 4	1.250	1.180	14.000	3.000	0.765	1.530	TN..43..	42030 ¹⁾		42030 ¹⁾	
S24U MTFN R/L 4	1.500	1.370	14.000	3.000	0.890	1.780	TN..43..	42434 ¹⁾		42434 ¹⁾	
A24U MTFN R/L 4	1.500	1.370	14.000	3.000	0.890	1.780	TN..43..	42424 ¹⁾		42424 ¹⁾	
S28U MTFN R/L 4	1.750	1.630	14.000	4.000	1.015	2.030	TN..43..	42838 ¹⁾		42838 ¹⁾	
A28U MTFN R/L 4	1.750	1.630	14.000	4.000	1.015	2.030	TN..43..	42828 ¹⁾		42828 ¹⁾	
A32V MTFN L 4	2.000	1.870	16.000	4.000	1.281	2.562	TN..43..	43233 ¹⁾			
S32V MTFN R/L 4	2.000	1.870	16.000	4.000	1.281	2.562	TN..43..	43242 ¹⁾		43242 ¹⁾	
S40V MTFN R/L 4	2.500	2.380	16.000	4.000	1.531	3.062	TN..43..	44050 ¹⁾		44050 ¹⁾	

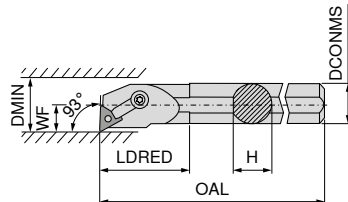
1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat T
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 710 31616 / 78 711 31616	00400	06800		03700	
78 710 31626 / 78 711 31626	00400	06800		03700	
78 710 32020 / 78 711 32020	00400	06800	02900	03800	01800
78 710 32030 / 78 711 32030	00400	06800	02900	03800	01800
78 710 32434 / 78 711 32434	00400	06800	02900	03800	01800
78 710 42030 / 78 711 42030	00400	06900	03100	03800	01900
78 710 42434 / 78 711 42434	00400	06900	03100	03800	01900
78 710 42424 / 78 711 42424	00400	06900	03100	03800	01900
78 710 42838 / 78 711 42838	00400	06900	03100	03800	01900
78 710 42828 / 78 711 42828	00400	06900	03100	03800	01900
78 711 43233	00400	06900	03100	03800	01900
78 710 43242 / 78 711 43242	00400	06900	03100	03800	01900
78 710 44050 / 78 711 44050	00400	06900	03100	03800	01900

MaxiLock-M – MTUN 93° – Boring bar with top clamping

- ▲ A... = with thru coolant
- ▲ S... = without thru coolant

Scope of supply:
Tool holder with allen key



Illustrations show right-hand versions



Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand	Right-hand
								78 713 ...	78 712 ...
S16T MTUN R/L 3	1.000	0.900	12.000	2.500	0.640	1.280	TN..33..	31626 ¹⁾	31626 ¹⁾
S24U MTUN R/L 4	1.500	1.370	14.000	3.000	0.890	1.780	TN..43..	42434 ¹⁾	42434

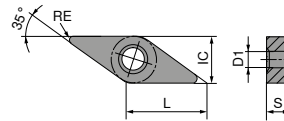
1) Not in stock

Image	Part Name	Article No.
	Clamp	78 950 ...
	Key I	78 950 ...
	Dowel pin	78 950 ...
	Clamping screw	78 950 ...

Spare parts for Article no.	00400	06800	03100	03700
78 712 31626 / 78 713 31626	00400	06800		03700
78 712 42434 / 78 713 42434	00400	06900	03100	03800

VNMG

Designation	L inch	S inch	D1 inch	IC inch
VNMG 33..	0.6535	0.1874	0.150	0.3748



VNMG

		NEW	NEW	NEW	NEW	NEW	NEW	NEW
		-F40 CTCP125-P	-F50 CTCP115-P	-F50 CTCP125-P	-F50 CTCP135-P	-XU CTCP115-P	-XU CTCP125-P	-M40 CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F VNMG	F VNMG	F VNMG	F VNMG	M VNMG	M VNMG	M VNMG
		76 000 ...	76 156 ...	76 156 ...	76 156 ...	76 294 ...	76 294 ...	76 001 ...
ANSI	RE inch							
331EN	0.0157	51601	31601	51601	71601	31601	51601	51601
332EN	0.0315	51801	31801	51801	71801	31801	51801	51801
P		●	●	●	●	●	●	●
M					○			
K		○	○	○		○	○	○
N								
S								
H								
O								

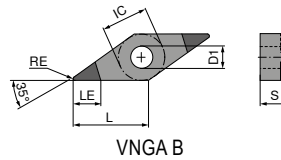
9

VNMG

		NEW	NEW	NEW	NEW	NEW	NEW	NEW
		-M50 CTCK110	-M50 CTCK120	-M50 CTCP115-P	-M50 CTCP125-P	-F30 CTCM120	-F30 CTPM125	-F30 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M VNMG	M VNMG	M VNMG	M VNMG	F VNMG	F VNMG	F VNMG
		70 190 ...	70 131 ...	76 131 ...	76 131 ...	75 022 ...	75 022 ...	75 022 ...
ANSI	RE inch							
331EN	0.0157			31601	51601	11600	216	31600
332EN	0.0315		518	31801	51801	11800	218	31800
333EN	0.0472	01200	520	32001	52001			
P		○	○	●	●	○	○	○
M						●	●	●
K		●	●	○	○			
N								
S								○
H								
O								

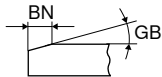
VNGA

Designation	L inch	S inch	D1 inch	IC inch
VNGA 331E..	0.6535	0.1874	0.150	0.3748
VNGA 331S..	0.6535	0.1874	0.150	0.3748
VNGA 332E..	0.6535	0.1874	0.150	0.3748
VNGA 332S..	0.6535	0.1874	0.150	0.3748



VNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F PCBN VNGA	F PCBN VNGA	F PCBN VNGA
71 042 ...	71 042 ...	71 042 ...
70002	80002	90002
70302	80302	90302

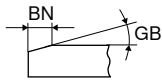
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
331EN	0.0157			B (2)	0.2008
331SN	0.0157	0.0055	20°	B (2)	0.2008
332EN	0.0315			B (2)	0.1654
332SN	0.0315	0.0055	20°	B (2)	0.1654

P			
M			
K			
N			
S			
H			
O			

9

VNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



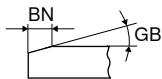
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN VNGA	PCBN VNGA	PCBN VNGA
71 042 ...	71 042 ...	71 042 ...
70102	80102	90102
70402	80402	90402

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
331SN	0.0157	0.0035	15°	B (2)	0.2008
331SN	0.0157	0.0071	25°	B (2)	0.2008
332SN	0.0315	0.0035	15°	B (2)	0.1654
332SN	0.0315	0.0071	25°	B (2)	0.1654

P
M
K
N
S
H
O

VNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN VNGA	PCBN VNGA	PCBN VNGA
71 042 ...	71 042 ...	71 042 ...
70202	80202	90202
70502	80502	90502

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
331SN	0.0157	0.0055	20°	B (2)	0.2008
331SN	0.0157	0.0079	35°	B (2)	0.2008
332SN	0.0315	0.0055	20°	B (2)	0.1654
332SN	0.0315	0.0079	35°	B (2)	0.1654

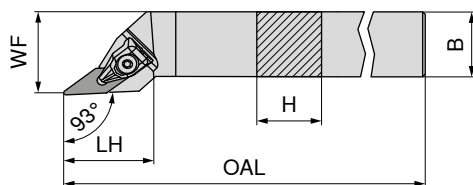
P
M
K
N
S
H
O

MaxiLock-D – DVJN 93° – Toolholder with top clamping

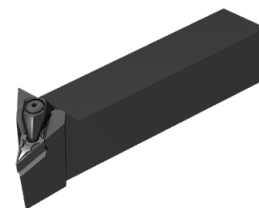
▲ ...A-N = with thru coolant
▲ ...N = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 513 ...	78 512 ...
DVJN R/L 12-3BA-N	0.750	0.750	4.500	1.750	1.000	VN..33..	01276	01276
DVJN R/L 16-3DA-N	1.000	1.000	6.000	1.750	1.250	VN..33..	01698	01698
DVJN R/L 20-3DA-N	1.250	1.250	6.000	1.750	1.500	VN..33..	02098	02098
DVJN R/L 24-3EA-N	1.500	1.500	7.000	1.750	2.000	VN..33..	02495 ¹⁾	02495 ¹⁾

1) Not in stock

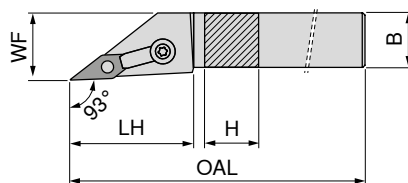
Spare parts for Article no.	Clamping claw 78 950 ...	Key I 78 950 ...	Clamping screw 78 950 ...	Solid Carbide Seat V 78 950 ...	Threaded bush 78 950 ...	Spring 78 950 ...
78 512 02098 / 78 513 02098	07500	08100	07900	02200	08400	08000
78 512 02495 / 78 513 02495	07500	08100	07900	02200	08400	08000

9

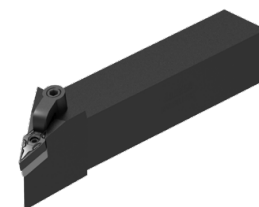
MaxiLock-M – MVJN 93° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 549 ...	78 548 ...
MVJN R/L 12-3B	0.750	0.750	4.500	1.620	1.000	VN..33..	01223 ¹⁾	01223 ¹⁾
MVJN R/L 16-3D	1.000	1.000	6.000	1.620	1.250	VN..33..	01643 ¹⁾	01643 ¹⁾
MVJN R/L 20-3D	1.250	1.250	6.000	1.620	1.500	VN..33..	02043 ¹⁾	02043 ¹⁾

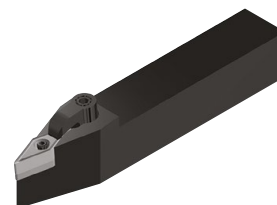
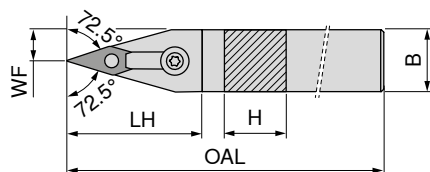
1) Not in stock

Spare parts for Article no.	Clamp 78 950 ...	Key I 78 950 ...	Dowel pin 78 950 ...	Clamping screw 78 950 ...	Solid Carbide Seat V 78 950 ...
78 548 01223 / 78 549 01223	09000	06800	02900	03800	02200
78 548 01643 / 78 549 01643	09000	06800	02900	03800	02200
78 548 02043 / 78 549 02043	09000	06800	02900	03800	02200

MaxiLock-M – MVVN 72.5° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Neutral

78 581 ...

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	
MVVN N 12-3B	0.750	0.750	4.500	1.620	0.375	VN..33..	01223 ¹⁾
MVVN N 16-3B	1.000	1.000	4.500	1.620	0.500	VN..33..	01623 ¹⁾
MVVN N 20-3D	1.250	1.250	6.000	1.620	0.625	VN..33..	02043 ¹⁾
MVVN N 24-3E	1.500	1.500	7.000	1.620	0.750	VN..33..	02453 ¹⁾

1) Not in stock

Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat V
78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
09000	06800	02900	03800	02200
09000	06800	02900	03800	02200
09000	06800	02900	03800	02200
09000	06800	02900	03800	02200

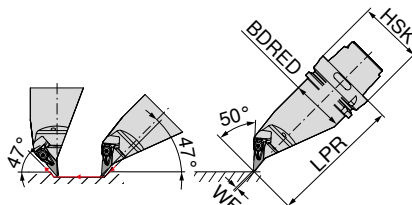
Spare parts
for Article no.

78 581 01223	09000	06800	02900	03800	02200
78 581 01623	09000	06800	02900	03800	02200
78 581 02043	09000	06800	02900	03800	02200
78 581 02453	09000	06800	02900	03800	02200

MaxiLock-D – DVMN 50° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Left-hand

74 525 ...

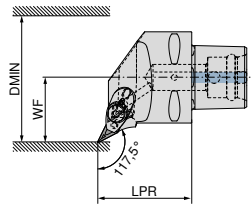
Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	
HSK T63 DVMN L 16	HSK-T 63	130	53	0	2	VN.. 1604	516
HSK T100 DVMN L 16	HSK-T 100	160	88	0	2	VN.. 1604	716

XPress type	Screwdriver	Clamping screw	Solid Carbide Seat V
70 950 ...	80 950 ...	70 950 ...	70 950 ...
835	126	819	806
T09 - IP	M3x7 - IP		

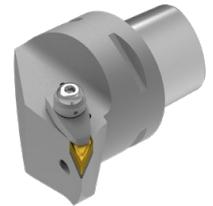
Spare parts

74 525 516 / 74 525 716

MaxiLock-D – DVPN 117.5° – Toolholder with top clamping



Illustrations show right-hand versions



Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand	Right-hand
							84 673 ...	84 672 ...
PSC40 DVPN R/L 50050-16	PSC 40	50	27	50	10	VN.. 1604	01695	01695
PSC50 DVPN R/L 65060-16	PSC 50	60	35	65	10	VN.. 1604	01694	01694
PSC63 DVPN R/L 80065-16	PSC 63	65	45	80	10	VN.. 1604	01693	01693

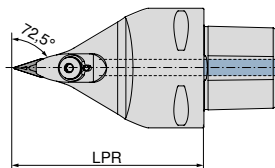
Spare parts

84 672 01693 / 84 673 01695	M6X28 SW4	28300	28500	28400	27600	28000
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84 950 ... 84 950 ... 84 950 ... 84 950 ... 84 950 ...

MaxiLock-D – DVVN 72.5° – Toolholder with top clamping



Designation	Adapter	LPR mm	torque moment Nm	Insert	Neutral
					84 679 ...
PSC63 DVVN N 0100-16	PSC 63	100	10	VN.. 1604	01693
PSC63 DVVN N 0130-16	PSC 63	130	10	VN.. 1604	11693

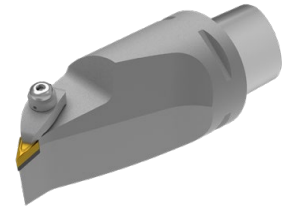
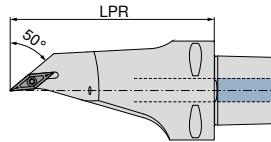
Spare parts

84 679 01693 / 84 679 11693	M6X28 SW4	28300	28500	28400	27600	28000
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84 950 ... 84 950 ... 84 950 ... 84 950 ... 84 950 ...

MaxiLock-D – DVMN 50° – Toolholder with top clamping



Neutral
84 682 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert
PSC63 DVMN L 0130-16	PSC 63	130	10	VN.. 1604

01693

Spare parts

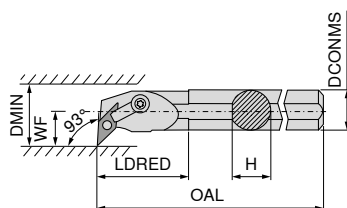
84 682 01693

Clamping Screw	Ring-shaped nozzle	Clamping screw	Solid Carbide Seat V
84 950 ...	84 950 ...	84 950 ...	84 950 ...
M6X28 SW4	28300	28400	27600

MaxiLock-M – MVUN 93° – Boring bar with top clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:
Tool holder with allen key



Illustrations show right-hand versions



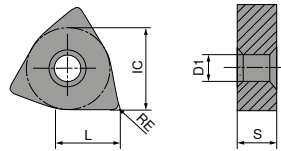
Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand 78 715 ...		Right-hand 78 714 ...	
A16T MVUN R/L 3	1.000	0.900	12.000	2.500	1.000	2.000	VN..33..	31616		31616	
S16T MVUN R/L 3	1.000	0.900	12.000	2.500	1.000	2.000	VN..33..	31626 ¹⁾		31626 ¹⁾	
A20U MVUN R/L 3	1.250	1.180	14.000	3.000	1.125	2.250	VN..33..	32020 ¹⁾		32020 ¹⁾	
S20U MVUN R/L 3	1.250	1.180	14.000	3.000	1.125	2.250	VN..33..	32030 ¹⁾		32030 ¹⁾	
S24U MVUN R/L 3	1.500	1.370	14.000	3.000	1.250	2.500	VN..33..	32434 ¹⁾		32434 ¹⁾	
A24U MVUN R/L 3	1.500	1.370	14.000	3.000	1.250	2.500	VN..33..	32424 ¹⁾		32424 ¹⁾	

1) Not in stock

Spare parts for Article no.	Clamp	Key I	Dowel pin	Clamping screw	Solid Carbide Seat V
	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 714 31616 / 78 715 31616	09000	06800	02900	03700	02200
78 714 31626 / 78 715 31626	09000	06800	02900	03700	02200
78 714 32020 / 78 715 32020	09000	06800	02900	03800	02200
78 714 32030 / 78 715 32030	09000	06800	02900	03800	02200
78 714 32434 / 78 715 32434	09000	06800	02900	03800	02200
78 714 32424 / 78 715 32424	09000	06800	02900	03800	02200

WNMG / WNMA

Designation	L inch	S inch	D1 inch	IC inch
WNMG 33..	0.2559	0.1874	0.1500	0.3748
WNM. 43..	0.3386	0.1874	0.2032	0.5000



WNMG

		-CF20 CTEP110		-TFQ CTEP110		NEW -F50 CTCP115-P		NEW -F50 CTCP125-P		NEW -F50 CTCP135-P		NEW -TFQ CTCP115-P		NEW -TFQ CTCP125-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		F		F		F		F		F		F		F	
		CERMET WNMG		CERMET WNMG		WNMG		WNMG		WNMG		WNMG		WNMG	
		76 171 ...		76 177 ...		76 157 ...		76 157 ...		76 157 ...		76 177 ...		76 177 ...	
ANSI	RE inch														
331EN	0.0157	004		006		30401		50401		70401		30401		51401	
332EN	0.0315	006		006		30601		50601		70601		30601		50601	
431EN	0.0157	018		016		31601		51601		71601		31801		51801	
432EN	0.0315	018		018		31801		51801		71801		31801		51801	
433EN	0.0472	018		018		32001		52001		72001		32001		52001	
P		●		●		●		●		●		●		●	
M		○		○						○					
K		○		○		○		○		○		○		○	
N															
S															
H															
O															

WNMG

		NEW		NEW		NEW		NEW		NEW	
		-XU	-XU	-M50	-M50	-M50	-M50	-M50	-M50	-M50	-M50
		CTCP115-P	CTCP125-P	CTCK110	CTCK120	CTCP115-P	CTCP125-P	CTCP115-P	CTCP125-P	CTCP115-P	CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M	M	M	M	M	M	M	M	M	M
		WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG
		76 295 ...	76 295 ...	70 139 ...	70 139 ...	76 139 ...	76 139 ...	76 139 ...	76 139 ...	76 139 ...	76 139 ...
ANSI	RE										
	inch										
331EN	0.0157							30401	50401		70401
332EN	0.0315							30601	50601		70601
333EN	0.0472							30801	50801		70801
431EN	0.0157	31601	51601			31601	51601				71601
432EN	0.0315	31801	51801	018	518	31801	51801				71801
433EN	0.0472	32001	52001	020	520	32001	52001				72001
434EN	0.0630					32201	52201				72201
P		●	●	○	○	●	●	○	○	●	●
M											○
K		○	○	●	●	○	○				
N											
S											
H											
O											

WNMG

		NEW		NEW		NEW		NEW		NEW	
		-TMQ	-TMQ	-M70	-M70	-M70	-M70	-M70	-M70	-M70	-M70
		CTCP115-P	CTCP125-P	CTCK110	CTCK120	CTCP115-P	CTCP125-P	CTCP115-P	CTCP125-P	CTCP115-P	CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M	M	M	M	M	M	M	M	M	M
		WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG	WNMG
		76 198 ...	76 198 ...	70 273 ...	70 273 ...	76 273 ...	76 273 ...	76 273 ...	76 273 ...	76 273 ...	76 273 ...
ANSI	RE										
	inch										
332EN	0.0315							30601	50601		70601
333EN	0.0472							30801	50801		70801
432EN	0.0315	31801	51801	018	518	31801	51801				71801
433EN	0.0472	32001	52001	020	520	32001	52001				72001
434EN	0.0630			022	522	32201	52201				72201
P		●	●	○	○	●	●	○	○	●	●
M											○
K		○	○	●	●	○	○				
N											
S											
H											
O											

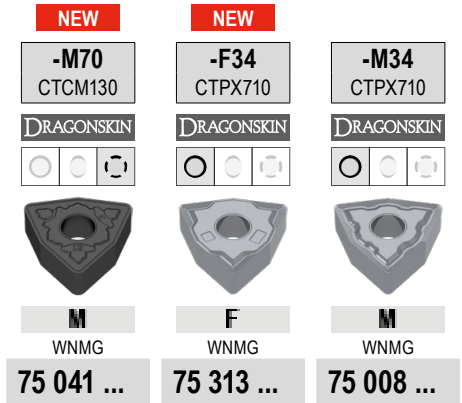
WNMA / WNMG

		CTCK110 DRAGONSKIN	CTCK120 DRAGONSKIN	-F30 CTCM120 DRAGONSKIN	-F30 CTPM125 DRAGONSKIN	-F30 CTCM130 DRAGONSKIN
		R WNMA	R WNMA	F WNMG	F WNMG	F WNMG
		70 169 ...	70 169 ...	75 024 ...	75 024 ...	75 024 ...
ANSI	RE inch					
331EN	0.0157			10400	204	30400
332EN	0.0315			10600	206	30600
431EN	0.0157			11600	216	31600
432EN	0.0315	018	518	11800	218	31800
433EN	0.0472	020	520			
434EN	0.0630	022	522			
P		○	○	○	○	○
M				●	●	●
K		●	●			
N						
S						○
H						
O						

WNMG

		-M30 CTCM120	-M30 CTPM125	-M30 CTCM130	NEW -M42 CTCM130	-M60 CTCM120	-M60 CTPM125	-M60 CTCM130
		M WNMG	M WNMG	M WNMG	M WNMG	M WNMG	M WNMG	M WNMG
		75 025 ...	75 025 ...	75 025 ...	75 036 ...	75 026 ...	75 026 ...	75 026 ...
ANSI	RE inch							
331EN	0.0157				30400			
332EN	0.0315	10600	206	30600	30600	10600	206	30600
333EN	0.0472	10800	208	30800		10800	208	30800
431EN	0.0157				31600			
432EN	0.0315	11800	218	31800	31800	11800	218	31800
433EN	0.0472	12000	220	32000	32000	12000	220	32000
P		○	○	○	○	○	○	○
M		●	●	●	●	●	●	●
K								
N								
S				○	○			○
H								
O								

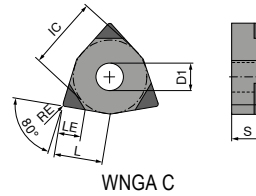
WNMG



ANSI	RE inch	75 041 ...	75 313 ...	75 008 ...
332EN	0.0315	30600		
432EN	0.0315	31800	61800	61800
433EN	0.0472	32000		62000
P		○	●	●
M		●	●	●
K				
N			○	○
S		○	●	●
H				
O				

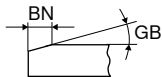
WNGA

Designation	L inch	S inch	D1 inch	IC inch
WNGA 432E..	0.3346	0.1874	0.202	0.500
WNGA 432S..	0.3346	0.1874	0.202	0.500
WNGA 433E..	0.3346	0.1874	0.202	0.500
WNGA 433S..	0.3346	0.1874	0.202	0.500



WNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



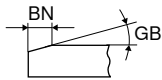
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN WNGA	PCBN WNGA	PCBN WNGA
71 044 ...	71 044 ...	71 044 ...
70002	80002	90002
70302	80302	90302

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
432EN	0.0315			C (3)	0.1299
432SN	0.0315	0.0055	20°	C (3)	0.1299
433EN	0.0472			C (3)	0.1220
433SN	0.0472	0.0055	20°	C (3)	0.1220

P			
M			
K			
N			
S			
H			
O			

WNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



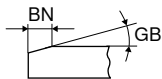
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN WNGA	PCBN WNGA	PCBN WNGA
71 044 ...	71 044 ...	71 044 ...
70102	80102	90102
70402	80402	90402

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
432SN	0.0315	0.0035	15°	C (3)	0.1299
432SN	0.0315	0.0071	25°	C (3)	0.1299
433SN	0.0472	0.0035	15°	C (3)	0.1220
433SN	0.0472	0.0071	25°	C (3)	0.1220

P
M
K
N
S
H
O

WNGA

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN WNGA	PCBN WNGA	PCBN WNGA
71 044 ...	71 044 ...	71 044 ...
70202	80202	90202
70502	80502	90502

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
432SN	0.0315	0.0055	20°	C (3)	0.1299
432SN	0.0315	0.0079	35°	C (3)	0.1299
433SN	0.0472	0.0055	20°	C (3)	0.1220
433SN	0.0472	0.0079	35°	C (3)	0.1220

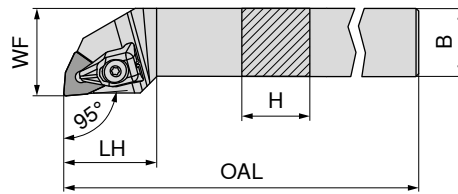
P
M
K
N
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MaxiLock-D – DWLN 95° – Toolholder with top clamping

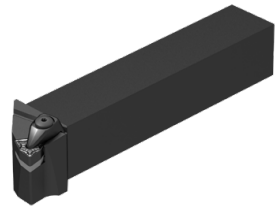
- ▲ ...A-N = with thru coolant
- ▲ ...N = without thru' coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Part Numbers	
							Left-hand 78 515 ...	Right-hand 78 514 ...
DWLN R 12-4BA-N	0.750	0.750	4.500	1.250	1.000	WN..43..		01294
DWLN R/L 12-4B-N	0.750	0.750	4.500	1.250	1.000	WN..43..	01293	01293
DWLN L 12-4BA-N	0.750	0.750		1.250	1.000	WN..43..	01294	
DWLN R/L 16-4DA-N	1.000	1.000	6.000	1.250	1.250	WN..43..	01690	01690
DWLN R/L 16-4D-N	1.000	1.000	6.000	1.250	1.250	WN..43..	01689	01689
DWLN R/L 20-4DA-N	1.250	1.250	6.000	1.250	1.500	WN..43..	02092	02091
DWLN R/L 20-4D-N	1.250	1.250	6.000	1.250	1.500	WN..43..	02089	02089
DWLN R/L 24-4E-N	1.500	1.500	7.000	1.250	2.000	WN..43..	02486 ¹⁾	02486 ¹⁾
DWLN R/L 24-4EA-N	1.500	1.500	7.000	1.250	2.000	WN..43..	02488 ¹⁾	02488 ¹⁾

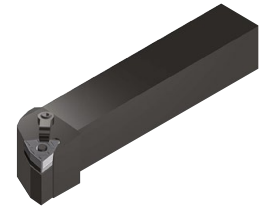
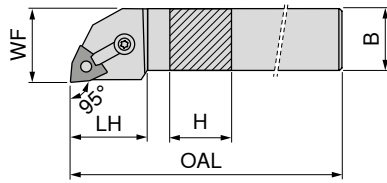
1) Not in stock

Spare parts for Article no.	Part Numbers					
	Clamping claw 78 950 ...	Key I 78 950 ...	Clamping screw 78 950 ...	Solid Carbide Seat W 78 950 ...	Threaded bush 78 950 ...	Spring 78 950 ...
78 514 01293 / 78 515 01293	07600	08100	08300	02400	08500	04900
78 514 01689 / 78 515 01689	07600	08100	08300	02400	08500	04900
78 514 02091 / 78 515 02092	07600	08100	08300	02400	08500	04900
78 514 02089 / 78 515 02089	07600	08100	08300	02400	08500	04900
78 514 02486 / 78 515 02486	07600	08100	08300	02400	08500	04900
78 514 02488 / 78 515 02488	07600	08100	08300	02400	08500	04900

MaxiLock-M – MWLN 95° – Toolholder with top clamping

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 551 ...	78 550 ...
MWLN L 12-3B	0.750	0.750	4.500	1.000	1.000	WN..33..	01223 ¹⁾	01223 ¹⁾
MWLN R/L 16-3D	1.000	1.000	6.000	1.000	1.250	WN..33..	01643 ¹⁾	01643 ¹⁾
MWLN R/L 12-4B	0.750	0.750	4.500	1.070	1.000	WN..43..	01224 ¹⁾	01224 ¹⁾
MWLN R/L 16-4D	1.000	1.000	6.000	1.070	1.250	WN..43..	01644 ¹⁾	01644 ¹⁾
MWLN R/L 20-4D	1.250	1.250	6.000	1.070	1.500	WN..43..	02044 ¹⁾	02044 ¹⁾
MWLN R/L 24-4E	1.500	1.500	7.000	1.070	2.000	WN..43..	02454 ¹⁾	02454 ¹⁾

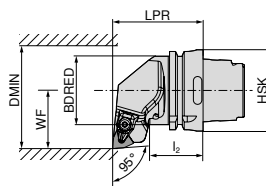
1) Not in stock

Spare parts for Article no.	Clamp 78 950 ...	Key I 78 950 ...	Dowel pin 78 950 ...	Clamping screw 78 950 ...	Solid Carbide Seat W 78 950 ...	Solid Carbide Seat V 78 950 ...
78 551 01223	00600	06800	02900	03600		02200
78 550 01643 / 78 551 01643	00600	06800	02900	03600		02200
78 550 01224 / 78 551 01224	00400	07000	03100	03800		
78 550 01644	00400	07000	03100	03800	02400	
78 551 01644	00400	07000	03100	03800		
78 550 02044 / 78 551 02044	00400	07000	03100	03800		
78 550 02454 / 78 551 02454	00400	07000	03100	03800		

MaxiLock-D – DWLN 95° – Toolholder with top clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions

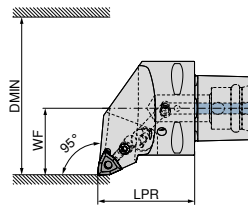
Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	Insert	Left-hand	Right-hand
								74 529 ...	74 528 ...
HSK T63 DWLN R/L 08	HSK-T 63	70	42.00	52.6	45	125	WN.. 0804	508	508
HSK T100 DWLN R 08	HSK-T 100	80	45.00	87.6	55	125	WN.. 0804		708
HSK T100 DWLN L 08	HSK-T 100	80	53.96	87.6	55	125	WN.. 0804	708	

Spare parts	XPress type 70 950 ...	Screwdriver 80 950 ...	Clamping screw 70 950 ...	Solid Carbide Seat W 70 950 ...
74 528 508 / 74 529 708	824	T15 - IP	128	M4.5x12 - IP
			820	812

MaxiLock-N – PWLN 95° – Toolholder with lever clamping

Scope of supply:


without high-performance coolant set



Illustrations show right-hand versions



Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible	Left-hand	Right-hand
								84 653 ...	84 652 ...
PSC40 PWLN R/L 50050-08	PSC 40	50	27	50	5	WN.. 0804	DC	00895	00895
PSC50 PWLN R/L 65060-08	PSC 50	60	35	65	5	WN.. 0804	DC	00894	00894
PSC63 PWLN R/L 80065-08	PSC 63	65	45	80	5	WN.. 0804	DC	00893	00893

 The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**

Spare parts

84 652 00893 / 84 653 00895

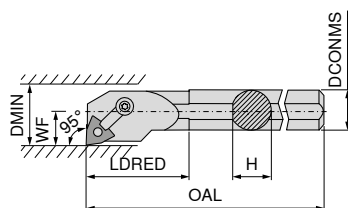
Shim	Elbow lever screw	Lever	Solid Carbide Seat W
84 950 ...	84 950 ...	84 950 ...	84 950 ...
29200	M8X1/L17 SW3 28700	28900	27700

MaxiLock-M – MWLN 95° – Boring bar with top clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with allen key



Illustrations show right-hand versions



Designation	DCONMS mm	H mm	OAL mm	LDRED mm	WF mm	DMIN mm	Insert	Left-hand	Right-hand
								78 717 ...	78 716 ...
S16T MWLN R/L 4	25.40	22.860	304.8	63.5	16.256	32.512	WN..43..	41626 ¹⁾	41626 ¹⁾
A16T MWLN R/L 4	25.40	22.860	304.8	63.5	16.256	32.512	WN..43..	41616	41616
S20U MWLN R/L 4	31.75	29.972	355.6	76.2	19.431	38.862	WN..43..	42030 ¹⁾	42030 ¹⁾
A20U MWLN R/L 4	31.75	29.972	355.6	76.2	19.431	38.862	WN..43..	42020 ¹⁾	42020 ¹⁾
S24U MWLN R/L 4	38.10	34.798	355.6	76.2	22.606	45.212	WN..43..	42434 ¹⁾	42434 ¹⁾
A24U MWLN R/L 4	38.10	34.798	355.6	76.2	22.606	45.212	WN..43..	42424 ¹⁾	42424 ¹⁾

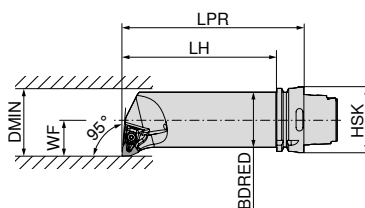
1) Not in stock

Spare parts for Article no.	78 950 ...	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 716 41626 / 78 717 41626	00400	06900	03000	03700	
78 716 41616 / 78 717 41616	00400	06900	03000	03700	
78 716 42030 / 78 717 42030	00400	06900	03100	03800	02400
78 716 42020 / 78 717 42020	00400	06900	03100	03800	02400
78 716 42434 / 78 717 42434	00400	06900	03100	03800	02400
78 716 42424 / 78 717 42424	00400	06900	03100	03800	02400

MaxiLock-D – DWLN 95° – Boring bar with top clamping

Scope of supply:

Boring bar with Torx key



Illustrations show right-hand versions

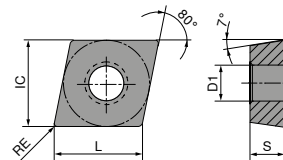


Designation	Adapter	LPR mm	LH mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand	Right-hand
									74 537 ...	74 536 ...
HSK T63 50Q DWLN R/L 08	HSK-T 63	175	149	50	35	63	4	WN..0804	508	508

Spare parts	70 950 ...	80 950 ...	70 950 ...	70 950 ...
74 536 508 / 74 537 508	824	T15 - IP	128	M4.5x12 - IP
			820	812

CCGT / CCMT / CCET

Designation	L inch	S inch	D1 inch	IC inch
CC.T 21..	0.2520	0.0937	0.1102	0.2500
CC.T 32..	0.3819	0.1563	0.1732	0.3748
CC.T 43..	0.5079	0.1874	0.2165	0.5000



CCGT / CCMT

		-CF05 CTEP110	-CF55 CTEP110	-SF TCM407	-SF TCM10	-SMF TCM10	NEW -SF CTCP125-P	NEW -SF CTCP135-P
		DRAGONSKIN	DRAGONSKIN				DRAGONSKIN	DRAGONSKIN
		F	F	F	F	F	F	F
		CERMET CCGT	CERMET CCMT	CERMET CCGT	CERMET CCGT	CERMET CCMT	CCGT	CCGT
		76 247 ...	76 248 ...	70 251 ...	70 251 ...	70 249 ...	76 251 ...	76 251 ...
ANSI	RE inch							
21.5.5EN	0.0079	002		850	900		50201	70201
21.51EN	0.0157	004	004	852	902	900		
32.5.5EN	0.0079	014		854	904			
32.51EN	0.0157	016	016		906	904		
32.52EN	0.0315	018	018		908	906		
431EN	0.0157		028		910			
P		●	●	●	●	●	●	●
M		○	○	○	○	○	○	○
K		○	○	○	○	○	○	○
N								
S								
H								
O								

CCMT / CCGT

		NEW	NEW	NEW	NEW	NEW	NEW	NEW
		-SF CTCP115-P	-SF CTCP125-P	-SF CTCP135-P	-SMF CTCP115-P	-SMF CTCP125-P	-SMF CTCP135-P	-SM CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F CCMT	F CCMT	F CCMT	F CCMT	F CCMT	F CCMT	M CCGT
		76 253 ...	76 253 ...	76 253 ...	76 249 ...	76 249 ...	76 249 ...	76 250 ...
ANSI	RE inch							50201
21.5EN	0.0079							
21.51EN	0.0157	30401	50401	70401		50401	70401	
21.52EN	0.0315					50601		
32.51EN	0.0157	31601	51601	71601	31601	51601	71601	
32.52EN	0.0315	31801	51801		31801	51801		
431EN	0.0157		52801			52801		
432EN	0.0315		53001		33001		73001	
P		●	●	●	●	●	●	●
M				○			○	
K		○	○		○	○		○
N								
S								
H								
O								

CCGT / CCMT

		NEW		NEW	NEW	NEW	NEW	
		-SM CTCP135-P	-SM CTCK110	-SM CTCK120	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P	-SMQ CTCP115-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M CCGT	M CCMT	M CCMT	M CCMT	M CCMT	M CCMT	F CCMT
		76 250 ...	70 252 ...	70 252 ...	76 252 ...	76 252 ...	76 252 ...	76 194 ...
ANSI	RE inch							
21.5EN	0.0079	70201						
21.51EN	0.0157		004	554	30401	50401	70401	
21.52EN	0.0315		006	506	30601		70601	
32.51EN	0.0157		016	516	31601	51601	71601	31601
32.52EN	0.0315		018	518	31801	51801	71801	31801
32.53EN	0.0472		020	520				
431EN	0.0157		028	528	32801	52801	72801	32801
432EN	0.0315		030	530	33001	53001	73001	33001
433EN	0.0472					53201		
P		●	○	○	●	●	●	●
M		○					○	
K			●	●	○	○		○
N								
S								
H								
O								

CCMT

		NEW		NEW		NEW		NEW
		-SMQ CTCP125-P	-M25 CTCM120	-SF CTPM125	-M25 CTPM125	-F43 CTCM130	-M25 CTCM130	-SM CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F CCMT	F CCMT	F CCMT	F CCMT	F CCMT	F CCMT	M CCMT
		76 194 ...	75 210 ...	75 042 ...	75 210 ...	75 031 ...	75 210 ...	75 047 ...
ANSI	RE inch							
21.51EN	0.0157		10400	20400	204		30400	30400
32.51EN	0.0157	51601	11600	21600	216	31600	31600	31600
32.52EN	0.0315	51801	11800		218	31800	31800	31800
431EN	0.0157	52801						32800
432EN	0.0315	53001						33000
P		●	○	○	○	○	○	○
M			●	●	●	●	●	●
K		○						
N								
S						○	○	○
H								
O								

CCMT / CCGT

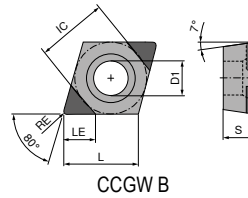
		-M55 CTCM120	-M55 CTPM125	-M55 CTCM130	-23P H216T	-25P H210T	-25P CTPX710
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN			DRAGONSKIN
		M CCMT	M CCMT	M CCMT	F CCGT	F CCGT	M CCGT
		75 211 ...	75 211 ...	75 211 ...	70 255 ...	70 248 ...	70 248 ...
ANSI	RE inch						
21.5FN	0.0079				652	636	70200
21.51EN	0.0157	10400	204	30400	654	638	70400
21.51FN	0.0157					639	71400
32.5FN	0.0079	11600	216	31600	656	640	71600
32.51EN	0.0157	11800	218	31800	658	641	71800
32.52EN	0.0315					643	
32.52FN	0.0315					642	72800
43.5FN	0.0079	12800	228	32800		644	73000
431EN	0.0157	13000	230	33000			
431FN	0.0157						
432EN	0.0315						
432FN	0.0315						
P		○	○	○			●
M		●	●	●			●
K					○	○	
N					●	●	●
S				○		○	●
H							
O					○	○	

CCGT / CCMT / CCET

		-25Q H210T	-25Q CTPX710	-27 CTPX715	-27 H10T	-29 H216T	NEW -29 CTPX715	NEW -F05 CTPX710	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		M		M		M		F	
		CCGT		CCGT		CCMT		CCET	
		70 248 ...	70 248 ...	70 254 ...	70 254 ...	70 245 ...	70 245 ...	76 243 ...	
ANSI	RE inch			80200	600			10200	
21.5.5FN	0.0079							10100	
21.50FN	0.0039								
21.51EN	0.0157					60400	70400		
21.51FN	0.0157	678	75400	80400	602			10400	
32.5.5FN	0.0079			81400	604				
32.51EN	0.0157					61600	71600		
32.51FN	0.0157	680	76600	81600	606				
32.52EN	0.0315					61800	71800		
32.52FN	0.0315	681	76800	81800	608				
32.54FN	0.0630			72200					
43.5FN	0.0079			82600	610				
431FN	0.0157	682	77800	82800	612				
432FN	0.0315	686	78000	83000	614				
P			●	●			●	●	
M			●	●			●	●	
K		○		○	○	○	○		
N		●	●	●	●	●	●	●	
S		○	●	●			●	●	
H									
O		○		○	○	○	○		

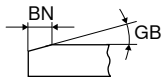
CCGW

Designation	L inch	S inch	D1 inch	IC inch
CCGW 21.5..	0.2539	0.0937	0.1102	0.2500
CCGW 32.5..	0.3819	0.1563	0.1732	0.3748



CCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



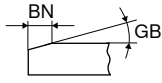
	NEW	NEW	NEW
	CTBH1000C	CTBH2000C	CTBH3000C
	F	F	F
	PCBN CCGW	PCBN CCGW	PCBN CCGW
	71 000 ...	71 000 ...	71 000 ...
	70002	80002	90002
	70302	80302	90302
	70602	80602	90602
	70902	80902	90902
	71202	81202	91202
P			
M			
K			
N			
S			
H	●	●	●
O			

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.5.5EN	0.0079			B (2)	0.1142
21.5.5SN	0.0079	0.0055	20°	B (2)	0.1142
21.51EN	0.0157			B (2)	0.1142
21.51SN	0.0157	0.0055	20°	B (2)	0.1142
32.5.5EN	0.0079			B (2)	0.1299
32.5.5SN	0.0079	0.0055	20°	B (2)	0.1299
32.51EN	0.0157			B (2)	0.1299
32.51SN	0.0157	0.0055	20°	B (2)	0.1299
32.52EN	0.0315			B (2)	0.1299
32.52SN	0.0315	0.0055	20°	B (2)	0.1299

P			
M			
K			
N			
S			
H	●	●	●
O			

CCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN CCGW	PCBN CCGW	PCBN CCGW
71 000 ...	71 000 ...	71 000 ...
70102	80102	90102
70402	80402	90402
70702	80702	90702
71002	81002	91002
71302	81302	91302

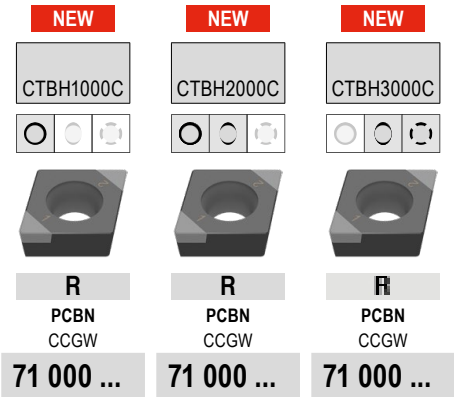
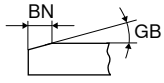
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.5.5SN	0.0079	0.0035	15°	B (2)	0.1142
21.5.5SN	0.0079	0.0071	25°	B (2)	0.1142
21.51SN	0.0157	0.0035	15°	B (2)	0.1142
21.51SN	0.0157	0.0071	25°	B (2)	0.1142
32.5.5SN	0.0079	0.0035	15°	B (2)	0.1299
32.5.5SN	0.0079	0.0071	25°	B (2)	0.1299
32.51SN	0.0157	0.0035	15°	B (2)	0.1299
32.51SN	0.0157	0.0071	25°	B (2)	0.1299
32.52SN	0.0315	0.0035	15°	B (2)	0.1299
32.52SN	0.0315	0.0071	25°	B (2)	0.1299

