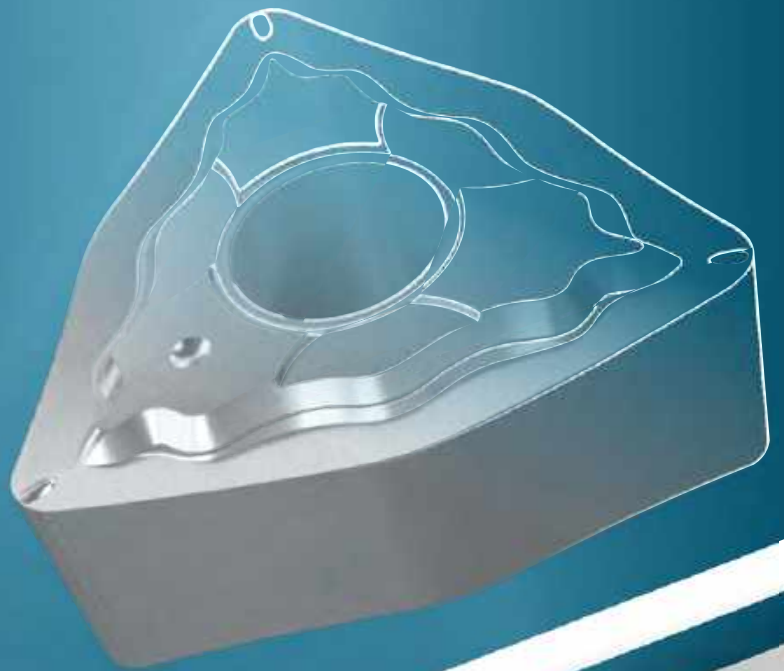


Cutting Tools 2019-2020



Sangeo
cutting tools

Sangeo
cutting tools



Tool Cuts Cases

cutting tools

TURNING

GROOVING

THREADING

MILLING

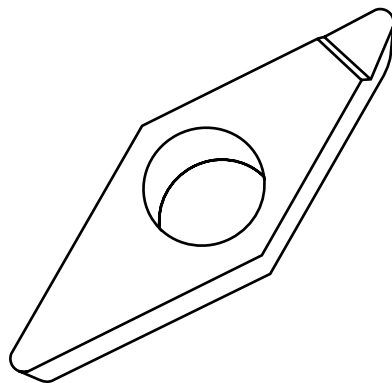
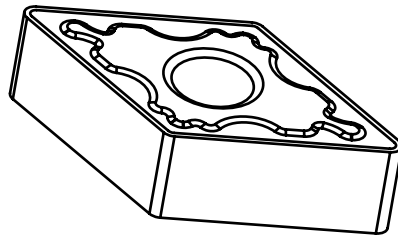
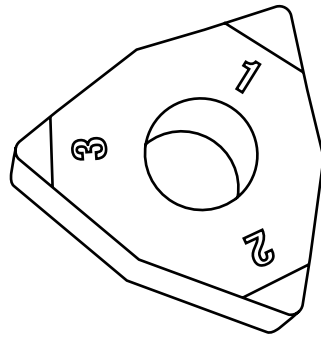
DRILLING

ENDMILLS

DRILLS

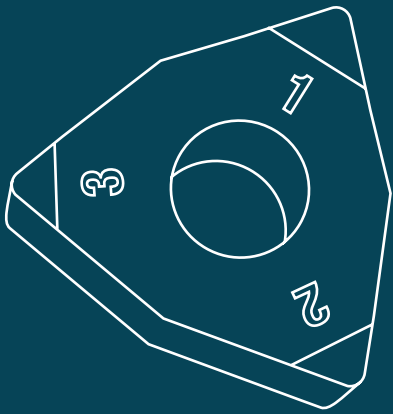
SPARE PARTS

INDEX

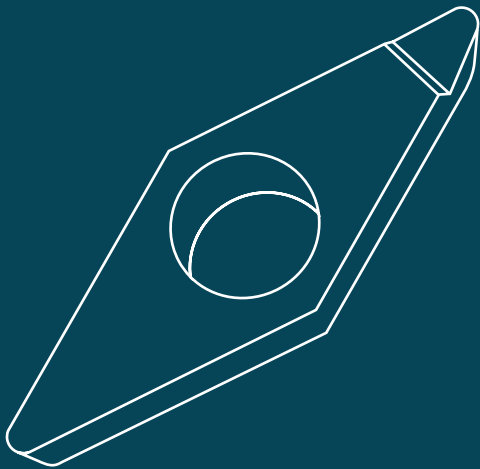
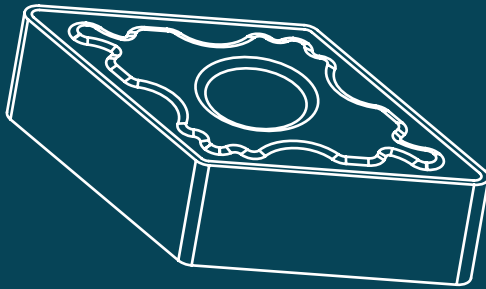