P			
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O			

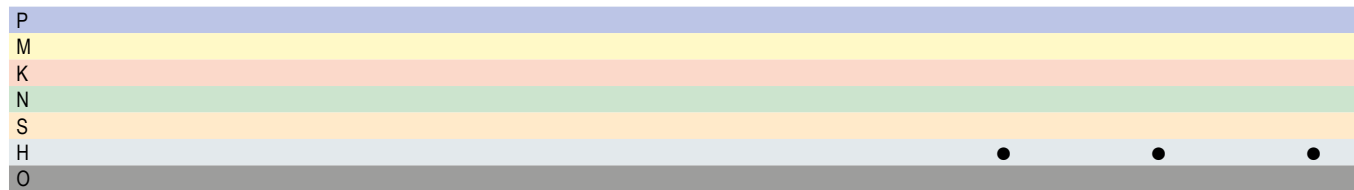
9

CCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

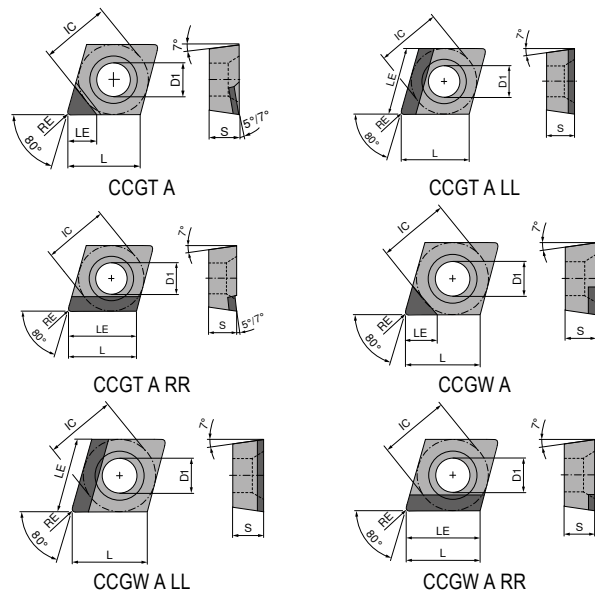


ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch			
21.5.5SN	0.0079	0.0055	20°	B (2)	0.1142		70202	80202
21.5.5SN	0.0079	0.0079	35°	B (2)	0.1142			90202
21.51SN	0.0157	0.0055	20°	B (2)	0.1142		70502	80502
21.51SN	0.0157	0.0079	35°	B (2)	0.1142			90502
32.5.5SN	0.0079	0.0055	20°	B (2)	0.1299		70802	80802
32.5.5SN	0.0079	0.0079	35°	B (2)	0.1299			90802
32.51SN	0.0157	0.0055	20°	B (2)	0.1299		71102	81102
32.51SN	0.0157	0.0079	35°	B (2)	0.1299			91102
32.52SN	0.0315	0.0055	20°	B (2)	0.1299		71402	81402
32.52SN	0.0315	0.0079	35°	B (2)	0.1299			91402



CCGW / CCGT

Designation	L inch	S inch	D1 inch	IC inch
CCG. 21..	0.2520	0.0937	0.1102	0.2500
CCG. 32..	0.3819	0.1563	0.1732	0.3748
CCG. 43..	0.5079	0.1874	0.2165	0.5000



CCGW / CCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners

	CTDMD05	CTDPD20	CTDPD20	-Q CTDPD20	-Q CTDPD20
	F	F	F	F	F
	DIAMOND CCGW	DIAMOND CCGW	DIAMOND CCGT	DIAMOND CCGW	DIAMOND CCGT
	71 120 ...	71 120 ...	71 124 ...	71 125 ...	71 126 ...
ANSI	RE inch	TCE (NOI)	LE inch		
21.50FN	0.0039	A (1)	0.1339		
21.50FN	0.0039	A (1)	0.1378		
21.5.5FN	0.0079	A (1)	0.0984		
21.5.5FN	0.0079	A (1)	0.1299		
21.5.5FN	0.0079	A (1)	0.1339		
21.51FN	0.0157	A (1)	0.0984		
21.51FN	0.0157	A (1)	0.1220		
21.51FN	0.0157	A (1)	0.1260		
21.52FN	0.0315	A (1)	0.0984		
21.52FN	0.0315	A (1)	0.1181		
32.50FN	0.0039	A (1)	0.1772		
32.5.5FN	0.0079	A (1)	0.1732		
32.5.5FN	0.0079	A (1)	0.1772		
32.51FN	0.0157	A (1)	0.0984		
32.51FN	0.0157	A (1)	0.1654		
32.51FN	0.0157	A (1)	0.1693		
32.52FN	0.0315	A (1)	0.0984		
32.52FN	0.0315	A (1)	0.1614		
43.5FN	0.0079	A (1)	0.1732		
431FN	0.0157	A (1)	0.1654		
431FN	0.0157	A (1)	0.1693		
432FN	0.0315	A (1)	0.1614		
				101	
	050				
		100		102	
	052		100		102
		102		104	
	05300		102		104
		10300		104	
			10300		
				111	
				112	
		10500			111
			10500		112
	054			114	
		104			114
		106			
	056		106		
				122	
				124	
		108			122
		110			124
			108		
			110		

P					
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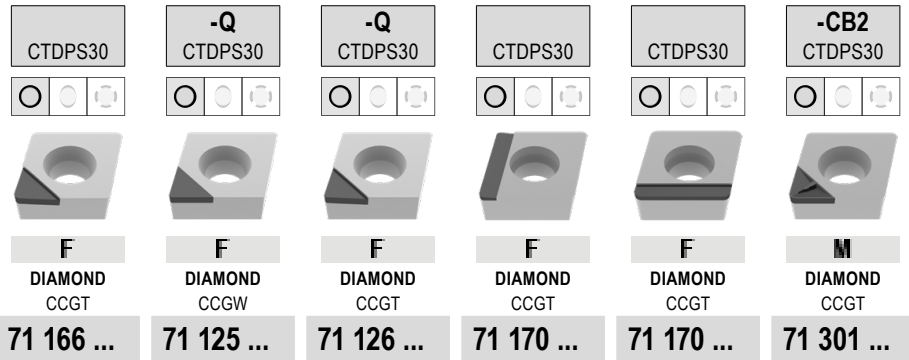
CCGW / CCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	CTDPD20		-CB1 CTDPD20		-CB2 CTDPD20		-CB1 CTDPD20		-Q-CB2 CTDPD20	
				71 172 ...	71 172 ...	71 300 ...	71 168 ...	71 305 ...	71 169 ...				
21.5.5FN	0.0079	A (1)	0.1339										
21.51FN	0.0157	A (1)	0.1220										
21.51FN	0.0157	A (1)	0.1260										
21.51FRR	0.0157	A (1)	0.2539										
21.51FLL	0.0157	A (1)	0.2539	10001	10101			10001		104			
21.52FN	0.0315	A (1)	0.1181										
32.5.5FN	0.0079	A (1)	0.1732										10001
32.5.5FN	0.0079	A (1)	0.1772										10101
32.51FN	0.0157	A (1)	0.1654										10101
32.51FN	0.0157	A (1)	0.1693										10101
32.52FN	0.0315	A (1)	0.1614										10101
32.52FRR	0.0315	A (1)	0.3819										10101
32.52FLL	0.0315	A (1)	0.3819	10201	10301								10101
32.53FLL	0.0472	A (1)	0.3819	10401									10101
431FN	0.0157	A (1)	0.1654										10201
431FN	0.0157	A (1)	0.1693										10201
432FN	0.0315	A (1)	0.1614										10201
433FRR	0.0472	A (1)	0.5079										10201
433FLL	0.0472	A (1)	0.5079	10501	10601								10201
P													
M													
K													
N				•	•	•	•	•	•	•	•	•	•
S													
H													
O				•	•	•	•	•	•	•	•	•	•

CCGT / CCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



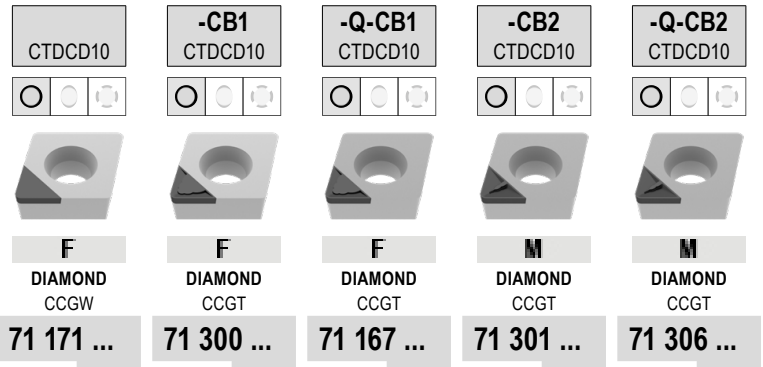
ANSI	RE inch	TCE (NOI)	LE inch	71 166 ...	71 125 ...	71 126 ...	71 170 ...	71 170 ...	71 301 ...
21.50FN	0.0039	A (1)	0.1378	20001					
21.5.5FN	0.0079	A (1)	0.1299		152	152			
21.5.5FN	0.0079	A (1)	0.1339	20101					202
21.51FN	0.0157	A (1)	0.1260						204
21.51FRR	0.0157	A (1)	0.2539					20101	
21.51FLL	0.0157	A (1)	0.2539				20001		
21.52FN	0.0315	A (1)	0.1181						208
21.52FRR	0.0315	A (1)	0.2539				20201	20301	
21.52FLL	0.0315	A (1)	0.2539						
32.50FN	0.0039	A (1)	0.1772		16300				
32.5.5FN	0.0079	A (1)	0.1732		162	162			
32.5.5FN	0.0079	A (1)	0.1772	20201					212
32.51FN	0.0157	A (1)	0.1693						214
32.52FN	0.0315	A (1)	0.1614						218
32.52FRR	0.0315	A (1)	0.3819					20501	
32.52FLL	0.0315	A (1)	0.3819				20401		
43.5FN	0.0079	A (1)	0.1732			172			
431FN	0.0157	A (1)	0.1654			174			
431FN	0.0157	A (1)	0.1693	20301					224
432FN	0.0315	A (1)	0.1614						228
433FRR	0.0472	A (1)	0.5079					20701	
433FLL	0.0472	A (1)	0.5079				20601		

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

9

CCGW / CCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners

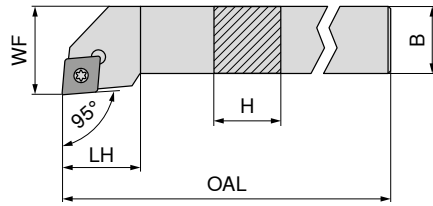


ANSI	RE inch	TCE (NOI)	LE inch	71 171 ...	71 300 ...	71 167 ...	71 301 ...	71 306 ...
21.5.5FN	0.0079	A (1)	0.0906			40001		
21.5.5FN	0.0079	A (1)	0.0945	40001	302		30200	
21.51FN	0.0157	A (1)	0.0827			40101		304
21.51FN	0.0157	A (1)	0.0866	40101	304		304	
21.52FN	0.0315	A (1)	0.0787		30600			
32.5.5FN	0.0079	A (1)	0.0906					31200
32.5.5FN	0.0079	A (1)	0.0945	40201			31200	
32.51FN	0.0157	A (1)	0.0827			40201		314
32.51FN	0.0157	A (1)	0.0866	40301	314		314	
32.52FN	0.0315	A (1)	0.0787	40401			31600	
431FN	0.0157	A (1)	0.0827			40301		324
431FN	0.0157	A (1)	0.0866				32600	
432FN	0.0315	A (1)	0.0787	40501				
432FN	0.0315	A (1)	0.0827				328	
P								
M								
K								
N				•	•	•	•	•
S								
H								
O				•	•	•	•	•

MaxiLock-S – SCLC 95° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 553 ...	78 552 ...
SCLC R/L 06-2	0.375	0.375	2.500	0.390	0.500	CC..21.5..	00602 ¹⁾	00602 ¹⁾
SCLC R/L 08-3	0.500	0.500	3.500	0.630	0.625	CC..32.5..	00803	00803
SCLC R/L 10-3	0.625	0.625	4.000	0.630	0.750	CC..32.5..	01003 ¹⁾	01003 ¹⁾
SCLC R/L 12-3B	0.750	0.750	4.500	0.630	1.000	CC..32.5..	01223	01223
SCLC R/L 16-3D	1.000	1.000	6.000	0.630	1.250	CC..32.5..	01643	01643
SCLC R/L 12-4B	0.750	0.750	4.500	1.000	1.000	CC..43..	01224 ¹⁾	01224 ¹⁾
SCLC R/L 16-4D	1.000	1.000	6.000	1.000	1.250	CC..43..	01644 ¹⁾	01644 ¹⁾
SCLC R/L 20-4D	1.250	1.250	6.000	1.000	1.500	CC..43..	02044 ¹⁾	02044 ¹⁾

1) Not in stock

Key I - TORX®	Clamping screw	Carbide type C	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...

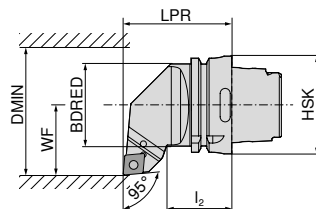
**Spare parts
for Article no.**

78 552 00602 / 78 553 00602	06400	06200		
78 552 00803 / 78 553 00803	05700	05600		
78 552 01003 / 78 553 01003	05700	05600		
78 552 01223 / 78 553 01223	05700	05600		
78 552 01643 / 78 553 01643	05700	05600		
78 552 01224 / 78 553 01224	04700		04500	04800
78 552 01644 / 78 553 01644	04700		04500	04800
78 552 02044 / 78 553 02044	04700		04500	04800

MaxiLock-S – SCLC 95° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	Adapter	LPR mm	I ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand	Right-hand
									74 541 ...	74 540 ...
HSK T63 SCLC R/L 12	HSK-T 63	70	42	53	45	100	5	CC.. 1204	512	512

Combination Key	Clamping screw	Carbide type C	Threaded sleeve
70 950 ...	70 950 ...	70 950 ...	70 950 ...

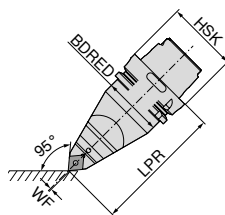
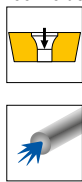
Spare parts

74 540 512 / 74 541 512	T15/SW	398	M4.5x12	114	166	M4.5	170
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MaxiLock-S – SMC 50° – Toolholder with screw clamping




Scope of supply:

Tool holder with Torx key



Neutral
74 542 ...

Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	
HSK T63 SMC N 12	HSK-T 63	115	53	0	5	CC.. 1204	512

			
Combination Key	Clamping screw	Carbide type C	Threaded sleeve
70 950 ...	70 950 ...	70 950 ...	70 950 ...

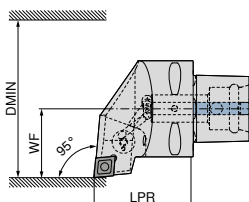
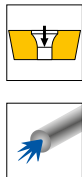
Spare parts

74 542 512	T15/SW	398	M4.5x12	114	166	M4.5	170
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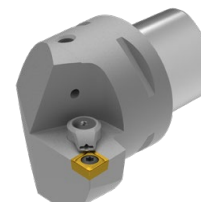
MaxiLock-S – SCLC 95° – Toolholder with screw clamping

Scope of supply:

without high-performance coolant set




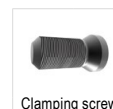
Illustrations show right-hand versions



Left-hand **84 655 ...**
Right-hand **84 654 ...**

Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible		
PSC40 SCLC R/L 50050-12	PSC 40	50	27	50	5	CC.. 1204	DC	01295	01295
PSC50 SCLC R/L 65060-12	PSC 50	60	35	65	5	CC.. 1204	DC	01294	01294
PSC63 SCLC R/L 80065-12	PSC 63	65	45	80	5	CC.. 1204	DC	01293	01293

 The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46**.



Clamping screw

84 950 ...

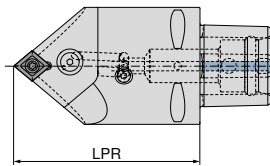
Spare parts

84 654 01293 / 84 655 01295	27500
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MaxiLock-S – SCMC 50° – Toolholder with screw clamping

Scope of supply:


without high-performance coolant set



Neutral

84 674 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible	
PSC63 SCMC N 0100-12	PSC 63	100	5	CC.. 1204	DC	01293
PSC63 SCMC N 0130-12	PSC 63	130	5	CC.. 1204	DC	11293

 The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46**.



84 950 ...

Spare parts

84 674 01293 / 84 674 11293

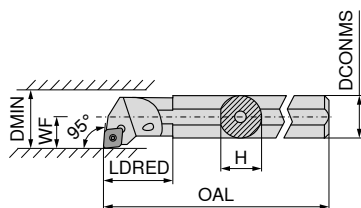
27500

MaxiLock-S – SCLC 95° – Boring bar with screw clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	DCONMS	H	OAL	LDRED	WF	DMIN	Insert	Left-hand		Right-hand	
								78 719 ...	78 718 ...	78 719 ...	78 718 ...
S06M SCLC R/L 2	0.375	0.340	6.000	0.830	0.250	0.500	CC..21.5..	20617 ¹⁾		20617 ¹⁾	
A06M SCLC L 2	0.375	0.340	6.000	0.830	0.250	0.500	CC..21.5..	20606			
S08M SCLC R/L 2	0.500	0.460	6.000	0.910	0.312	0.625	CC..21.5..	20818 ¹⁾		20818 ¹⁾	
A08M SCLC R/L 2	0.500	0.460	6.000	0.910	0.312	0.625	CC..21.5..	20808 ¹⁾		20808 ¹⁾	
S10R SCLC R/L 2	0.625	0.580	8.000	1.060	0.406	0.812	CC..21.5..	21021 ¹⁾		21021 ¹⁾	
A10R SCLC R/L 2	0.625	0.580	8.000	1.060	0.406	0.812	CC..21.5..	21010		21010 ¹⁾	
S10R SCLC R/L 3	0.625	0.580	8.000	1.060	0.406	0.812	CC..32.5..	31021 ¹⁾		31021 ¹⁾	
A10R SCLC R/L 3	0.625	0.580	8.000	1.060	0.406	0.812	CC..32.5..	31010		31010	
S12S SCLC R/L 3M	0.750	0.710	10.000	1.580	0.500	1.000	CC..32.5..	91222 ¹⁾		91222 ¹⁾	
A12S SCLC R/L 3M	0.750	0.710	10.000	1.580	0.500	1.000	CC..32.5..	91212		91212	
S16T SCLC R/L 3M	1.000	0.900	12.000	1.810	0.640	1.280	CC..32.5..	91626 ¹⁾		91626 ¹⁾	
S16T SCLC R/L 4	1.000	0.900	12.000	3.000	0.640	1.280	CC..43..	41626 ¹⁾		41626 ¹⁾	
S20U SCLC R/L 4	1.250	1.180	14.000	3.000	0.765	1.530	CC..43..	42030 ¹⁾		42030 ¹⁾	
S24V SCLC R/L 4	1.500	1.370	16.000	3.000	0.890	1.780	CC..43..	42435 ¹⁾		42435 ¹⁾	

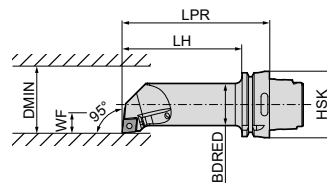
1) Not in stock

	Key I - TORX®	Clamping screw	Carbide type C	Threaded sleeve
	78 950 ...	78 950 ...	78 950 ...	78 950 ...
Spare parts for Article no.				
78 718 20617 / 78 719 20617	06400	05200		
78 719 20606	06400	05200		
78 718 20818 / 78 719 20818	06400	05200		
78 718 20808 / 78 719 20808	06400	05200		
78 718 21021 / 78 719 21021	06400	05200		
78 718 21010 / 78 719 21010	06400	05200		
78 718 31021 / 78 719 31021	06400	05200		
78 718 31010 / 78 719 31010	05700	05800		
78 718 91222 / 78 719 91222	05700	05800		
78 718 91212 / 78 719 91212	05700	05800		
78 718 91626 / 78 719 91626	05700	05800		
78 718 41626 / 78 719 41626	06600	06500		
78 718 42030 / 78 719 42030	04700	04600	04500	04800
78 718 42435 / 78 719 42435	04700	04600	04500	04800

MaxiLock-S – SCLC 95° – Boring bar with screw clamping

Scope of supply:

Boring bar with Torx key

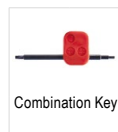


Illustrations show right-hand versions



	Left-hand	Right-hand
Designation	74 564 ...	74 563 ...
Price	512	512

Designation	Adapter	LPR mm	LH mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Price
HSK T63 40L SCLC R/L 12	HSK-T 63	140	114	40	27	50	5	CC.. 1204	512



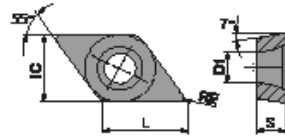
Part Number	70 950 ...	70 950 ...	70 950 ...	70 950 ...
Price	398	114	166	170

Spare parts

74 563 512 / 74 564 512	T15/SW	M4.5x12	M4.5
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DCGT / DCMT / DCET

Designation	L inch	S inch	D1 inch	IC inch
DC.T 21.5..	0.3051	0.0937	0.1102	0.2500
DC.T 32.5..	0.4567	0.1563	0.1732	0.3748



DCGT / DCMT

ANSI	RE inch	NEW		NEW		NEW		NEW		NEW	
		-CF05 CTEP110	-CF55 CTEP110	-SF TCM407	-SF TCM10	-SMF TCM10	-SF CTCP125-P	-SF CTCP115-P	-SF CTCP125-P	-SF CTCP115-P	-SF CTCP125-P
		DRAGONSKIN	DRAGONSKIN				DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	F	F	F	F	F	F	F	F	F
		CERMET DCGT	CERMET DCMT	CERMET DCGT	CERMET DCGT	CERMET DCMT	DCGT	DCMT	DCGT	DCMT	DCMT
		76 245 ...	76 246 ...	70 257 ...	70 257 ...	70 265 ...	76 257 ...	76 259 ...	76 257 ...	76 259 ...	76 259 ...
21.5.5EN	0.0079	002	002		900	898	50201				
21.50EN	0.0039				898	900					
21.51EN	0.0157	004	004	852	902						30401
32.5.5EN	0.0079	014		854	904						
32.51EN	0.0157	016	016	856	906	904					31601
32.52EN	0.0315	018	018	858	908	906					31801
P		●	●	●	●	●	●	●	●	●	●
M		○	○	○	○	○	○	○	○	○	○
K		○	○	○	○	○	○	○	○	○	○
N											
S											
H											
O											

DCMT / DCGT

		NEW	NEW	NEW	NEW	NEW	NEW	NEW
		-SF CTCP125-P	-SF CTCP135-P	-SMF CTCP115-P	-SMF CTCP125-P	-SMF CTCP135-P	-SM CTCP125-P	-SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F DCMT	F DCMT	F DCMT	F DCMT	F DCMT	M DCGT	M DCGT
		76 259 ...	76 259 ...	76 265 ...	76 265 ...	76 265 ...	76 256 ...	76 256 ...
ANSI	RE inch							
21.5.5EN	0.0079							
21.51EN	0.0157	50401	70401		50401	70401 70601	50201	70201
21.52EN	0.0315							
32.51EN	0.0157	51601	71601	31601	51601	71601		
32.52EN	0.0315	51801	71801	31801	51801	71801		
P		●	●	●	●	●	●	●
M			○			○		○
K		○		○	○		○	
N								
S								
H								
O								

DCMT

			NEW	NEW	NEW	NEW	
		-SM CTCK110	-SM CTCK120	-SM CTCP115-P	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M DCMT	M DCMT	M DCMT	M DCMT	M DCMT	M DCMT
		70 258 ...	70 258 ...	76 183 ...	76 258 ...	76 258 ...	76 258 ...
ANSI	RE inch						
21.51EN	0.0157		004	554	30401	50401	70401
21.52EN	0.0315		006	506	30601	50601	70601
32.51EN	0.0157		016	516	31601	51601	71601
32.52EN	0.0315		018	518	31801	51801	71801
32.53EN	0.0472			32001		52001	
P			○	○	●	●	●
M							○
K			●	●	○	○	
N							
S							
H							
O							

DCMT

		NEW	NEW		NEW		NEW	NEW
		-SMQ CTCP115-P	-SMQ CTCP125-P	-M25 CTCM120	-SF CTPM125	-M25 CTPM125	-SM CTPM125	-F43 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M DCMT	M DCMT	F DCMT	F DCMT	F DCMT	M DCMT	F DCMT
		76 195 ...	76 195 ...	75 213 ...	75 044 ...	75 213 ...	75 048 ...	75 032 ...
ANSI	RE inch							
21.5.5EN	0.0079			10200		202		
21.50.5EN	0.0079							30200
21.51EN	0.0157	30401	50401	10400	20400	204		30400
32.5.5EN	0.0079			11400		214		
32.50.5EN	0.0079							31400
32.51EL	0.0157	31601	51601					
32.51EN	0.0157	31501	51501	11600	21600	216		31600
32.51ER	0.0157	31701	51701					
32.52EN	0.0315	31801	51801	11800	21800	218	21800	31800
P		●	●	○	○	○	○	○
M				●	●	●	●	●
K		○	○					
N								
S								○
H								
O								

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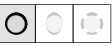


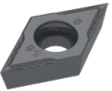
DCMT / DCGT

					NEW		NEW
		-M25 CTCM130	-M55 CTCM120	-M55 CTPM125	-SM CTCM130	-M55 CTCM130	-SF CTPM125
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F DCMT	M DCMT	M DCMT	M DCMT	M DCMT	F DCGT
		75 213 ...	75 214 ...	75 214 ...	75 048 ...	75 214 ...	75 043 ...
ANSI	RE inch						
21.5.5EN	0.0079		30200				
21.50.5EN	0.0079						20200
21.51EN	0.0157	30400	10400	204	30400	30400	
21.52EN	0.0315		10600	206	30600	30600	
32.5.5EN	0.0079		31400				
32.51EN	0.0157	31600	11600	216	31600	31600	
32.52EN	0.0315	31800	11800	218	31800	31800	
P		○	○	○	○	○	○
M		●	●	●	●	●	●
K							
N							
S		○			○	○	
H							
O							

DCGT

		-23P H216T	-25P H210T	-25P CTPX710	-25Q H210T	-27 H10T	-27 CTPX715
		F	F	M	M	M	M
		DCGT	DCGT	DCGT	DCGT	DCGT	DCGT
		70 261 ...	70 263 ...	70 263 ...	70 263 ...	70 260 ...	70 260 ...
ANSI	RE inch						
21.5.5FN	0.0079		632	70200		600	80200
21.51FN	0.0157	654	634	70400		602	80400
32.5.5FN	0.0079		635	71400		604	81400
32.51FN	0.0157	664	636	71600	660	606	81600
32.51FL	0.0157				670		
32.51FR	0.0157				680		
32.52FN	0.0315	666	638	71800	662	608	81800
32.52FL	0.0315				672		
32.52FR	0.0315				682		
P				●			●
M				●			●
K		○	○		○	○	○
N		●	●	●	●	●	●
S			○	●	○		●
H							
O		○	○		○	○	○

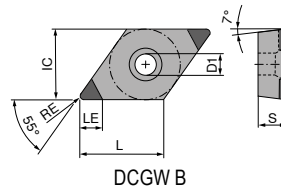
DCMT / DCET

	NEW	
-29 H216T	-29 CTPX715	-F05 CTPX710
	DRAGONSKIN 	DRAGONSKIN 
		
M DCMT	M DCMT	F DCET
70 246 ...	70 246 ...	76 254 ...

ANSI	RE inch	70 246 ...	70 246 ...	76 254 ...
21.5.5FN	0.0079			10800
21.505FN	0.0059			10600
21.50FN	0.0039			10400
21.51EN	0.0157	60400	70400	10200
21.5X0FN	0.0020			12000
32.5.5FN	0.0079			11600
32.50FN	0.0039			11600
32.51EN	0.0157	61600	71600	12200
32.51FN	0.0157			12200
32.52EN	0.0315	61800	71800	11800
32.5X0FN	0.0059			11400
32.5X0FN	0.0020			11400
P			●	●
M			●	●
K		○	○	●
N		●	●	●
S			●	●
H				
O		○	○	

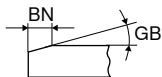
DCGW

Designation	L inch	S inch	D1 inch	IC inch
DCGW 21.5..	0.3051	0.0937	0.0937	0.2500
DCGW 31.5..	0.4567	0.1563	0.1732	0.3748



DCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



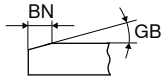
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN DCGW	PCBN DCGW	PCBN DCGW
71 007 ...	71 007 ...	71 007 ...
70002	80002	90002
70302	80302	90302
71202	81202	91202
70602	80602	90602
70902	80902	90902
71302	81302	91302

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.5.5EN	0.0079			B (2)	0.1457
21.5.5SN	0.0079	0.0055	20°	B (2)	0.1457
21.51EN	0.0157			B (2)	0.1417
21.51SN	0.0157	0.0055	20°	B (2)	0.1417
21.52EN	0.0315			B (2)	0.1299
21.52SN	0.0315	0.0055	20°	B (2)	0.1299
31.5.5EN	0.0079			B (2)	0.1457
31.5.5SN	0.0079	0.0055	20°	B (2)	0.1457
31.51EN	0.0157			B (2)	0.1417
31.51SN	0.0157	0.0055	20°	B (2)	0.1417
31.52EN	0.0315			B (2)	0.1299
31.52SN	0.0315	0.0055	20°	B (2)	0.1299

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DCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN DCGW	PCBN DCGW	PCBN DCGW
71 007 ...	71 007 ...	71 007 ...
70102	80102	90102
70402	80402	90402
71402	81402	91402
70702	80702	90702
71002	81002	91002
71502	81502	91502

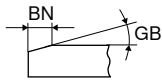
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.5.5SN	0.0079	0.0035	15°	B (2)	0.1457
21.5.5SN	0.0079	0.0071	25°	B (2)	0.1457
21.51SN	0.0157	0.0035	15°	B (2)	0.1417
21.51SN	0.0157	0.0071	25°	B (2)	0.1417
21.52SN	0.0315	0.0035	15°	B (2)	0.1299
21.52SN	0.0315	0.0071	25°	B (2)	0.1299
31.5.5SN	0.0079	0.0035	15°	B (2)	0.1457
31.5.5SN	0.0079	0.0071	25°	B (2)	0.1457
31.51SN	0.0157	0.0035	15°	B (2)	0.1417
31.51SN	0.0157	0.0071	25°	B (2)	0.1417
31.52SN	0.0315	0.0035	15°	B (2)	0.1299
31.52SN	0.0315	0.0071	25°	B (2)	0.1299

P			
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O			

9

DCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



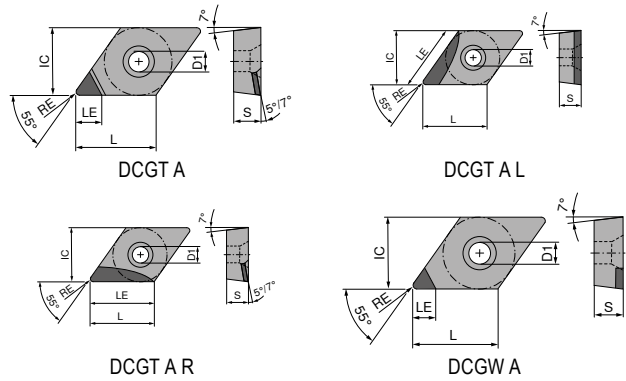
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN DCGW	PCBN DCGW	PCBN DCGW
71 007 ...	71 007 ...	71 007 ...
70202	80202	90202
70502	80502	90502
71602	81602	91602
70802	80802	90802
71102	81102	91102
71702	81702	91702

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.5.5SN	0.0079	0.0055	20°	B (2)	0.1457
21.5.5SN	0.0079	0.0079	35°	B (2)	0.1457
21.51SN	0.0157	0.0055	20°	B (2)	0.1417
21.51SN	0.0157	0.0079	35°	B (2)	0.1417
21.52SN	0.0315	0.0055	20°	B (2)	0.1299
21.52SN	0.0315	0.0079	35°	B (2)	0.1299
31.5.5SN	0.0079	0.0055	20°	B (2)	0.1457
31.5.5SN	0.0079	0.0079	35°	B (2)	0.1457
31.51SN	0.0157	0.0055	20°	B (2)	0.1417
31.51SN	0.0157	0.0079	35°	B (2)	0.1417
31.52SN	0.0315	0.0055	20°	B (2)	0.1299
31.52SN	0.0315	0.0079	35°	B (2)	0.1299

P			
M			
K			
N			
S			
H	•	•	•
O			

DCGW / DCGT

Designation	L inch	S inch	D1 inch	IC inch
DCG. 21.5..	0.3051	0.0937	0.1102	0.2500
DCG. 32.5..	0.4567	0.1563	0.1732	0.3748



DCGW / DCGT

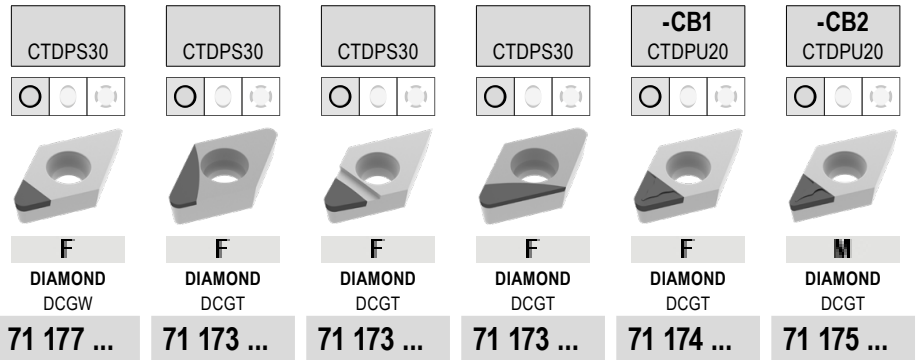
▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	CTDMD05		-Q CTDMD05		CTDPD20	
				71 130 ...	71 134 ...	71 178 ...	71 176 ...	71 130 ...	71 134 ...
21.5.5FN	0.0079	A (1)	0.0984	00200	050				
21.5.5FN	0.0079	A (1)	0.1457					100	100
21.51FN	0.0157	A (1)	0.0984	00400	052				
21.51FR	0.0157	A (1)	0.0984				50001		
21.51FN	0.0157	A (1)	0.1339					102	102
21.52FN	0.0315	A (1)	0.0984	00600	054			104	104
21.52FN	0.0315	A (1)	0.1181						
32.5.5FN	0.0079	A (1)	0.0984		056				
32.5.5FN	0.0079	A (1)	0.1181	056				106	106
32.5.5FN	0.0079	A (1)	0.1850						
32.51FN	0.0157	A (1)	0.0984		058				
32.51FL	0.0157	A (1)	0.1181			50001			
32.51FN	0.0157	A (1)	0.1181	058					
32.51FN	0.0157	A (1)	0.1693					108	108
32.52FN	0.0315	A (1)	0.0984		060				
32.52FN	0.0315	A (1)	0.1575					110	110
32.53FN	0.0472	A (1)	0.1378						11200
32.53FN	0.0472	A (1)	0.1417					11200	

P						
M						
K						
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S						
H						
O	•	•	•	•	•	•

DCGW / DCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners



ANSI	RE inch	TCE (NOI)	LE inch	71 177 ...	71 173 ...	71 173 ...	71 173 ...	71 174 ...	71 175 ...
21.50FN	0.0039	A (1)	0.1496	20001			20001		
21.5.5FN	0.0079	A (1)	0.1457	20101			20101	30001	
21.51FN	0.0157	A (1)	0.1339	20201				30101	30001
21.51FL	0.0157	A (1)	0.2165		20201				
21.52FN	0.0315	A (1)	0.1181	20301					
32.50FN	0.0039	A (1)	0.1890	20401			20301		
32.5.5FN	0.0079	A (1)	0.1850	20501			20401		
32.51FN	0.0157	A (1)	0.1693	20601				30201	30101
32.51FL	0.0157	A (1)	0.2953		20501				
32.52FN	0.0315	A (1)	0.1575	20701				30301	
32.52FL	0.0315	A (1)	0.2756		20601				
32.52FR	0.0315	A (1)	0.2756				20701		
32.53FN	0.0472	A (1)	0.1417	20801					
32.53FL	0.0472	A (1)	0.2559		20801				
32.53FR	0.0472	A (1)	0.2559				20901		
P									
M									
K									
N				•	•	•	•	•	•
S									
H									
O				•	•	•	•	•	•

DCGT / DCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	Inserts					
				CTDPD20	CTDPD20	-Q CTDPD20	-Q CTDPD20	-CB1 CTDPD20	-Q CTDPS30
				F	F	F	F	F	F
				DIAMOND	DIAMOND	DIAMOND	DIAMOND	DIAMOND	DIAMOND
				DCGT	DCGT	DCGT	DCGT	DCGT	DCGW
				71 136 ...	71 135 ...	71 144 ...	71 145 ...	71 310 ...	71 138 ...
21.50FN	0.0039	A (1)	0.1496					10100	
21.5.5FN	0.0079	A (1)	0.1457					102	
21.51FL	0.0157	A (1)	0.1181						
21.51FR	0.0157	A (1)	0.1181			104	104		
21.51FN	0.0157	A (1)	0.1339					104	
21.51FR	0.0157	A (1)	0.2165		102				
21.51FL	0.0157	A (1)	0.2165	102					
21.52FN	0.0315	A (1)	0.1181					108	
21.52FR	0.0315	A (1)	0.1969		104				
21.52FL	0.0315	A (1)	0.1969	104					
32.50FN	0.0039	A (1)	0.1890					11100	
32.5.5FR	0.0079	A (1)	0.1575					112	162
32.5.5FN	0.0079	A (1)	0.1850						
32.51FL	0.0157	A (1)	0.1575						
32.51FR	0.0157	A (1)	0.1575			114	114		164
32.51FN	0.0157	A (1)	0.1693					114	
32.51FR	0.0157	A (1)	0.2953		108				
32.51FL	0.0157	A (1)	0.2953	108					
32.52FN	0.0315	A (1)	0.1575					118	
32.52FR	0.0315	A (1)	0.2756		110				
32.52FL	0.0315	A (1)	0.2756	110					
P									
M									
K									
N				•	•	•	•	•	•
S									
H									
O				•	•	•	•	•	•

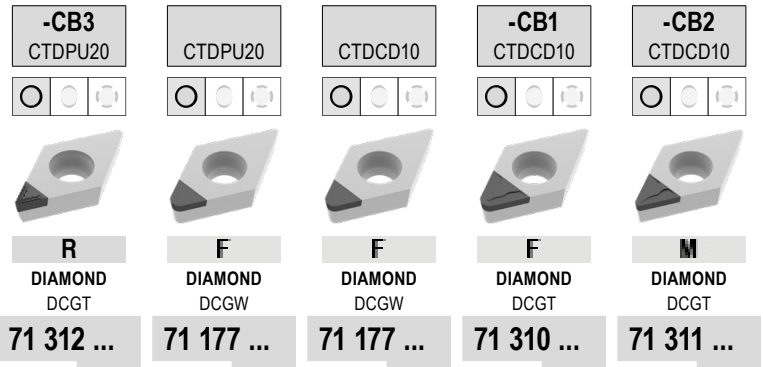
DCGW / DCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	Insert Options					
				-Q CTDPS30	-Q CTDPS30	-Q CTDPS30	-CB1 CTDPS30	-CB2 CTDPS30	-CB3 CTDPU20
				F DIAMOND DCGW	F DIAMOND DCGT	F DIAMOND DCGT	F DIAMOND DCGT	M DIAMOND DCGT	R DIAMOND DCGT
				71 139 ...	71 144 ...	71 145 ...	71 310 ...	71 311 ...	71 312 ...
21.50FL	0.0039	A (1)	0.1181			151			
21.50FR	0.0039	A (1)	0.1181		15000				
21.50FN	0.0039	A (1)	0.1496				20100		
21.5.5FL	0.0079	A (1)	0.1181			152			
21.5.5FR	0.0079	A (1)	0.1181		152				
21.5.5FN	0.0079	A (1)	0.1457				202 204	202 204 208	
21.51FN	0.0157	A (1)	0.1339						204
21.52FN	0.0315	A (1)	0.1181						
32.50FR	0.0039	A (1)	0.1575		161				
32.50FL	0.0039	A (1)	0.1575			161			
32.50FN	0.0039	A (1)	0.1890				21100	21100	
32.5.5FL	0.0079	A (1)	0.1575			162			
32.5.5FR	0.0079	A (1)	0.1575		162				
32.5.5FN	0.0079	A (1)	0.1850				212	212	
32.51FL	0.0157	A (1)	0.1575	164					
32.51FN	0.0157	A (1)	0.1693				214 218	214 218	214 218
32.52FN	0.0315	A (1)	0.1575						214 218
P									
M									
K									
N				•	•	•	•	•	•
S									
H									
O				•	•	•	•	•	•

DCGT / DCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

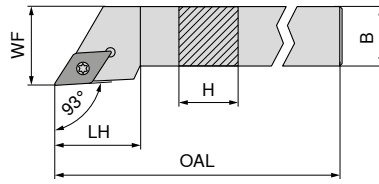


ANSI	RE inch	TCE (NOI)	LE inch	71 312 ...	71 177 ...	71 177 ...	71 310 ...	71 311 ...
21.5.5FN	0.0079	A (1)	0.1024				40001	302
21.51FN	0.0157	A (1)	0.0906				40101	304
21.51FN	0.0157	A (1)	0.1339	204	30001			
21.52FN	0.0315	A (1)	0.0787			40201		308
21.52FN	0.0315	A (1)	0.1181		30101			
32.5.5FN	0.0079	A (1)	0.1024				40301	31200
32.51FN	0.0157	A (1)	0.0906				40401	314
32.51FN	0.0157	A (1)	0.1693	214	30201			314
32.52FN	0.0315	A (1)	0.0787			40501		318
32.52FN	0.0315	A (1)	0.1575	218	30301			
P								
M								
K								
N				•	•	•	•	•
S								
H								
O				•	•	•	•	•

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

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
SDJC R/L 06-2	0.375	0.375	2.500	0.590	0.500	DC..21.5..
SDJC R/L 08-2	0.500	0.500	3.500	0.670	0.625	DC..21.5..
SDJC R/L 10-2	0.625	0.625	4.000	0.670	0.750	DC..21.5..
SDJC R/L 12-2B	0.750	0.750	4.500	0.708	1.000	DC..21.5..
SDJC R/L 12-3B	0.750	0.750	4.500	1.000	1.000	DC..32.5..
SDJC R/L 16-3D	1.000	1.000	6.000	1.100	1.250	DC..32.5..

1) Not in stock

Left-hand 78 555 ...	Right-hand 78 554 ...
00602 ¹⁾	00602 ¹⁾
00802	00802
01002 ¹⁾	01002 ¹⁾
01222 ¹⁾	01222 ¹⁾
01223	01223
01643	01643

Spare parts
for Article no.

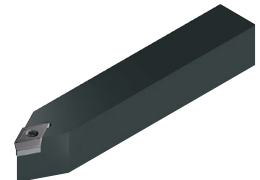
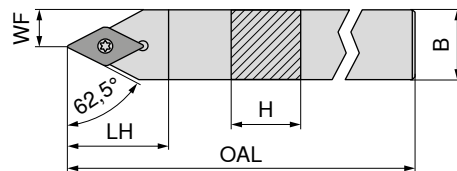
78 554 00602 / 78 555 00602	06400	06200		
78 554 00802 / 78 555 00802	06400	06200		
78 554 01002 / 78 555 01002	06400	06200		
78 554 01222 / 78 555 01222	06400	06200		
78 554 01223 / 78 555 01223	05400	05100	06000	05300
78 554 01643 / 78 555 01643	05400	05100	06000	05300

Key I - TORX® 78 950 ...	Clamping screw 78 950 ...	Solid Carbide Seat D 78 950 ...	Threaded sleeve 78 950 ...
06400	06200		
06400	06200		
06400	06200		
05400	05100	06000	05300
05400	05100	06000	05300

MaxiLock-S – SDPC 62.5° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
SDPC N 06-2	0.375	0.375	2.500	0.370	0.197	DC..21.5..
SDPC N 08-2	0.500	0.500	3.500	0.492	0.260	DC..21.5..
SDPC N 10-3	0.625	0.625	4.000	0.630	0.232	DC..32.5..
SDPC N 12-3B	0.750	0.750	4.500	0.744	0.382	DC..32.5..
SDPC N 16-3D	1.000	1.000	6.000	0.984	0.520	DC..32.5..

1) Not in stock

Neutral 78 582 ...
00602 ¹⁾
00802 ¹⁾
01003 ¹⁾
01223 ¹⁾
01643 ¹⁾

Spare parts
for Article no.

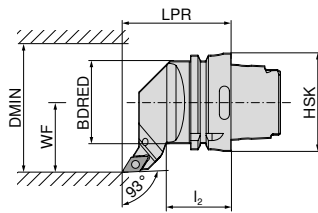
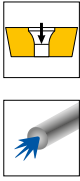
78 582 00602	06400	06200		
78 582 00802	06400	06200		
78 582 01003	05400	05100	06000	05300
78 582 01223	05400	05100	06000	05300
78 582 01643	05400	05100	06000	05300

Key I - TORX® 78 950 ...	Clamping screw 78 950 ...	Solid Carbide Seat D 78 950 ...	Threaded sleeve 78 950 ...
06400	06200		
06400	06200		
05400	05100	06000	05300
05400	05100	06000	05300

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

Scope of supply:

Tool holder with Torx key



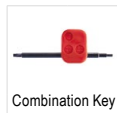
Illustrations show right-hand versions



Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand 74 544 ...	Right-hand 74 543 ...
HSK T63 SDJC R/L 11	HSK-T 63	70	42	53	45	100	3.2	DC.. 11T3	511	511

Spare parts

74 543 511 / 74 544 511	T15/SW	398	M3.5x11	113	106	M3.5	171
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70 950 ...



70 950 ...



70 950 ...

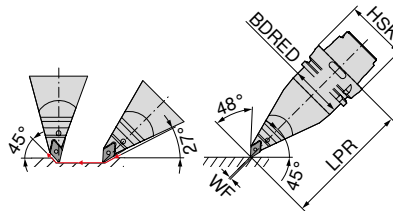
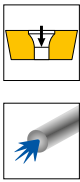


70 950 ...

MaxiLock-S – SDMC 48° – Toolholder with screw clamping

Scope of supply:

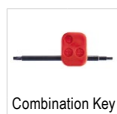
Tool holder with Torx key



Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	Left-hand 74 546 ...
HSK T63 SDMC L 11	HSK-T 63	130	53	0	3.2	DC.. 11T3	511

Spare parts

74 546 511	T15/SW	398	M3.5x11	113	106	M3.5	171
------------	--------	-----	---------	-----	-----	------	-----



70 950 ...



70 950 ...



70 950 ...

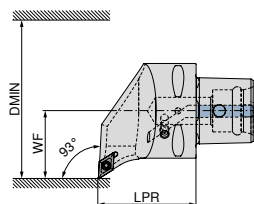


70 950 ...

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

Scope of supply:

Tool holder with Torx key

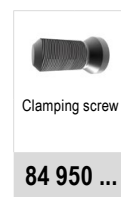


Illustrations show right-hand versions



Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert
PSC40 SDUC R/L 50050-11	PSC 40	50	27	50	3	DC.. 11T3
PSC50 SDUC R/L 65060-11	PSC 50	60	35	65	3	DC.. 11T3
PSC63 SDUC R/L 80065-11	PSC 63	65	45	80	3	DC.. 11T3

Left-hand 84 659 ...	Right-hand 84 658 ...
01195	01195
01194	01194
01193	01193



Spare parts

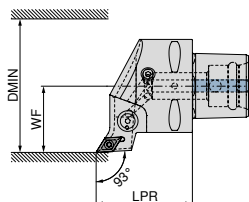
84 658 01193 / 84 659 01195

27600

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

Scope of supply:

without high-performance coolant set



Illustrations show right-hand versions

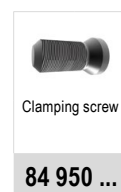


Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible
PSC40 SDJC R/L 50050-11	PSC 40	50	27	50	3	DC.. 11T3	DC
PSC50 SDJC R/L 65060-11	PSC 50	60	35	65	3	DC.. 11T3	DC
PSC63 SDJC R/L 80065-11	PSC 63	65	45	80	3	DC.. 11T3	DC

Left-hand 84 663 ...	Right-hand 84 662 ...
01195	01195
01194	01194
01193	01193



The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46**.



Spare parts

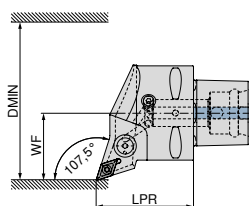
84 662 01193 / 84 663 01195

27600

MaxiLock-S – SDHC 107.5° – Toolholder with screw clamping

Scope of supply:

without high-performance coolant set

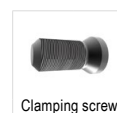


Illustrations show right-hand versions



Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible	Left-hand	Right-hand
								84 667 ...	84 666 ...
PSC40 SDHC R/L 50050-11	PSC 40	50	27	50	3	DC.. 11T3	DC	01195	01195
PSC50 SDHC R/L 65060-11	PSC 50	60	35	65	3	DC.. 11T3	DC	01194	01194
PSC63 SDHC R/L 80065-11	PSC 63	65	45	80	3	DC.. 11T3	DC	01193	01193

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**



Clamping screw

84 950 ...

27600

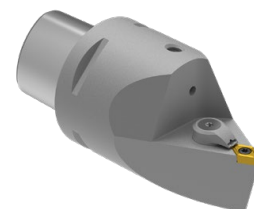
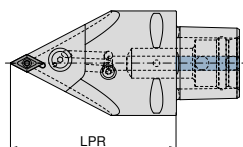
Spare parts

84 666 01193 / 84 667 01195

MaxiLock-S – SDNC 62.5° – Toolholder with screw clamping

Scope of supply:

without high-performance coolant set



Neutral

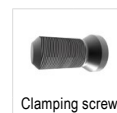
84 677 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible
PSC63 SDNC N 0100-11	PSC 63	100	3	DC.. 11T3	DC
PSC63 SDNC N 0130-11	PSC 63	130	3	DC.. 11T3	DC

01193

11193

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**



Clamping screw

84 950 ...

27600

Spare parts

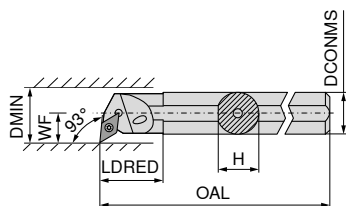
84 677 01193 / 84 677 11193

MaxiLock-S – SDUC 93° – Boring bar with screw clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	DCONMS	H	OAL	LDRED	WF	DMIN	Insert	Left-hand		Right-hand	
								78 721 ...	78 720 ...	78 721 ...	78 720 ...
S06M SDUC R/L 2	0.375	0.340	6.000	0.830	0.375	0.750	DC..21.5..	20617 ¹⁾	20617 ¹⁾	20617 ¹⁾	20617 ¹⁾
A06M SDUC R/L 2	0.375	0.340	6.000	0.830	0.375	0.750	DC..21.5..	20606	20606	20606	20606
S08M SDUC R/L 2	0.500	0.460	6.000	0.910	0.438	0.875	DC..21.5..	20818 ¹⁾	20818 ¹⁾	20818 ¹⁾	20818 ¹⁾
A08M SDUC R/L 2	0.500	0.460	6.000	0.910	0.438	0.875	DC..21.5..	20808 ¹⁾	20808 ¹⁾	20808 ¹⁾	20808 ¹⁾
S10R SDUC R/L 2	0.625	0.580	8.000	1.060	0.500	1.000	DC..21.5..	21021 ¹⁾	21021 ¹⁾	21021 ¹⁾	21021 ¹⁾
A10R SDUC R/L 2	0.625	0.580	8.000	1.060	0.500	1.000	DC..21.5..	21010	21010	21010	21010
S12S SDUC R/L 2EX	0.750	0.710	10.000	0.760	0.625	1.250	DC..21.5..	21222 ¹⁾	21222 ¹⁾	21222 ¹⁾	21222 ¹⁾
S16T SDUC R/L 2DX	1.000	0.900	12.000	1.000	0.750	1.500	DC..21.5..	21626 ¹⁾	21626 ¹⁾	21626 ¹⁾	21626 ¹⁾
S12S SDUC R/L 3M	0.750	0.710	10.000	1.580	0.625	1.250	DC..32.5..	91222 ¹⁾	91222 ¹⁾	91222 ¹⁾	91222 ¹⁾
A12S SDUC R/L 3M	0.750	0.710	10.000	1.580	0.625	1.250	DC..32.5..	91212 ¹⁾	91212 ¹⁾	91212 ¹⁾	91212 ¹⁾
S16T SDUC R/L 3M	1.000	0.910	12.000	1.810	0.750	1.500	DC..32.5..	91626 ¹⁾	91626 ¹⁾	91626 ¹⁾	91626 ¹⁾
S20U SDUC R/L 3M	1.250	1.180	14.000	1.890	0.875	1.750	DC..32.5..	92030 ¹⁾	92030 ¹⁾	92030 ¹⁾	92030 ¹⁾
S20U SDUC R/L 3X	1.250	1.180	14.000	1.270	0.765	1.750	DC..32.5..	32030 ¹⁾	32030 ¹⁾	32030 ¹⁾	32030 ¹⁾

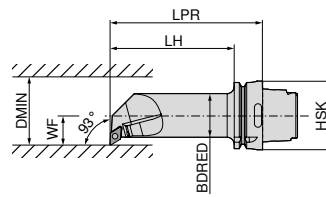
1) Not in stock

Spare parts for Article no.	Key I - TORX®	Clamping screw	Solid Carbide Seat D	Threaded sleeve
	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 720 20617 / 78 721 20617	06400	05200		
78 720 20606 / 78 721 20606	06400	05200		
78 720 20818 / 78 721 20818	06400	05200		
78 720 20808 / 78 721 20808	06400	06200		
78 720 21021 / 78 721 21021	06400	05200		
78 720 21010 / 78 721 21010	06400	06200		
78 720 21222 / 78 721 21222	06400	06200		
78 720 21626 / 78 721 21626	06400	06200		
78 720 91222 / 78 721 91222	05700	05600		
78 720 91212 / 78 721 91212	05700	05600		
78 720 91626 / 78 721 91626	05700	05600		
78 720 92030 / 78 721 92030	05400	05100	06000	05300
78 720 32030 / 78 721 32030	05400	05100	06000	05300

MaxiLock-S – SDUC 93° – Boring bar with screw clamping

Scope of supply:

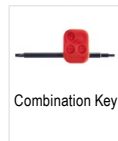
Boring bar with Torx key



Illustrations show right-hand versions

Left-hand	Right-hand
74 566 ...	74 565 ...
511	511

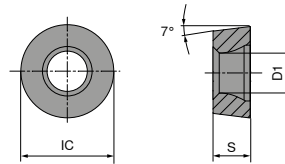
Designation	Adapter	LPR mm	LH mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert		
HSK T63 40L SDUC R/L 11	HSK-T 63	140	114	40	27	50	3.2	DC.. 11T3		



			70 950 ...		70 950 ...		70 950 ...		70 950 ...
Spare parts									
74 565 511 / 74 566 511	T15/SW		398	M3.5x11	113	106	M3.5		171

RCMT / RCGT

Designation	S inch	D1 inch	IC inch
RCGT 06..	0.0937	0.1102	0.2362
RCGT 08..	0.1252	0.1339	0.3150
RC.T 10..	0.1252	0.1575	0.3937
RCMT 10..	0.1563	0.1732	0.3937
RCMT 12..	0.1874	0.1929	0.4724
RCMT 16..	0.250	0.2087	0.6299
RCMT 20..	0.250	0.2559	0.7874
RCMT 25..	0.3126	0.2835	0.9843



RCMT / RCGT

ANSI	RE inch	-SMF CTCK110	NEW -SM CTCP115-P	NEW -SM CTCP115-P	NEW -SM CTCP125-P	NEW -SM CTCP125-P	NEW -SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F RCMT	M RCMT	M RCMT	M RCGT	M RCMT	M RCGT
		70 188 ...	76 186 ...	76 264 ...	76 262 ...	76 264 ...	76 262 ...
0602MOEN	0.1181				50201		70201
0803MOEN	0.1575				51201		71201
1003MOSN	0.1969					51401	
1204MOSN	0.2362			32801		52601	
1606MOEN	0.3150	038		34001		53801	
1606MOSN	0.3150						
2006MOSN	0.3937		35001			55001	
2507MOSN	0.4921			36201		56201	
P		○	●	●	●	●	●
M							○
K		●	○	○	○	○	
N							
S							
H							
O							

RCMT

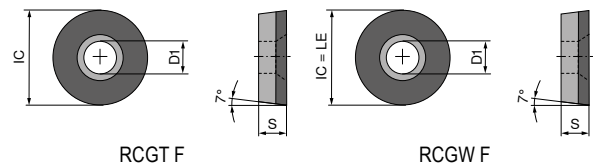
ANSI	RE inch	NEW -SM CTCP135-P	NEW -M23 CTCP115-P	NEW -M23 CTCP115-P	NEW -M23 CTCP125-P	NEW -SM CTCM120	NEW -SM CTPM125
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M	M	M	M	M	M
		RCMT	RCMT	RCMT	RCMT	RCMT	RCMT
		76 264 ...	74 117 ...	74 121 ...	74 121 ...	75 221 ...	75 221 ...
1003MOSN	0.1969	71401				11400	
10T3MOSN	0.1969			21400			
1204MOSN	0.2362	72601		22600	62600		
1606MOSN	0.3150	73801		23800	63800		
2006MOSN	0.3937	75001	25000		65000		25000
2507MOSN	0.4921	76201					26200
P		●	●	●	●	○	○
M		○				●	●
K			○	○	○		
N							
S							
H							
O							

RCGT / RCMT

ISO	RE inch	-25P H210T	-27 H10T	NEW -SM CTPX710	-27 CTPX715
		DRAGONSKIN		DRAGONSKIN	DRAGONSKIN
		F	M	M	M
		RCGT	RCGT	RCMT	RCGT
		70 241 ...	70 266 ...	75 221 ...	70 266 ...
0602M0FN	0.1181		600		70200
0803M0FN	0.1575	60200	602		80200
1003M0FN	0.1969		604		80400
1003M0SN	0.1969			61400	
P				●	●
M				●	●
K		○	○		○
N		●	●	○	●
S		○		●	●
H					
O		○	○		○

RCGW / RCGT

Designation	S inch	D1 inch	IC inch
RCG. 06..	0.0937	0.1102	0.2362
RCGW 10..	0.1252	0.1732	0.3937
RCGW 08..	0.1252	0.1339	0.3150
RCGT 10..	0.1563	0.1732	0.3937
RCGW 12..	0.1874	0.1732	0.4724



RCGW / RCGT

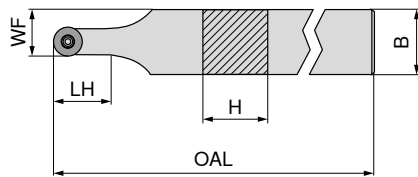
▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	CTDPD20	-CB1 CTDPD20	CTDPS30	-CB1 CTDPS30	-CB2 CTDPS30
0803M0FN	0.1575	F	0.3150	71 179 ...	71 315 ...	71 179 ...	71 315 ...	71 316 ...
0602M0FN	0.1181	F	0.2362	10101	102	20101	202	202
10T3M0FN	0.1969	F	0.3937	10001	104	20001	204	204
1003M0FN	0.2362	F	0.3937	10201				
1204M0FN	0.2362	F	0.4724	10301				
P								
M								
K								
N				•	•	•	•	•
S								
H								
O				•	•	•	•	•

MaxiLock-S – SRDC 0° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Neutral
78 583 ...

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	
SRDC N 08-2	0.500	0.500	3.500	0.8661	0.407	RC..0803M0	00802 ¹⁾
SRDC N 10-3	0.625	0.625	4.000	0.7665	0.510	RC..10T3M0	01003 ¹⁾
SRDC N 12-3B	0.750	0.750	4.500	0.7665	0.570	RC..10T3M0	01223
SRDC N 16-4D	1.000	1.000	6.000	1.1024	0.756	RC..1204M0	01644
SRDC N 20-4D	1.250	1.250	6.000	1.1024	0.861	RC..1204M0	02044

1) Not in stock

Key I - TORX®	Clamping screw	Solid carbide support R	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...
00100	00200	05900	05300
05400	05100	05900	05300
05400	05100	06300	05300
05400	05100	06300	05300

Spare parts
for Article no.

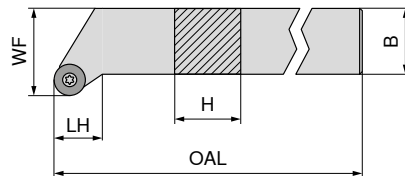
78 583 00802	00100	00200	05900	05300
78 583 01003	05400	05100	05900	05300
78 583 01223	05400	05100	05900	05300
78 583 01644	05400	05100	06300	05300
78 583 02044	05400	05100	06300	05300

9

MaxiLock-S – SRGC – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Left-hand **78 557 ...** Right-hand **78 556 ...**

Designation	H inch	B inch	OAL inch	WF inch	Insert		
SRGC R/L 12-3B	0.750	0.750	4.500	1.000	RC..10T3M0	01223	01223
SRGC R/L 16-3D	1.000	1.000	6.000	1.250	RC..10T3M0	01643 ¹⁾	01643 ¹⁾
SRGC R/L 16-4D	1.000	1.000	6.000	1.250	RC..1204M0	01644	01644
SRGC R/L 20-4D	1.250	1.250	6.000	1.500	RC..1204M0	02044 ¹⁾	02044 ¹⁾
SRGC R/L 85-4D	1.250	1.000	6.000	1.250	RC..1204M0	08544 ¹⁾	08544 ¹⁾

1) Not in stock

Key I - TORX®	Clamping screw	Solid carbide support R	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...
05400	05100	05900	05300
05400	05100	05900	05300
05400	05100	06300	05300
05400	05100	06300	05300

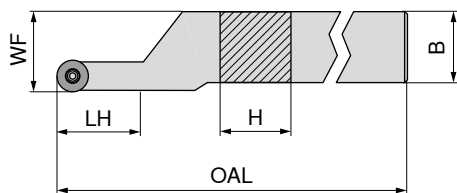
Spare parts
for Article no.

78 556 01223 / 78 557 01223	05400	05100	05900	05300
78 556 01643 / 78 557 01643	05400	05100	05900	05300
78 556 01644 / 78 557 01644	05400	05100	06300	05300
78 556 02044 / 78 557 02044	05400	05100	06300	05300
78 556 08544 / 78 557 08544	05400	05100	06300	05300

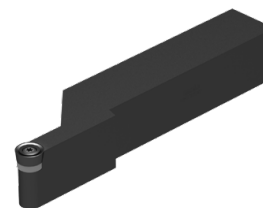
MaxiLock-S – SRSC 45° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert	Left-hand	Right-hand
							78 559 ...	78 558 ...
SRSC R/L 16-3D	1.000	1.000	6.000	0.750	1.250	RC..10T3M0	01643 ¹⁾	01643 ¹⁾
SRSC R/L 20-3D	1.250	1.250	6.000	0.750	1.500	RC..10T3M0	02043 ¹⁾	02043 ¹⁾
SRSC R/L 12-4B	0.750	0.750	4.500	0.750	1.000	RC..1204M0	01224 ¹⁾	01224 ¹⁾
SRSC R/L 16-4D	1.000	1.000	6.000	1.000	1.250	RC..1204M0	01644 ¹⁾	01644 ¹⁾
SRSC R/L 20-4D	1.250	1.250	6.000	1.000	1.500	RC..1204M0	02044 ¹⁾	02044 ¹⁾

1) Not in stock

Key I - TORX®	Clamping screw	Solid carbide support R	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...
05400	05100	05900	05300
05400	05100	05900	05300
05400	05100	06300	05300
05400	05100	06300	05300

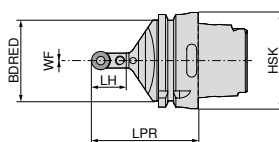
Spare parts for Article no.

78 558 01643 / 78 559 01643
78 558 02043 / 78 559 02043
78 558 01224 / 78 559 01224
78 558 01644 / 78 559 01644
78 558 02044 / 78 559 02044

MaxiLock-N – PRDC 0° – Toolholder with lever clamping

Scope of supply:

Tool holder with allen key



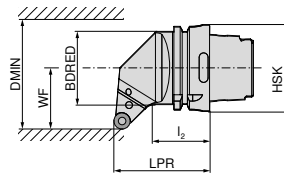
Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	Neutral
							74 548 ...
HSK T63 PRDC N 12	HSK-T 63	70	53	0	3	RC.. 1204 M0	512
HSK T100 PRDC N 12	HSK-T 100	80	88	0	3	RC.. 1204 M0	712
HSK T100 PRDC N 16	HSK-T 100	80	88	0	4	RC.. 1606 M0	716

Spare parts	Key I	Shim	Assembly pin	Lever	Clamping screw	Solid carbide support R
	74 548 716	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
74 548 512 / 74 548 712	176	196	192	387	390	384
	175	197	191	178		215

MaxiLock-N – PRSC – Toolholder with lever clamping

Scope of supply:

Tool holder with allen key



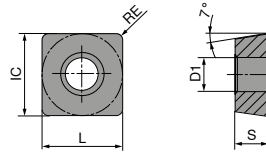
Illustrations show right-hand versions

Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand		Right-hand	
									74 552 ...	74 551 ...	74 552 ...	74 551 ...
HSK T63 PRSC R/L 12	HSK-T 63	70	44	53	45	100	3	RC.. 1204 M0	512		512	
HSK T100 PRSC R/L 12	HSK-T 100	80	57	88	55	106	3	RC.. 1204 M0	712		712	
HSK T100 PRSC R/L 16	HSK-T 100	80	55	88	55	125	4	RC.. 1606 M0	716		716	

Spare parts	Key I	Shim	Assembly pin	Lever	Clamping screw	Solid carbide support R
	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...	70 950 ...
74 551 716 / 74 552 716						
74 551 512 / 74 552 712						

SCGT / SCMT

Designation	L inch	S inch	D1 inch	IC inch
SC.T 32..	0.3748	0.1563	0.1732	0.3748
SC.T 43..	0.5000	0.1874	0.2165	0.5000



SCGT / SCMT

		-CF05 CTEP110		-CF55 CTEP110		-SF TCM10		NEW -SF CTCP115-P		NEW -SF CTCP125-P		NEW -SMF CTCP115-P		NEW -SMF CTCP135-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		F		F		F		F		F		F		F	
		CERMET SCGT		CERMET SCMT		CERMET SCGT		SCMT		SCMT		SCMT		SCMT	
		76 261 ...		76 260 ...		70 271 ...		76 187 ...		76 269 ...		76 267 ...		76 267 ...	
ANSI	RE inch														
32.51EN	0.0157	004		004		902		30601		50401		30401			
32.52EN	0.0315	006		006		904				50601		30601			
432EN	0.0315									51801				71801	
P		●		●		●		●		●		●		●	
M		○		○		○		○		○		○		○	
K		○		○		○		○		○		○		○	
N		○													
S		○													
H		○													
O		○													

SCMT

			NEW	NEW	NEW
		-SM CTCK110	-SM CTCK120	-SM CTCP115-P	-SM CTCP125-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M	M	M	M
		SCMT	SCMT	SCMT	SCMT
		70 268 ...	70 268 ...	76 268 ...	76 268 ...
ANSI	RE				
	inch				
32.51EN	0.0157	004	504	30401	50401
32.52EN	0.0315	006	506	30601	50601
432EN	0.0315	018	518	31801	51801
433EN	0.0472	020	520		52001
P		○	○	●	●
M					○
K		●	●	○	○
N					
S					
H					
O					

SCMT

		NEW	NEW			
		-M25 CTPM125	-SM CTPM125	-M55 CTCM120	-M55 CTPM125	-M55 CTCM130
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F	M	M	M	M
		SCMT	SCMT	SCMT	SCMT	SCMT
		75 222 ...	75 049 ...	75 216 ...	75 216 ...	75 216 ...
ANSI	RE					
	inch					
32.51EN	0.0157	70400	20600	10600	206	30600
32.52EN	0.0315					
432EN	0.0315		21800	11800	218	31800
P		○	○	○	○	○
M		●	●	●	●	●
K						
N						
S						○
H						
O						

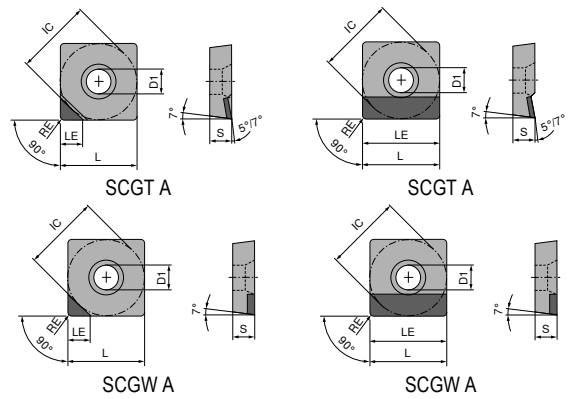
SCGT

-25P H210T	-25P CTPX710	-27 CTPX715	-27 H10T
	DRAGONSKIN 	DRAGONSKIN 	
F SCGT	M SCGT	M SCGT	M SCGT
70 283 ...	70 283 ...	70 270 ...	70 270 ...
		80400	600
		80600	602
634	71600	71800	604

ANSI	RE inch				
32.51FN	0.0157				
32.52FN	0.0315				
432FN	0.0315				
P			●	●	
M			●	●	
K		○		○	○
N		●	●	●	●
S		○	●	●	
H					
O		○		○	○

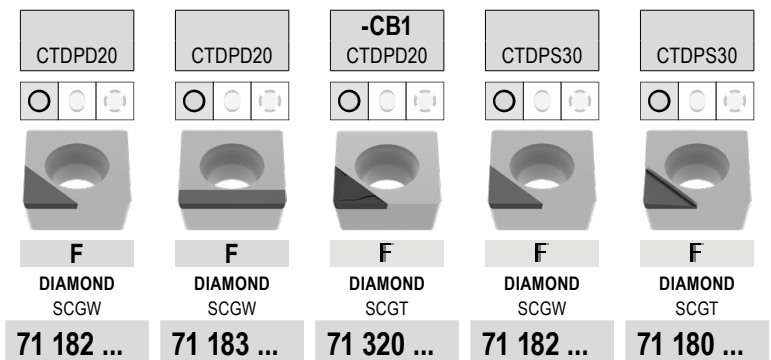
SCGW / SCGT

Designation	L inch	S inch	D1 inch	IC inch
SCG. 32..	0.3748	0.1563	0.1732	0.3748
SCG. 43..	0.5000	0.1874	0.2165	0.5000



SCGW / SCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners



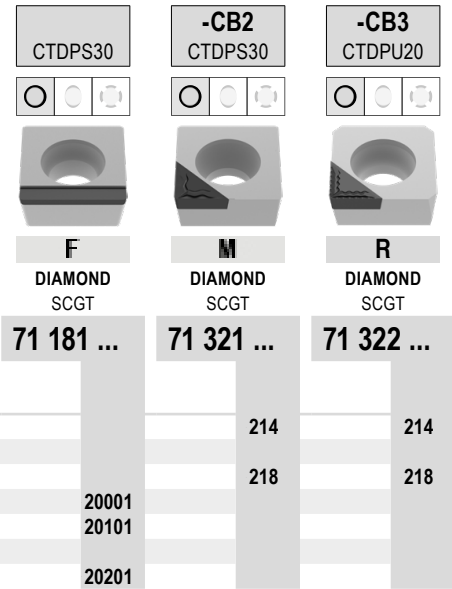
ANSI	RE inch	TCE (NOI)	LE inch	71 182 ...	71 183 ...	71 320 ...	71 182 ...	71 180 ...
32.51FN	0.0157	A (1)	0.1732	10001		114	20601	20001
32.51FNN	0.0157	A (1)	0.3748		10001			
32.52FN	0.0315	A (1)	0.1693	10101		118		20101
32.52FNN	0.0315	A (1)	0.3748		10101			
32.53FN	0.0472	A (1)	0.1654	10201				20201
431FN	0.0157	A (1)	0.1732	10301				
431FNN	0.0157	A (1)	0.5000		10201			
432FN	0.0315	A (1)	0.1693	10401				
432FNN	0.0315	A (1)	0.5000		10301			
433FN	0.0472	A (1)	0.1654	10501				
433FNN	0.0472	A (1)	0.5000		10401			

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

9

SCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners



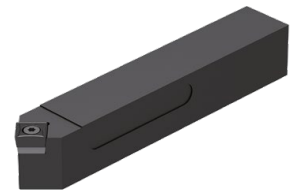
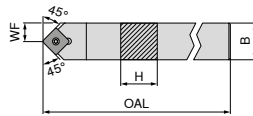
ANSI	RE inch	TCE (NOI)	LE inch
32.51FN	0.0157	A (1)	0.1732
32.52FN	0.0315	A (1)	0.1693
32.52FNN	0.0315	A (1)	0.3740
432FNN	0.0315	A (1)	0.5000
433FNN	0.0472	A (1)	0.4724

P			
M			
K			
N		•	•
S			
H			
O		•	•

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

Scope of supply:

Tool holder with Torx key



Neutral
78 584 ...

Designation	H inch	B inch	OAL inch	WF inch	Insert
SSDC N 08-3	0.500	0.500	3.500	0.263	SC..32.5..
SSDC N 10-3	0.625	0.625	4.000	0.325	SC..32.5..
SSDC N 12-4B	0.750	0.750	4.500	0.388	SC..43..

00803¹⁾
01003¹⁾
01224¹⁾

1) Not in stock

Key I - TORX®	Clamping screw	Solid Carbide support S	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...
	05700	05600	
	05700	05600	
	04700	04600	04400
			04800

**Spare parts
for Article no.**

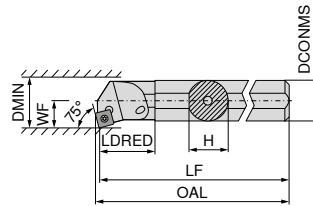
78 584 00803				
78 584 01003				
78 584 01224				

MaxiLock-S – SSKC 75° – Boring bar with screw clamping

- ▲ A... = with thru coolant
- ▲ S... = without thru coolant

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert
S10R SSKC R/L 3	0.625	0.580	8.000	1.060	0.406	0.812	SC..32.5..
S12S SSKC R/L 3	0.750	0.710	10.000	1.580	0.500	1.000	SC..32.5..
S16T SSKC R/L 3	1.000	0.900	12.000	1.810	0.640	1.280	SC..32.5..

1) Not in stock

Left-hand 78 723 ...	Right-hand 78 722 ...
31021 ¹⁾	31021 ¹⁾
31222 ¹⁾	31222 ¹⁾
31626 ¹⁾	31626 ¹⁾



Key I - TORX®

78 950 ...



Clamping screw

78 950 ...

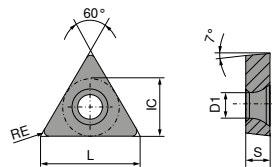
Spare parts

for Article no.

78 722 31021 / 78 723 31021	05700	05800
78 722 31222 / 78 723 31222	05700	05600
78 722 31626 / 78 723 31626	05700	05600

TCGT / TCMT

Designation	L inch	S inch	D1 inch	IC inch
TCMT 1...	0.3780	0.0937	0.0984	0.2189
TC.T 21..	0.4331	0.0937	0.1102	0.2500
TC.T 32..	0.6496	0.1563	0.1732	0.3748
TCMT 43..	0.8661	0.1874	0.2032	0.5000



TCGT / TCMT

ANSI	RE inch	-CF05 CTEP110		-CF55 CTEP110		-SF TCM10		-SMF TCM10		NEW -SF CTCP125-P		NEW -SMF CTCP115-P		NEW -SMF CTCP135-P	
		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN		DRAGONSKIN	
		F		F		F		F		F		F		F	
		CERMET TCGT		CERMET TCMT		CERMET TCGT		CERMET TCMT		TCMT		TCMT		TCMT	
		76 272 ...		76 266 ...		70 273 ...		70 284 ...		76 275 ...		76 284 ...		76 284 ...	
21.5.5EN	0.0079	014		016		900		902		51601		31801		71801	
21.51EN	0.0157	016		016		902		902		51801		31801		71801	
21.52EN	0.0315	018		016		902		902		51801		31801		71801	
32.51EN	0.0157	028		030		906		902		52801		32801		71801	
32.52EN	0.0315	028		030		906		902		53001		33001		71801	
P		●		●		●		●		●		●		●	
M		○		○		○		○		○		○		○	
K		○		○		○		○		○		○		○	
N		○													
S		○													
H		○													
O		○													

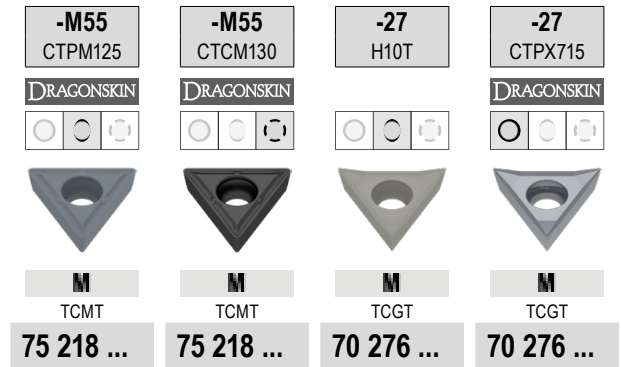
TCGT / TCMT

		NEW		NEW		NEW		NEW	
		-SM CTCP135-P	-SM CTCK110	-SM CTCK120	-SM CTCP115-P	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P	-SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		M TCGT	M TCMT	M TCMT	M TCMT	M TCMT	M TCMT	M TCMT	M TCMT
		76 270 ...	70 274 ...	70 274 ...	76 189 ...	76 274 ...	76 274 ...	76 274 ...	76 274 ...
ANSI	RE inch								
1.81.51EN	0.0157							50401	70401
21.5.5EN	0.0079	71401							
21.51EN	0.0157		016	516		31601	51601		71601
21.52EN	0.0315		018	518		31801			71801
32.51EN	0.0157		028	528		32801	52801		72801
32.52EN	0.0315		030	530		33001	53001		73001
32.53EN	0.0472		032	532					
432EN	0.0315				34201		54201		74201
P		●	○	○	●	●	●	●	●
M		○	○	○	○	○	○	○	○
K			●	●	○	○	○	○	○
N									
S									
H									
O									

TCMT

		NEW		NEW		NEW	
		-F43 CTCM130	-M25 CTCM120	-M25 CTPM125	-M25 CTCM130	-SM CTPM125	-M55 CTCM120
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F TCMT	F TCMT	F TCMT	F TCMT	M TCMT	M TCMT
		75 033 ...	75 217 ...	75 217 ...	75 217 ...	75 050 ...	75 218 ...
ANSI	RE inch						
1.81.51EN	0.0157			20400		20400	10400
21.51EN	0.0157	31600	11600	216	31600	21600	11600
32.51EN	0.0157	32800	12800	228	32800	22800	
32.52EN	0.0315	33000	13000	230	33000	23000	13000
432EN	0.0315					24200	
433EN	0.0472					24400	
P		○	○	○	○	○	○
M		●	●	●	●	●	●
K							
N							
S		○			○		
H							
O							

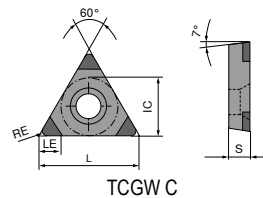
TCMT / TCGT



ANSI	RE inch	75 218 ...	75 218 ...	70 276 ...	70 276 ...
1.81.51EN	0.0157	204	30400		
21.5.5FN	0.0079			600	71400
21.51EN	0.0157	216	31600	602	81600
21.51FN	0.0157				
32.5.5FN	0.0079			604	
32.51FN	0.0157			606	72800
32.52EN	0.0315	230	33000		
32.52FN	0.0315			608	83000
P		○	○		●
M		●	●		●
K				○	○
N				●	●
S			○		●
H					
O				○	○

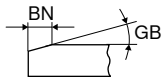
TCGW

Designation	L inch	S inch	D1 inch	IC inch
TCGW 21.5..	0.4331	0.0937	0.1102	0.2500
TCGW 32.5..	0.6496	0.1563	0.1732	0.3748



TCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



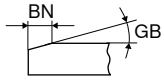
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F	F	F
PCBN TCGW	PCBN TCGW	PCBN TCGW
71 034 ...	71 034 ...	71 034 ...
70002	80002	90002
70302	80302	90302
70602	80602	90602
70902	80902	90902

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.51EN	0.0157			C (3)	0.1417
21.51SN	0.0157	0.0055	20°	C (3)	0.1417
21.52EN	0.0315			C (3)	0.1299
21.52SN	0.0315	0.0055	20°	C (3)	0.1299
32.51EN	0.0157			C (3)	0.1417
32.51SN	0.0157	0.0055	20°	C (3)	0.1417
32.52EN	0.0315			C (3)	0.1299
32.52SN	0.0315	0.0055	20°	C (3)	0.1299

P
M
K
N
S
H
O

TCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



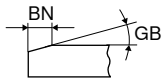
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN TCGW	PCBN TCGW	PCBN TCGW
71 034 ...	71 034 ...	71 034 ...
70102	80102	90102
70402	80402	90402
70702	80702	90702
71002	81002	91002

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.51SN	0.0157	0.0035	15°	C (3)	0.1417
21.51SN	0.0157	0.0071	25°	C (3)	0.1417
21.52SN	0.0315	0.0035	15°	C (3)	0.1299
21.52SN	0.0315	0.0071	25°	C (3)	0.1299
32.51SN	0.0157	0.0035	15°	C (3)	0.1417
32.51SN	0.0157	0.0071	25°	C (3)	0.1417
32.52SN	0.0315	0.0035	15°	C (3)	0.1299
32.52SN	0.0315	0.0071	25°	C (3)	0.1299

P			
M			
K			
N			
S			
H			
O			

TCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



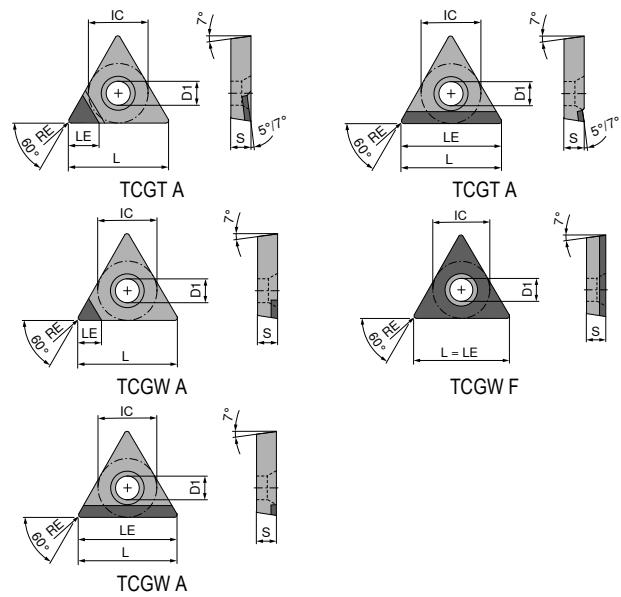
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN	PCBN	PCBN
TCGW	TCGW	TCGW
71 034 ...	71 034 ...	71 034 ...
70202	80202	90202
70502	80502	90502
70802	80802	90802
71102	81102	91102

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
21.51SN	0.0157	0.0055	20°	C (3)	0.1417
21.51SN	0.0157	0.0079	35°	C (3)	0.1417
21.52SN	0.0315	0.0055	20°	C (3)	0.1299
21.52SN	0.0315	0.0079	35°	C (3)	0.1299
32.51SN	0.0157	0.0055	20°	C (3)	0.1417
32.51SN	0.0157	0.0079	35°	C (3)	0.1417
32.52SN	0.0315	0.0055	20°	C (3)	0.1299
32.52SN	0.0315	0.0079	35°	C (3)	0.1299

P			
M			
K			
N			
S			
H			
O			

TCGW / TCGT

Designation	L inch	S inch	D1 inch	IC inch
TCGT 181...	0.3780	0.0937	0.0984	0.2189
TCGW 1.81..	0.3780	0.0937	0.0984	0.2189
TCG. 21.5..	0.4331	0.0937	0.1102	0.2500
TCG. 32.5..	0.6496	0.1563	0.1732	0.3748



TCGW / TCGT

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch							
				71 188 ...	71 187 ...	71 140 ...	71 184 ...	71 325 ...	71 184 ...	
1.81.5.5FN	0.0079	A (1)	0.1457			100				
181.5.5FN	0.0079	A (1)	0.1457					112		20001
1.81.5.1FN	0.0157	A (1)	0.1339			102				
181.5.1FN	0.0157	A (1)	0.1339					114		20101
1.81.5.2FN	0.0315	A (1)	0.1181			104				
181.5.2FN	0.0315	A (1)	0.1181				10001			
1.81.5.2FNN	0.0315	A (1)	0.3780	10001						
21.5.5FN	0.0079	A (1)	0.1457			106				
21.5.5FN	0.0079	F	0.4331		10001		10101	122		
21.51FN	0.0157	A (1)	0.1339			108				
21.51FN	0.0157	F	0.4331		10101		10201	124		20201
21.51FNN	0.0157	A (1)	0.4331	10101						
21.52FN	0.0315	A (1)	0.1181			110				
21.52FNN	0.0315	A (1)	0.4331	10201			10301			
32.51FN	0.0157	A (1)	0.1811			112				
32.51FNN	0.0157	A (1)	0.6496	10301			10401	134		20301
32.52FN	0.0315	A (1)	0.1654			114				
32.52FNN	0.0315	A (1)	0.6496	10401			10501	13600		
32.53FN	0.0472	A (1)	0.1496			11600				
P										
M										
K										
N				•	•	•	•	•	•	•
S										
H										
O				•	•	•	•	•	•	•

TCGW / TCGT

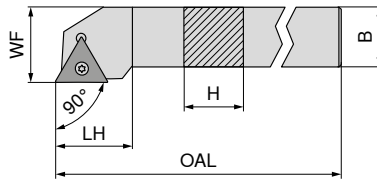
▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	Insert Design					
				CTDPS30 	CTDPS30 	-CB2 CTDPS30 	CTDPU20 	-CB3 CTDPU20 	CTDCD10
				F DIAMOND TCGW 71 186 ...	F DIAMOND TCGT 71 185 ...	M DIAMOND TCGT 71 326 ...	F DIAMOND TCGW 71 188 ...	R DIAMOND TCGT 71 327 ...	F DIAMOND TCGW 71 186 ...
181.5.5FN	0.0079	A (1)	0.1457			212			
1.81.5.5FN	0.0079	A (1)	0.1457	20001					
181.5.1FN	0.0157	A (1)	0.1339			214			
181.5.1FNN	0.0157	A (1)	0.3780		20001				
21.5.5FN	0.0079	A (1)	0.1024						40001
21.5.5FN	0.0079	A (1)	0.1457	20101		222			
21.51FN	0.0157	A (1)	0.0906						40101
21.51FN	0.0157	A (1)	0.1339	20201		224		224	
21.51FNN	0.0157	A (1)	0.4331		20101		30001		
21.52FN	0.0315	A (1)	0.0787						40201
21.52FNN	0.0315	A (1)	0.4331		20201				
32.51FN	0.0157	A (1)	0.0906						40301
32.51FN	0.0157	A (1)	0.1811			234			
32.51FNN	0.0157	A (1)	0.6496		20301				
32.52FN	0.0315	A (1)	0.0787						40401
32.52FN	0.0315	A (1)	0.1654					238	
32.52FNN	0.0315	A (1)	0.6496		20401				
P									
M									
K									
N				•	•	•	•	•	•
S									
H									
O				•	•	•	•	•	•

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

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
STGC R/L 06-2	0.375	0.375	2.500	0.500	0.500	TC..21.5..
STGC R/L 08-2	0.500	0.500	3.500	0.560	0.625	TC..21.5..
STGC R/L 10-3	0.625	0.625	4.000	1.000	0.750	TC..32.5..
STGC R/L 12-3B	0.750	0.750	4.500	1.000	1.000	TC..32.5..
STGC R/L 16-3D	1.000	1.000	6.000	1.000	1.250	TC..32.5..