TURNING/

carbide /5
PCBN /59
diamond /79
ceramic /95
holders /117



TURNING / carbide



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

C	N	M	G	12	04	08
1	2	3	4	5	6	7

1 Geometry

C		80
D		55
K		55
S		90
T		60
V		35
W		80

2 Clearance Angle

B		5°
C		7°
P		11°
N		0°

3 Tolerance

G	±0,025	±0,13
M	±0,05 ±0,15	±0,13
U	±0,08 ±0,25	±0,13

4 Shape

A	
G	
M	
T	
X	Special

5 Shape

C	06 09 12 16 19 25	
D	07 11 15	
K	16	
S	09 12 15 19 25	
T	09 11 16 22	
V	11 16 22	
W	06 08	

6 Thickness

02	2,38
03	3,18
T3	3,97
04	4,76
06	6,35
09	9,52

7 Corner Radius

02	0,20
04	0,40
08	0,80
12	1,20
16	1,60
24	2,40

U	M
8	9

CS	5	2	25	S
10	11	12	13	14

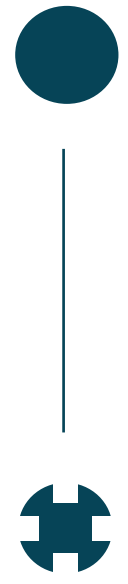
8	Series of C/B
H	Huskar Series
U	Undying Series
S	Spirit Series
T	Tusk Series
A	Aluminium

9	ISO Grade	
Heavy Machining	P	H. Roughing
	R	Roughing
	F	Functional
Turning	R	Roughing
	M	Medium
	F	Finishing
	J	Ultra Finishing
Stainless Steel	S	Standart
	K	Roughing
Aluminium	LU	Functional

10	Coating & Material
CS	CVD Coated Carbide
CD	Double CVD Coated
PS	PVD Coated Carbide
PB	New PVD Coating
KS	Ceramic
SS	Cermet
US	Uncoated

11	Workpiece Material
2	Non-Ferrous Material
4	Hardened Steel
5	Steel
7	Stainless Steel
8	Cast Iron
9	General Machining

12	Machining
1~3	Turning
4	Threading
5	Grooving
9	Milling

13	ISO Grade
05	
10	
15	
20	
25	
30	
35	
40	
45	












14	Grade
S	Premium
non	Normal

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Grades

	ISO DIN 513																			
	K					P					M					N				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	N01	N10	N20	N30	N40
TURNING																				
GROOVING																				
THREADING																				
MILLING																				
DRILLING																				
ENDMILLS																				
DRILLS																				
SPARE PARTS																				
INDEX																				
CARBIDE CVD	CS8205, CS8115, CS8215, CS8125					CS5215, CS5215S, CS5225, CS5225S, CS5235, CS5240					CS7125S									
CARBIDE PVD						PS5125					PS7110S, PS7220S, PS7120									
CARBIDE UNCOATED																US2115				
CERMET UNCOATED	SS9115					SS9115, SS9125					SS9115									

CVD Turning Grades

MATERIAL	GRADE	ISO	Color	Operation
P	CS5215	P05-P25	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Optimization for high speed machining due to combining the substrate of superior wear resistance and toughness with the coating of excellent thermal crack/plastic deformation
	CS5215S	P05-P25	YELLOW	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Optimization for high speed machining due to combining the substrate of superior wear resistance and toughness with the coating of excellent thermal crack/plastic deformation
	CS5225	P15-P35 M10-M20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				First recommended grade for general machining with the use of high toughness substrate and coating layer with improved welding/chipping resistance
	CS5225S	P15-P35 M10-M20	YELLOW	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				First recommended grade for general machining with the use of high toughness substrate and coating layer with improved welding/chipping resistance
	CS5235	P25-P40 M25-M40	YELLOW - BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Medium to low speed machining of steel
CS5240	P30-P40 M30-M40	YELLOW - BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN	
			Medium to high speed machining of stainless steel	
M	CS7125S	M20-M30	BLACK	MT-TiCN+TiC+α-Al ₂ O ₃
				For high speed machining of stainless steel
K	CS8205	K01-K10	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				As adapting highly hard substrate with superior CVD coated which has excellent resistance for thermal & oxidation, Excellent performance in casting iron continuous machining
	CS8115	K10-K20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Medium speed machining of cast iron
	CS8215	K10-K20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
			Medium speed machining of cast iron	
CS8125	K20-K30	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN	
	Interrupted cutting for gray cast iron and ductile cast iron			

CS5225S

Universal grade especially for machining forged automobile components and bearing steel both in continuous and interrupted cutting. Available for all kinds of steels - carbon steel, alloy steel, rolled steel, tool steel, mild steel, bearing steel and other special kinds of steel. New coating technology increases welding resistance and chipping resistance, which leads to longer tool life



TiN coating layer with superior welding resistance

TiC + Al₂O₃ coating layer with superior heat resistance

TiCN coating layer with superior chipping resistance

Exclusive substrate material for coating with improved wear resistance.