1) Not in stock

Left-hand 78 565 ...	Right-hand 78 564 ...
00602 ¹⁾	00602 ¹⁾
00802 ¹⁾	00802 ¹⁾
01003 ¹⁾	01003 ¹⁾
01223 ¹⁾	01223 ¹⁾
01643 ¹⁾	01643 ¹⁾

Spare parts
for Article no.

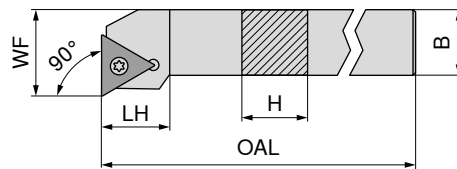
78 564 00602 / 78 565 00602	06400	06200		
78 564 00802 / 78 565 00802	06400	06200		
78 564 01003 / 78 565 01003	05400	05100	06100	05300
78 564 01223 / 78 565 01223	05400	05100	06100	05300
78 564 01643 / 78 565 01643	05400	05100	06100	05300

Key I - TORX®	Clamping screw	Solid Carbide Seat T	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...

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

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
STFC R/L 06-2	0.375	0.375	2.500	0.400	0.500	TC..21.5..
STFC R/L 08-2	0.500	0.500	3.500	0.689	0.625	TC..21.5..
STFC R/L 10-3	0.625	0.625	4.000	1.000	0.750	TC..32.5..
STFC R/L 12-3B	0.750	0.750	4.500	1.000	1.000	TC..32.5..
STFC R/L 16-3D	1.000	1.000	6.000	1.000	1.250	TC..32.5..

1) Not in stock

Left-hand 78 563 ...	Right-hand 78 562 ...
00602 ¹⁾	00602 ¹⁾
00802 ¹⁾	00802 ¹⁾
01003 ¹⁾	01003 ¹⁾
01223 ¹⁾	01223 ¹⁾
01643 ¹⁾	01643 ¹⁾

Spare parts
for Article no.

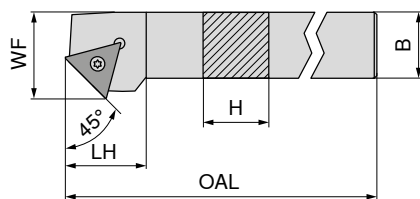
78 562 00602 / 78 563 00602	06400	06200		
78 562 00802 / 78 563 00802	06400	06200		
78 562 01003 / 78 563 01003	05400	05100	06100	05300
78 562 01223 / 78 563 01223	05400	05100	06100	05300
78 562 01643 / 78 563 01643	05400	05100	06100	05300

Key I - TORX®	Clamping screw	Solid Carbide Seat T	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...

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

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



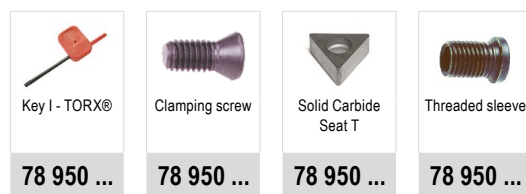
Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
STDC R/L 06-2	0.375	0.375	2.500	0.410	0.433	TC..21.5..
STDC R/L 08-2	0.500	0.500	3.500	0.570	0.512	TC..21.5..
STDC R/L 10-3	0.625	0.625	4.000	1.000	0.669	TC..32.5..
STDC R/L 12-3B	0.750	0.750	4.500	1.000	0.866	TC..32.5..
STDC R/L 16-3D	1.000	1.000	6.000	1.000	1.063	TC..32.5..

1) Not in stock

Left-hand 78 561 ...	Right-hand 78 560 ...
00602 ¹⁾	00602 ¹⁾
00802 ¹⁾	00802 ¹⁾
01003 ¹⁾	01003 ¹⁾
01223 ¹⁾	01223 ¹⁾
01643 ¹⁾	01643 ¹⁾

Spare parts
for Article no.

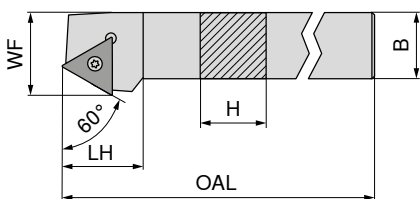
78 560 00602 / 78 561 00602	06400	06200		
78 560 00802 / 78 561 00802	06400	06200		
78 560 01003 / 78 561 01003	05400	05100	06100	05300
78 560 01223 / 78 561 01223	05400	05100	06100	05300
78 560 01643 / 78 561 01643	05400	05100	06100	05300



MaxiLock-S – STTC 60° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



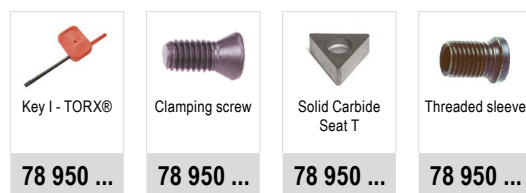
Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
STTC R/L 12-3B	0.750	0.750	4.500	1.000	0.718	TC..32.5..
STTC R/L 16-3D	1.000	1.000	6.000	1.000	0.860	TC..32.5..

1) Not in stock

Left-hand 78 567 ...	Right-hand 78 566 ...
01223 ¹⁾	01223 ¹⁾
01643 ¹⁾	01643 ¹⁾

Spare parts
for Article no.

78 566 01223 / 78 567 01223	05400	05100	06100	05300
78 566 01643 / 78 567 01643	05400	05100	06100	05300

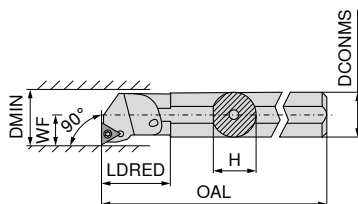


MaxiLock-S – STFC 90° – Boring bar with screw clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



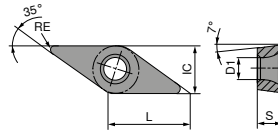
Designation	DCONMS	H	OAL	LDRED	WF	DMIN	Insert	Left-hand		Right-hand	
								78 725 ...	78 724 ...	78 725 ...	78 724 ...
S06M STFC R/L 2	0.375	0.340	6.000	0.850	0.250	0.500	TC..21.5..	20617 ¹⁾		20617 ¹⁾	
A06M STFC R/L	0.375	0.340	6.000	0.850	0.250	0.500	TC..21.5..	20606		20606	
S08M STFC R/L 2	0.500	0.460	6.000	0.800	0.312	0.625	TC..21.5..	20818 ¹⁾		20818 ¹⁾	
A08M STFC R/L	0.500	0.460	6.000	0.800	0.312	0.625	TC..21.5..	20808 ¹⁾		20808 ¹⁾	
S10R STFC R/L 2	0.625	0.580	8.000	0.960	0.406	0.812	TC..21.5..	21021 ¹⁾		21021 ¹⁾	
A10R STFC R/L	0.625	0.580	8.000	0.960	0.406	0.812	TC..21.5..	21010		21010	
S12S STFC R/L 2	0.750	0.710	10.000	1.420	0.500	1.000	TC..21.5..	21222 ¹⁾		21222 ¹⁾	
A12S STFC R/L	0.750	0.710	10.000	1.420	0.500	1.000	TC..21.5..	21212 ¹⁾		21212 ¹⁾	
S16T STFC R/L 3	1.000	0.900	12.000	1.930	0.640	1.280	TC..32.5..	31626 ¹⁾		31626 ¹⁾	
S20U STFC R/L 3	1.250	1.180	14.000	1.970	0.765	1.530	TC..32.5..	32030 ¹⁾		32030 ¹⁾	
S24V STFC R/L 3	1.500	1.370	16.000	2.360	0.890	1.780	TC..32.5..	32435 ¹⁾		32435 ¹⁾	

1) Not in stock

	Key I - TORX®	Clamping screw	Solid Carbide Seat T	Threaded sleeve
	78 950 ...	78 950 ...	78 950 ...	78 950 ...
Spare parts for Article no.				
78 724 20617 / 78 725 20617	06400	05200		
78 724 20606 / 78 725 20606	06400	05200		
78 724 20818 / 78 725 20818	06400	05200		
78 724 20808 / 78 725 20808	06400	06200		
78 724 21021 / 78 725 21021	06400	06200		
78 724 21010 / 78 725 21010	06400	06200		
78 724 21222 / 78 725 21222	06400	06200		
78 724 21212 / 78 725 21212	06400	06200		
78 724 31626 / 78 725 31626	05700	05600		
78 724 32030 / 78 725 32030	05400	05100	06100	05300
78 724 32435 / 78 725 32435	05400	05100	06100	05300

VCGT / VCMT / VCET

Designation	L inch	S inch	D1 inch	IC inch
VC.T 22..	0.4370	0.1252	0.1142	0.2500
VC.T 33..	0.6535	0.1874	0.1732	0.3748
VCGT 43..	0.8701	0.2189	0.2165	0.5000



VCGT / VCMT

ANSI	RE inch	-CF05 CTEP110	-CF55 CTEP110	-SF TCM407	-SF TCM10	-SMF TCM10	NEW -SF CTCP115-P	NEW -SF CTCP115-P
		DRAGONSKIN	DRAGONSKIN				DRAGONSKIN	DRAGONSKIN
		F CERMET VCGT	F CERMET VCMT	F CERMET VCGT	F CERMET VCGT	F CERMET VCMT	F VCMT	F VCGT
		76 276 ...	76 292 ...	70 277 ...	70 277 ...	70 288 ...	76 279 ...	76 277 ...
22.5EN	0.0079	014		844	894			31401
220EN	0.0039				892			
221EN	0.0157	016	016	846	896	896		31601
222EN	0.0315							31801
331EN	0.0157	028	028	850	900	900	32801	
332EN	0.0315	030	030		902	902	33001	
P		●	●	●	●	●	●	●
M		○	○	○	○	○		
K		○	○	○	○	○	○	○
N								
S								
H								
O								

VCGT / VCMT

ANSI	RE inch	NEW -SF CTCP125-P	NEW -SF CTCP125-P	NEW -SF CTCP135-P	NEW -SF CTCP135-P	NEW -SMF CTCP115-P	NEW -SMF CTCP125-P	NEW -SMF CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F VCGT	F VCMT	F VCGT	F VCMT	F VCMT	F VCMT	F VCGT
		76 277 ...	76 279 ...	76 277 ...	76 279 ...	76 288 ...	76 288 ...	76 285 ...
22.5EN	0.0079	51401		71401				71401
221EN	0.0157	51601		71601		31601	51601	
222EN	0.0315	51801		71801				
331EN	0.0157		52801		72801	32801	52801	
332EN	0.0315		53001			33001	53001	
P		●	●	●	●	●	●	●
M				○	○			○
K		○	○			○	○	
N								
S								
H								
O								

VCMT

		NEW			NEW	NEW	NEW
		-SMF CTCP135-P	-SM CTCK110	-SM CTCK120	-SM CTCP115-P	-SM CTCP125-P	-SM CTCP135-P
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F VCMT	M VCMT	M VCMT	M VCMT	M VCMT	M VCMT
		76 288 ...	70 278 ...	70 278 ...	76 278 ...	76 278 ...	76 278 ...
ANSI	RE inch						
221EN	0.0157	71601					
331.5EN	0.0236				32901		
331EN	0.0157	72801	028	528	32801	52801	72801
332EN	0.0315	73001	030	530	33001	53001	73001
333EN	0.0472		032	532	33201	53201	73201
P		●	○	○	●	●	●
M		○					○
K			●	●	○	○	
N							
S							
H							
O							

VCGT / VCMT

		NEW	NEW			NEW	
		-SF CTPM125	-SF CTPM125	-M25 CTCM120	-M25 CTPM125	-M25 CTCM130	-SM CTPM125
		DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN	DRAGONSKIN
		F VCGT	F VCMT	F VCMT	F VCMT	F VCMT	M VCMT
		75 045 ...	75 046 ...	75 219 ...	75 219 ...	75 219 ...	75 051 ...
ANSI	RE inch						
220.5EN	0.0079	21400					
221EN	0.0157	21600					
331EN	0.0157		22800	12800	228	32800	22800
332EN	0.0315		23000	13000	23000	33000	23000
							12800
							13000
P		○	○	○	○	○	○
M		●	●	●	●	●	●
K							
N							
S						○	
H							
O							

VCMT / VCGT

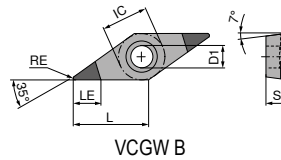
		-M55 CTPM125		-M55 CTCM130		-25P H210T		-25P CTPX710		-25Q H210T		NEW -25Q CTPX710	
		DRAGONSKIN		DRAGONSKIN				DRAGONSKIN					
		M VCMT		M VCMT		F VCGT		M VCGT		M VCGT		M VCGT	
		75 220 ...		75 220 ...		70 282 ...		70 282 ...		70 282 ...		70 282 ...	
ANSI	RE inch												
22.5FN	0.0079					638		71400				81600	
221FL	0.0157					640		71600		670		81700	
221FN	0.0157									680			
221FR	0.0157												
331EN	0.0157	228		32800		642		72800					
331FN	0.0157					644		73000					
332EN	0.0315	230		33000		646		73200					
332FN	0.0315												
333FN	0.0472					648		75000					
43.57.5FN	0.1181												
P		○		○				●				●	
M		●		●				●				●	
K						○				○			
N						●		●		●		●	
S				○		○		●		○		●	
H													
O						○				○			

VCGT / VCMT / VCET

		-27 H10T		-27 CTPX715		-29 H216T		NEW -29 CTPX715		-F05 CTPX710	
				DRAGONSKIN				DRAGONSKIN		DRAGONSKIN	
		M VCGT		M VCGT		M VCMT		M VCMT		F VCET	
		70 280 ...		70 280 ...		70 247 ...		70 247 ...		76 255 ...	
ANSI	RE inch										
22.5FN	0.0079	606		81400						12000	
2205FN	0.0059									11800	
220FN	0.0039									11600	
221FN	0.0157	608		81600						12200	
222FN	0.0315	610		71800							
22X0FN	0.0020									11400	
331EN	0.0157					62800		72800			
331FN	0.0157	612		82800							
332EN	0.0315					63000		73000			
332FN	0.0315	614		83000							
333EN	0.0472					63200		73200			
333FN	0.0472	616									
43.57.5FN	0.1181	618									
P				●				●		●	
M				●				●		●	
K		○		○		○		○		○	
N		●		●		●		●		●	
S				●				●		●	
H											
O		○		○		○		○		○	

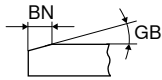
VCGW

Designation	L inch	S inch	D1 inch	IC inch
VCGW 220...	0.4370	0.1252	0.1142	0.2500
VCGW 221E..	0.4370	0.1252	0.1142	0.2500
VCGW 221S..	0.4370	0.1252	0.1142	0.2500
VCGW 330...	0.6535	0.1874	0.1732	0.3748
VCGW 331E..	0.6535	0.1874	0.1732	0.3748
VCGW 331S..	0.6535	0.1874	0.1732	0.3748
VCGW 332E..	0.6535	0.1874	0.1732	0.3748
VCGW 332S..	0.6535	0.1874	0.1732	0.3748



VCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



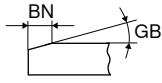
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
F PCBN VCGW	F PCBN VCGW	F PCBN VCGW
71 041 ...	71 041 ...	71 041 ...
70002	80002	90002
70302	80302	90302
70602	80602	90602
70902	80902	90902
71202	81202	91202

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch
220.5EN	0.0079			B (2)	0.2165
220.5SN	0.0079	0.0055	20°	B (2)	0.2165
221EN	0.0157			B (2)	0.2008
221SN	0.0157	0.0055	20°	B (2)	0.2008
330.5EN	0.0079			B (2)	0.2165
330.5SN	0.0079	0.0055	20°	B (2)	0.2165
331EN	0.0157			B (2)	0.2008
331SN	0.0157	0.0055	20°	B (2)	0.2008
332EN	0.0315			B (2)	0.1654
332SN	0.0315	0.0055	20°	B (2)	0.1654

P			
M			
K			
N			
S			
H			
O			

VCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
M	M	M
PCBN VCGW	PCBN VCGW	PCBN VCGW
71 041 ...	71 041 ...	71 041 ...
70102	80102	90102
70402	80402	90402
70702	80702	90702
71002	81002	91002
71302	81302	91302

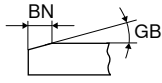
ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch			
220.5SN	0.0079	0.0035	15°	B (2)	0.2165		70102	80102
220.5SN	0.0079	0.0071	25°	B (2)	0.2165			90102
221SN	0.0157	0.0035	15°	B (2)	0.2008		70402	80402
221SN	0.0157	0.0071	25°	B (2)	0.2008			90402
330.5SN	0.0079	0.0035	15°	B (2)	0.2165		70702	80702
330.5SN	0.0079	0.0071	25°	B (2)	0.2165			90702
331SN	0.0157	0.0035	15°	B (2)	0.2008		71002	81002
331SN	0.0157	0.0071	25°	B (2)	0.2008			91002
332SN	0.0315	0.0035	15°	B (2)	0.1654		71302	81302
332SN	0.0315	0.0071	25°	B (2)	0.1654			91302

P
M
K
N
S
H
O

9

VCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners



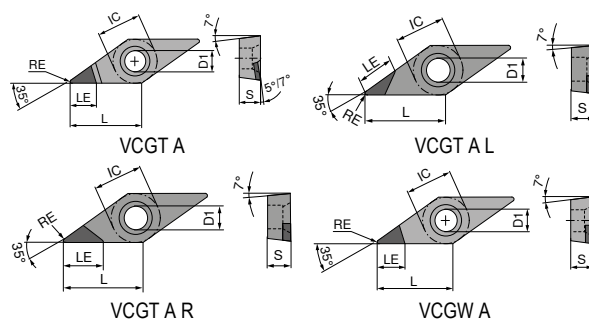
NEW	NEW	NEW
CTBH1000C	CTBH2000C	CTBH3000C
R	R	R
PCBN	PCBN	PCBN
VCGW	VCGW	VCGW
71 041 ...	71 041 ...	71 041 ...

ANSI	RE inch	BN inch	GB	TCE (NOI)	LE inch			
220.5SN	0.0079	0.0055	20°	B (2)	0.2165		70202	80202
220.5SN	0.0079	0.0079	35°	B (2)	0.2165			90202
221SN	0.0157	0.0055	20°	B (2)	0.2008		70502	80502
221SN	0.0157	0.0079	35°	B (2)	0.2008			90502
330.5SN	0.0079	0.0055	20°	B (2)	0.2165		70802	80802
330.5SN	0.0079	0.0079	35°	B (2)	0.2165			90802
331SN	0.0157	0.0055	20°	B (2)	0.2008		71102	81102
331SN	0.0157	0.0079	35°	B (2)	0.2008			91102
332SN	0.0315	0.0055	20°	B (2)	0.1654		71402	81402
332SN	0.0315	0.0079	35°	B (2)	0.1654			91402

P			
M			
K			
N			
S			
H			
O			

VCGT / VCGW

Designation	L inch	S inch	D1 inch	IC inch
VCG. 1...	0.2717	0.0937	0.0866	0.1563
VCG. 22...	0.4370	0.1252	0.1142	0.2500
VCG. 2...	0.5236	0.1252	0.1339	0.3126
VCG. 33...	0.6535	0.1874	0.1732	0.3748



VCGT / VCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	CTDMD05						
				71 189 ...	71 160 ...	71 160 ...	71 062 ...	71 063 ...	71 064 ...	
1.21.5.FN	0.0079	A (1)		50001						
1.21.51FN	0.0157	A (1)		50101						
220FN	0.0039	A (1)	0.2126				10100			
22.5FN	0.0079	A (1)	0.1181		050		100			
22.5FN	0.0079	A (1)	0.1811	50201		100	100			
221FN	0.0157	A (1)	0.1181		052					
221FN	0.0157	A (1)	0.1535	50301		102	102			
221FR	0.0157	A (1)	0.2559					102		
221FL	0.0157	A (1)	0.2559							102
222FN	0.0315	A (1)	0.1299			104	104			
222FR	0.0315	A (1)	0.2362					104		
222FL	0.0315	A (1)	0.2362						104	104
330FN	0.0039	A (1)	0.2362				10700			
33.5FN	0.0079	A (1)	0.2323			105	105			
33.5FN	0.0079	A (1)		50401						
331FN	0.0157	A (1)	0.2165			106	106			
331FN	0.0157	A (1)		50501						
331FR	0.0157	A (1)	0.2953					106		
331FL	0.0157	A (1)	0.2953							106
332FN	0.0315	A (1)	0.1969		07800	108	108			
332FR	0.0315	A (1)	0.2756					108		
332FL	0.0315	A (1)	0.2756						108	108
332FN	0.0315	A (1)		50601						
333FN	0.0472	A (1)	0.1772			110	110			
333FR	0.0472	A (1)	0.2756					110		
333FL	0.0472	A (1)	0.2756						110	110
P										
M										
K										
N				•	•	•	•	•	•	•
S										
H										
O				•	•	•	•	•	•	•

9

VCGT / VCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

ANSI	RE inch	TCE (NOI)	LE inch	-CB1 CTDPD20		CTDPS30		CTDPS30		-CB1 CTDPS30		-CB2 CTDPS30		CTDPU20	
				○	○	○	○	○	○	○	○	○	○	○	○
				F	F	F	F	F	F	M	F				
				DIAMOND VCGT	DIAMOND VCGW	DIAMOND VCGT	DIAMOND VCGT	DIAMOND VCGT	DIAMOND VCGT	DIAMOND VCGT	DIAMOND VCGW				
				71 330 ...	71 191 ...	71 189 ...	71 330 ...	71 331 ...	71 191 ...						
1.21.50FN	0.0039	A (1)	0.1496			20001									
1.21.5.5FN	0.0079	A (1)	0.1417		20001										
1.21.51FN	0.0157	A (1)	0.1260		20101										
220FN	0.0039	A (1)	0.2126	11000	20201	20101									
22.5FN	0.0079	A (1)	0.1811	112	20301	20201	21200	212							
221FN	0.0157	A (1)	0.1535	114	20401	20301	214	214							
222FN	0.0315	A (1)	0.1299					21800							
2.52.5FN	0.0079	A (1)	0.2323		20501	20401									
330FN	0.0039	A (1)	0.2362		20601	20501									
33.5FN	0.0079	A (1)	0.2323	13200		20601						23200			
331FN	0.0157	A (1)	0.2165	134	20701	20701	234	234				234			30001
332FN	0.0315	A (1)	0.1969	138	20801		238	238				238			
333FN	0.0472	A (1)	0.1772	14000	20901		24000	242				242			
P															
M															
K															
N				•	•	•	•	•	•	•	•	•	•	•	•
S															
H															
O				•	•	•	•	•	•	•	•	•	•	•	•

VCGT / VCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

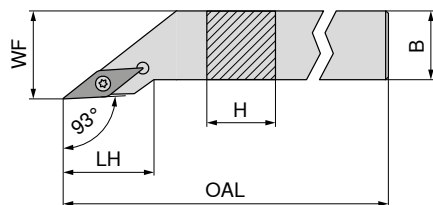
	-CB2 CTDPU20	-CB3 CTDPU20	CTDCD10	-CB1 CTDCD10	-CB2 CTDCD10
	M DIAMOND VCGT	R DIAMOND VCGT	F DIAMOND VCGW	F DIAMOND VCGT	M DIAMOND VCGT
	71 190 ...	71 332 ...	71 191 ...	71 330 ...	71 331 ...
ANSI					
RE					
TCE (NOI)					
LE					
220FN	0.0039	A (1)	0.1181		
22.5FN	0.0079	A (1)	0.1181		
221FN	0.0157	A (1)	0.1181		
221FN	0.0157	A (1)	0.1535		
222FN	0.0315	A (1)	0.1181		
33.5FN	0.0079	A (1)	0.1181		
331FN	0.0157	A (1)	0.1181		
331FN	0.0157	A (1)	0.2165		
332FN	0.0315	A (1)	0.1181		
333FN	0.0472	A (1)	0.1181		
				31000	
			40001	312	312
			40101	314	314
		214	40201		
			40301	32200	33200
			40401	32400	334
	30001	234	40501	32600	338
				32800	34000

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

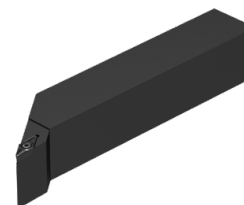
MaxiLock-S – SVJC 93° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
SVJC R/L 12-3B	0.750	0.750	4.500	1.610	1.000	VC..33..
SVJC R/L 16-3D	1.000	1.000	6.000	1.610	1.250	VC..33..
SVJC R/L 20-3D	1.250	1.250	6.000	1.610	1.500	VC..33..

1) Not in stock

Left-hand	Right-hand
78 571 ...	78 570 ...
01223	01223
01643	01643
02043 ¹⁾	02043 ¹⁾

Spare parts

for Article no.

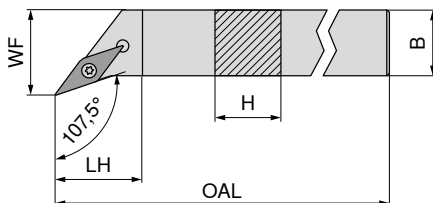
78 570 01223 / 78 571 01223	05400	05100	05500	05300
78 570 01643 / 78 571 01643	05400	05100	05500	05300
78 570 02043 / 78 571 02043	05400	05100	05500	05300

Key I - TORX®	Clamping screw	Solid Carbide Seat V	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...

MaxiLock-S – SVHC 107.5° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
SVHC R/L 12-3B	0.750	0.750	4.500	0.744	1.000	VC..33..
SVHC R/L 16-3D	1.000	1.000	6.000	0.756	1.250	VC..33..

Spare parts

for Article no.

78 568 01223 / 78 569 01223	05400	05100	05500	05300
78 568 01643 / 78 569 01643	05400	05100	05500	05300

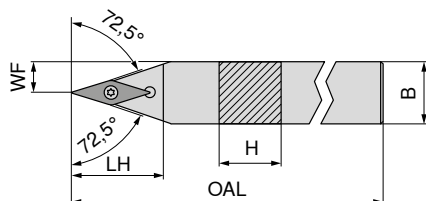
Key I - TORX®	Clamping screw	Solid Carbide Seat V	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...

Left-hand	Right-hand
78 569 ...	78 568 ...
01223	01223
01643	01643

MaxiLock-S – SVVC 72.5° – Toolholder with screw clamping

Scope of supply:

Tool holder with Torx key



Neutral

78 585 ...

Designation	H inch	B inch	OAL inch	LH inch	WF inch	Insert
SVVC N 12-3B	0.750	0.750	4.500	1.212	0.398	VC..33..
SVVC N 16-3D	1.000	1.000	6.000	1.610	0.523	VC..33..
SVVC N 20-3D	1.250	1.250	6.000	2.008	0.648	VC..33..

01223

01643

02043¹⁾

1) Not in stock

Key I - TORX®	Clamping screw	Solid Carbide Seat V	Threaded sleeve
78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 585 01223	05400	05100	05500
78 585 01643	05400	05100	05500
78 585 02043	05400	05100	05500

Spare parts
for Article no.

78 585 01223

78 585 01643

78 585 02043

05400

05100

05500

05300

05400

05100

05500

05300

05400

05100

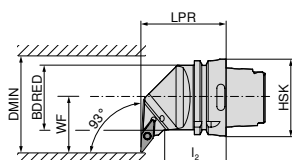
05500

05300

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

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions



Left-hand

Right-hand

74 557 ...

74 558 ...

Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert
HSK T63 SVUC R/L 16	HSK-T 63	70	42	53	45	100	3.2	VC..1604

516

516

Combination Key	Clamping screw	Solid Carbide Seat V	Threaded sleeve
70 950 ...	70 950 ...	70 950 ...	70 950 ...
74 558 516 / 74 557 516	T15/SW	398	M3.5x11
		113	107
		M3.5	171

Spare parts

74 558 516 / 74 557 516

T15/SW

398

M3.5x11

113

107

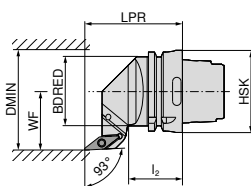
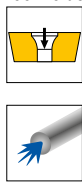
M3.5

171

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

Scope of supply:


Tool holder with Torx key





Illustrations show right-hand versions


Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Part numbers	
									Left-hand	Right-hand
HSK T63 SVJC R/L 16	HSK-T 63	75	42	53	45	100	3.2	VC.. 1604	74 556 ...	74 555 ...
									516	516

Spare parts		Part number	Quantity	Part number	Quantity	Part number	Quantity	Part number	Quantity
74 555 516 / 74 556 516	T15/SW	398	M3.5x11	113	107	M3.5	171		


 Combination Key
 70 950 ...


 Clamping screw
 70 950 ...

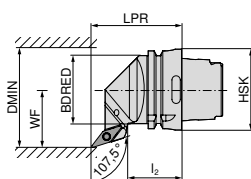
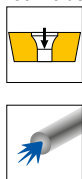

 Solid Carbide
Seat V
 70 950 ...


 Threaded sleeve
 70 950 ...

MaxiLock-S – SVHC 107.5° – Toolholder with screw clamping

Scope of supply:


Tool holder with Torx key





Illustrations show right-hand versions


Designation	Adapter	LPR mm	l ₂ mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Part numbers	
									Left-hand	Right-hand
HSK T63 SVHC R/L 16	HSK-T 63	70	42	53	45	100	3.2	VC.. 1604	74 554 ...	74 553 ...
									516	516

Spare parts		Part number	Quantity	Part number	Quantity	Part number	Quantity	Part number	Quantity
74 553 516 / 74 554 516	T15/SW	398	M3.5x11	113	107	M3.5	171		


 Combination Key
 70 950 ...


 Clamping screw
 70 950 ...

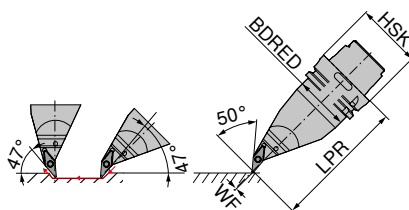

 Solid Carbide
Seat V
 70 950 ...


 Threaded sleeve
 70 950 ...

MaxiLock-S – SVMC 50° – Toolholder with screw clamping

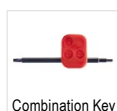
Scope of supply:

Tool holder with Torx key



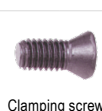
Left-hand
74 560 ...

Designation	Adapter	LPR mm	BDRED mm	WF mm	torque moment Nm	Insert	
HSK T63 SVMC L 16	HSK-T 63	130	53	0	3.2	VC.. 1604	516



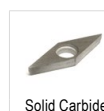
Combination Key

70 950 ...



Clamping screw

70 950 ...



Solid Carbide Seat V

70 950 ...



Threaded sleeve

70 950 ...

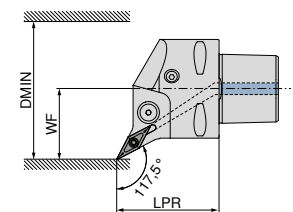
Spare parts

74 560 516	T15/SW	398	M3.5x11	113	107	M3.5	171
------------	--------	-----	---------	-----	-----	------	-----

MaxiLock-S – SVPC 117.5° – Toolholder with screw clamping

Scope of supply:

without high-performance coolant set



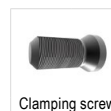
Illustrations show right-hand versions



Left-hand **84 671 ...**
Right-hand **84 670 ...**

Designation	Adapter	LPR mm	WF mm	DMIN mm	torque moment Nm	Insert	Direct cooling compatible		
PSC40 SVPC R/L 50050-16	PSC 40	50	27	50	3	VC.. 1604	DC	01695	01695
PSC50 SVPC R/L 65060-16	PSC 50	60	35	65	3	VC.. 1604	DC	01694	01694
PSC63 SVPC R/L 80065-16	PSC 63	65	45	80	3	VC.. 1604	DC	01693	01693

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**



Clamping screw

84 950 ...

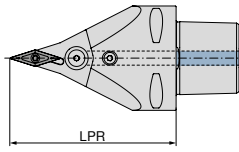
Spare parts

84 670 01693 / 84 671 01695	27600
-----------------------------	--------------

MaxiLock-S – SVVC 72.5° – Toolholder with screw clamping

Scope of supply:

without high-performance coolant set



Neutral

84 678 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible	
PSC63 SVVC N 0100-16	PSC 63	100	3	VC.. 1604	DC	01693
PSC63 SVVC N 0130-16	PSC 63	130	3	VC.. 1604	DC	11693

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**



Clamping screw

84 950 ...

Spare parts

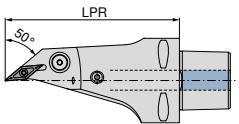
84 678 01693 / 84 678 11693

27600

MaxiLock-S – SVMC 50° – Toolholder with screw clamping

Scope of supply:

without high-performance coolant set



Neutral

84 681 ...

Designation	Adapter	LPR mm	torque moment Nm	Insert	Direct cooling compatible	
PSC63 SVMC L 0130-16	PSC 63	130	3	VC.. 1604	DC	11693

The high-performance coolant set with article number **84 950 27400** can be ordered as an optional extra → **Page 46.**



Clamping screw

84 950 ...

Spare parts

84 681 11693

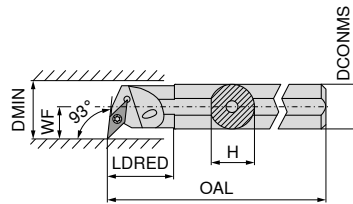
27600

MaxiLock-S – SVUC 93° – Boring bar with screw clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions







Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand 78 729 ...		Right-hand 78 728 ...	
								S10R SVUC R/L 2E	0.625	0.580	8.000
S12S SVUC R/L 2E	0.750	0.710	10.000	1.580	0.625	1.060	VC..22..	21222 ¹⁾	21222 ¹⁾		
S16T SVUC R/L 2D	1.000	0.900	12.000	1.810	0.750	1.300	VC..22..	21626 ¹⁾	21626 ¹⁾		
S20U SVUC R/L 3	1.250	1.180	14.000	3.000	1.000	2.000	VC..33..	32030 ¹⁾	32030 ¹⁾		
S24V SVUC R/L 3	1.500	1.370	16.000	3.000	1.250	2.250	VC..33..	32435 ¹⁾	32435 ¹⁾		
S32W SVUC R/L 3	2.000	1.870	18.000	4.000	1.375	2.750	VC..33..	33243 ¹⁾	33243 ¹⁾		

1) Not in stock

**Spare parts
for Article no.**

	78 950 ...	78 950 ...	78 950 ...	78 950 ...
78 728 21021 / 78 729 21021	06400	06200		
78 728 21222 / 78 729 21222	06400	06200		
78 728 21626 / 78 729 21626	06400	06200		
78 728 32030 / 78 729 32030	05400	05100	05500	05300
78 728 32435 / 78 729 32435	05400	05100	05500	05300
78 728 33243 / 78 729 33243	05400	05100	05500	05300

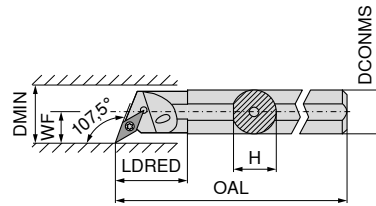
 Key I - TORX® 78 950 ...	 Clamping screw 78 950 ...	 Solid Carbide Seat V 78 950 ...	 Threaded sleeve 78 950 ...
---	---	--	--

MaxiLock-S – SVQC 107.5° – Boring bar with screw clamping

▲ A... = with thru coolant
▲ S... = without thru coolant

Scope of supply:

Tool holder with Torx key



Illustrations show right-hand versions

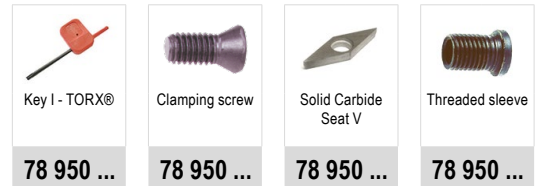


Designation	DCONMS inch	H inch	OAL inch	LDRED inch	WF inch	DMIN inch	Insert	Left-hand	Right-hand
								78 727 ...	78 726 ...
S16T SVQC R/L 3	1.000	0.900	12.000	0.910	0.750	1.375	VC..33..	31626 ¹⁾	31626 ¹⁾
S20U SVQC R/L 3	1.250	1.180	14.000	1.060	0.875	1.625	VC..33..	32030 ¹⁾	32030 ¹⁾
S24V SVQC R/L 3	1.500	1.370	16.000	1.370	1.063	2.000	VC..33..	32435 ¹⁾	32435 ¹⁾

1) Not in stock

**Spare parts
for Article no.**

78 726 31626 / 78 727 31626	05700	05600		
78 726 32030 / 78 727 32030	05400	05100	05500	05300
78 726 32435 / 78 727 32435	05400	05100	05500	05300

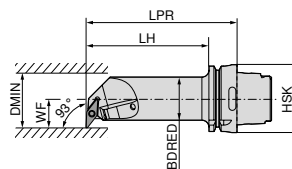


78 950 ... 78 950 ... 78 950 ... 78 950 ...

MaxiLock-S – SVUC 93° – Boring bar with screw clamping

Scope of supply:

Boring bar with Torx key



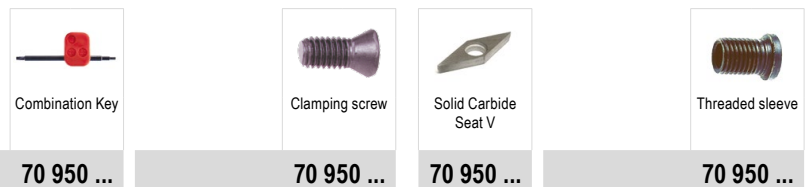
Illustrations show right-hand versions



Designation	Adapter	LPR mm	LH mm	BDRED mm	WF mm	DMIN mm	torque moment Nm	Insert	Left-hand	Right-hand
									74 568 ...	74 567 ...
HSK T63 40L SVUC R/L 16	HSK-T 63	140	114	40	27	50	3.2	VC.. 1604	516	516

Spare parts

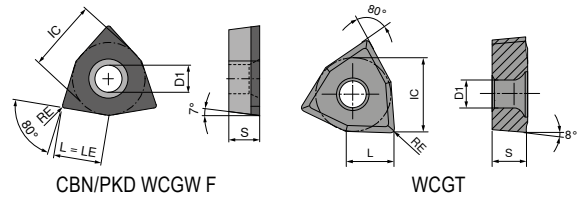
74 567 516 / 74 568 516	T15/SW	398	M3.5x11	113	107	M3.5	171
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70 950 ... 70 950 ... 70 950 ... 70 950 ...

WCGT / WCGW

Designation	L inch	S inch	D1 inch	IC inch
WCGW 1..	0.1063	0.0622	0.0906	0.1563
WCGT 1..	0.1067	0.0626	0.0827	0.1563



WCGT

-SF TCM10	-SF CTPP430 DRAGONSKIN	-SF H216T
F	F	F
CERMET WCGT	WCGT	WCGT
70 287 ...	70 287 ...	70 287 ...

ANSI	RE inch	70 287 ...	70 287 ...	70 287 ...
1.21.5EN	0.0079		450	
1.21.5FN	0.0079	900	452	600
1.211EN	0.0157			
1.211FN	0.0157	902		602
P		●	●	
M		○	●	
K		○	○	○
N			○	●
S			○	
H				
O				○

WCGW

▲ TCE(NOI) = Design and number of equipped cutting edge corners

CTDPD20
F
DIAMOND WCGW
71 154 ...

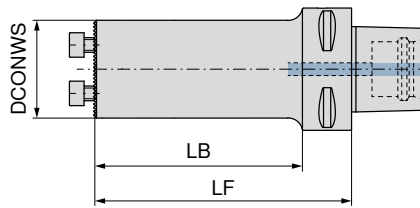
ANSI	RE inch	TCE (NOI)	LE inch	71 154 ...
1.21.5FN	0.0079	F	0.1063	100
1.211FN	0.0157	F	0.1063	102
P				
M				
K				
N				●
S				
H				
O				●

9

MaxiChange – Base holders for the exchangeable head system

Scope of supply:

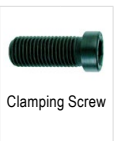
Includes clamping screws



NEW

84 192 ...

Adapter	LF mm	LB mm	DCONWS mm	
PSC 40	40	20	16	01695
PSC 40	50	30	20	02095
PSC 40	55	35	25	02595
PSC 40	75	55	32	03295
PSC 40	80		40	04095
PSC 50	40	20	16	01694
PSC 50	50	30	20	02094
PSC 50	55	35	25	02594
PSC 50	75	55	32	03294
PSC 50	100	80	40	04094
PSC 63	40	18	16	01693
PSC 63	50	28	20	02093
PSC 63	65	43	25	02593
PSC 63	90	68	32	03293
PSC 63	125	103	32	13293
PSC 63	100	78	40	04093
PSC 63	140	118	40	14093



84 950 ...

**Spare parts
for Article no.**

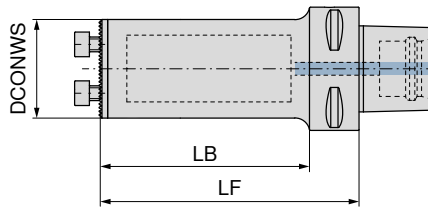
84 192 02595	M4X12 (SW3)	30000
84 192 03295	M5X14 (SW4)	29900
84 192 04095	M6X16 (SW5)	29800
84 192 02594	M4X12 (SW3)	30000
84 192 03294	M5X14 (SW4)	29900
84 192 04094	M6X16 (SW5)	29800
84 192 02593	M4X12 (SW3)	30000
84 192 03293	M5X14 (SW4)	29900
84 192 13293	M5X14 (SW4)	29900
84 192 04093	M6X16 (SW5)	29800
84 192 14093	M6X16 (SW5)	29800

MaxiChange – Base holders for the exchangeable head system – vibration-damped

▲ Heavy metal core reduces vibrations

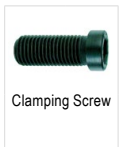
Scope of supply:

Includes clamping screws



84 195 ...

Adapter	LF mm	LB mm	DCONWS mm	
PSC 63	115	93	25	02593
PSC 63	150	128	32	03293
PSC 63	185	163	40	04093



84 950 ...

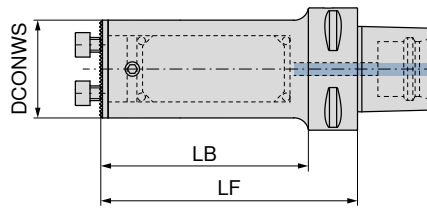
Spare parts for Article no.		
84 195 02593	M4X12 (SW3)	30000
84 195 03293	M5X14 (SW4)	29900
84 195 04093	M6X16 (SW5)	29800

MaxiChange – Base holders for the exchangeable head system – actively vibration-damped

- ▲ Reduction of vibrations through actively mounted dampers
- ▲ Improvement in surface finish and chip evacuation

Scope of supply:

Includes clamping screws



NEW

84 198 ...

Adapter	LF mm	LB mm	DCONWS mm	
PSC 40	88	68	16	31695
PSC 40	107	87	20	32095
PSC 40	132	112	25	42595
PSC 40	154	134	32	43295
PSC 40	173		40	44095
PSC 50	85	65	16	31694
PSC 50	109	89	20	32094
PSC 50	133	113	25	32594
PSC 50	180	160	25	42594
PSC 50	154	134	32	33294
PSC 50	224	204	32	43294
PSC 50	194	174	40	34094
PSC 50	288	268	40	44094
PSC 63	90	68	16	31693
PSC 63	110	88	20	32093
PSC 63	132	110	25	32593
PSC 63	180	158	25	42593
PSC 63	230	208	25	52593
PSC 63	159	137	32	33293
PSC 63	224	202	32	43293
PSC 63	288	266	32	53293
PSC 63	198	176	40	34093
PSC 63	288	266	40	44093
PSC 63	368	346	40	54093



Clamping Screw

84 950 ...

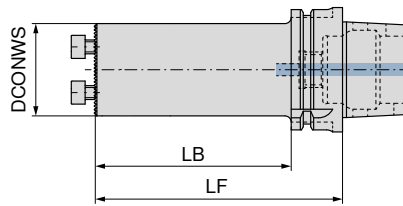
Spare parts for Article no.

84 198 42595	M4X12 (SW3)	30000
84 198 43295	M5X14 (SW4)	29900
84 198 44095	M6X16 (SW5)	29800
84 198 32594	M4X12 (SW3)	30000
84 198 42594	M4X12 (SW3)	30000
84 198 33294	M5X14 (SW4)	29900
84 198 43294	M5X14 (SW4)	29900
84 198 34094	M6X16 (SW5)	29800
84 198 44094	M6X16 (SW5)	29800
84 198 32593	M4X12 (SW3)	30000
84 198 42593	M4X12 (SW3)	30000
84 198 52593	M4X12 (SW3)	30000
84 198 33293	M5X14 (SW4)	29900
84 198 43293	M5X14 (SW4)	29900
84 198 53293	M5X14 (SW4)	29900
84 198 34093	M6X16 (SW5)	29800
84 198 44093	M6X16 (SW5)	29800
84 198 54093	M6X16 (SW5)	29800

MaxiChange – Base holders for the exchangeable head system

Scope of supply:

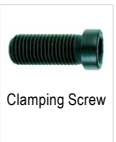
Includes clamping screws



NEW

84 193 ...

Adapter	LF mm	LB mm	DCONWS mm	
HSK-T 40	55	35	25	02539
HSK-T 40	75	55	25	12539
HSK-T 40	80	60	32	03239
HSK-T 40	80		40	04039
HSK-T 63	56	30	16	01637
HSK-T 63	80	54	20	02037
HSK-T 63	80	44	25	02537
HSK-T 63	90	64	32	03237
HSK-T 63	100	74	40	04037
HSK-T 63	125	99	32	13237
HSK-T 63	140	114	40	14037
HSK-T 100	140	111	40	04035



84 950 ...

**Spare parts
for Article no.**

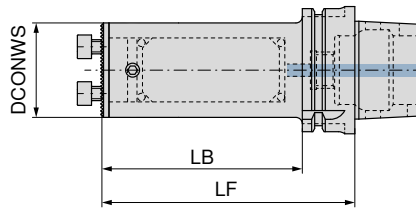
84 193 02539	M4X12 (SW3)	30000
84 193 12539	M4X12 (SW3)	30000
84 193 03239	M5X14 (SW4)	29900
84 193 04039	M6X16 (SW5)	29800
84 193 02537	M4X12 (SW3)	30000
84 193 03237	M5X14 (SW4)	29900
84 193 04037	M6X16 (SW5)	29800
84 193 13237	M5X14 (SW4)	29900
84 193 14037	M6X16 (SW5)	29800
84 193 04035	M6X16 (SW5)	29800

MaxiChange – Base holders for the exchangeable head system – actively vibration-damped

- ▲ Reduction of vibrations through actively mounted dampers
- ▲ Improvement in surface finish and chip evacuation

Scope of supply:

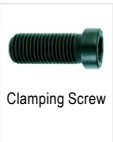
Includes clamping screws



NEW

84 198 ...

Adapter	LF mm	LB mm	DCONWS mm	
HSK-T 63	90	64	16	31637
HSK-T 63	106	80	20	32037
HSK-T 63	126	100	25	32537
HSK-T 63	151	125	25	42537
HSK-T 63	154	128	32	33237
HSK-T 63	186	160	32	43237
HSK-T 63	186	160	40	34037
HSK-T 63	226	200	40	44037



84 950 ...

Spare parts for Article no.

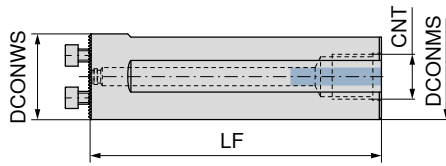
84 198 32537	M4X12 (SW3)	30000
84 198 42537	M4X12 (SW3)	30000
84 198 33237	M5X14 (SW4)	29900
84 198 43237	M5X14 (SW4)	29900
84 198 34037	M6X16 (SW5)	29800
84 198 44037	M6X16 (SW5)	29800

MaxiChange – Base holders for the exchangeable head system – cylindrical

- ▲ Connection thread for through coolant
- ▲ 3 clamping flats

Scope of supply:

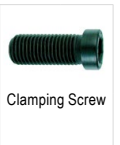
Includes clamping screws



NEW

84 194 ...

DCONWS	LF	DCONMS	CNT	
mm	mm	mm		
25	100	25	M8 x 1	12599
32	120	32	M8 x 1	13299
40	120	40	M8 x 1	14099
25	200	25	1/4	02599
32	218	32	3/8	03299
40	283	40	1/2	04099



84 950 ...

Spare parts for Article no.

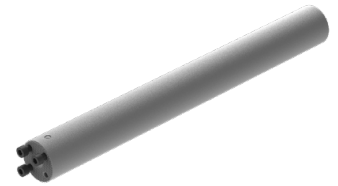
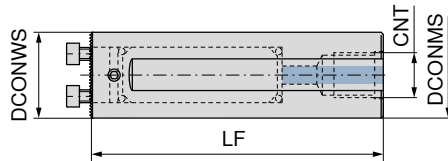
84 194 02599	M4X12 (SW3)	30000
84 194 03299	M5X14 (SW4)	29900
84 194 04099	M6X16 (SW5)	29800

MaxiChange – Base holders for the exchangeable head system – actively vibration-damped

- ▲ Reduction of vibrations through actively mounted dampers
- ▲ Improvement in surface finish and chip evacuation

Scope of supply:

Includes clamping screws



NEW

84 198 ...

DCONWS mm	LF mm	DCONMS mm	CNT	
16	150	16	1/4	31699
20	180	20	1/4	32099
25	220	25	1/4	32599
32	285	32	1/2	33299
40	368	40	1/2	34099



Clamping Screw

84 950 ...

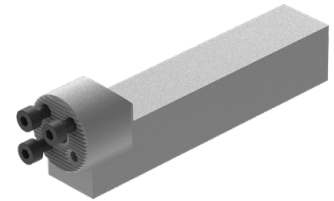
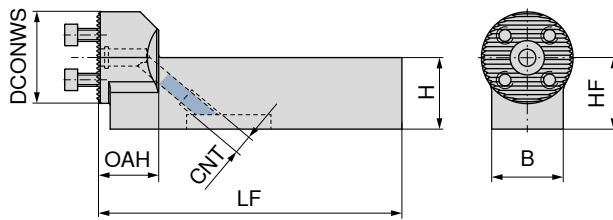
**Spare parts
for Article no.**

84 198 31699	M3x10	44800
84 198 32099	M3.5x12	44900
84 198 32599	M4x12 (SW3)	30000
84 198 33299	M5x14 (SW4)	29900
84 198 34099	M6x16 (SW5)	29800

MaxiChange – 0° base holders for the exchangeable head system

Scope of supply:

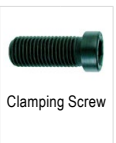
Includes clamping screws



NEW

84 185 ...

DCONWS mm	H mm	B mm	HF mm	OAH mm	LF mm	CNT	
25	20	20	20	21	106	M8x1	02500
32	20	20	20	21	106	M8x1	03200
32	25	25	25	21	106	M8x1	13200
40	25	25	25	21	106	M8x1	14000



84 950 ...

**Spare parts
for Article no.**

84 185 02500	M4X12 (SW3)	30000
84 185 03200	M5X14 (SW4)	29900
84 185 13200	M5X14 (SW4)	29900
84 185 14000	M6X16 (SW5)	29800

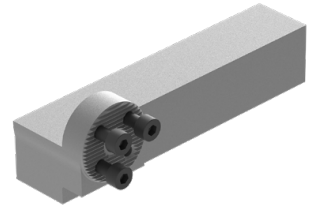
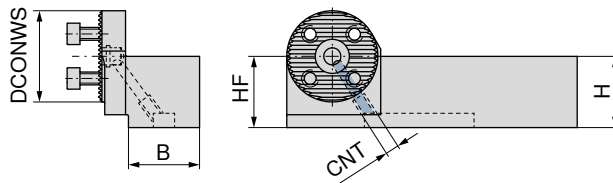


→ **Chapter 16 Adapters and accessories**
Here you will find the suitable base adaptors.

MaxiChange – 90° base holders for the exchangeable head system

Scope of supply:

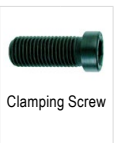
Includes clamping screws



NEW

84 184 ...


DCONWS mm	H mm	B mm	HF mm	CNT	
25	20	20	20	M8x1	02500
32	20	20	20	M8x1	03200
32	25	25	25	M8x1	13200
40	25	25	25	M8x1	14000



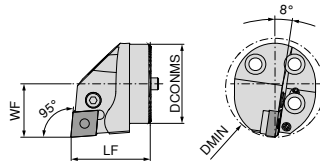
84 950 ...

**Spare parts
for Article no.**

84 184 02500	M4X12 (SW3)	30000
84 184 03200	M4X12 (SW3)	30000
84 184 13200	M4X12 (SW3)	30000
84 184 14000	M6X16 (SW5)	29800

 → **Chapter 16 Adapters and accessories**
Here you will find the suitable base adaptors.

MaxiChange-N – Exchangeable cutting head PCLN 95°







Illustrations show right-hand versions

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
25	35	32	17	5	CN.. 1204
32	35	40	22	5	CN.. 1204
40	40	50	27	5	CN.. 1204

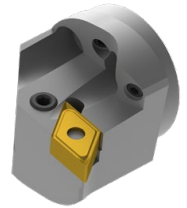
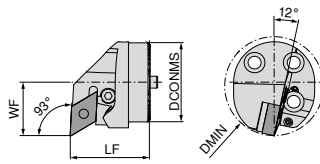
Left-hand 84 159 ...	Right-hand 84 160 ...
02500	02500
03200	03200
04000	04000

**Spare parts
for Article no.**

84 160 02500 / 84 159 02500	29200	M8X1/L17 SW3	28700	29000	27800
84 160 03200 / 84 159 03200	29200	M8X1/L17 SW3	28700	29000	27800
84 160 04000 / 84 159 04000	29200	M8X1/L17 SW3	28700	29000	27800

			
84 950 ...	84 950 ...	84 950 ...	84 950 ...


MaxiChange-N – Exchangeable cutting head PDUN 93°







Illustrations show right-hand versions

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
25	35	32	17	5	DN.. 1104
32	35	40	22	5	DN.. 1104
32	35	40	22	5	DN.. 1504 / 1506
40	40	50	27	5	DN.. 1104
40	40	50	27	5	DN.. 1504 / 1506

Left-hand 84 161 ...	Right-hand 84 162 ...
02500	02500
03200	03200
13200	13200
04000	04000
14000	14000

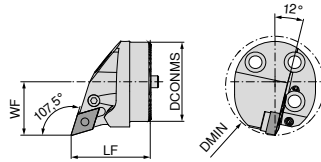
 When using DN.. 1504 indexable inserts, use insert seat article no. **84 950 28200**.

			
84 950 ...	84 950 ...	84 950 ...	84 950 ...

**Spare parts
for Article no.**

84 162 02500 / 84 161 02500	29300	M6/ L14 SW2.5	28800	29100	28100
84 162 03200 / 84 161 03200	29300	M6/ L14 SW2.5	28800	29100	28100
84 162 13200 / 84 161 13200	29200	M8X1/L17 SW3	28700	28900	27900
84 162 04000 / 84 161 04000	29300	M6/ L14 SW2.5	28800	29100	28100
84 162 14000 / 84 161 14000	29200	M8X1/L17 SW3	28700	28900	27900

MaxiChange-N – Exchangeable cutting head PDQN 107.5°



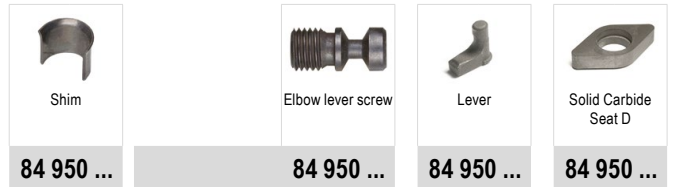
Illustrations show right-hand versions



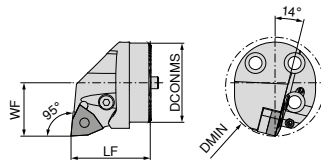
DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert	Article no.	
						Left-hand	Right-hand
25	35	32	17	5	DN.. 1104	84 163 02500	84 164 02500
32	35	40	22	5	DN.. 1104	84 163 03200	84 164 03200
40	40	50	27	5	DN.. 1104	84 163 04000	84 164 04000

**Spare parts
for Article no.**

Article no.	Shim	Elbow lever screw	Lever	Solid Carbide Seat D
84 163 02500 / 84 164 02500	29300	M6/ L14 SW2.5	28800	29100
84 163 03200 / 84 164 03200	29300	M6/ L14 SW2.5	28800	29100
84 163 04000 / 84 164 04000	29300	M6/ L14 SW2.5	28800	29100



MaxiChange-N – Exchangeable cutting head PWLN 95°



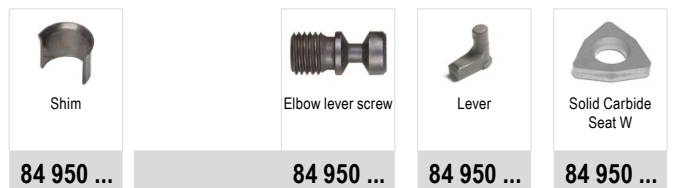
Illustrations show right-hand versions



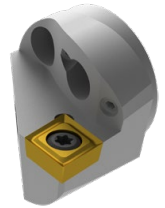
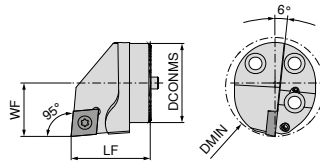
DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert	Article no.	
						Left-hand	Right-hand
32	35	40	22	5	WN.. 0804	84 165 03200	84 166 03200
40	40	50	27	5	WN.. 0804	84 165 04000	84 166 04000

**Spare parts
for Article no.**

Article no.	Shim	Elbow lever screw	Lever	Solid Carbide Seat W
84 166 03200 / 84 165 03200	29200	M8X1/L17 SW3	28700	28900
84 166 04000 / 84 165 04000	29200	M8X1/L17 SW3	28700	28900



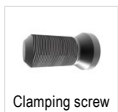
MaxiChange-S – SCLC 95° – Exchangeable cutting head with screw clamping



Illustrations show right-hand versions

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
16	20	20	11	0.9	CC.. 0602
20	20	25	13	3	CC.. 09T3
25	35	32	17	5	CC.. 1204
32	35	40	22	5	CC.. 1204
40	40	50	27	5	CC.. 1204

NEW	
Left-hand	Right-hand
84 147 ...	84 148 ...
01600	01600
02000	02000
02500	02500
03200	03200
04000	04000



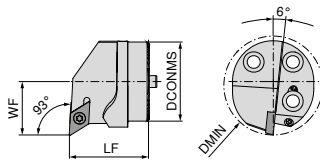
Clamping screw

84 950 ...

**Spare parts
for Article no.**

84 148 02500 / 84 147 02500	27500
84 148 03200 / 84 147 03200	27500
84 148 04000 / 84 147 04000	27500

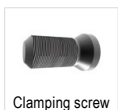
MaxiChange-S – SDUC 93° – Exchangeable cutting head with screw clamping



Illustrations show right-hand versions

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
16	20	20	11	0.9	DC.. 0702
20	20	25	13	3	DC.. 11T3
25	35	32	17	3	DC.. 11T3
32	35	40	22	3	DC.. 11T3
40	40	50	27	3	DC.. 11T3

NEW	
Left-hand	Right-hand
84 143 ...	84 144 ...
01600	01600
02000	02000
02500	02500
03200	03200
04000	04000



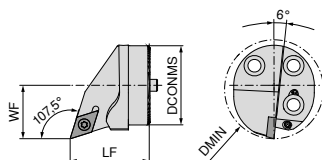
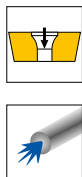
Clamping screw

84 950 ...

**Spare parts
for Article no.**

84 144 02500 / 84 143 02500	27600
84 144 03200 / 84 143 03200	27600
84 144 04000 / 84 143 04000	27600

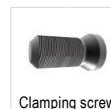
MaxiChange-S – SDQC 107.5° – Exchangeable cutting head with screw clamping



Illustrations show right-hand versions

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
20	20	25	13	3	DC.. 11T3
25	35	32	17	3	DC.. 11T3
32	35	40	22	3	DC.. 11T3
40	40	50	27	3	DC.. 11T3

NEW	
Left-hand	Right-hand
84 145 ...	84 146 ...
02000	02000
02500	02500
03200	03200
04000	04000



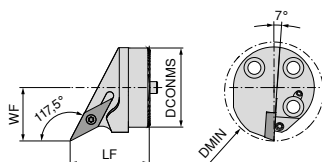
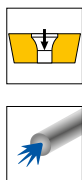
Clamping screw

84 950 ...

Spare parts for Article no.

84 146 02500 / 84 145 02500	27600
84 146 03200 / 84 145 03200	27600
84 146 04000 / 84 145 04000	27600

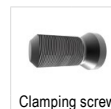
MaxiChange-S – SVPC 117.5° – Exchangeable cutting head with screw clamping



Illustrations show right-hand versions

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
25	35	32	17	3	VC.. 1103
32	35	40	22	3	VC.. 1604
40	40	50	27	3	VC.. 1604

NEW	
Left-hand	Right-hand
84 176 ...	84 176 ...
12500	02500
13200	03200
14000	04000



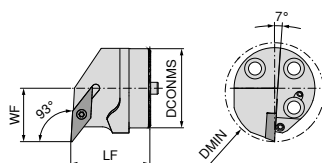
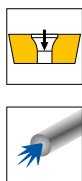
Clamping screw

84 950 ...

Spare parts for Article no.

84 176 02500 / 84 176 12500	27600
84 176 03200 / 84 176 13200	27600
84 176 04000 / 84 176 14000	27600

MaxiChange-S – SVUC 93° – Exchangeable cutting head with screw clamping

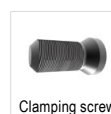


Illustrations show right-hand versions



	NEW Left-hand	NEW Right-hand
84 177 ...		
	12000	02000
	12500	02500
	13200	03200
	14000	04000

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
20	20	25	13	3	VC.. 1103
25	35	32	17	3	VC.. 1103
32	35	40	22	3	VC.. 1604
40	40	50	27	3	VC.. 1604



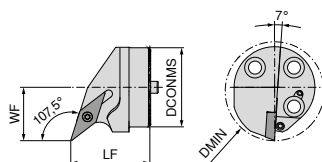
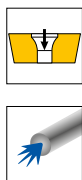
Clamping screw

84 950 ...

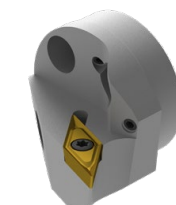
**Spare parts
for Article no.**

84 177 02000 / 84 177 12000	27600
84 177 02500 / 84 177 12500	27600
84 177 03200 / 84 177 13200	27600
84 177 04000 / 84 177 14000	27600

MaxiChange-S – SVQC 107.5° – Exchangeable cutting head with screw clamping

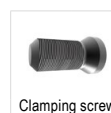


Illustrations show right-hand versions



	NEW Left-hand	NEW Right-hand
84 178 ...		
	12000	02000
	12500	02500
	13200	03200
	14000	04000

DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
20	20	25	13	3	VC.. 1103
25	35	32	17	3	VC.. 1103
32	35	40	22	3	VC.. 1604
40	40	50	27	3	VC.. 1604



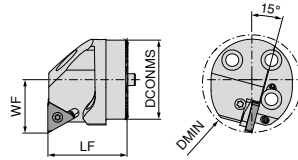
Clamping screw

84 950 ...

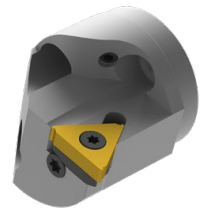
**Spare parts
for Article no.**

84 178 02000 / 84 178 12000	27600
84 178 02500 / 84 178 12500	27600
84 178 03200 / 84 178 13200	27600
84 178 04000 / 84 178 14000	27600

MaxiChange – Exchangeable cutting head for internal thread



Illustrations show right-hand versions



DCONMS mm	LF mm	DMIN mm	WF mm	torque moment Nm	Insert
25	35	32	17	2	16 ..
32	35	40	22	2	16 ..
40	40	50	27	2	16 ..

Left-hand	Right-hand
84 167 ...	84 168 ...
02500	02500
03200	03200
04000	04000




Suitable internal thread inserts can be found in → Chapter 8 Thread Turning Tools, pages 6-30




Shim

84 950 ...



Screw-U

84 950 ...



Clamping screw

84 950 ...

**Spare parts
for Article no.**

84 168 02500	29500	UNC5x7.3	29700	29400
84 167 02500	29600	UNC5x7.3	29700	29400
84 168 03200	29500	UNC5x7.3	29700	29400
84 167 03200	29600	UNC5x7.3	29700	29400
84 168 04000	29500	UNC5x7.3	29700	29400
84 167 04000	29600	UNC5x7.3	29700	29400

Flexible coolant hoses

- ▲ incl. prefitted quick-coupler and coupler connector
- ▲ extremely flexible
- ▲ pressure-resistant up to 300 bar

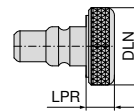


Designation	BD mm	CND mm	OAL mm	
MU.KSS-DN3-150	6.0	3	150	11005
MU.KSS-DN3-250	6.0	3	250	11006
MU.KSS-DN5-200	9.5	5	200	11001
MU.KSS-DN5-300	9.5	5	300	11002
MU.KSS-DN5-400	9.5	5	400	11003
MU.KSS-DN5-500	9.5	5	500	11004

72 990 ...

Sealing plugs

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

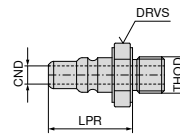


Designation	LPR mm	DLN mm	
MU.KSVS	5.5	15.5	17001

72 994 ...

Coupler connector

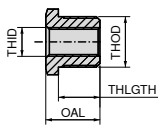
- ▲ pressure-resistant up to at least 400 bar



Designation	LPR mm	CND mm	DRVS mm	OAL mm	
MU.KSKS-M8x1	18.5	4	12	19	13001

72 992 ...

Threaded adapter



THID	THOD	THLGTH mm	DRVS mm	OAL mm	
G1/8"	G1/4"	11.5	17	15.0	01005
G1/8"	M8x1	11.5	14	15.0	01006
G1/8"	M12x1	11.5	14	15.0	01007
G1/8"	M14x1	11.5	17	15.0	01008
M8x1	G1/4"	11.5	17	15.0	01003
M8x1	M12x1	11.5	14	15.0	01001
M8x1	M14x1	11.5	17	15.0	01002
M8x1	G1/8"	11.5	14	23.5	01004

72 988 ...

G1/8" screw plug

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

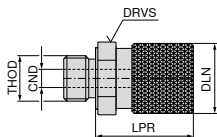


Designation	THSZMS	
VS.G1/8	G1/8"	010

72 950 ...

Quick-coupler

- ▲ pressure-resistant up to at least 400 bar
- ▲ rapid change of coolant distribution without screws thanks to click system



THOD	BD mm	DLN mm	LPR mm	CND mm	DRVS mm	
G1/8"	16	15.5	21.5	4	14	15001

72 993 ...

Angled coolant connection for distributor

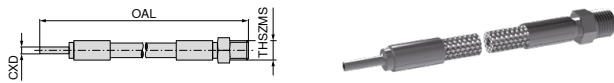


Designation	THOD	THID	
MU.KS-KA-KSV	G1/8"	G1/8"	18003

72 987 ...

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

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

Reducer fitting

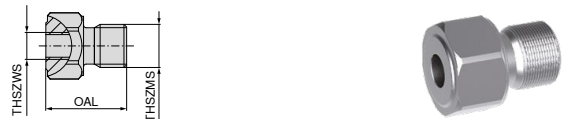
- ▲ Max. 200 bar/2900 psi
- ▲ Includes sealing ring



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

Reducer fitting

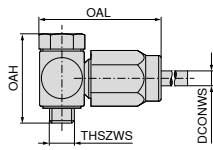
- ▲ Max. 200 bar/2900 psi
- ▲ No sealing ring required



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

Swivel fitting

▲ Max. 200 bar/2900 psi

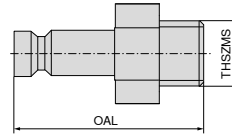


72 307 ...

Designation	DCONWS mm	OAH mm	THSZMS	OAL mm	
KA.SV.M5-4	4	21	M5	28	017
KA.SV.G1/8-4	4	30	G1/8"	37	012

Quick connection (connector)

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

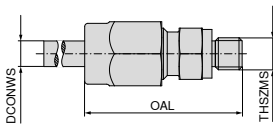


72 320 ...

Designation	THSZMS	OAL mm	
SAG.M5	M5	20	001

Straight fitting

▲ Max. 200 bar/2900 psi

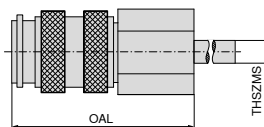


72 307 ...

Designation	DCONWS mm	THSZMS	OAL mm	
KA. M5-4	4	M5	27	009
KA. G1/8-4	4	G1/8"	32	003

Quick connection (coupling)

▲ Max. 200 bar/2900 psi



72 319 ...

Designation	THSZMS	OAL mm	
KIG.M5	M5	26	001


Material examples for cutting data tables

	Material sub-group	Index	Composition / Structure / Heat treatment	Tensile strength lbf/in ² / HB / HRC	Material number	Material designation	Material number	Material designation
P	Unalloyed steel	P.1.1	< 0.15 % C Annealed	60900 lbf/in ² / 125 HB	1.0401	1015	1.0301	1010
		P.1.2	< 0.45 % C Annealed	92800 lbf/in ² / 190 HB	1.1191	1045	1.0737	12L14
		P.1.3	< 0.45 % C Tempered	121800 lbf/in ² / 250 HB	1.1191	1045	1.0503	1043
		P.1.4	< 0.75 % C Annealed	132000 lbf/in ² / 270 HB	1.1223	1060	1.0535	1055
		P.1.5	< 0.75 % C Tempered	146500 lbf/in ² / 300 HB	1.1223	1060	1.1274	1095
	Low-alloy steel	P.2.1	Annealed	88500 lbf/in ² / 180 HB	1.7131	5115	1.6523	8620
		P.2.2	Tempered	134900 lbf/in ² / 275 HB	1.7131	5115	1.6582	4340
		P.2.3	Tempered	146500 lbf/in ² / 300 HB	1.7225	4142	1.7131	5115
		P.2.4	Tempered	174000 lbf/in ² / 375 HB	1.7225	4142	1.7223	4140
	High-alloy steel and high-alloy tool steel	P.3.1	Annealed	98600 lbf/in ² / 200 HB	1.4021	420	1.2379	D2
		P.3.2	Hardened and tempered	159500 lbf/in ² / 300 HB	1.2343	H11	1.3343	M2
		P.3.3	Hardened and tempered	188500 lbf/in ² / 400 HB	1.2343	H11	1.2363	A2
	Stainless steel	P.4.1	Ferritic / martensitic Annealed	98600 lbf/in ² / 200 HB	1.4016	430	1.4125	440C
		P.4.2	Martensitic Tempered	117500 lbf/in ² / 250 HB	1.4112	S44003	1.4021	420
M	Stainless steel	M.1.1	Austenitic / austenitic-ferritic Quenched	88500 lbf/in ² / 200 HB	1.4301	304	1.4401	316
		M.2.1	Austenitic Tempered	300 HB	1.4841	314	1.4568	17-7 PH
		M.3.1	Austenitic / ferritic (Duplex)	113100 lbf/in ² / 230 HB	1.4462	S32205	1.4410	S32750
K	Grey cast iron	K.1.1	Pearlitic / ferritic	88500 lbf/in ² / 180 HB	0.6010	A48-20B	0.6025	A48-40 B
		K.1.2	Pearlitic (martensitic)	127600 lbf/in ² / 260 HB	0.6030	A48-45B	0.6040	A48-60 B
	Spherulitic graphite cast iron	K.2.1	Ferritic	78300 lbf/in ² / 160 HB	0.7040	60-40-18	0.7050	65-45-12
		K.2.2	Pearlitic	122600 lbf/in ² / 250 HB	0.7070	100-70-03	0.7660	A439 Type D2
	Malleable iron	K.3.1	Ferritic	63800 lbf/in ² / 130 HB	0.8035	GTW-35-04		
		K.3.2	Pearlitic	113100 lbf/in ² / 230 HB	0.8170	70003		
N	Aluminium wrought alloy	N.1.1	Non-hardenable	60 HB	3.0255	A91060	3.0255	A91060
		N.1.2	Hardenable	49300 lbf/in ² / 100 HB	3.1355	2024	3.1355	2024
	Cast aluminium alloy	N.2.1	≤ 12 % Si, non-hardenable	36300 lbf/in ² / 75 HB	3.2581	A04130 / A413-0	3.2581	A04130 / A413-0
		N.2.2	≤ 12 % Si, hardenable	43500 lbf/in ² / 90 HB	3.2134	G-AlSi5Cu1Mg		
		N.2.3	> 12 % Si, non-hardenable	63800 lbf/in ² / 130 HB		G-AlSi17Cu4Mg		
	Copper and copper alloys (bronze/brass)	N.3.1	Free-machining alloys, PB > 1 %	54400 lbf/in ² / 110 HB	2.0380	CuZn39Pb2 (Ms58)	2.0380	C37700
		N.3.2	CuZn, CuSnZn	43500 lbf/in ² / 90 HB	2.0331	CuZn15	2.0331	C34000
		N.3.3	CuSn, lead-free copper and electrolytic copper	49300 lbf/in ² / 100 HB	2.0060	E-Cu57		
	Magnesium alloys	N.4.1	Magnesium and magnesium alloys	70 HB	3.5612	MgAl6Zn		
	S	Heat-resistant alloys	S.1.1	Fe - basis Annealed	98600 lbf/in ² / 200 HB	1.4864	X12NiCrSi 36-16	1.4864
S.1.2			137800 lbf/in ² / 280 HB		1.4980	X6NiCrTiMoVB25-15-2	1.4980	S66286
S.2.1			Ni or Co basis Annealed	121800 lbf/in ² / 250 HB	2.4856	Inconel 625	2.4812	Hastelloy C
S.2.2				171100 lbf/in ² / 350 HB	2.4952	Nimonic 80A	2.4668	Inconel 718
S.2.3				Cast	156600 lbf/in ² / 320 HB	2.4674	Nimocast PK24	2.4670
Titanium alloys		S.3.1	Pure titanium	5800 lbf/in ²	3.7025	Ti99,8		
		S.3.2	Alpha + beta alloys	152300 lbf/in ²	3.7165	TiAl6V4		
		S.3.3	Beta alloys	203100 lbf/in ² / 410 HB	Ti555.3	Ti-5Al-5V-5Mo-3Cr		
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	≤ 21800 lbf/in ²				
		O.1.2	Plastics, thermoplastic	≤ 14500 lbf/in ²				
		O.2.1	Aramid fibre-reinforced	≤ 145000 lbf/in ²				
		O.2.2	Glass/carbon-fibre reinforced	≤ 145000 lbf/in ²				
		O.3.1	Graphite					

* Tensile Strength at Rupture (Rm)


Cutting data standard values

Index	DRAGONSKIN													H210T	H10T H216T	
	TCM407	TCM10	CTEP110	CTCP115-P	CTCP125-P	CTCP135-P	CTCK110	CTCK120	CTPM125	CTCM120	CTCM130	CTPX710 -F05 -F34 -M34 -M42	CTPX710 -25P -25Q			CTPX715 -27 -29
v _c in ft/min																
P.1.1	1250	1020	1530	1220	970	690	1300	1080	670	750	610	1070	1120	910		
P.1.2	1080	880	1330	1040	830	580	1140	930	560	660	500	940	990	780		
P.1.3	930	750	1150	890	690	480	980	780	470	570	400	830	860	660		
P.1.4	870	700	1090	830	660	450	930	740	440	540	370	790	830	620		
P.1.5	790	640	1000	760	590	400	850	670	390	500	320	730	780	560		
P.2.1	1110	900	1360	1070	860	590	1160	950	580	670	520	960	990	800		
P.2.2	860	690	1070	830	640	430	920	730	430	530	360	780	830	610		
P.2.3	790	640	1000	760	590	400	850	670	390	500	320	730	780	560		
P.2.4	600	480	770	560	430	280	660	490	270	380	200	580	630	410		
P.3.1	930	720	1140	660	560	500	900	730	470	520	410	460	500	450		
P.3.2	740	550	920	460	350	310	740	580	320	380	270	280	310	270		
P.3.3	550	380	700	280	130	120	590	430	170	240	130	100	120	80		
P.4.1	930	720	1140	660	560	510			470	520	410	460	510	450		
P.4.2	830	640	1030	560	450	410			390	450	340	370	430	360		
M.1.1	930	720	1140			510			470	520	410	460	500	450		
M.2.1						310			320	380	270	280	300	270		
M.3.1						450			420	480	370	410	430	400		
K.1.1			1350	840	560		1320	910						660	560	460
K.1.2			1020	780	530		1020	870						530	430	380
K.2.1	1170	860	1450	890	590		1060	960						630	590	500
K.2.2	1040	710	1160	680	530		910	760						500	430	360
K.3.1	1070	990	1370	830	660		1020	910						690	630	560
K.3.2	830	680	830	690	530		870	760						590	530	460
N.1.1												6070	6070	5780	5450	4620
N.1.2												5280	5280	4950	4460	3630
N.2.1												4130	4130	3960	3960	3140
N.2.2												4130	4130	3960	3630	3140
N.2.3												2480	2480	2310	1980	1650
N.3.1												2150	2150	2060	1730	1400
N.3.2												2080	2080	1980	1650	1320
N.3.3												1650	1650	1570	1240	910
N.4.1												1120	1120	1070	910	740
S.1.1											115	330	365	130	140	
S.1.2											85	265	280	100	110	
S.2.1											65	210	250	100	110	
S.2.2											65	130	150	80	80	
S.2.3											60	125	140	65	65	
S.3.1											365	315	330	365	365	
S.3.2											210	180	200	230	230	
S.3.3											150	130	150	165	165	
H.1.1																
H.1.2																
H.1.3																
H.1.4																
H.2.1																
H.3.1																
O.1.1														460	530	430
O.1.2																
O.2.1														495	460	350
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.

Cutting data standard values

Index	DRAGONSKIN														H210T	H10T H216T
	TCM407	TCM10	CTEP110	CTCP115-P	CTCP125-P	CTCP135-P	CTCK110	CTCK120	CTPM125	CTCM120	CTCM130	CTPX710 -F05 -F34 -M34 -M42	CTPX710 -25P -25Q	CTPX715 -27 -29		
v _c in m/min																
P.1.1	380	310	460	370	295	210	395	330	200	230	185	325	340	275		
P.1.2	330	265	400	315	250	175	345	280	170	200	150	290	300	235		
P.1.3	280	230	350	270	210	145	300	240	140	175	125	250	260	200		
P.1.4	265	210	330	250	200	135	280	220	130	165	115	240	250	190		
P.1.5	240	190	300	230	180	120	260	200	120	150	100	220	235	170		
P.2.1	335	270	410	325	260	180	350	290	175	200	160	290	300	240		
P.2.2	260	210	325	250	195	130	280	220	130	160	110	235	250	185		
P.2.3	240	190	300	230	180	120	260	200	120	150	100	220	235	170		
P.2.4	180	145	230	170	130	85	200	150	80	115	60	175	190	125		
P.3.1	280	220	345	200	170	150	270	220	140	160	125	140	150	140		
P.3.2	225	170	280	140	105	95	225	175	100	115	80	85	95	80		
P.3.3	170	115	210	85	40	35	180	130	50	75	40	30	35	25		
P.4.1	280	220	345	200	170	155			140	160	125	140	155	140		
P.4.2	250	195	310	170	135	125			120	140	100	115	130	110		
M.1.1	280	220	345			155			140	160	125	140	150	140		
M.2.1						95			100	115	80	85	90	80		
M.3.1						135			130	150	110	125	130	120		
K.1.1			410	255	170		400	275						200	170	140
K.1.2			310	235	160		310	265						160	130	115
K.2.1	355	260	440	270	180		320	290						190	180	150
K.2.2	315	215	350	205	160		275	230						150	130	110
K.3.1	325	300	415	250	200		310	275						210	190	170
K.3.2	250	205	250	210	160		265	230						180	160	140
N.1.1												1840	1840	1750	1650	1400
N.1.2												1600	1600	1500	1350	1100
N.2.1												1250	1250	1200	1200	950
N.2.2												1250	1250	1200	1100	950
N.2.3												750	750	700	600	500
N.3.1												650	650	625	525	425
N.3.2												630	630	600	500	400
N.3.3												500	500	475	375	275
N.4.1												340	340	325	275	225
S.1.1											35	100	110	40	45	
S.1.2											25	80	85	30	35	
S.2.1											20	65	75	30	35	
S.2.2											20	40	45	25	25	
S.2.3											20	40	45	20	20	
S.3.1											110	95	100	110	110	
S.3.2											65	55	60	70	70	
S.3.3											45	40	45	50	50	
H.1.1																
H.1.2																
H.1.3																
H.1.4																
H.2.1																
H.3.1																
O.1.1														140	160	130
O.1.2																
O.2.1														150	140	105
O.2.2																
O.3.1																

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Machinability of non-ferrous metals with carbide indexable inserts

	Material group	Material examples		Machinability of aluminium alloys	Comments	
				*		
N	Pure aluminium	non hardenable	Al 99.5	W7	5	▲ Snarl chips ▲ Possibly bad surface ▲ Excessive built-up edge ▲ Long tool life ▲ Use coolant emulsion
			Al 99.5	F13	4	
			Al 99	W8	5	
			Al 99	F14	4	
	Aluminium wrought alloys	non hardenable	Al Mn	W10	5	▲ Snarl, continuous or fragmented chip ▲ Large feed rates necessary for good chip control ▲ Built-up edge ▲ Long tool life ▲ Emulsion coolant is advantageous
			Al Mn	F16	4	
			Al Mg 1	W10	5	
			Al Mg 1	F19	4	
			Al Mg 3	W18	4	
			Al Mg 3	F25	3	
			Al Mg 5	W25	4	
			AL Mg 5	F28	2	
			Al Mg 4.5 Mn	W27	4	
			Al Mg 4.5 Mn	G35	3	
		hardenable	Al Mg Si 0.5	W	4	▲ Good chip control with higher feed rates ▲ Very good chip control ▲ No built up edge ▲ Very good surface quality ▲ Good chip control ▲ Good surface quality ▲ Little built-up edge
			Al Mg Si 0.5	F13-25	3	
			Al Mg Si 1	W	4	
			Al Mg Si 1	F21-30	3	
			Al Mg Si Pb	F20-28	2	
			Al Cu Si Pb	F28-37	1	
			Al Cu Mg Pb	F34-37	1	
			Al Cu Mg 1	W	3	
			Al Cu Mg 1	F33-40	2	
			Al Cu Mg 2	W	3	
	Al Cu Mg 2	F40-47	2			
	Al Cu Si Mn	W	3			
	Al Cu Si Mn	F43-46	2			
	Al Zn Mg Cu 1.5	F50-52	2			
	Al Sn 6 Cu		1			
	Cast Aluminium Alloys	non hardenable	G-Al Si 12		3	▲ Good chip control ▲ Built-up edge ▲ Higher Si content results in lower tool life ▲ High wear of the carbide ▲ Good chip control ▲ Good surface quality ▲ Long tool life
			G-Al Si 10 Mg		3	
			G-Al Si 5 Mg		2	
			G-Al Si 7 Mg (9 Mg)		2	
G-Al Si Cu 3				2		
G-Al Si 6 Cu 4				2		
G-Al Mg 3 (Mg 5)				2		
G-Al Mg 9				2		
G-Al Mg 10				2		
G-Al Mg 3 Si (5 Si)				2		
G-Al Cu 4 Ti (Mg)				2		
G-Al Si 12 Cu Mg Ni				2		
Copper wrought alloys		Cu Ag				
		Cu As				
		Cu Cd				
		Cu Cd Sn				
		Cu Mg				
		Cu Mn				
	brass	Cu Zn Al				
		bronze	Cu Sn			
			Cu Sn Zn			
			Cu Ni			
Cu Ni Fe						
		Cu Al				
O	Non metal materials	Duroplastics				
		Fibre-reinforced plastics				
		hard rubber				


* 1 = good machinability, 5 = bad machinability


Cutting data standard values for negative PCBN inserts


Index	Cutting edges code negative insert*				Main Application	Extended application	CTBH 1000C		
	Material	Strength	Ra (theo.)	Cutting condition			EN-F		
							1.6–6.4		
							v_c	f	a_p
H.1.1	Hardened steel	46–55 HRC	x	Smooth	●	○	660	0.002–0.006	0.002–0.02
			x	Interrupted	○				
			x	Extremely interrupted	○				
H.1.2		56–60 HRC	x	Smooth	●	○	725	0.002–0.006	0.002–0.02
			x	Interrupted	○				
			x	Extremely interrupted	○				
H.1.3		61–65 HRC	x	Smooth	●	○	725	0.002–0.006	0.002–0.02
			x	Interrupted	○				
			x	Extremely interrupted	○				
H.1.4	66–70 HRC	x	Smooth	●	○	800	0.002–0.006	0.002–0.02	
		x	Interrupted	○					
		x	Extremely interrupted	○					
H.2.1	Chilled iron	400 HB	x	Smooth					
			x	Interrupted					
			x	Extremely interrupted					
H.3.1	Hardened cast iron	55 HRC	x	Smooth					
			x	Interrupted					
			x	Extremely interrupted					

Index	Cutting edges code negative insert*				Main Application	Extended application	CTBH 2000C					
	Material	Strength	Ra (theo.)	Cutting condition			EN-F					
							1.6–6.4					
							v_c	f	a_p			
H.1.1	Hardened steel	46–55 HRC	x	Smooth	●	○	525	0.002–0.006	0.004–0.02			
			x	Interrupted	●					525	0.002–0.006	0.004–0.02
			x	Extremely interrupted	○							
H.1.2		56–60 HRC	x	Smooth	●	○	600	0.002–0.006	0.004–0.02			
			x	Interrupted	●					600	0.002–0.006	0.004–0.02
			x	Extremely interrupted	○							
H.1.3		61–65 HRC	x	Smooth	●	○	600	0.002–0.006	0.004–0.02			
			x	Interrupted	●					600	0.002–0.006	0.004–0.02
			x	Extremely interrupted	○							
H.1.4	66–70 HRC	x	Smooth	●	○	660	0.002–0.006	0.004–0.02				
		x	Interrupted	●					660	0.002–0.006	0.004–0.02	
		x	Extremely interrupted	○								
H.2.1	Chilled iron	400 HB	x	Smooth								
			x	Interrupted								
			x	Extremely interrupted								
H.3.1	Hardened cast iron	55 HRC	x	Smooth								
			x	Interrupted								
			x	Extremely interrupted								

Index	Cutting edges code negative insert*				Main Application	Extended application	CTBH 3000C					
	Material	Strength	Ra (theo.)	Cutting condition			SN-014D-F					
							1.0–3.2					
							v_c	f	a_p			
H.1.1	Hardened steel	46–55 HRC	x	Smooth	○	○	600	0.002–0.006	0.004–0.02			
			x	Interrupted	●					600	0.002–0.006	0.004–0.02
			x	Extremely interrupted	●							
H.1.2		56–60 HRC	x	Smooth	○	○	660	0.002–0.006	0.004–0.02			
			x	Interrupted	●					660	0.002–0.006	0.004–0.02
			x	Extremely interrupted	●							
H.1.3		61–65 HRC	x	Smooth	○	○	660	0.002–0.006	0.004–0.02			
			x	Interrupted	●					660	0.002–0.006	0.004–0.02
			x	Extremely interrupted	●							
H.1.4	66–70 HRC	x	Smooth	○	○	725	0.002–0.006	0.004–0.02				
		x	Interrupted	●					725	0.002–0.006	0.004–0.02	
		x	Extremely interrupted	●								725
H.2.1	Chilled iron	400 HB	x	Smooth	○	○	660	0.003–0.006				
			x	Interrupted	○	○			600	0.002–0.005	0.004–0.016	
			x	Extremely interrupted	○	○						525
H.3.1	Hardened cast iron	55 HRC	x	Smooth	○	○	660	0.003–0.006				
			x	Interrupted	○	○			600	0.002–0.005	0.004–0.016	
			x	Extremely interrupted	○	○						525

 With our PCBN indexable inserts, we recommend dry machining – information about this can be found in our **HardCut – PCBN Selection brochure**

 * Note chamfer width: The wider the chamfer, the more stable the cutting edge.

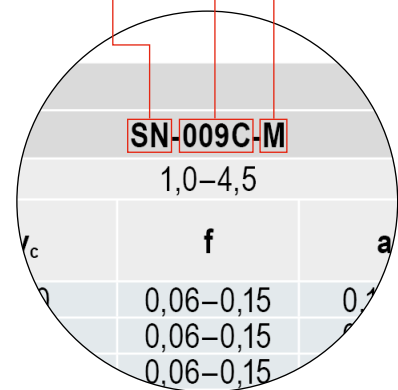
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CTBH 1000C					
SN-009C-M			SN-014D-R		
1.0-3.2			0.5-1.6		
v_c	f	a_p	v_c	f	a_p
660	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
725	0.002-0.006	0.004-0.02	660	0.002-0.01	0.005-0.02
725	0.002-0.006	0.004-0.02	660	0.002-0.01	0.005-0.02
725	0.002-0.006	0.004-0.02	660	0.002-0.01	0.005-0.02
725	0.002-0.02	0.004-0.02	660	0.002-0.01	0.005-0.02
800	0.002-0.006	0.004-0.02	725	0.002-0.01	0.005-0.02
800	0.002-0.006	0.004-0.02	725	0.002-0.01	0.005-0.02

CTBH 2000C					
SN-009C-M			SN-014D-R		
1.0-4.5			0.8-3.0		
v_c	f	a_p	v_c	f	a_p
525	0.002-0.006	0.004-0.02	460	0.002-0.01	0.005-0.02
525	0.002-0.006	0.004-0.02	460	0.002-0.01	0.005-0.02
525	0.002-0.006	0.004-0.02	460	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02

CTBH 3000C					
SN-018E-M			SN-020G-R		
1.6-3.2			0.8-3.0		
v_c	f	a_p	v_c	f	a_p
500	0.002-0.01	0.004-0.02	500	0.003-0.016	0.006-0.02
500	0.002-0.01	0.004-0.02	500	0.003-0.016	0.006-0.02
500	0.002-0.01	0.004-0.02	500	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
625	0.002-0.01	0.004-0.02	625	0.003-0.016	0.006-0.02
625	0.002-0.01	0.004-0.02	625	0.003-0.016	0.006-0.02
625	0.002-0.01	0.004-0.02	625	0.003-0.016	0.006-0.02
600	0.003-0.008	0.004-0.02	600	0.003-0.008	0.006-0.02
525	0.003-0.006	0.004-0.02	525	0.003-0.006	0.006-0.02
460	0.003-0.006	0.004-0.02	460	0.003-0.006	0.006-0.02
600	0.003-0.008	0.004-0.02	600	0.003-0.008	0.006-0.02
525	0.003-0.006	0.004-0.02	525	0.003-0.006	0.006-0.02
460	0.003-0.006	0.004-0.02	460	0.003-0.006	0.006-0.02

CNGA 120408 SN-009C B3-M CTBH1000C





Cutting data standard values for positive PCBN inserts


Index	Cutting edges code positive insert*				Main Application	Extended application	CTBH 1000C		
	Material	Strength	Ra (theo.)	Cutting condition			EN-F		
							1.6–6.4		
							v_c	f	a_p
H.1.1	Hardened steel	46–55 HRC	x	Smooth	●	○	750	0.002–0.006	0.004–0.02
			x	Interrupted	○				
			x	Extremely interrupted	○				
H.1.2		56–60 HRC	x	Smooth	●	○	825	0.002–0.006	0.004–0.02
			x	Interrupted	○				
			x	Extremely interrupted	○				
H.1.3		61–65 HRC	x	Smooth	●	○	825	0.002–0.006	0.004–0.02
			x	Interrupted	○				
			x	Extremely interrupted	○				
H.1.4	66–70 HRC	x	Smooth	●	○	890	0.002–0.006	0.004–0.02	
		x	Interrupted	○					
		x	Extremely interrupted	○					
H.2.1	Chilled iron	400 HB	x	Smooth					
			x	Interrupted					
			x	Extremely interrupted					
H.3.1	Hardened cast iron	55 HRC	x	Smooth					
			x	Interrupted					
			x	Extremely interrupted					

Index	Cutting edges code positive insert*				Main Application	Extended application	CTBH 2000C					
	Material	Strength	Ra (theo.)	Cutting condition			EN-F					
							1.6–6.4					
							v_c	f	a_p			
H.1.1	Hardened steel	46–55 HRC	x	Smooth	●	○	600	0.002–0.006	0.004–0.02			
			x	Interrupted	●					594	0.002–0.006	0.004–0.02
			x	Extremely interrupted	○							
H.1.2		56–60 HRC	x	Smooth	●	○	700	0.002–0.006	0.004–0.02			
			x	Interrupted	●					693	0.002–0.006	0.004–0.02
			x	Extremely interrupted	○							
H.1.3		61–65 HRC	x	Smooth	●	○	700	0.002–0.006	0.004–0.02			
			x	Interrupted	●					700	0.002–0.006	0.004–0.02
			x	Extremely interrupted	○							
H.1.4	66–70 HRC	x	Smooth	●	○	750	0.002–0.006	0.004–0.02				
		x	Interrupted	●					750	0.002–0.006	0.004–0.02	
		x	Extremely interrupted	○								
H.2.1	Chilled iron	400 HB	x	Smooth								
			x	Interrupted								
			x	Extremely interrupted								
H.3.1	Hardened cast iron	55 HRC	x	Smooth								
			x	Interrupted								
			x	Extremely interrupted								

Index	Cutting edges code positive insert*				Main Application	Extended application	CTBH 3000C					
	Material	Strength	Ra (theo.)	Cutting condition			SN-014D-F					
							1.0–3.2					
							v_c	f	a_p			
H.1.1	Hardened steel	46–55 HRC	x	Smooth	○		700	0.002–0.006	0.004–0.02			
			x	Interrupted	●					600	0.002–0.006	0.004–0.02
			x	Extremely interrupted	●							
H.1.2		56–60 HRC	x	Smooth	○		750	0.002–0.006	0.004–0.02			
			x	Interrupted	●					660	0.002–0.006	0.004–0.02
			x	Extremely interrupted	●							
H.1.3		61–65 HRC	x	Smooth	○		660	0.002–0.006	0.004–0.02			
			x	Interrupted	●					660	0.002–0.006	0.004–0.02
			x	Extremely interrupted	●							
H.1.4	66–70 HRC	x	Smooth	○		825	0.002–0.006	0.004–0.02				
		x	Interrupted	●					725	0.002–0.006	0.004–0.02	
		x	Extremely interrupted	●								725
H.2.1	Chilled iron	400 HB	x	Smooth	○		759	0.003–0.006				
			x	Interrupted	○				700	0.002–0.005	0.004–0.02	
			x	Extremely interrupted	○							600
H.3.1	Hardened cast iron	55 HRC	x	Smooth	○		750	0.003–0.006				
			x	Interrupted	○				700	0.002–0.005	0.004–0.02	
			x	Extremely interrupted	○							600

 With our PCBN indexable inserts, we recommend dry machining – information about this can be found in our **HardCut – PCBN Selection brochure**

 * Note chamfer width: The wider the chamfer, the more stable the cutting edge.

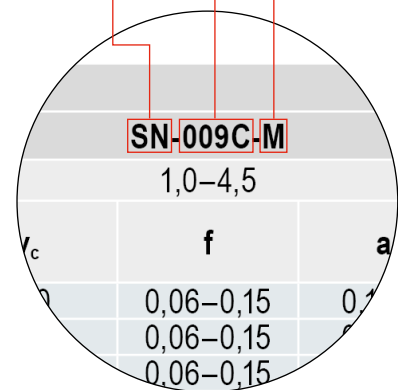
 The cutting data is strongly influenced by external conditions, such as the stability of the tool and workpiece clamping, material and type of machine. The specified values represent guideline cutting data that can be adjusted by approx. **±20%** according to the usage conditions.

CTBH 1000C					
SN-009C-M			SN-014D-R		
1.0-3.2			0.5-1.6		
v_c	f	a_p	v_c	f	a_p
760	0.002-0.006	0.004-0.02	700	0.002-0.01	0.005-0.02
760	0.002-0.006	0.004-0.02	700	0.002-0.01	0.005-0.02
825	0.002-0.006	0.004-0.02	760	0.002-0.01	0.005-0.02
825	0.002-0.006	0.004-0.02	760	0.002-0.01	0.005-0.02
825	0.002-0.006	0.004-0.02	760	0.002-0.01	0.005-0.02
825	0.002-0.006	0.004-0.02	760	0.002-0.01	0.005-0.02
890	0.002-0.006	0.004-0.02	825	0.002-0.01	0.005-0.02
890	0.002-0.006	0.004-0.02	825	0.002-0.01	0.005-0.02

CTBH 2000C					
SN-009C-M			SN-014D-R		
1.0-4.5			0.8-3.0		
v_c	f	a_p	v_c	f	a_p
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	525	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
600	0.002-0.006	0.004-0.02	600	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	700	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	700	0.002-0.01	0.005-0.02
660	0.002-0.006	0.004-0.02	700	0.002-0.01	0.005-0.02

CTBH 3000C					
SN-018E-M			SN-020G-R		
1.6-3.2			0.8-3.0		
v_c	f	a_p	v_c	f	a_p
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
560	0.002-0.01	0.004-0.02	560	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
640	0.002-0.01	0.004-0.02	645	0.003-0.016	0.006-0.02
725	0.002-0.01	0.004-0.02	725	0.003-0.016	0.006-0.02
725	0.002-0.01	0.004-0.02	725	0.003-0.016	0.006-0.02
725	0.002-0.01	0.004-0.02	725	0.003-0.016	0.006-0.02
700	0.003-0.008	0.004-0.02	700	0.003-0.008	0.006-0.02
600	0.003-0.006	0.004-0.02	600	0.003-0.006	0.006-0.02
525	0.003-0.006	0.004-0.02	525	0.003-0.006	0.006-0.02
700	0.003-0.008	0.004-0.02	700	0.003-0.008	0.006-0.02
600	0.003-0.006	0.004-0.02	600	0.003-0.006	0.006-0.02
525	0.003-0.006	0.004-0.02	525	0.003-0.006	0.006-0.02

DCGW 11T304 SN-009C B4-M CTBH2000C



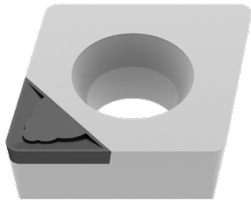
Cutting data standard values for diamond cutting materials CTD PD20 / PS30 / PU20 / CD10 / MD05

Index	Material group	Tool Material	$a_p = 0.0015''-0.016''$ Surface roughness R_z in μm		$a_p = 0.0016''-0.040''$ Surface roughness R_z in μm		$a_p = 0.0016''-0.100''$ Surface roughness R_z in μm			
			2.5-5.0		5.0-10		2.5-5.0		5.0-10	
			CTD ...	CTD ...	CTD ...	CTD ...	CTD ...	CTD ...		
N.1.1 N.1.2	Aluminium wrought alloys without Si $f=0.002-0.020$ inch/rev.	○ Tool Material v_c in ft/min	PD20 / PU20 / CD10 / MD05 1300-8250	PD20 / PU20 / CD10 / MD05 1300-8250	PD20 / PU20 / CD10 / MD05 1300-6600	PD20 / PU20 / CD10 / MD05 1300-6600	PD20 / PU20 / CD10 / MD05 1300-5300	PD20 / PU20 / CD10 / MD05 1300-5300		
		● Tool Material v_c in ft/min		PD20 / CD10 1300-8250		PD20 / CD10 1300-6600		PD20 / CD10 1300-5300		
		⊖ Tool Material v_c in ft/min	PD20 / PU20 1300-8250	PD20 / PU20 1300-8250	PD20 / PU20 1300-6600	PD20 / PU20 1300-6600	PD20 / PU20 1300-5300	PD20 / PU20 1300-5300		
N.2.1	Cast Aluminium Alloys $Si \leq 12\%$ – hardened or $Si = 12-20\%$ – non hardened $f=0.002-0.020$ inch/rev.	○ Tool Material v_c in ft/min	PS30 / PU20 / CD10 / MD05 2000-6600	PS30 / PU20 / CD10 / MD05 2000-7000	PS30 / PU20 / CD10 / MD05 2000-6000	PS30 / PU20 / CD10 / MD05 2000-6600	PS30 / PU20 / CD10 / MD05 2000-5000	PS30 / PU20 / CD10 / MD05 2000-6000		
		● Tool Material v_c in ft/min	PD20 / PU20 / CD10 1300-6600	PD20 / PU20 / CD10 1300-7000	PD20 / PU20 / CD10 1300-6000	PS30 / PU20 / CD10 2000-6600	PS30 / PU20 / CD10 1000-5000	PS30 / PU20 / CD10 1300-6000		
		⊖ Tool Material v_c in ft/min	PS30 2000-6600	PS30 2000-7000	PS30 2000-6000	PS30 2000-6600	PS30 2000-5000			
N.2.2 N.2.3	Aluminium cast alloys $Si = 12-20\%$ $f=0.002-0.020$ inch/rev.	○ Tool Material v_c in ft/min	PU20 / CD10 / MD05 2600-4000	PU20 / CD10 / MD05 1300-6000	PU20 / CD10 / MD05 2300-3300	PU20 / CD10 / MD05 1000-5000	PU20 / CD10 / MD05 2000-3000	PU20 / CD10 / MD05 1200-4000		
		● Tool Material v_c in ft/min		PU20 / CD10 2000-6000		PU20 / CD10 2000-5000		PU20 / CD10 2000-4000		
		⊖ Tool Material v_c in ft/min		PU20 2000-6000		PU20 2000-5000				
N.3.1 N.3.2 N.3.3	Copper and copper wrought alloys $f=0.002-0.020$ inch/rev.	○ Tool Material v_c in ft/min	PD20 / PU20 / CD10 / MD05 1300-6000	PD20 / PU20 / CD10 / MD05 1000-5200	PD20 / PU20 / CD10 / MD05 1300-5300	PS30 / PU20 / CD10 / MD05 1000-5000	PD20 / PU20 / CD10 / MD05 1300-4600	PD20 / PU20 / CD10 / MD05 1300-5300		
		● Tool Material v_c in ft/min	PU20 / CD10 1000-5000	PD20 / PU20 / CD10 1000-5000	PD20 / PU20 / CD10 1300-5300	PS30 / PU20 / CD10 1000-5000	PD20 / PU20 / CD10 1300-5300	PD20 / PU20 / CD10 1000-5000		
		⊖ Tool Material v_c in ft/min		PD20 / PU20 1000-6000		PS30 / PU20 1000-5700	PD20 / PU20 1000-5000	PS30 / PU20 650-4300		
O.1.1 O.1.2	Plastic materials without reinforcement (acrylic glass) $f=0.002-0.028$ inch/rev.	○ Tool Material v_c in ft/min		PD20 / CD10 / MD05 1200-4000		PD20 / CD10 / MD05 1000-3300		PS30 / CD10 / MD05 650-3300		
		● Tool Material v_c in ft/min		PD20 / CD10 1000-4000		PD20 / CD10 650-3300		PS30 / CD10 650-3000		
		⊖ Tool Material v_c in ft/min		PD20 / CD10 1200-4000		PD20 / CD10 1000-3300		PD20 / CD10 650-3300		
O.2.1 O.2.2	Plastic materials with reinforcement (glass-fibre, carbon-fibre reinforced) $f=0.002-0.028$ inch/rev.	○ Tool Material v_c in ft/min	PS30 / PU20 / CD10 / MD05 1650-3300		PS30 / PU20 / CD10 / MD05 1200-3000	PS30 / PU20 / CD10 / MD05 1000-3000	PS30 / PU20 / CD10 / MD05 1300-5300	PS30 / PU20 / CD10 / MD05 650-4000		
		● Tool Material v_c in ft/min	PS30 / PU20 / CD10 1300-3000		PS30 / PU20 / CD10 1300-5300	PS30 / PU20 / CD10 650-3000	PS30 / PU20 / CD10 650-3000	PS30 / PU20 / CD10 650-4600		
		⊖ Tool Material v_c in ft/min	PU20 1650-3300		PU20 1300-2600	PU20 1000-3300	PU20 1300-5300			
O.3.1	Graphite	Tool Material v_c in ft/min	PD20 / PS30 / PU20 / CD10 330-11000		PD20 / PS30 / PU20 / CD10 330-10000		PD20 / PS30 / PU20 / CD10 330-10000			

○ Smooth cut	● Irregular cutting depth	⊖ Interrupted cut
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Cutting data standard values for the CB chip breaker geometries

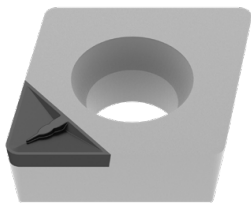
-CB1



3D-Chip Breaker -CB1				
Corner Radius	a _p inch		f _z inch/rev.	
	min.	max.	min.	max.
0.004	0.002	0.012	0.001	0.002
0.008	0.002	0.016	0.001	0.003
0.016	0.004	0.031	0.002	0.006
0.032	0.006	0.039	0.003	0.008
0.064	0.012	0.059	0.005	0.010

- ▲ Finish and Superfinish
- ▲ Extremely sharp cutting edge geometry
- ▲ Depth of Cut a_p: 0.002–0.06 inch
- ▲ Smallest cutting pressure for highest accuracies
- ▲ For machining of thin-walled and unstable workpieces

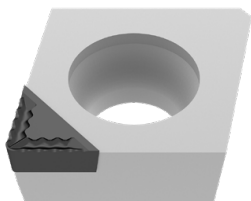
-CB2



3D-Chip Breaker -CB2				
Corner Radius	a _p inch		f _z inch/rev.	
	min.	max.	min.	max.
0.008	0.020	0.031	0.003	0.005
0.016	0.024	0.059	0.003	0.008
0.032	0.028	0.059	0.006	0.012
0.064	0.031	0.079	0.008	0.016

- ▲ Semi-finish and Finish machining
- ▲ Negative edge preparation
- ▲ Cutting Depth a_p: 0.020–0.078 inch
- ▲ High surface quality and tight tolerances
- ▲ Machining of solid workpieces under stable conditions






-CB3




3D-Chip Breaker -CB3				
Corner Radius	a _p inch		f _z inch/rev.	
	min.	max.	min.	max.
0.016	0.039	0.118	0.004	0.008
0.032	0.039	0.118	0.006	0.014

- ▲ Medium and rough machining
- ▲ Highly aggressive chip breaker
- ▲ Cutting depth a_p: 0.04–0.12 inch
- ▲ Stable component conditions necessary
- ▲ Cooling must be ensured

Cutting data standard values for negative inserts

Designation	-CF20 (Cermet)						-F50						
	f			a _p			f			a _p			
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	
	inch/rev.			inch			inch/rev.			inch			
	CN.. 321						0.002	0.006	0.010	0.008	0.020	0.059	
	CN.. 322						0.004	0.008	0.012	0.016	0.039	0.079	
	CN.. 431	0.002	0.006	0.010	0.012	0.020	0.059	0.002	0.006	0.010	0.008	0.024	0.059
	CN.. 432	0.003	0.006	0.010	0.012	0.020	0.059	0.004	0.008	0.012	0.016	0.039	0.079
	CN.. 433							0.006	0.010	0.014	0.024	0.055	0.102
	CN.. 434												
	CN.. 542												
	CN.. 543												
	CN.. 544												
	CN.. 546												
	CN.. 642												
	CN.. 643												
	CN.. 644												
	CN.. 646												
CN.. 866													
	DN.. 330.5						0.002	0.004	0.008	0.004	0.016	0.091	
	DN.. 331	0.002	0.006	0.010	0.012	0.020	0.059	0.002	0.006	0.010	0.008	0.024	0.059
	DN.. 332	0.003	0.006	0.010	0.012	0.020	0.059	0.004	0.008	0.012	0.016	0.039	0.079
	DN.. 333							0.006	0.010	0.014	0.024	0.055	0.102
	DN.. 431							0.002	0.006	0.010	0.008	0.024	0.059
	DN.. 432							0.004	0.008	0.012	0.016	0.039	0.079
	DN.. 433							0.006	0.010	0.014	0.024	0.055	0.102
	DN.. 434												
	DN.. 441	0.002	0.006	0.010	0.012	0.020	0.059	0.002	0.006	0.010	0.008	0.024	0.059
	DN.. 442	0.003	0.006	0.010	0.012	0.020	0.059	0.004	0.008	0.012	0.016	0.039	0.079
	DN.. 443	0.004	0.008	0.012	0.020	0.028	0.059	0.006	0.010	0.014	0.024	0.055	0.102
	DN.. 444												
	SN.. 332							0.004	0.008	0.012	0.016	0.039	0.079
	SN.. 431							0.002	0.006	0.010	0.008	0.024	0.059
SN.. 432							0.004	0.008	0.012	0.016	0.039	0.079	
SN.. 433							0.006	0.010	0.014	0.024	0.055	0.102	
SN.. 434													
SN.. 442													
SN.. 443													
SN.. 444													
SN.. 543													
SN.. 544													
SN.. 546													
SN.. 856													
SN.. 866													
	TN.. 221						0.002	0.006	0.010	0.008	0.024	0.059	
	TN.. 222						0.004	0.008	0.012	0.016	0.039	0.079	
	TN.. 331	0.002	0.006	0.010	0.012	0.020	0.059	0.002	0.006	0.010	0.008	0.024	0.059
	TN.. 332	0.003	0.006	0.010	0.012	0.020	0.059	0.004	0.008	0.012	0.016	0.039	0.079
	TN.. 333	0.004	0.008	0.012	0.020	0.028	0.059	0.006	0.010	0.014	0.024	0.055	0.102
	TN.. 431												
	TN.. 432												
TN.. 433													
TN.. 434													
	VN.. 331						0.002	0.006	0.010	0.008	0.024	0.059	
	VN.. 332						0.004	0.008	0.012	0.016	0.039	0.079	
	VN.. 333												
	WN.. 331	0.002	0.006	0.010	0.012	0.020	0.059	0.002	0.006	0.010	0.008	0.024	0.059
	WN.. 332	0.003	0.006	0.010	0.012	0.020	0.059	0.004	0.008	0.012	0.016	0.039	0.079
	WN.. 333												
	WN.. 431							0.002	0.006	0.010	0.008	0.024	0.059
	WN.. 432	0.003	0.006	0.010	0.012	0.020	0.059	0.004	0.008	0.012	0.016	0.039	0.079
	WN.. 433							0.006	0.010	0.014	0.024	0.055	0.102
	WN.. 434												


Sharp ← → stable

 The data shows reference values. An adjustment to the actual conditions may be required.

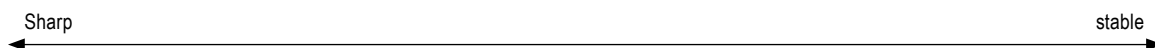
Cutting data standard values for negative inserts

Designation	-TMQ						-M70					
	f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch		
CN.. 321												
CN.. 322												
CN.. 431												
CN.. 432	0.008	0.016	0.026	0.031	0.118	0.197	0.008	0.012	0.018	0.031	0.118	0.236
CN.. 433	0.010	0.020	0.033	0.039	0.118	0.236	0.010	0.016	0.024	0.047	0.118	0.236
CN.. 434							0.012	0.018	0.028	0.063	0.118	0.236
CN.. 542							0.008	0.012	0.018	0.031	0.157	0.315
CN.. 543							0.010	0.016	0.024	0.047	0.157	0.315
CN.. 544							0.012	0.018	0.028	0.063	0.157	0.315
CN.. 546							0.016	0.028	0.047	0.094	0.157	0.315
CN.. 642							0.008	0.012	0.018	0.031	0.177	0.354
CN.. 643							0.010	0.016	0.024	0.047	0.177	0.354
CN.. 644							0.012	0.018	0.028	0.063	0.177	0.354
CN.. 646							0.016	0.028	0.047	0.094	0.177	0.354
CN.. 866							0.016	0.028	0.047	0.094	0.236	0.512
DN.. 330.5												
DN.. 331												
DN.. 332							0.008	0.010	0.018	0.031	0.079	0.197
DN.. 333							0.010	0.014	0.024	0.047	0.079	0.197
DN.. 431												
DN.. 432							0.008	0.010	0.018	0.031	0.098	0.236
DN.. 433							0.010	0.014	0.024	0.047	0.098	0.236
DN.. 434							0.012	0.016	0.028	0.063	0.098	0.236
DN.. 441												
DN.. 442	0.006	0.012	0.020	0.031	0.098	0.197	0.008	0.010	0.018	0.031	0.098	0.236
DN.. 443	0.008	0.016	0.024	0.039	0.118	0.197	0.010	0.014	0.024	0.047	0.098	0.236
DN.. 444							0.012	0.016	0.028	0.063	0.098	0.236
SN.. 332												
SN.. 431												
SN.. 432							0.008	0.012	0.020	0.031	0.118	0.236
SN.. 433							0.010	0.016	0.026	0.047	0.118	0.236
SN.. 434							0.012	0.018	0.028	0.063	0.118	0.236
SN.. 442												
SN.. 443							0.010	0.016	0.026	0.047	0.157	0.315
SN.. 444							0.012	0.018	0.030	0.063	0.157	0.315
SN.. 543							0.010	0.016	0.026	0.047	0.177	0.354
SN.. 544							0.012	0.018	0.030	0.063	0.177	0.354
SN.. 546							0.016	0.028	0.047	0.094	0.177	0.354
SN.. 856												
SN.. 866							0.016	0.028	0.047	0.094	0.236	0.512
TN.. 221												
TN.. 222												
TN.. 331												
TN.. 332							0.008	0.010	0.018	0.031	0.098	0.236
TN.. 333							0.010	0.014	0.024	0.047	0.098	0.236
TN.. 431							0.006	0.008	0.012	0.016	0.118	0.276
TN.. 432							0.008	0.010	0.018	0.031	0.118	0.276
TN.. 433							0.010	0.014	0.024	0.047	0.118	0.276
TN.. 434							0.012	0.016	0.028	0.063	0.118	0.276
VN.. 331												
VN.. 332												
VN.. 333												
WN.. 331												
WN.. 332							0.008	0.012	0.018	0.031	0.079	0.157
WN.. 333							0.010	0.016	0.024	0.047	0.079	0.157
WN.. 431												
WN.. 432	0.008	0.012	0.026	0.031	0.118	0.197	0.008	0.012	0.018	0.031	0.098	0.197
WN.. 433	0.010	0.016	0.033	0.039	0.118	0.236	0.010	0.016	0.024	0.047	0.098	0.197
WN.. 434							0.012	0.018	0.028	0.063	0.098	0.197

Sharp ← → stable

 The data shows reference values. An adjustment to the actual conditions may be required.

Designation	-R28						-R58						-R88					
	f			a _p			f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch			inch/rev.			inch		
CN.. 321																		
CN.. 322																		
CN.. 431																		
CN.. 432	0.010	0.014	0.022	0.031	0.118	0.276	0.010	0.018	0.028	0.039	0.118	0.276						
CN.. 433	0.012	0.018	0.028	0.039	0.118	0.276	0.012	0.022	0.033	0.059	0.118	0.276						
CN.. 434	0.012	0.024	0.035	0.059	0.118	0.276	0.014	0.026	0.039	0.079	0.118	0.276						
CN.. 542																		
CN.. 543	0.012	0.018	0.028	0.039	0.157	0.354	0.012	0.022	0.033	0.059	0.157	0.354						
CN.. 544	0.014	0.024	0.035	0.059	0.157	0.354	0.014	0.026	0.039	0.079	0.157	0.354						
CN.. 546							0.016	0.030	0.047	0.098	0.157	0.354	0.016	0.028	0.047	0.079	0.197	0.354
CN.. 642																		
CN.. 643	0.012	0.018	0.028	0.039	0.217	0.472	0.014	0.022	0.033	0.059	0.217	0.472						
CN.. 644	0.014	0.024	0.035	0.059	0.217	0.472	0.016	0.026	0.039	0.079	0.217	0.472	0.016	0.028	0.039	0.079	0.197	0.472
CN.. 646	0.014	0.026	0.039	0.079	0.217	0.472	0.016	0.030	0.047	0.098	0.217	0.472	0.016	0.028	0.047	0.079	0.197	0.472
CN.. 866	0.014	0.028	0.039	0.079	0.276	0.630	0.018	0.031	0.051	0.098	0.315	0.630	0.024	0.039	0.059	0.138	0.394	0.709
DN.. 330.5																		
DN.. 331																		
DN.. 332																		
DN.. 333																		
DN.. 431																		
DN.. 432																		
DN.. 433																		
DN.. 434																		
DN.. 441																		
DN.. 442																		
DN.. 443	0.010	0.018	0.028	0.039	0.098	0.236	0.012	0.020	0.031	0.059	0.098	0.236						
DN.. 444	0.012	0.024	0.033	0.059	0.098	0.236	0.014	0.024	0.035	0.079	0.098	0.236						
SN.. 332																		
SN.. 431																		
SN.. 432							0.010	0.018	0.028	0.039	0.118	0.276						
SN.. 433							0.012	0.022	0.033	0.059	0.118	0.276						
SN.. 434																		
SN.. 442																		
SN.. 443	0.012	0.014	0.028	0.039	0.157	0.354	0.012	0.022	0.033	0.059	0.157	0.354						
SN.. 444	0.014	0.024	0.035	0.059	0.157	0.354	0.014	0.026	0.039	0.079	0.157	0.354						
SN.. 543							0.014	0.022	0.033	0.059	0.217	0.472						
SN.. 544	0.014	0.024	0.035	0.059	0.217	0.472	0.016	0.026	0.039	0.079	0.217	0.472	0.016	0.028	0.039	0.079	0.197	0.472
SN.. 546							0.016	0.030	0.047	0.079	0.217	0.472	0.016	0.028	0.047	0.079	0.197	0.472
SN.. 856	0.014	0.026	0.039	0.079	0.276	0.630	0.018	0.031	0.051	0.098	0.315	0.630	0.024	0.039	0.059	0.138	0.394	0.709
SN.. 866	0.014	0.026	0.039	0.079	0.276	0.630	0.018	0.031	0.051	0.098	0.315	0.630	0.024	0.039	0.059	0.138	0.394	0.709
TN.. 221																		
TN.. 222																		
TN.. 331																		
TN.. 332																		
TN.. 333																		
TN.. 431																		
TN.. 432																		
TN.. 433							0.012	0.020	0.031	0.059	0.118	0.276						
TN.. 434	0.012	0.022	0.033	0.059	0.118	0.276												
VN.. 331																		
VN.. 332																		
VN.. 333																		
WN.. 331																		
WN.. 332																		
WN.. 333																		
WN.. 431																		
WN.. 432																		
WN.. 433																		
WN.. 434																		



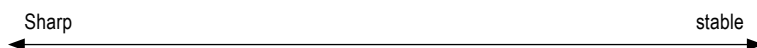
Cutting data standard values for negative inserts

Designation	-F30						-M30					
	f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch		
CN.. 321												
CN.. 322												
CN.. 431	0.002	0.006	0.010	0.016	0.039	0.079						
CN.. 432	0.004	0.009	0.014	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.079	0.177
CN.. 433							0.008	0.012	0.020	0.047	0.098	0.197
CN.. 434							0.010	0.014	0.022	0.063	0.098	0.197
CN.. 542												
CN.. 543												
CN.. 544												
CN.. 546												
CN.. 642												
CN.. 643												
CN.. 644												
CN.. 646												
CN.. 866												
DN.. 330.5												
DN.. 331	0.002	0.006	0.010	0.016	0.039	0.079						
DN.. 332	0.004	0.008	0.014	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.079	0.177
DN.. 333							0.008	0.012	0.020	0.047	0.079	0.177
DN.. 431	0.002	0.006	0.010	0.016	0.039	0.079						
DN.. 432	0.004	0.008	0.014	0.031	0.059	0.098	0.006	0.010	0.014	0.039	0.098	0.157
DN.. 433							0.008	0.012	0.020	0.039	0.098	0.157
DN.. 434												
DN.. 441	0.002	0.006	0.010	0.016	0.039	0.079						
DN.. 442	0.004	0.008	0.014	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.079	0.217
DN.. 443							0.008	0.012	0.020	0.047	0.079	0.217
DN.. 444												
SN.. 332												
SN.. 431	0.004	0.006	0.012	0.016	0.039	0.079						
SN.. 432	0.006	0.008	0.016	0.031	0.059	0.098	0.008	0.010	0.018	0.039	0.079	0.177
SN.. 433	0.006	0.008	0.016	0.047	0.071	0.098	0.010	0.012	0.020	0.047	0.079	0.197
SN.. 434												
SN.. 442												
SN.. 443												
SN.. 444												
SN.. 543												
SN.. 544												
SN.. 546												
SN.. 856												
SN.. 866												
TN.. 221												
TN.. 222												
TN.. 331	0.002	0.006	0.010	0.016	0.039	0.079						
TN.. 332	0.004	0.006	0.014	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.079	0.177
TN.. 333							0.008	0.012	0.020	0.047	0.079	0.177
TN.. 431												
TN.. 432												
TN.. 433												
TN.. 434												
VN.. 331	0.003	0.004	0.008	0.016	0.039	0.079						
VN.. 332	0.004	0.006	0.012	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.059	0.157
VN.. 333												
WN.. 331	0.002	0.006	0.010	0.016	0.039	0.079						
WN.. 332	0.004	0.008	0.012	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.059	0.138
WN.. 333							0.008	0.012	0.018	0.047	0.059	0.157
WN.. 431	0.002	0.006	0.010	0.016	0.039	0.079						
WN.. 432	0.004	0.008	0.014	0.031	0.059	0.098	0.006	0.010	0.016	0.039	0.079	0.177
WN.. 433							0.008	0.012	0.020	0.047	0.079	0.197
WN.. 434												

Sharp
←
→
 stable

The data shows reference values. An adjustment to the actual conditions may be required.


Designation	-M60						-M34						-M42					
	f			a _p			f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch			inch/rev.			inch		
CN.. 321																		
CN.. 322																		
CN.. 431							0.003	0.005	0.007	0.039	0.059	0.118	0.004	0.008	0.010	0.031	0.059	0.157
CN.. 432	0.010	0.012	0.020	0.059	0.098	0.236	0.004	0.006	0.014	0.039	0.071	0.138	0.008	0.012	0.017	0.039	0.098	0.157
CN.. 433	0.012	0.014	0.022	0.079	0.118	0.236	0.005	0.008	0.016	0.059	0.079	0.157	0.011	0.014	0.022	0.047	0.118	0.165
CN.. 434	0.012	0.016	0.024	0.079	0.118	0.236	0.006	0.010	0.018	0.079	0.118	0.177						
CN.. 542																		
CN.. 543	0.012	0.014	0.022	0.079	0.118	0.315												
CN.. 544																		
CN.. 546																		
CN.. 642																		
CN.. 643																		
CN.. 644																		
CN.. 646																		
CN.. 866																		
DN.. 330.5																		
DN.. 331													0.006	0.010	0.012	0.039	0.079	0.138
DN.. 332													0.008	0.012	0.016	0.047	0.098	0.157
DN.. 333																		
DN.. 431							0.003	0.005	0.007	0.031	0.047	0.098	0.006	0.010	0.014	0.039	0.079	0.157
DN.. 432	0.010	0.012	0.018	0.059	0.098	0.236	0.004	0.006	0.012	0.039	0.071	0.138	0.008	0.012	0.016	0.047	0.098	0.197
DN.. 433	0.012	0.016	0.022	0.059	0.098	0.236	0.005	0.008	0.015	0.059	0.079	0.157						
DN.. 434																		
DN.. 441													0.006	0.010	0.014	0.039	0.079	0.157
DN.. 442	0.010	0.012	0.018	0.059	0.098	0.236	0.004	0.006	0.012	0.039	0.071	0.138	0.008	0.012	0.017	0.047	0.098	0.197
DN.. 443	0.012	0.016	0.022	0.059	0.098	0.236	0.005	0.008	0.015	0.059	0.079	0.157						
DN.. 444																		
SN.. 332																		
SN.. 431																		
SN.. 432	0.012	0.014	0.020	0.059	0.079	0.236	0.006	0.010	0.016	0.039	0.079	0.157	0.006	0.010	0.016	0.039	0.079	0.177
SN.. 433	0.012	0.016	0.022	0.079	0.098	0.236	0.006	0.010	0.018	0.059	0.098	0.177	0.008	0.010	0.018	0.039	0.079	0.197
SN.. 434	0.012	0.016	0.024	0.079	0.098	0.236												
SN.. 442																		
SN.. 443																		
SN.. 444																		
SN.. 543																		
SN.. 544																		
SN.. 546																		
SN.. 856																		
SN.. 866																		
TN.. 221																		
TN.. 222																		
TN.. 331													0.004	0.008	0.012	0.031	0.079	0.197
TN.. 332	0.010	0.010	0.018	0.059	0.098	0.197	0.004	0.006	0.014	0.039	0.079	0.157	0.005	0.008	0.014	0.031	0.079	0.197
TN.. 333	0.012	0.012	0.022	0.079	0.098	0.217												
TN.. 431							0.004	0.006	0.014	0.039	0.079	0.157						
TN.. 432							0.005	0.008	0.016	0.059	0.098	0.157						
TN.. 433																		
TN.. 434							0.006	0.010	0.018	0.079	0.098	0.177						
VN.. 331							0.003	0.004	0.007	0.031	0.047	0.079						
VN.. 332							0.004	0.006	0.008	0.039	0.059	0.098						
VN.. 333							0.005	0.007	0.010	0.059	0.071	0.118						
WN.. 331													0.004	0.009	0.014	0.020	0.039	0.118
WN.. 332	0.010	0.012	0.018	0.059	0.079	0.157							0.004	0.009	0.014	0.020	0.039	0.118
WN.. 333	0.012	0.014	0.020	0.079	0.098	0.177												
WN.. 431													0.004	0.008	0.014	0.016	0.059	0.157
WN.. 432	0.010	0.012	0.020	0.059	0.079	0.197	0.004	0.006	0.014	0.039	0.079	0.157	0.006	0.010	0.016	0.031	0.059	0.157
WN.. 433	0.012	0.014	0.022	0.079	0.098	0.217	0.005	0.008	0.016	0.059	0.079	0.157	0.008	0.012	0.018	0.039	0.079	0.157
WN.. 434																		



Cutting data values for positive inserts

Designation	-CF05						-SF					
	f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch		
CC.. 21.5X5							0.001	0.001	0.002	0.004	0.016	0.059
CC.. 21.50							0.001	0.001	0.002	0.008	0.016	0.059
CC.. 21.5.5	0.001	0.003	0.005	0.004	0.012	0.051	0.001	0.004	0.006	0.008	0.016	0.059
CC.. 21.51	0.002	0.004	0.005	0.004	0.012	0.051	0.002	0.004	0.008	0.008	0.024	0.059
CC.. 21.52							0.002	0.005	0.008	0.008	0.039	0.059
CC.. 32.5X5							0.001	0.001	0.002	0.008	0.030	0.079
CC.. 32.50							0.001	0.001	0.002	0.008	0.030	0.079
CC.. 32.5.5	0.001	0.003	0.005	0.004	0.012	0.051	0.002	0.003	0.004	0.008	0.030	0.079
CC.. 32.51	0.002	0.004	0.009	0.008	0.016	0.051	0.002	0.005	0.008	0.008	0.030	0.079
CC.. 32.52	0.002	0.005	0.010	0.008	0.016	0.051	0.002	0.005	0.010	0.016	0.039	0.079
CC.. 32.53												
CC.. 430.5							0.002	0.003	0.004	0.008	0.031	0.098
CC.. 431							0.002	0.005	0.008	0.008	0.039	0.098
CC.. 432							0.003	0.006	0.010	0.016	0.039	0.098
CC.. 433							0.003	0.006	0.010	0.016	0.059	0.098
DC.. 21.5X5												
DC.. 21.50												
DC.. 21.50.3												
DC.. 21.5.5	0.001	0.003	0.005	0.004	0.012	0.051	0.001	0.004	0.006	0.004	0.016	0.059
DC.. 21.51	0.002	0.004	0.009	0.008	0.016	0.051	0.002	0.005	0.008	0.008	0.024	0.059
DC.. 21.52												
DC.. 32.5X5												
DC.. 32.50												
DC.. 32.50.3												
DC.. 32.5.5	0.001	0.003	0.005	0.004	0.012	0.051						
DC.. 32.51	0.002	0.004	0.009	0.008	0.016	0.051	0.002	0.005	0.008	0.008	0.028	0.079
DC.. 32.52	0.002	0.005	0.010	0.008	0.016	0.051	0.003	0.006	0.010	0.016	0.039	0.079
DC.. 32.53												
RC.. 0602MO												
RC.. 0803MO												
RC.. 1003MO												
RC.. 1204MO												
RC.. 1606MO												
RC.. 2006MO												
RC.. 2507MO												
SC.. 32.51	0.002	0.004	0.009	0.008	0.016	0.051	0.002	0.005	0.008	0.008	0.028	0.079
SC.. 32.52	0.002	0.005	0.010	0.008	0.016	0.051	0.003	0.006	0.010	0.016	0.039	0.079
SC.. 432							0.003	0.006	0.010	0.016	0.039	0.098
SC.. 433												
TC.. 1.81.51												
TC.. 21.5.5	0.001	0.003	0.005	0.004	0.012	0.051						
TC.. 21.51	0.002	0.004	0.009	0.008	0.016	0.051	0.002	0.005	0.008	0.008	0.028	0.079
TC.. 21.52	0.002	0.005	0.010	0.008	0.016	0.051	0.003	0.006	0.010	0.016	0.039	0.079
TC.. 32.5.5												
TC.. 32.51	0.002	0.004	0.009	0.008	0.016	0.051	0.002	0.005	0.008	0.008	0.031	0.098
TC.. 32.52							0.003	0.006	0.010	0.016	0.039	0.098
TC.. 32.53												
TC.. 432												
VC.. 220.X12												
VC.. 220.X25												
VC.. 220.X37												
VC.. 220.5	0.001	0.002	0.005	0.004	0.012	0.051	0.001	0.003	0.006	0.004	0.016	0.059
VC.. 221	0.002	0.003	0.009	0.008	0.016	0.051	0.002	0.004	0.008	0.008	0.024	0.059
VC.. 222							0.003	0.005	0.009	0.016	0.039	0.059
VC.. 330.5												
VC.. 331	0.002	0.003	0.009	0.008	0.016	0.051	0.002	0.004	0.008	0.008	0.028	0.079
VC.. 332	0.002	0.004	0.009	0.008	0.016	0.051	0.003	0.005	0.009	0.016	0.039	0.079
VC.. 333												
VC.. 220530												
WC.. 1.21.50							0.001	0.003	0.004	0.004	0.016	0.039
WC.. 1.21.51							0.001	0.004	0.008	0.004	0.024	0.059

Sharp ← → stable

 The data shows reference values. An adjustment to the actual conditions may be required.

Designation	-CF55						-SMF						-SM					
	f			a _p			f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch			inch/rev.			inch		
CC.. 21.5X5																		
CC.. 21.50																		
CC.. 21.5.5												0.002	0.005	0.008	0.008	0.024	0.098	
CC.. 21.51	0.002	0.005	0.009	0.008	0.020	0.051	0.003	0.006	0.010	0.012	0.028	0.079	0.003	0.007	0.012	0.016	0.031	0.098
CC.. 21.52							0.004	0.007	0.011	0.024	0.039	0.079	0.005	0.008	0.014	0.031	0.039	0.098
CC.. 32.5X5																		
CC.. 32.50																		
CC.. 32.5.5																		
CC.. 32.51	0.002	0.005	0.009	0.008	0.020	0.051	0.003	0.006	0.010	0.012	0.031	0.098	0.003	0.007	0.012	0.016	0.039	0.118
CC.. 32.52	0.002	0.006	0.010	0.008	0.020	0.051	0.004	0.007	0.011	0.024	0.039	0.098	0.005	0.008	0.014	0.031	0.047	0.118
CC.. 32.53													0.006	0.009	0.016	0.047	0.059	0.118
CC.. 430.5																		
CC.. 431	0.002	0.005	0.009	0.008	0.020	0.051	0.003	0.006	0.010	0.012	0.039	0.118	0.003	0.007	0.012	0.016	0.047	0.138
CC.. 432							0.004	0.007	0.011	0.024	0.047	0.118	0.005	0.008	0.014	0.031	0.059	0.138
CC.. 433													0.006	0.009	0.016	0.047	0.079	0.138
DC.. 21.5X5																		
DC.. 21.50																		
DC.. 21.50.3																		
DC.. 21.5.5	0.001	0.004	0.005	0.004	0.016	0.051							0.002	0.005	0.008	0.008	0.024	0.098
DC.. 21.51	0.002	0.005	0.009	0.008	0.020	0.051	0.003	0.006	0.010	0.012	0.028	0.079	0.003	0.007	0.012	0.016	0.031	0.098
DC.. 21.52							0.004	0.007	0.011	0.024	0.039	0.079	0.005	0.008	0.012	0.031	0.039	0.098
DC.. 32.5X5																		
DC.. 32.50																		
DC.. 32.50.3																		
DC.. 32.5.5																		
DC.. 32.51	0.002	0.005	0.009	0.008	0.020	0.051	0.003	0.006	0.010	0.012	0.031	0.098	0.031	0.007	0.012	0.016	0.039	0.118
DC.. 32.52	0.002	0.006	0.010	0.008	0.020	0.051	0.004	0.007	0.011	0.024	0.047	0.098	0.005	0.008	0.014	0.031	0.047	0.118
DC.. 32.53													0.006	0.009	0.016	0.047	0.067	0.118
RC.. 0602MO													0.008	0.012	0.020	0.008	0.020	0.059
RC.. 0803MO													0.008	0.012	0.024	0.008	0.024	0.079
RC.. 1003MO													0.010	0.016	0.028	0.008	0.028	0.098
RC.. 1204MO													0.012	0.020	0.031	0.008	0.031	0.118
RC.. 1606MO							0.006	0.012	0.024	0.010	0.079	0.138	0.016	0.024	0.039	0.012	0.039	0.138
RC.. 2006MO													0.020	0.031	0.047	0.016	0.047	0.157
RC.. 2507MO													0.024	0.035	0.055	0.024	0.079	0.197
SC.. 32.51	0.002	0.005	0.009	0.008	0.020	0.051	0.003	0.006	0.010	0.012	0.031	0.098	0.003	0.007	0.012	0.016	0.039	0.118
SC.. 32.52	0.002	0.006	0.010	0.008	0.020	0.051	0.004	0.007	0.011	0.024	0.039	0.098	0.005	0.008	0.014	0.031	0.047	0.118
SC.. 432							0.004	0.007	0.011	0.024	0.047	0.118	0.005	0.008	0.014	0.031	0.059	0.138
SC.. 433													0.006	0.009	0.016	0.047	0.079	0.138
TC.. 1.81.51													0.003	0.005	0.008	0.016	0.031	0.079
TC.. 21.5.5													0.003	0.004	0.008	0.016	0.024	0.118
TC.. 21.51	0.002	0.005	0.009	0.008	0.020	0.051							0.005	0.008	0.014	0.031	0.047	0.118
TC.. 21.52							0.004	0.007	0.011	0.024	0.039	0.098	0.005	0.008	0.014	0.031	0.047	0.118
TC.. 32.5.5																		
TC.. 32.51							0.003	0.006	0.010	0.012	0.039	0.118	0.003	0.007	0.012	0.016	0.047	0.138
TC.. 32.52	0.002	0.006	0.010	0.008	0.020	0.051	0.004	0.007	0.011	0.024	0.047	0.118	0.005	0.008	0.014	0.031	0.059	0.138
TC.. 32.53													0.006	0.009	0.016	0.047	0.067	0.138
TC.. 432													0.005	0.008	0.014	0.031	0.098	0.236
VC.. 220.X12																		
VC.. 220.X25																		
VC.. 220.X37																		
VC.. 220.5							0.002	0.004	0.007	0.008	0.020	0.079						
VC.. 221	0.002	0.004	0.009	0.008	0.020	0.051	0.003	0.006	0.009	0.012	0.028	0.079						
VC.. 222																		
VC.. 330.5																		
VC.. 331	0.002	0.004	0.009	0.008	0.020	0.051	0.003	0.006	0.009	0.012	0.031	0.098	0.003	0.007	0.010	0.016	0.039	0.118
VC.. 332	0.002	0.005	0.009	0.008	0.020	0.051	0.004	0.007	0.011	0.024	0.039	0.098	0.005	0.008	0.012	0.031	0.047	0.118
VC.. 333													0.006	0.009	0.013	0.047	0.059	0.118
VC.. 220530																		
WC.. 1.21.50																		
WC.. 1.21.51																		


← Sharp stable →

Information on the cutting data of chip breakers not included in this overview, can be found on → Page 215–221.

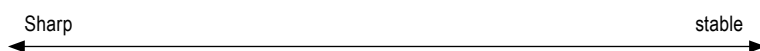
Cutting data values for positive inserts


Designation	-SMQ						-M25					
	f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch		
CC.. 21.5X5												
CC.. 21.50												
CC.. 21.5.5												
CC.. 21.51							0.002	0.005	0.008	0.008	0.043	0.079
CC.. 21.52												
CC.. 32.5X5												
CC.. 32.50												
CC.. 32.5.5												
CC.. 32.51	0.004	0.010	0.016	0.016	0.079	0.157	0.002	0.006	0.009	0.008	0.047	0.087
CC.. 32.52	0.006	0.012	0.020	0.031	0.079	0.157	0.004	0.008	0.012	0.016	0.071	0.126
CC.. 32.53												
CC.. 430.5												
CC.. 431	0.004	0.010	0.016	0.016	0.079	0.157						
CC.. 432	0.006	0.012	0.020	0.031	0.079	0.157						
CC.. 433												
DC.. 21.5X5												
DC.. 21.50												
DC.. 21.50.3												
DC.. 21.5.5							0.002	0.004	0.005	0.004	0.035	0.063
DC.. 21.51	0.004	0.007	0.010	0.016	0.059	0.118	0.002	0.005	0.007	0.008	0.043	0.079
DC.. 21.52												
DC.. 32.5X5												
DC.. 32.50												
DC.. 32.50.3												
DC.. 32.5.5							0.002	0.004	0.006	0.004	0.043	0.079
DC.. 32.51	0.004	0.010	0.016	0.016	0.079	0.157	0.002	0.006	0.009	0.008	0.047	0.087
DC.. 32.52	0.006	0.012	0.020	0.031	0.079	0.157	0.004	0.008	0.012	0.016	0.071	0.126
DC.. 32.53												
RC.. 0602MO												
RC.. 0803MO												
RC.. 1003MO												
RC.. 1204MO												
RC.. 1606MO												
RC.. 2006MO												
RC.. 2507MO												
SC.. 32.51												
SC.. 32.52												
SC.. 432												
SC.. 433												
TC.. 1.81.51												
TC.. 21.5.5												
TC.. 21.51							0.002	0.005	0.008	0.008	0.047	0.087
TC.. 21.52												
TC.. 32.5.5												
TC.. 32.51							0.002	0.006	0.009	0.008	0.063	0.118
TC.. 32.52							0.004	0.008	0.012	0.016	0.075	0.134
TC.. 32.53												
TC.. 432												
VC.. 220.X12												
VC.. 220.X25												
VC.. 220.X37												
VC.. 220.5												
VC.. 221												
VC.. 222												
VC.. 330.5												
VC.. 331							0.002	0.005	0.008	0.008	0.047	0.087
VC.. 332							0.004	0.006	0.010	0.016	0.055	0.118
VC.. 333												
VC.. 220530												
WC.. 1.21.50												
WC.. 1.21.51												

Sharp ← → stable

 The data shows reference values. An adjustment to the actual conditions may be required.

Designation	-M55						-F05					
	f			a _p			f			a _p		
	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.	min.	Recommended	max.
	inch/rev.			inch			inch/rev.			inch		
CC.. 21.5X5												
CC.. 21.50						0.001	0.001	0.002	0.004	0.039	0.079	
CC.. 21.5.5						0.001	0.002	0.004	0.004	0.039	0.079	
CC.. 21.51	0.002	0.005	0.008	0.016	0.059	0.102	0.001	0.004	0.008	0.004	0.039	0.079
CC.. 21.52												
CC.. 32.5X5												
CC.. 32.50												
CC.. 32.5.5												
CC.. 32.51	0.003	0.006	0.009	0.016	0.067	0.118						
CC.. 32.52	0.005	0.009	0.014	0.031	0.094	0.157						
CC.. 32.53												
CC.. 430.5												
CC.. 431	0.003	0.007	0.011	0.016	0.087	0.157						
CC.. 432	0.005	0.010	0.016	0.031	0.110	0.189						
CC.. 433												
DC.. 21.5X5							0.001	0.001	0.002	0.004	0.039	0.079
DC.. 21.50							0.001	0.001	0.002	0.004	0.039	0.079
DC.. 21.50.3							0.001	0.002	0.003	0.004	0.039	0.079
DC.. 21.5.5							0.001	0.002	0.004	0.004	0.039	0.079
DC.. 21.51	0.002	0.006	0.009	0.016	0.051	0.087						
DC.. 21.52	0.003	0.006	0.009	0.031	0.063	0.094						
DC.. 32.5X5							0.001	0.001	0.002	0.004	0.049	0.098
DC.. 32.50							0.001	0.001	0.002	0.004	0.049	0.098
DC.. 32.50.3							0.001	0.002	0.003	0.004	0.049	0.098
DC.. 32.5.5							0.001	0.003	0.004	0.004	0.049	0.098
DC.. 32.51	0.003	0.006	0.009	0.016	0.067	0.118	0.001	0.004	0.010	0.004	0.049	0.098
DC.. 32.52	0.005	0.009	0.014	0.031	0.094	0.157						
DC.. 32.53												
RC.. 0602MO												
RC.. 0803MO												
RC.. 1003MO												
RC.. 1204MO												
RC.. 1606MO												
RC.. 2006MO												
RC.. 2507MO												
SC.. 32.51	0.005	0.009	0.014	0.031	0.094	0.157						
SC.. 32.52	0.005	0.010	0.016	0.031	0.110	0.189						
SC.. 432												
SC.. 433												
TC.. 1.81.51	0.002	0.005	0.007	0.016	0.051	0.087						
TC.. 21.5.5												
TC.. 21.51	0.002	0.006	0.009	0.016	0.055	0.094						
TC.. 21.52												
TC.. 32.5.5												
TC.. 32.51												
TC.. 32.52	0.005	0.009	0.014	0.031	0.102	0.173						
TC.. 32.53												
TC.. 432												
VC.. 220.X12							0.001	0.001	0.002	0.004	0.049	0.098
VC.. 220.X25							0.001	0.001	0.002	0.004	0.049	0.098
VC.. 220.X37							0.001	0.002	0.003	0.004	0.049	0.098
VC.. 220.5							0.001	0.003	0.004	0.004	0.049	0.098
VC.. 221							0.001	0.006	0.010	0.004	0.049	0.098
VC.. 222												
VC.. 330.5												
VC.. 331	0.003	0.006	0.008	0.016	0.067	0.118						
VC.. 332	0.005	0.008	0.012	0.031	0.083	0.134						
VC.. 333												
VC.. 220530												
WC.. 1.21.50												
WC.. 1.21.51												



 Information on the cutting data of chip breakers not included in this overview, can be found on → Page 215–221.

Cutting edge preparation – PCBN

The stability of a cutting edge increases as the chamfer angle and chamfer width increase, but at the same time the cutting force increases and subsequently also the temperature in the process. A larger chamfer distributes the cutting force across a larger area of the cutting edge.

This increases the stability of the cutting edge, thereby facilitating higher feeds. If process stability and a constant tool life are the highest priority, then we recommend choosing a large chamfer.

If the highest priority is to achieve a very good

surface quality and optimum dimensional accuracy, then it is advisable to use a small chamfer for the manufacturing process. Vibrations, cutting forces and temperature are hereby reduced.

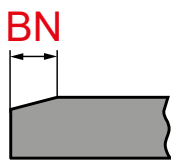
Hard turning in most cases is the finishing of the workpiece, the optimum cutting edge preparation is a deciding factor in order to reliably produce high-quality components with a long service life.

In the case of indexable inserts with no chip breaker, the correct chamfer design is vital, as well as the type of cutting edge. For this reason, the designation system has been extended with the following key to the various chamfer designs. The design and angle can be seen in the overview below.

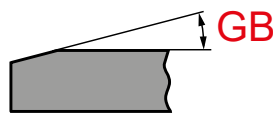
Preparation key at CERATIZIT

Designation in line with ISO Type of cutting edge	CERATIZIT chamfer design	Definition
SN (chamfered and rounded)	014D	0.0055" x 20° / 0,14 x 20°
EN (rounded)	rounded	

Chamfer design **SN**



Chamfer width



Chamfer angle

Type of cutting edge **EN**



CODE FOR CHAMFER ANGLE GB

A	B	C	D	E	F	G
5°	10°	15°	20°	25°	30°	35°

Precision and geometrical accuracy

Process stability, tool life

Examples	Chamfer width [inch]	Chamfer width [mm]	Chamfer angle GB
CNGA 120408SN-009C	0.0035	0,09	15°
DCGW 11T304SN-014D	0.0055	0,14	20°

Measures in the case of turning problems with PCBN

Troubleshooting

Problem	Possible causes	Remedy
Poor tool lives	<ul style="list-style-type: none"> ▲ Cutting speed not within the specifications ▲ Chip softening not carried out 	<ul style="list-style-type: none"> ▲ Increase the cutting speed ▲ Ideally, chip is red hot
Bad surface quality	<ul style="list-style-type: none"> ▲ Feed too high ▲ Corner radius too small 	<ul style="list-style-type: none"> ▲ Reduce feed ▲ Increase corner radius
Chatter marks	<ul style="list-style-type: none"> ▲ Tool overhang too long 	<ul style="list-style-type: none"> ▲ Reduce projection length ▲ Use more stable holder
Vibration	<ul style="list-style-type: none"> ▲ Cutting pressure too high ▲ Chip thickness too large ▲ Centre height incorrect ▲ Unstable tool or workpiece clamping ▲ Indexable insert radius too large, high recoil force 	<ul style="list-style-type: none"> ▲ Reduce cutting pressure ▲ Reduce chip thickness ▲ Check/adjust centre height ▲ Use smaller radius
Burrs on workpiece	<ul style="list-style-type: none"> ▲ With soft materials (sintered steel) ▲ Cutting pressure too high ▲ Corner radius too large ▲ Chamfer angle too large 	<ul style="list-style-type: none"> ▲ Use smaller radius ▲ Adjust chip thickness ▲ Increase cutting depth ▲ Increase cutting speed ▲ Reduce chamfer angle ▲ Use sharp cutting edge
Notch wear	<ul style="list-style-type: none"> ▲ Constant cutting depth leaving witness 	<ul style="list-style-type: none"> ▲ For dual-cut strategy, use different cutting depths ▲ Increase chamfer angle
Edge breakage on the workpiece	<ul style="list-style-type: none"> ▲ Sharp edge at the exit 	<ul style="list-style-type: none"> ▲ Change machining direction ▲ Reduce feed at entry and exit ▲ Program soft machining with chamfers and radii

Diamond as a cutting material



Ensures

- ▲ Optimal surface quality
- ▲ burr-free workpieces
- ▲ high service lives
- ▲ lowest cutting forces
- ▲ High Process Security

Complete programme of roughing, finishing and Trailing edge inserts for machining aluminium, non ferrous metals, plastics, ...

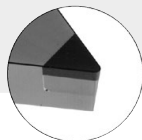
The cutting materials

	CTD CD10 (CVD)	CTD PD20 (PKD)	CTD PU20 (PKD)	CTD PS30 (PKD)
	Fine grain Size (N10)	Fine grain grade (N20)	Coarse grain grade (N20)	Coarse grain Size (N30)
Properties	<ul style="list-style-type: none"> ▲ perfect sharp edges ▲ no cutting pressure ▲ very close tolerances ▲ highest abrasion resistance with highest toughness ▲ very high heat conductivity 	<ul style="list-style-type: none"> ▲ high sharpness ▲ lower cutting pressure than PDC-S ▲ close tolerance ▲ lower abrasion resistance with increased toughness 	<ul style="list-style-type: none"> ▲ Very sharp cutting edge ▲ Reduced cutting pressure ▲ Tight tolerances ▲ Very high level of wear resistance and toughness 	<ul style="list-style-type: none"> ▲ high sharpness ▲ lower cutting pressure ▲ close tolerance ▲ lower abrasion resistance than with the PDC, with increased toughness
Material	suitable for superfinishing and semi-finishing of all non ferrous metals and NE-composite materials with small to high levels of abrasiveness	suitable for fine machining of all NE-materials with low abrasiveness	suitable for finishing to roughing non-ferrous metals and non-ferrous materials with highly abrasive alloying element. High chip removal on fibre-reinforced plastics such as CFRP and GFRP.	suitable for fine machining of all NE-materials and non-ferrous metals with low to very high levels of abrasiveness

Cutting Geometries

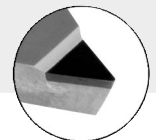
Neutral rake angle:

- ▲ higher cutting force
- ▲ higher temperature
- ▲ improved surface quality
- ▲ for stable workpieces



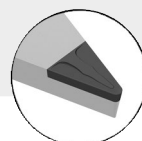
Positive rake angle: 5° / 7°

- ▲ Lower cutting force
- ▲ Lower temperature
- ▲ reduction in surface quality
- ▲ for unstable workpieces
- ▲ improved accuracy



CB chip breaker geometries:


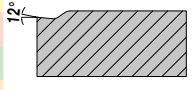

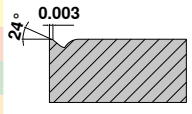
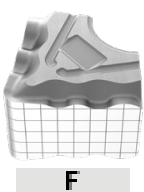
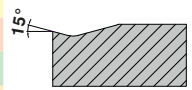

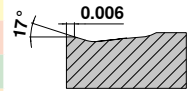
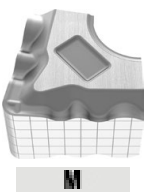
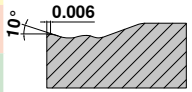
- ▲ Reliable chip control
- ▲ Ideal for low-alloy aluminium
- ▲ For F | M | R applications



Notes on diamond usage





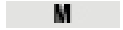
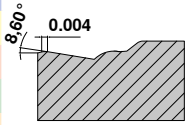


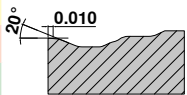


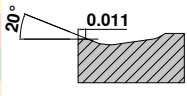



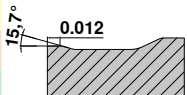
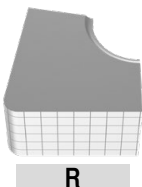

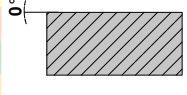


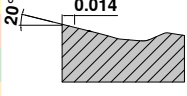
- ▲ Coolant is not generally needed, however it facilitates chip removal
- ▲ Note the chemical reaction to carbide-forming elements (PCD)
- ▲ Note the thermal interaction and critical temperature:
PCD: 600 °C, CVD: 700 °C
Depending on the material, use cooling.

Standard chip breakers / application notes

Negative	Model	Smooth cut	Irregular cutting depth	Interrupted cut	Sectional illustration		Geometry
					a_p inch	f inch	
<p>-CF / -CF20</p> <ul style="list-style-type: none"> ▲ Fine finishing ▲ Sharp cutting edge for low cutting forces ▲ Good chip control even at small depths of cut 	 <p>F</p>	CTEP110 / TCM10				CN.. DN.. TN.. WN..	
		CTEP110 / TCM10					
		CTEP110 / TCM10					
		0.012–0.059	0.003–0.010				
<p>-F40</p> <ul style="list-style-type: none"> ▲ Fine turning chip breaker for machining steels ▲ Good chip control ▲ Ideal for copy turning work 	 <p>F</p>	CTCP125-P	CTCP125-P			VN..	
		CTCP125-P	CTCP125-P				
				0.020–0.079			0.004–0.012
<p>-F50</p> <ul style="list-style-type: none"> ▲ Fine turning chip breaker for fine machining ▲ Steel and stainless steels ▲ Excellent chip control ▲ High surface quality 	 <p>F</p>	CTCP115-P / CTCP125-P	CTCP115-P / CTCP125-P / CTCP135-P	CTCP135-P		CN.. DN.. SN.. TN.. VN.. WN..	
			CTCP135-P	CTCP135-P			
				0.004–0.102			0.002–0.014
<p>-TFQ</p> <ul style="list-style-type: none"> ▲ Wiper geometry ▲ Finishing to medium machining ▲ Very high feeds ▲ High surface quality 	 <p>F</p>	CTEP110 / CTCP115-P	CTCP115-P / CTCP125-P			CN.. DN.. WN..	
		CTCP110					
		CTEP110 / CTCP115-P	CTCP115-P / CTCP125-P				
				0.020–0.197			0.004–0.024
<p>-XU</p> <ul style="list-style-type: none"> ▲ Finishing to light roughing ▲ Universal chip breaker ▲ Copy turning ▲ Excellent chip formation ▲ Low cutting forces 	 <p>M</p>	CTCP115-P / CTCP125-P	CTCP115-P / CTCP125-P	CTCP125-P		CN.. DN.. VN.. WN..	
		CTCP115-P	CTCP115-P / CTCP125-P				
				0.016–0.177			0.005–0.016




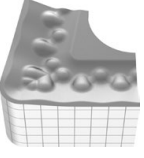
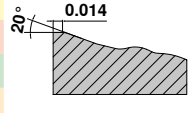

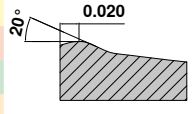

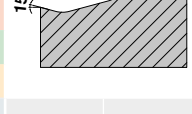

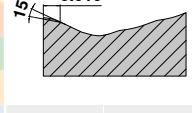

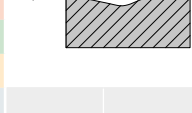
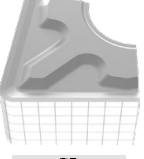
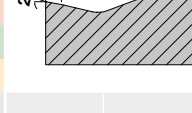
Main application steel and cast iron, secondary application stainless steels

Standard chip breakers / application notes


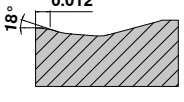

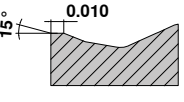

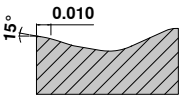

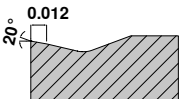

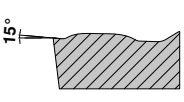

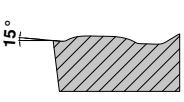

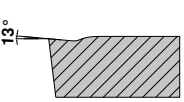
Negative	Model	Smooth cut	Irregular cutting depth	Interrupted cut	Sectional illustration		Geometry
					a _p inch	f inch	
-M40 ▲ Stable geometry ▲ Medium feed rates ▲ Can be used for any application ▲ Good chip control 		CTCP125-P	CTCP125-P		 8,60° 0.004	VN..	
		CTCP125-P	CTCP125-P				
-M50 ▲ Medium machining ▲ First choice for steel machining ▲ Universal application ▲ Wide range of applications 		CTCP115-P / CTCP125-P / CTCK110 / CTCK120	CTCP115-P / CTCP125-P	CTCP125-P / CTCP135-P	 20° 0.010	CN.. DN.. SN.. TN.. VN.. WN..	
		CTCP115-P	CTCP125-P	CTCP135-P			
		CTCP115-P / CTCP125-P / CTCK110 / CTCK120	CTCP115-P / CTCP125-P / CTCK110 / CTCK120	CTCP125-P / CTCK120			
-TMQ ▲ Wiper geometry ▲ Light to medium rough machining ▲ Very high feeds ▲ High surface quality 		CTCP115-P	CTCP125-P		 20° 0.011	CN.. DN.. WN..	
		CTCP125-P	CTCP125-P				
		CTCP125-P	CTCP125-P				
-M70 ▲ Light to medium rough machining ▲ Cast crust and forging skin ▲ Stable cutting edge ▲ Interrupted cut ▲ Raw materials and forgings 	 	CTCK110 / CTCK120 / CTCP115-P	CTCP115-P / CTCP125-P	CTCP125-P / CTCP135-P	 15,7° 0.012	CN.. DN.. SN.. TN.. WN..	
		CTCP115-P	CTCP125-P	CTCP135-P			
		CTCK110 / CTCK120 / CTCP115-P / CTCP125-P	CTCK120 / CTCP125-P	CTCP125-P / CTCK120			
-NMA ▲ Rough machining ▲ Stable cutting edge ▲ For short-chipping materials ▲ First choice for grey cast iron 					 0°	CN.. DN.. SN.. TN.. WN..	
		CTCK110	CTCK110 / CTCK120	CTCK120			
-R28 ▲ Single sided roughing geometry ▲ Longitudinal, face and copy turning ▲ Varying depths of cut ▲ Steels with low tensile strength (800 N / mm ²) ▲ Good chip control 		CTCP115-P / CTCP125-P	CTCP115-P / CTCP125-P / CTCP135-P	CTCP135-P	 20° 0.014	CN.. DN.. SN..	
		CTCP115-P / CTCP125-P	CTCP125-P / CTCP135-P	CTCP135-P			
		CTCP115-P	CTCP125-P	CTCP135-P			

Main application steel and cast iron, secondary application stainless steels


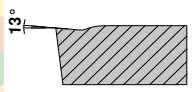
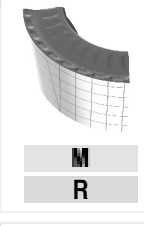
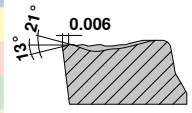

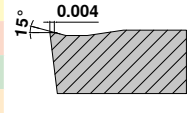

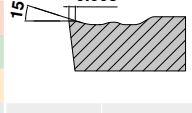
Standard chip breakers / application notes

Negative		Model	Smooth cut 	Irregular cutting depth 	Interrupted cut 	Sectional illustration		Geometry	
						a _p inch	f inch		
Main application steel and cast iron, secondary application stainless steels	-R58 ▲ Single sided roughing geometry ▲ Longitudinal and face turning ▲ Light interrupted cut ▲ Low cutting forces ▲ Unstable machines	 R	CTCP115-P / CTCP125-P	CTCP115-P / CTCP125-P / CTCP135-P	CTCP135-P		0.059-0.472	0.012-0.047	CN.. DN.. SN.. TN..
			CTCP115-P / CTCP125-P	CTCP125-P / CTCP135-P	CTCP135-P				
			CTCP115-P	CTCP115-P / CTCP125-P	CTCP125-P				
Main application steel and cast iron, secondary application stainless steels	-R88 ▲ Single sided roughing geometry ▲ Longitudinal and face turning ▲ High feedrate ▲ Large depths of cut ▲ Heavily interrupted cut	 R	CTCP115-P / CTCP125-P	CTCP115-P / CTCP125-P / CTCP135-P	CTCP135-P		0.138-0.630	0.020-0.059	SN..
			CTCP115-P / CTCP125-P	CTCP115-P / CTCP125-P	CTCP135-P				
			CTCP115-P	CTCP115-P / CTCP125-P	CTCP125-P				
Main application stainless steels, secondary application steel and super alloys	-F30 ▲ Finishing of stainless steels ▲ Continuous cut ▲ High surface quality ▲ Good swarf control	 F	CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130		0.003-0.098	0.004-0.014	CN.. DN.. SN.. TN.. VN.. WN..
			CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130				
Main application stainless steels, secondary application steel and super alloys	-M30 ▲ Option for stainless steel machining ▲ Good swarf control ▲ Little edg build up ▲ Low cutting forces ▲ Little built-up edge ▲ Applicable on unstable machines	 F M	CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130		0.039-0.177	0.006-0.016	CN.. DN.. SN.. TN.. VN.. WN..
			CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130				
Main application stainless steels, secondary application steel and super alloys	-42 ▲ Extremely soft-cutting chip breaker ▲ For small and medium widths of cut ▲ Suitable for thin-walled parts	 M			CTCM130		0.020-0.177	0.002-0.014	CN..
					CTCM130				
					CTCM130				
Main application stainless steels, secondary application steel and super alloys	-M42 ▲ For medium machining on stainless steels ▲ As a secondary application for general steels and super alloys	 M			CTCM130		0.039-0.138	0.006-0.016	DN.. SN.. TN.. WN..
					CTCM130				
					CTCM130				

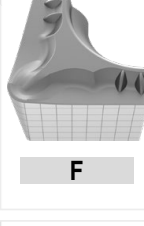
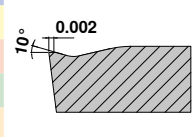
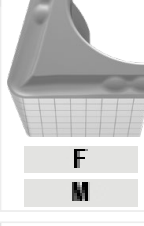
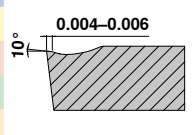

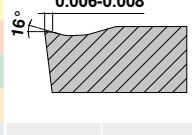
Standard chip breakers / application notes

Negative		Model	Smooth cut	Irregular cutting depth	Interrupted cut	Sectional illustration		Geometry	
						a_p inch	f inch		
Main application super alloys, secondary application stainless steels	-M60 ▲ Light to medium roughing ▲ Stable cutting edge ▲ Interrupted cut ▲ Forged skin and cast crust	 M R	CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130		0.059-0.236	0.010-0.020	CN.. DN.. SN.. TN.. WN..
			CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130				
	-F34 ▲ Stable, positive cutting edge ▲ Also for slightly interrupted cuts	 F	CTPX710	CTPX710			0.020-0.098	0.003-0.010	CN.. WN..
			CTPX710	CTPX710					
			CTPX710	CTPX710					
			CTPX710	CTPX710					
	-M34 ▲ First choice for superalloys ▲ Light cutting geometry ▲ Little built-up edge ▲ Low cutting forces	 M	CTPX710	CTPX710			0.031-0.118	0.004-0.012	CN.. DN.. SN.. VN.. WN..
			CTPX710	CTPX710					
			CTPX710	CTPX710					
			CTPX710	CTPX710					
	-M42 ▲ For medium machining on stainless steels ▲ As a secondary application for general steels and super alloys	 M			CTCM130		0.039-0.138	0.006-0.016	CN.. DN..
					CTCM130				
					CTCM130				
			CTPX710	CTPX710					
Main application steel and cast iron, secondary application stainless steels and super alloys	-CF05 ▲ Fine finishing ▲ For all common steel materials, stainless steels and GGG ▲ Good swarf control ▲ High surface quality	 F	CTEP110 / TCM407	TCM10 / TCM407			0.008-0.051	0.002-0.010	CC.. DC.. SC.. TC.. VC..
			CTEP110						
			CTEP110	TCM10 / TCM407					
	-SF ▲ Finishing / contour turning ▲ Good swarf control ▲ High surface quality ▲ Low cutting forces	 F	CTCP115-P	CTCP125-P	CTCP125-P / CTCP135-P		0.002-0.098	0.002-0.010	CC.. DC.. SC.. TC.. VC.. WC..
				CTCP125-P	CTCP125-P				
	-CF55 ▲ Finishing to medium machining ▲ Suitable for general and stainless steels ▲ Low cutting forces ▲ Good swarf control ▲ High surface quality	 F M	CTEP110	TCM10 / CTEP110			0.008-0.051	0.002-0.010	CC.. DC.. SC.. TC.. VC..
			CTEP110	CTEP110					
			CTEP110	CTEP110					





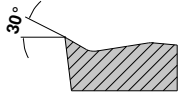
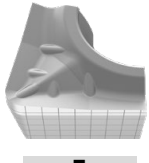
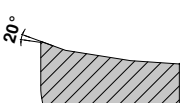

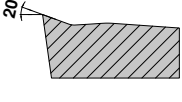

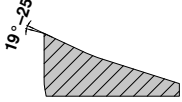

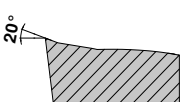
Standard chip breakers / application notes

Positive	Model	Smooth cut	Irregular cutting depth	Interrupted cut	Sectional illustration		Geometry
					a ₀ inch	f inch	
-SMF ▲ Finishing to medium machining ▲ Low cutting forces ▲ Good swarf control ▲ High surface quality	 F M	CTEP110 / CTCP115-P	TCM10 / CTCP125-P / CTCP115-P	CTCP135-P	 13°	0.008-0.051 0.002-0.010	CC.. DC.. SC.. TC.. VC..
		CTEP110	CTCP135-P	CTCP135-P			
		CTEP110	CTCP135-P	CTCP135-P			
		CTEP110	CTCP135-P	CTCP135-P			
-M23 ▲ Soft cutting geometry with outstanding chip breaking behaviour at low cutting depths in finish machining	 M R	CTCP115-P / CTCP125-P	CTCP125-P	CTCP125-P	 13° 21° 0.006	0.012-0.157 0.039-0.018	RC..
		CTCP115-P / CTCP125-P	CTCP125-P	CTCP125-P			
		CTCP115-P / CTCP125-P	CTCP125-P	CTCP125-P			
		CTCP115-P / CTCP125-P	CTCP125-P	CTCP125-P			
-SM ▲ Medium machining ▲ Universal application ▲ Stable cutting edge ▲ Varying depths of cut ▲ Wide range of applications	 M	CTCP115-P / CTCP125-P	CTCP125-P / CTCP135-P / CTCP115-P	CTCP125-P / CTCP135-P	 15° 0.004	0.002-0.197 0.006-0.018	CC.. DC.. RC.. SC.. TC.. VC..
		CTCP115-P / CTCK110 / CTCK120	CTCP135-P	CTCP135-P			
		CTCP115-P / CTCK110 / CTCK120	CTCP125-P / CTCK110 / CTCK120	CTCK120			
		CTCP115-P / CTCK110 / CTCK120	CTCP125-P / CTCK110 / CTCK120	CTCK120			
-SMQ ▲ Positive wiper geometry ▲ Finishing to medium machining ▲ Very high feeds ▲ High surface quality	 M	CTCP115-P	CTCP125-P	CTCP125-P	 15° 0.008	0.039-0.157 0.006-0.018	CC.. DC..
		CTCP115-P	CTCP125-P	CTCP125-P			
		CTCP125-P / CTCP115-P	CTCP125-P	CTCP125-P			
		CTCP125-P / CTCP115-P	CTCP125-P	CTCP125-P			

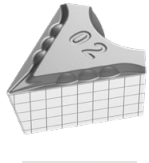
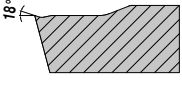
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Positive	Model	Smooth cut	Irregular cutting depth	Interrupted cut	Sectional illustration	Geometry	
-F43 ▲ For the light to medium machining of all stainless steels, general steels and superalloys	 F			CTCM130	 10° 0.002	0.020-0.098 0.002-0.010	CC.. DC.. TC..
				CTCM130			
				CTCM130			
				CTCM130			
-M25 ▲ First choice for medium machining of stainless steels ▲ High surface quality ▲ Little built-up edge	 F M	CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130	 10° 0.004-0.006	0.016-0.126 0.004-0.012	CC.. DC.. TC.. VC..
		CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130			
		CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130			
		CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130			
-M55 ▲ First choice for medium machining to roughing of stainless steels ▲ Smooth to lightly interrupted cut ▲ Good swarf control ▲ Stable cutting edge	 M	CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130	 16° 0.006-0.008	0.016-0.189 0.002-0.014	CC.. DC.. SC.. TC.. VC..
		CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130			
		CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130			
		CTCM120 / CTPM125	CTCM120 / CTPM125 / CTCM130	CTCM130			

Standard chip breakers / application notes

	Positive	Model	Smooth cut	Irregular cutting depth	Interrupted cut	Sectional illustration		Geometry	
						a_p inch	f inch		
Main application non-ferrous metals, secondary application stainless steels, steels, super alloys, cast iron	-23P	 F						CC.. DC..	
	▲ Low adhesion								
	▲ Good chip control with soft aluminium alloys		H216T	H216T	H216T				
			H216T	H216T	H216T				
			H216T	H216T	H216T				
			H216T	H216T	H216T	0.008-0.157	0.002-0.012		
	Main application non-ferrous metals, secondary application stainless steels, steels, super alloys, cast iron	-25P	 F M						CC.. DC.. SC.. VC..
		▲ Sharp cutting edge							
		▲ Good swarf control on soft aluminium alloys		CTPX710	CTPX710	CTPX710			
		▲ Low adhesion		CTPX710	CTPX710	CTPX710			
		CTPX710 / H216T		CTPX710 / H216T	CTPX710 / H216T				
		CTPX710	CTPX710	CTPX710	0.020-0.177	0.002-0.024			
Main application non-ferrous metals, secondary application stainless steels, steels, super alloys, cast iron	-25Q	 M						CC.. DC.. VC..	
	▲ Wiper geometry								
	▲ High feeds								
	▲ High surface quality								
	▲ Good chip control with softer aluminium alloys		H210T	H210T	H210T				
	▲ Low adhesion	H210T / CTPX710	H210T / CTPX710	H210T / CTPX710	0.002-0.256	0.002-0.024			
Main application non-ferrous metals, secondary application stainless steels, steels, super alloys, cast iron	-27	 M R						CC.. DC.. RC.. SC.. TC.. VC..	
	▲ The universal Alu geometry								
	▲ Sharp cutting edge								
	▲ Extremely positive rake angle								
	▲ Low adhesion		CTPX715	CTPX715	CTPX715				
	▲ High feed rates	CTPX715 / H216T	CTPX715 / H216T	CTPX715 / H216T	0.039-0.394	0.004-0.030			
Main application non-ferrous metals, secondary application stainless steels, steels, super alloys, cast iron	-29	 M R						CC.. DC.. VC..	
	▲ Direct sintered aluminium geometry								
	▲ Positive rake angle								
	▲ Good chip control		CTPX710	CTPX710	CTPX710				
	▲ For medium to rough machining		CTPX710	CTPX710	CTPX710				
		H216T	H216T	H216T	0.039-0.236	0.010-0.024			

Positive

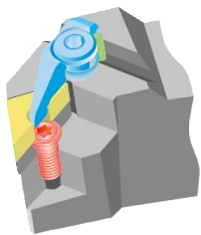
Main application super alloys and stainless steels, secondary application steels and non-ferrous metals	-F05	 F						DC.. VC..
	▲ Maximum tolerance class							
	▲ Outstanding chip control, even with the smallest cutting depths		CTPX710	CTPX710	CTPX710			
	▲ Very low cutting forces		CTPX710	CTPX710	CTPX710			
			CTPX710	CTPX710	CTPX710			
		CTPX710	CTPX710	CTPX710	0.004-0.098	0.001-0.010		

Supplementary chip breakers / application notes

	Model	Smooth cut	Irregular cutting depth	Interrupted cut
-EN ▲ Universal chip breaker for general steels		CTCP115-P	CTCP125-P	CTCP135-P
		CTCP125-P	CTCP135-P	CTCP135-P
		CTCK110	CTCK120	CTCP125-P
-ER -EL ▲ A problem solver for unstable conditions ▲ Can be used on less powerful machines ▲ Can be used for general steels and on stainless materials as a secondary application			CTCP125-P	CTCP135-P

Clamping systems

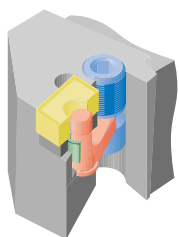
MaxiLock D



- Clamping element
- Inserts
- Insert seat
- Pin
- Screw

The first-choice tool for machining with negative centre-hole inserts. Secure and precise positioning of the indexable insert thanks to the double clamping effect of the clamping element.

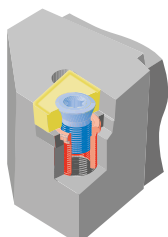
MaxiLock N



- Clamping element
- Inserts
- Insert seat
- Shim
- Lever

This clamping system is suitable for all centre-hole inserts with a negative basic shape. The clamping screw is easy to access from the top and bottom of the holder. When the clamping system is released, there are no loose spare parts.

MaxiLock S

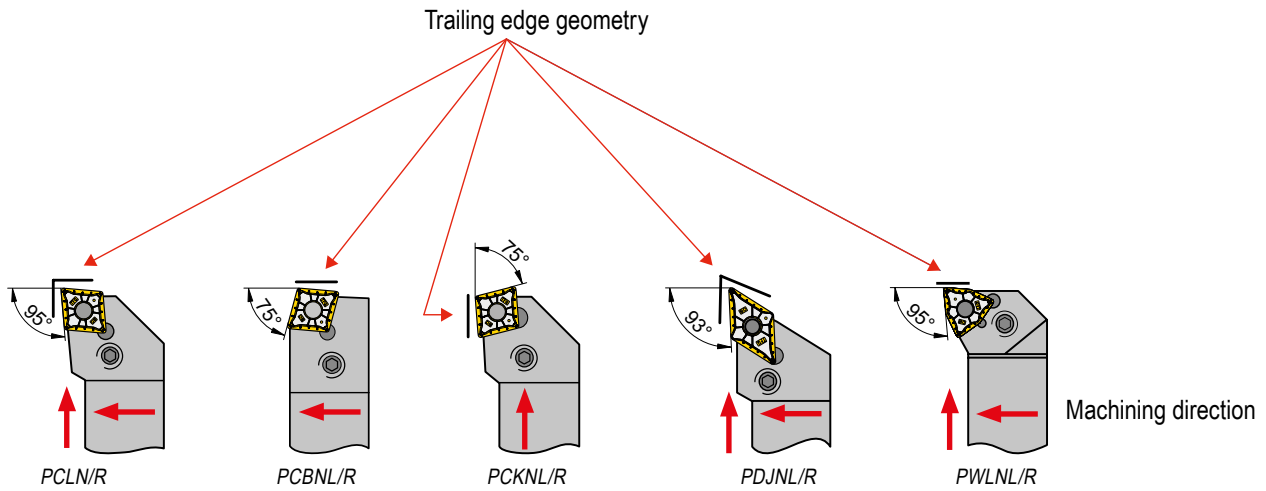


- Clamping element
- Inserts
- Insert seat
- Threaded sleeve

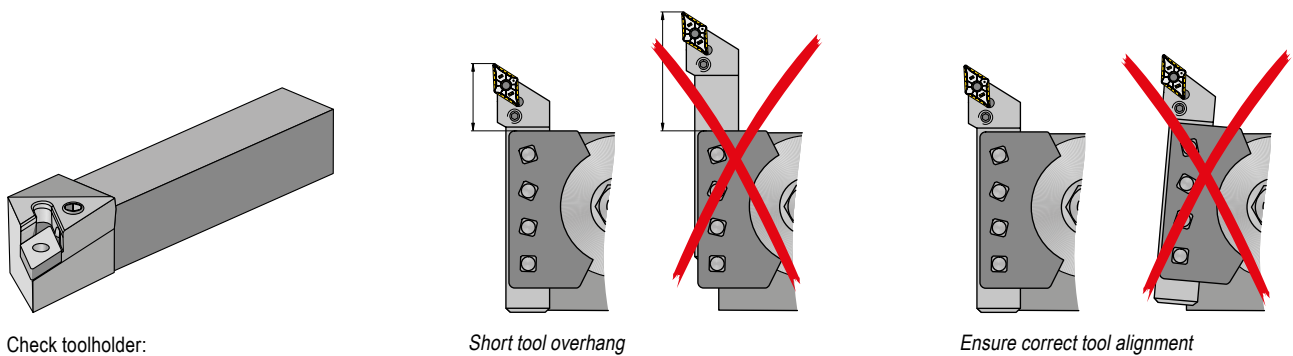
The positive screw clamping guarantees a secure connection between the indexable insert and the tool holder. The chip flow is not disrupted by protruding clamping elements. Thanks to the neutral insert position, the effective available rake angle is identical to the rake angle of the indexable insert.

Trailing edge geometry – information

Through the use of indexable inserts with wiper edge (-TFQ; -TMQ; -SMQ; -25Q) high quality surfaces can be produced economically.



All turning inserts with trailing edge are clamped in standard ISO tool holders



Feed rate guide values for surface finish quality

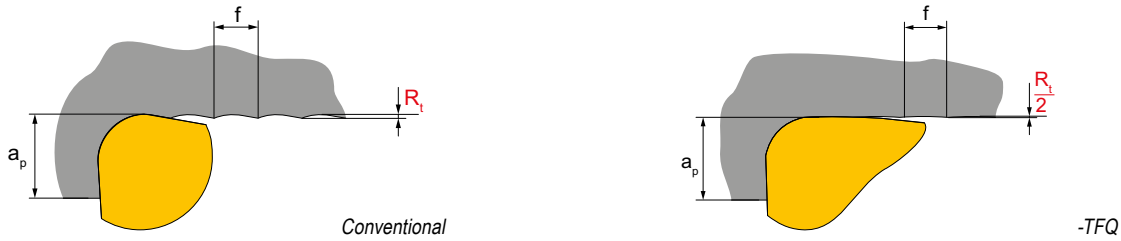
Roughness range R_z in μm	R_{th}	Corresponds to R_a	Roughness index	ISO 1302	Corner radius r_e in inch and feed rate f in inch/rev.						
					RE = 0.004"	RE = 0.008"	RE = 0.016"	RE = 0.032"	RE = 0.048"	RE = 0.064"	RE = 0.094"
63–100	$\sqrt{R_{th}63}$	12.5–25	N11	$\frac{25}{\nabla}$	0.008*	0.012*	0.018*	0.025	0.031	0.035	0.043
40–63	$\sqrt{R_{th}40}$	6.3–12.5	N10	$\frac{12,5}{\nabla}$	0.007*	0.010*	0.014	0.02	0.024	0.028	0.035
31.5–40	$\sqrt{R_{th}31,5}$	4.9–6.3	N9	$\frac{6,3}{\nabla}$	0.006*	0.008*	0.013	0.018	0.022	0.025	0.031
25–31.5	$\sqrt{R_{th}25}$	4.0–4.9			0.005	0.008*	0.011	0.016	0.019	0.022	0.027
16–25	$\sqrt{R_{th}16}$	2.5–4.0	N8	$\frac{3,2}{\nabla}$	0.004*	0.006	0.009	0.013	0.015	0.018	0.022
10–16	$\sqrt{R_{th}10}$	1.6–2.5			0.004	0.005	0.007	0.01	0.012	0.014	0.017
6.3–10	$\sqrt{R_{th}6,3}$	1.0–1.6	N7	$\frac{1,6}{\nabla}$	0.003	0.004	0.006	0.008	0.01	0.011	0.014
4–6.3	$\sqrt{R_{th}4}$	0.8–1.0	N6	$\frac{0,8}{\nabla}$	0.002	0.003	0.004	0.006	0.008	0.009	0.011
2.5–4	$\sqrt{R_{th}2,5}$	0.4–0.8	N5	$\frac{0,4}{\nabla}$	0.002	0.002	0.004	0.005	0.006	0.007	0.009
1.6–2.5	$\sqrt{R_{th}1,6}$	0.2–0.4	N4	$\frac{0,2}{\nabla}$	0.002	0.002	0.003	0.004	0.005	0.006	0.007
1–1.6	$\sqrt{R_{th}1}$	0.1–0.2	N3	$\frac{0,1}{\nabla}$	0.001	0.002	0.002	0.003	0.004	0.004	0.006

Trailing edge geometry – operating principle

Relationship of feed rate to surface roughness

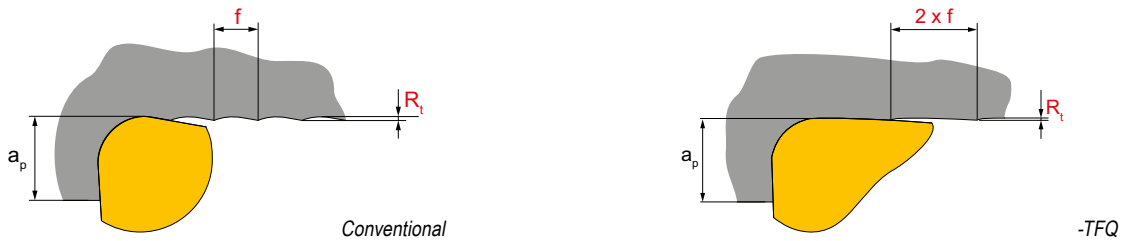
Improved Surface Quality

With the same feed rate an insert with wiper cutting edge reaches a roughness value R_t which is many times better than a conventional insert.



Shorter machining time

To achieve the same R_t -value as with a standard insert, double the feed rate can be applied for the insert with wiper cutting edge (= shorter production time per component!)



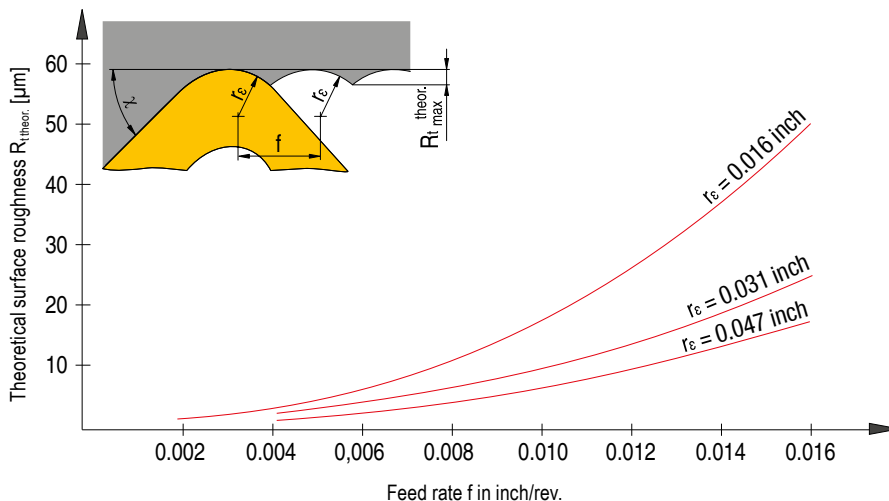
Theoretical Surface Quality

The maximum theoretical surface roughness with turning $R_{t,theor.}$ is the combination of feed rate and corner radius:

or approximately:

$$R_{t,theor.} = \left(r_\epsilon - \sqrt{r_\epsilon^2 - \frac{f^2}{4}} \right) \cdot 1000$$

$$R_{t,theor.} = \frac{125 \cdot f^2}{r_\epsilon} \text{ [}\mu\text{m]}$$

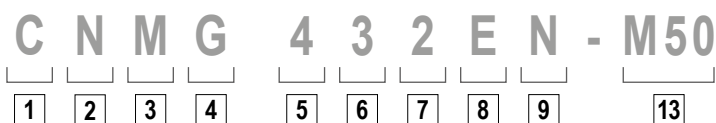


ISO designation system for inserts

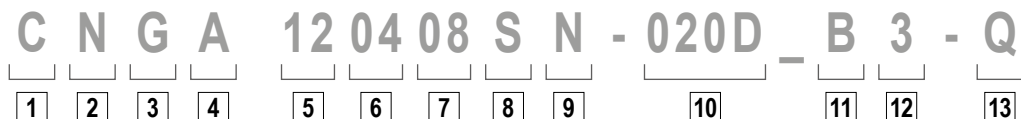
Indexable inserts – metric



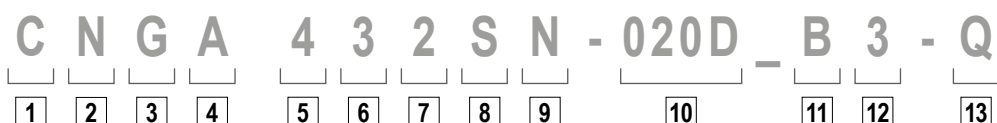
Indexable inserts – inch



Indexable inserts, CBN, ceramic – metric



Indexable inserts, CBN, ceramic – inch



1

Insert shape

V	35°	Included angle
D	55°	
E	75°	
C	80°	
M	86°	Included angle
K	55°	
B	82°	
A	85°	Other shapes
L	90°	
P	108°	
H	120°	
O	135°	
R	-	
S	90°	
T	60°	
W	80°	

2

Clearance angle

α		α	
A	3°	F	25°
B	5°	G	30°
C	7°	N	0°
D	15°	P	11°
E	20°		

O Clearance angles not included within the standard for which particular information is necessary.

3

Tolerances

	IC±		BS		S	
	mm	inch	mm	inch	mm	inch
A	0,025	.0010	0,005	.0002	0,025	.001
F	0,013	.0005	0,005	.0002	0,025	.001
C	0,025	.0010	0,013	.0005	0,025	.001
H	0,013	.0005	0,013	.0005	0,025	.001
E	0,025	.0010	0,025	.0010	0,025	.001
G	0,025	.0010	0,025	.0010	0,13	.005
J	0,05-0,15*	.002-.006*	0,005	.0002	0,025	.001
K	0,05-0,15*	.002-.006*	0,013	.0005	0,025	.001
L	0,05-0,15*	.002-.006*	0,025	.0010	0,025	.001
M	0,05-0,15*	.002-.006*	0,05-0,20*	.003-.008*	0,13	.005
N	0,05-0,15*	.002-.006*	0,05-0,20*	.003-.008*	0,025	.001
U	0,08-0,25*	.003-.010*	0,13-0,38*	.005-.015*	0,13	.005

* Depends on insert size

6

Insert thickness

mm		inch		Code	
1,59	1/16	01	1		
2,38	3/32	02	1.5		
3,18	1/8	03	2		
3,97	5/32	T3	2.5		
4,76	3/16	04	3		
5,56	7/32	05	3.5		
6,35	1/4	06	4		
7,94	5/16	07	5		
9,52	3/8	09	6		

7

Corner radius

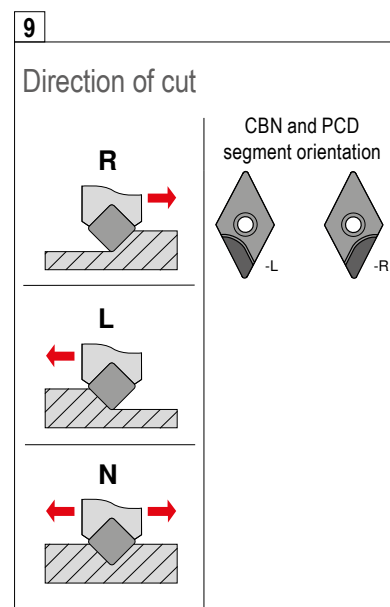
mm		inch		Code	
≤ 0,05	.0015	00	X0		
0,1	.004	01	0		
0,2	.008	02	.5		
0,4	1/64	04	1		
0,8	1/32	08	2		
1,2	3/64	12	3		
1,6	1/16	16	4		
2,0	5/64	20	5		
2,4	3/32	24	6		
2,8	7/64	28	7		
3,2	1/8	32	8		

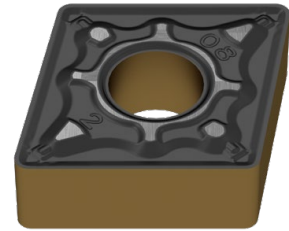
RN 00
RC MO

8

Cutting edge

F	Sharp
E	rounded
T	chamfered
S	Chamfered and honed
K	Double-chamfered
P	Double-chamfered and honed
R	Round chamfer





4

Characteristics

N		
R		
F		
A		
M, P		
G, P		
W		
T		
Q		
U		
B		
H		
C		
J		
X	Special version	

inch
Change at inscribed circle
IK < 1/4"

IK > 1/4"	IK < 1/4"
N / R / F	E
A / M / G	D
X	X

5

Cutting length

Type	ISO	ANSI	L		IC	
			mm	inch	mm	inch
C	06	2	6,4	.250	6,35	.250
	09	3	9,7	.382	9,525	.375
	12	4	12,9	.508	12,70	.500
	16	5	16,1	.634	15,875	.625
	19	6	19,3	.760	19,05	.750
	25	8	25,8	1.016	25,4	1.000
S	06	2	6,35	.250	6,35	.250
	09	3	9,525	.375	9,525	.375
	12	4	12,7	.500	12,7	.500
	15	5	15,875	.625	15,875	.625
	19	6	19,05	.750	19,05	.750
	25	8	25,4	1.000	25,4	1.000
D	07	2	7,7	.303	6,35	.250
	11	3	11,6	.457	9,525	.375
	15	4	15,5	.610	12,70	.500
V	11	2	11,1	.437	6,35	.250
	16	3	16,6	.653	9,525	.375
	22	4	22,10	.870	12,70	.500

Type	ISO	ANSI	L		IC	
			mm	inch	mm	inch
T	06	1.2	6,9	.272	3,97	.156
	09	1.8	9,6	.378	5,56	.219
	11	2	11,0	.433	6,35	.250
	16	3	16,5	.650	9,525	.375
	22	4	22,	.079	12,70	.039
	27	5	27,5	1.083	15,875	.625
W	06	3	6,5	.256	9,525	.375
	08	4	8,7	.331	12,70	.039
	10	5	10,9	.429	15,875	.625
R	06	2	6,35	.250	6,35	.250
	08	-	8,0	.315	8,0	.315
	09	3	9,52	.375	9,52	.375
	10	-	10,0	.394	10,0	.394
	12*	-	12,0	.472	12,0	.472
	12	4	12,7	.488	12,70	.488
	15	5	15,875	.625	15,875	.625
	16	-	16,0	.630	16,0	.630
	19	6	19,05	.750	19,05	.750
	25	8	25,0	.984	25,0	.984
	25*	-	25,4	1.000	25,4	1.000
	31	10	31,75	1.250	31,75	1.250
32	-	32,0	1.260	32,0	1.260	

* inch version

9

10

Chamfer type

T / S

K / P ¹⁾

	mm	inch		
015	0,15	.006	A	05°
020	0,20	.008	B	10°
025	0,25	.010	C	15°
050	0,50	.020	D	20°
075	0,75	.030	E	25°
100	1,00	.040	F	30°
			G	35°

1) Two letters are assigned for double-chamfered cutting edges
e.g. BE =
chamfer angle 1 (y₁) = 10°
chamfer angle 2 (y₂) = 25°

11

Number of cutting edges

Single sided		Complete insert thickness	
A		T	
B		U	
C		V	
D		W	
G		X	
H		Y	
Double sided		Entire clamping flat	
K		S	
L		F	
M		E	
N			
P			
Q			

12

Segment length

LE

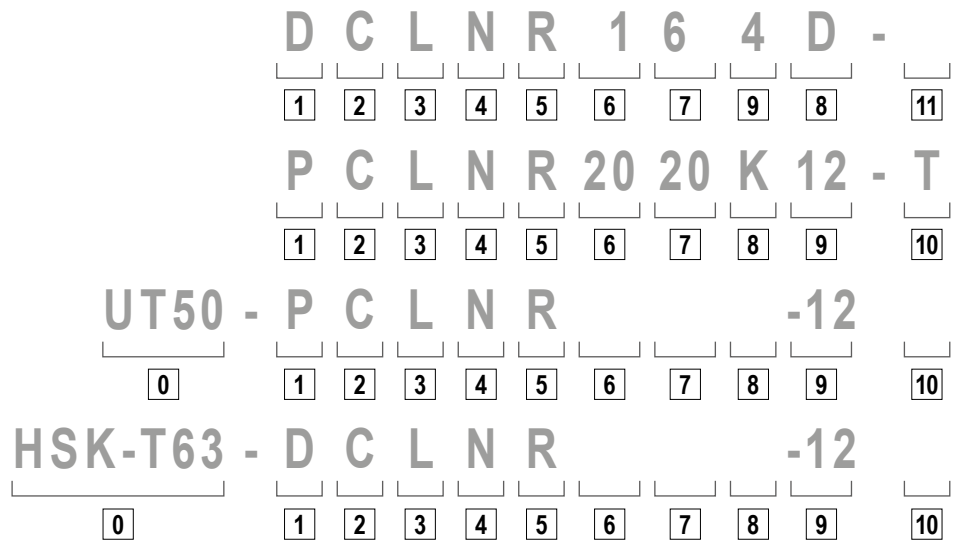
Approx. specification in mm

13

Grade description

You can find a comprehensive chip breaker overview on → [page 215–221](#)

ISO designation system for tool holders



0

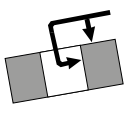
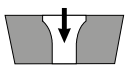
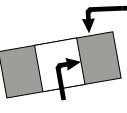
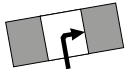
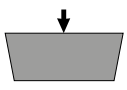
System/size

UT = UTS
according to ISO 26622
UT40 = UTS 40 mm
UT50 = UTS 50 mm
UT63 = UTS 63 mm

HSK-T
according to ISO 12164
HSK-T63 = 63 mm
HSK-T100 = 100 mm

1

Tool holder

<p>D</p>  <p>Retained from above and via bore</p>	<p>S</p>  <p>Retained via centre screw</p>
<p>M</p>  <p>Retained from above and via bore</p>	<p>P</p>  <p>Retained via the bore</p>
<p>C</p>  <p>Retained from above</p>	<p>X</p> <p>Special version</p>

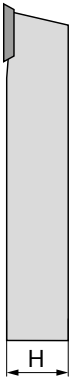
2

Insert shape

V	35°	Included angle
D	55°	
E	75°	Included angle
C	80°	
M	86°	Included angle
K	55°	
B	82°	Included angle
A	85°	
L	90°	Other shapes
P	108°	
H	120°	
O	135°	
R	-	
S	90°	
T	60°	
W	80°	

6


Shank height



H

7

Shank width

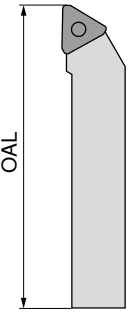


B

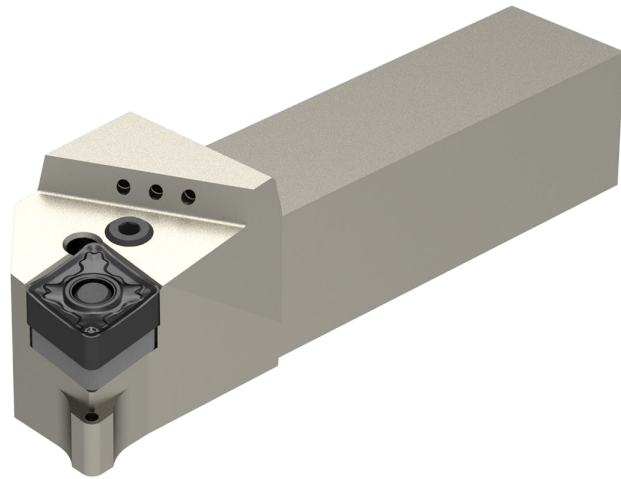
8

Tool length

OAL			OAL		
mm	inch		mm	inch	
32	4.000	A	160	4.500	N
40	4.500	B	170	5.500	P
50	5.000	C	180	-	Q
60	6.000	D	200	6.000	R
70	7.000	E	250	7.000	S
80	8.000	F	300	8.000	T
90	5.500	G	350	5.500	U
100	5.625	H	400	3.500	V
110	5.300	J	450	3.500	W
125	14.000	K	500	3.750	Y
140	6.800	L	Special version		X
150	4.400	M			



OAL



3

Style

A 90° B 75° C 90° D 45° E 60°
 F 90° G 90° H 107,5° J 93° K 75°
 L 95° M 50° N 63° P 117,5° R 75°
 S 45° T 60° U 93° V 72,5° W 60°
 Y 85°

4

Clearance angle

α		α	
A	3°	F	25°
B	5°	G	30°
C	7°	N	0°
D	15°	P	11°
E	20°		

O Clearance angles not included within the standard for which particular information is necessary.

5

Direction of cut

R
L
N

9

Cutting length

Inch inscribed circle dimensions

1.2	=	5/32
1.5	=	3/16
1.8	=	7/32
2	=	1/4
2.5	=	5/8
3	=	3/8
4	=	1/2
5	=	5/8
6	=	3/4
8	=	1
10	=	1 1/4

10

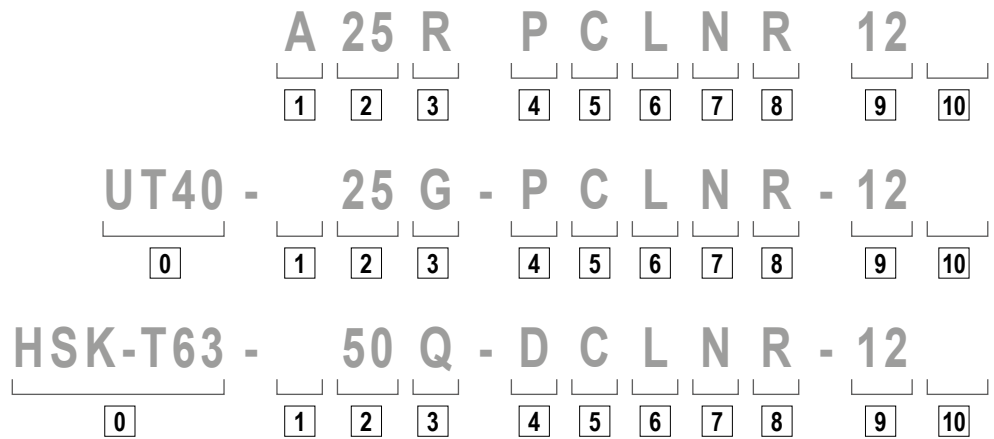
Manufacturer specification

T = Toggle
 Special length (mm)
 Insert thickness (deviating from standard)
 Special version (X..)
 Machine manufacturer (specific)
 DC = DirectCooling

11

When required a supplementary symbol of maximum 3 letters may be added to the ISO code, separated by a dash, for example: W for wedge design.

ISO designation system for boring bars



0

System/size

UT = UTS
according to ISO 26622
UT40 = UTS 40 mm
UT50 = UTS 50 mm
UT63 = UTS 63 mm

HSK-T
according to ISO 12164
HSK-T63 = 63 mm
HSK-T100 = 100 mm

1

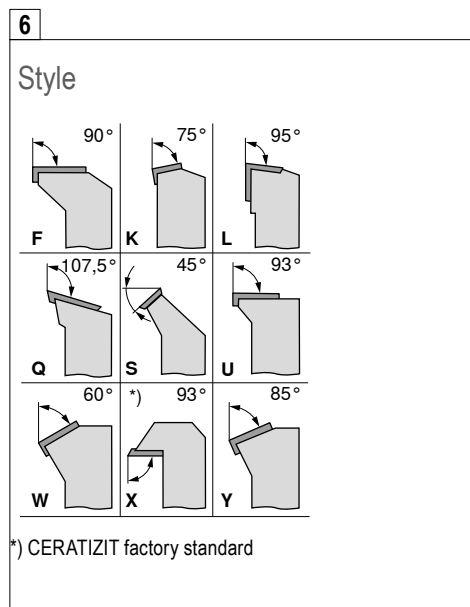
Shank type

S Steel shank	E As C with coolant hole
A Steel shank with coolant hole	F As C with antivibration system
B Steel shank with antivibration system	G As C with coolant hole and antivibration system
D Steel shank with coolant hole and antivibration system	H Heavy metal
C Carbide shank with steel head	J Heavy metal with coolant hole

5

Insert shape

V 35°	Included angle
D 55°	
E 75°	
C 80°	
M 86°	
K 55°	Included angle
B 82°	
A 85°	
L 90°	Other shapes
P 108°	
H 120°	
O 135°	
R -	
S 90°	
T 60°	
W 80°	

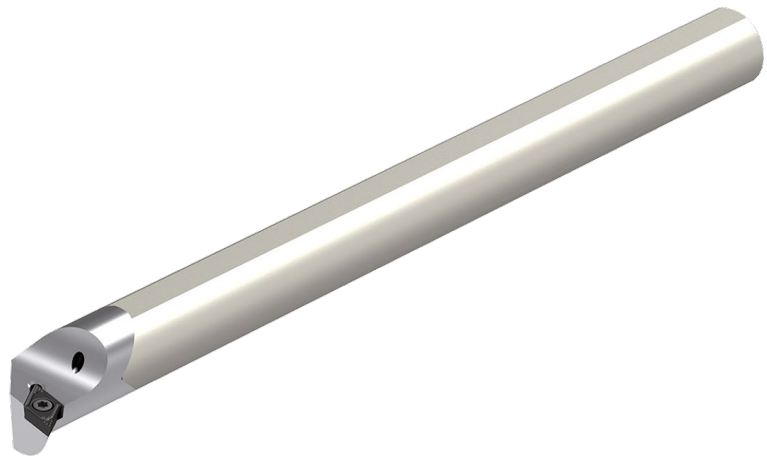


7

Clearance angle

A 3°	F 25°
B 5°	G 30°
C 7°	N 0°
D 15°	P 11°
E 20°	

O Clearance angles not included within the standard for which particular information is necessary.



2

Shank type & size

DCONMS mm	DCONMS inch
08	
10	
12	
16	
20	
25	
32	
40	
50	
60	

A two-digit figure indicating the boring bar diameter in 1/16 of an inch.

3

Tool length

OAL		
mm	inch	
80	3	F
100	3,5	H
110	4	J
125	4,5	K
140	5	L
150	5,5	M
160	6	N
170	6,5	P
180	6,75	Q
200	7	R
250	8	S
300	10	T
350	12	U
400	14	V
450	16	W
500	18	Y
	20	
Special version		X

4

Clamping method

<p>D</p> <p>Retained from above and via bore</p>	<p>S</p> <p>Retained via centre screw</p>
<p>M</p> <p>Retained from above and via bore</p>	<p>P</p> <p>Retained via the bore</p>
<p>C</p> <p>Retained from above</p>	<p>X</p> <p>Special version</p>

8

Direction of cut

R

L

9

Cutting length

10

Manufacturer specification

T = Toggle
 Special length (mm)
 Insert thickness (deviating from standard)
 Special version (X...)
 Machine manufacturer (specific)

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.

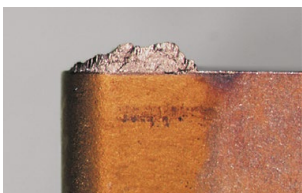
Cause

- ▲ 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

Recommendation for Optimum Results

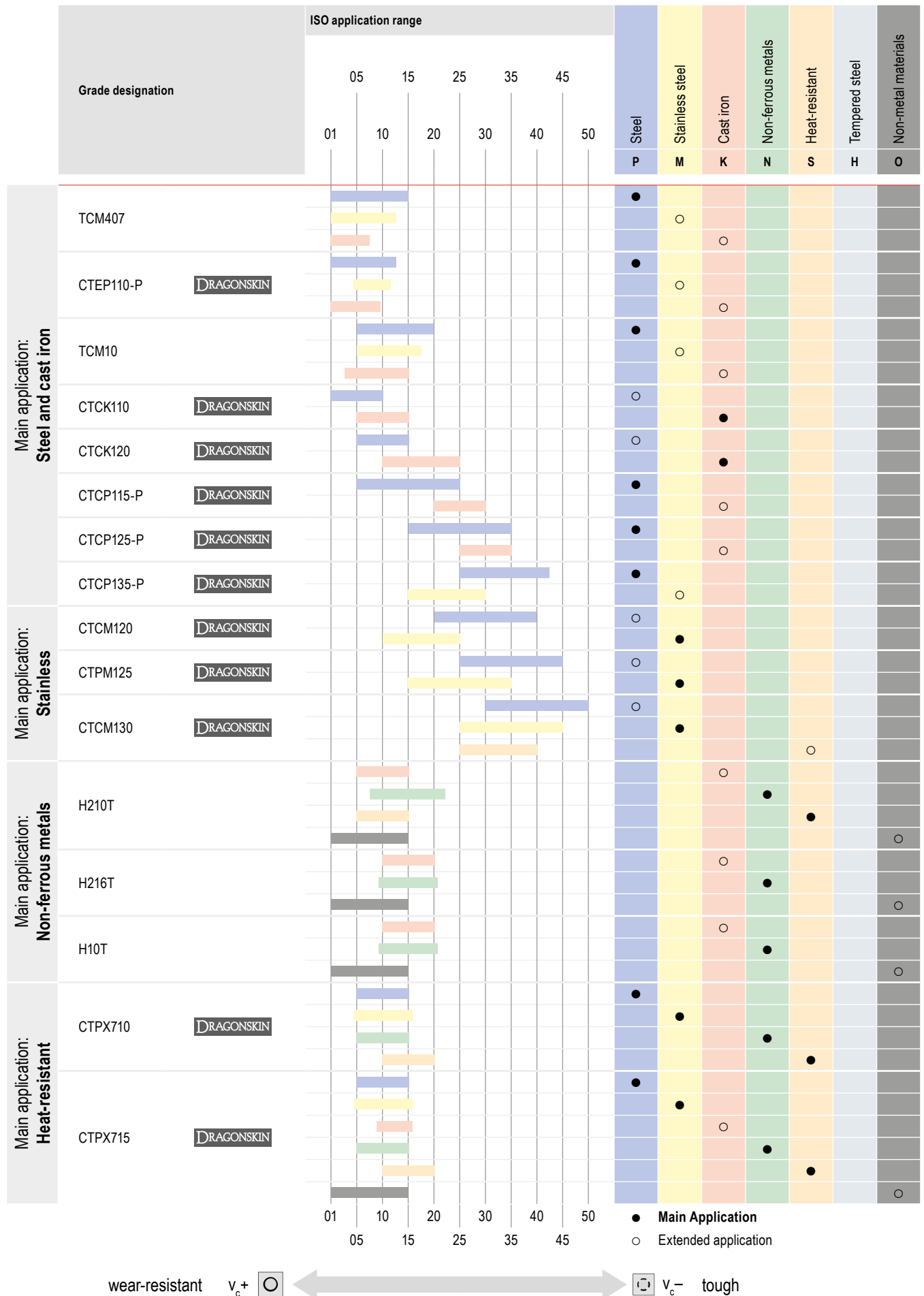
Type of problem																
Type of wear						Work piece problems				Chip control						
Wear on clearance face	Cratering	Edge chipping	Plastic deformation	Insert breakage	Built-up edge	Vibration	Formation of pips and burrs	Chattered surface	Surface quality	Chip too long (snarl chip)	Chip too short (fragmented chip)					
↓	↓		↓		↓	↓			↑	↓		Cutting speed		Cutting data	Remedy measures	
~		↓	↓	↓		↑		↓	↓	↑	↓	Feed rate				
↓	↓	↓	↓				↓	↓	↓			Feed rate at centre				
		↑	~		↓	~	↓	↓	↓	↓	↑	↑	↑	↓		Insert selection
↑		↑	↑	↑		↓	↓	↓	↑			↑	↑	↓		Corner radius larger smaller
↑	↑	↓	↑	↓								↑	↑	↓		Tool Material Wear resistance toughness
		~		~		~		~	~			Tool clamping		General criteria		
		~		~		~		~	~			Work piece clamping				
		~		~		~			↓			Overhang				
~		~				~	~		~			Tip height				
●	~		●		●		●		●	●		Cooling lubricant				

raise, increase large influence
 raise, increase small influence

avoid, reduce large influence
 avoid, reduce small influence

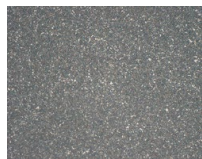
check, optimize
 use

Grades Overview

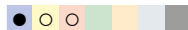


Grade description

TCM407



ISO | P10 | M05 | K05



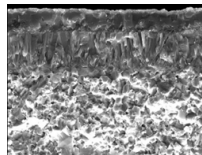
Specification:

Composition: Co 8.0%; WC 16.0%; TaNbC 10.0%; TiCN balance | Grain size: 2-3 µm | Hardness: HV30 1760

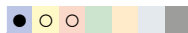
Usage recommendation:

The uncoated cermet grade for fine finishing steel materials.

CTEP110-P



ISO | P10 | M10 | K05



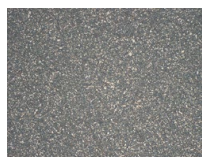
Specifications:

Composition: Co/Ni 12.2%; additives 26.4%; Ti(C,N) balance | Grain size: 0.8-1.0 µm | Hardness: HV₃₀ 1650 | Layer system: CVD TiCN-Al₂O₃ + TiN cover layer

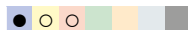
Recommended use:

Coated cermet grade with reserves of toughness for finish machining at high cutting speeds.

TCM10



P15 | K10



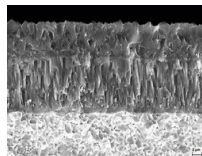
Specification:

Composition: Cermet Co/Ni 12.2%; WC 15.0%; TaNbC 10.0%; TiCN balance | Grain size: 2-3 µm | Hardness: HV₃₀ 1650

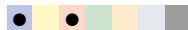
Usage recommendation:

The uncoated cermet grade for finishing steel, stainless steel and tempered steel.

CTCK110



ISO | P10 | K10



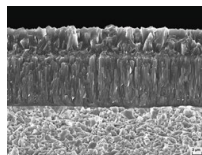
Specification:

Composition: Co 5.0%, mixed carbides 2.0%, WC balance | Grain size: 1-2 µm | Hardness: HV30 1730 | Layer system: CVD TiCN-Al₂O₃

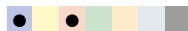
Usage recommendation:

The wear-resistant grade for machining cast iron materials and steels at high cutting speeds with a continuous cut.

CTCK120



ISO | P20 | K20



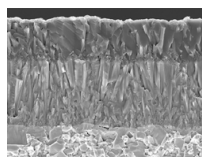
Specification:

Composition: Co 6.0%; TaC 2.0%; WC balance | Grain size: 1 µm | Hardness: HV₃₀ 1630 | Coating specification: CVD TiCN-Al₂O₃

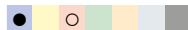
Recommended application:

The grade for cast iron machining with high toughness reserves for difficult conditions and interrupted cut

CTCP115-P



ISO | P15 | K25



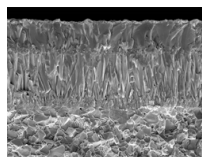
Specification:

Composition: Co 5.5%; mixed carbides 6.4%; WC balance | Grain size: 1 µm | Hardness: HV₃₀ 1530 | Layer system: CVD TiCN-Al₂O₃

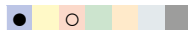
Usage recommendation:

The wear-resistant high-performance grade for steel machining with stable conditions and a continuous cut.

CTCP125-P



ISO | P25 | K30



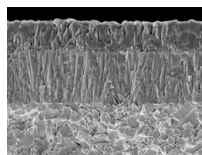
Specification:

Composition: Co 7.0%, mixed carbides 6.0%, WC balance | Grain size: 1-2 µm | Hardness: HV₃₀ 1500 | Layer system: CVD TiCN-Al₂O₃

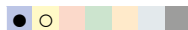
Usage recommendation:

The first choice for the universal machining of steels.

CTCP135-P



ISO | P35 | M25



Specification:

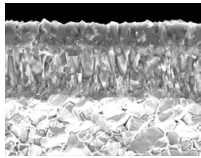
Composition: Co 9.6%, mixed carbides 7.8%, WC balance | Grain size: 1-2 µm | Hardness: HV₃₀ 1460 | Layer system: CVD TiCN-Al₂O₃

Usage recommendation:

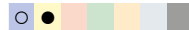
The tough alternative for extremely interrupted cutting conditions.

Grade description

CTCM120



ISO | P15 | M20



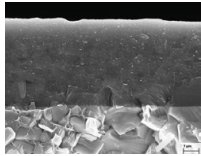
Specification:

Composition: Co 7%, mixed carbides 6%, WC balance | Grain size: 1-2 μm | Hardness: HV₃₀ 1500 | Layer system: CVD TiCN-Al₂O₃

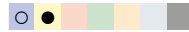
Usage recommendation:

Wear-resistant carbide grade for austenitic, stainless steel with the best levels of performance with a smooth cut.

CTPM125



ISO | P35 | M25



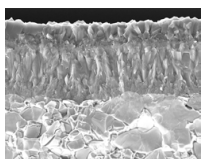
Specification:

Composition: Co 9.6%; mixed carbides 7.8%; others 0.4%; WC balance | Grain size: 1 - 2 μm | Hardness: HV₃₀ 1460 | Coating specification: PVD TiAlTaN

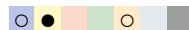
Recommended application:

The first choice for the machining of austenitic steels

CTCM130



ISO | P25 | M30 | S30



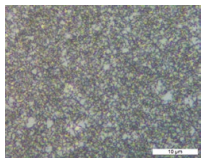
Specification:

Composition: Co 9.6%, mixed carbides 7.8%, WC balance | Grain size: 1-2 μm | Hardness: HV₃₀ 1460 | Layer system: CVD TiCN-Al₂O₃

Usage recommendation:

Robust turning grade for austenitic stainless steel with interrupted cuts.

H210T



ISO | K10 | N10 | S10 | O10



Specification:

Composition: Co 6.0%; WC balance | Grain size: 0.8 μm | Hardness: HV₃₀ 1850

Recommended application:

The wear-resistant uncoated carbide grade for the machining of aluminium and other non-ferrous metals.

H10T



ISO | K15 | N15 | S15 | O10



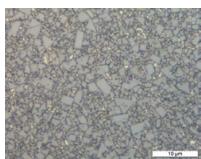
Specification:

Composition: Co 6.0%; WC balance | Grain size: 1 μm | Hardness: HV₃₀ 1630

Recommended application:

The uncoated carbide grade for the machining of aluminium and other non-ferrous metals

H216T



ISO | K15 | N15 | S15 | O10



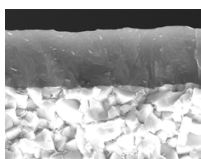
Specification:

Composition: Co 6.0%; WC balance | Grain size: 1 μm | Hardness: HV₃₀ 1630

Recommended application:

The uncoated carbide grade for the machining of aluminium and other non-ferrous metals

CTPX710



ISO | P10 | M10 | K10 | N10 | S15



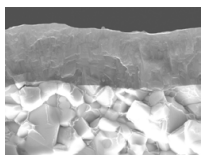
Specification:

Composition: Co 6.0%; WC balance | Grain size: 0.8 μm | Hardness: HV₃₀ 1820 | Layer system: PVD AlTiN

Usage recommendation:

The universal carbide grade for the most demanding machining requirements on multiple materials.

CTPX715



ISO | P15 | M15 | K15 | N15 | S20 | O10



Specification:

Composition: Co 6.0%; WC balance | Grain size: 1 μm | Hardness: HV₃₀ 1650 | Layer system: PVD AlTiN

Usage recommendation:

The universal carbide grade for the most demanding machining requirements on multiple materials.

Grade description