TURNING

GROOVING

THREADING

MILLING

DRILLING





ENDMILLS

DRILLS


SPARE PARTS

INDEX



PVD Turning Grades

MATERIAL	GRADE	ISO	Color	Operation
P	PS5125	P05-P25	DARK GRAY	2-4 micron Nano TiAlN PVD Coating
				Stable machinability with chipping resistance fracture resistance and welding resistance, Medium, roughing and heavy interrupted cutting for stainless steel and forged steel
M	PS7110S	M20-M30	COPPER	PVD(Cotated) - TiAlSiN, Premium grade
				As adapting highly hard substrate, Excellent in medium speed machining of stainless steel. As adapting Salina coating which has excellent resistance for thermal & oxidation
	PS7120	M15-M25	YELLOW	2-4 micron Nano AlCrN AlCrSiN Coating
				Medium, roughing and heavy interrupted cutting for st. steel and forged steel
PS7220S	M10-M30	COPPER	PVD(Cotated) - TiAlSiN, Premium grade	
				Excellent in medium speed machining of stainless steel. As adapting Salina coating which has excellent resistance for thermal & oxidation

Uncoated Carbide Grades







































































MATERIAL	GRADE	ISO	Color	Operation
N	US2115	K05-K25	Silver	Ultra fine substrate
				Increased wear & chipping resistance as using a ultra fine substrate, Excellent tool life with special surface treatment & and sharp cutting edge of ALU chip breaker

Cermet Carbide Grades

MATERIAL	GRADE	ISO	Color	Operation
UNI	SS9115	P05-P25	SILVER	For continuous machining of cold/hot forged steel and Sintered ferrous alloy at high speed and low depth of cut
				
	SS9125	P05-P25	SILVER	For high interrupted machining of cold/hot forged steel and Sintered ferrous alloy at high feed and high depth of cut
				

TURNING

Chipbreakers Selection (Negative)

	CN	DN	SN	TN	VN	WN
MA FLAT	21 	26 	32 	38 		47 
MG BOX	21 	26 	32 	38 	45 	47 
ALU	21 	26 	32 	38 		47 
HQ	21 	26 		39 		47 
PM	22 			39 	45 	47 
ST		26 		39 		48 
TK	22 	27 	32 	39 		48 
TM	22 	27 				48 
TS	22 	27 	32 	39 	45 	48 
UF		27 	33 	39 	45 	48 
UM	22 	27 	33 	39 	45 	48 
UR	23 	28 	33 	39 		48 
US	23 	28 	33 	39 		49 
OTHERS			32  (TF)	38  (R/L-P)		47  (HA)
			33  (ZR)	39  (R/L-C)		
			34  (HTR)	39  (UH)		
				39  (VQ)		

TURNING

GROOVING

THREADING

MILLING

DRILLING










































ENDMILLS

DRILLS

SPARE PARTS

INDEX

Chipbreakers Selection (Positive)

	CC	DC	SC	TC	VB	VC
ER/L-U	18 	24 				
L-F	18 					
L/R-W	18 					
L-Y					42 	
ALU	18 	24 	31 	36 	42 	44 
CG	19 	24 		36 	42 	44 
HF	19 	24 	31 	36 		
HM	19 	24 	31 	36 		
HQ	19 	25 		37 	42 	
HR	19 	25 		37 	42 	
TS	19 	25 		37 	43 	
VM	19 	25 		37 	43 	
VQ	19 	25 				
VW		25 				

Machining Examples

P Carbon Steel (1.1040)							
■ Workpiece	Hub						
■ Cutting Conditions	Vc (m/min)= 250	fn (mm/rev)= 0.2					
	ap (mm)= 1,5	Wet					
■ Designation	Insert	CNMG120408-UM CS5225					
	Toolholder	DCLNR2525-M12					
■ Test Result							
<table border="1"> <caption>Test Result Data for Carbon Steel (1.1040)</caption> <thead> <tr> <th>Tool</th> <th>pcs/corner</th> </tr> </thead> <tbody> <tr> <td>CS5225</td> <td>120</td> </tr> <tr> <td>competitor</td> <td>80</td> </tr> </tbody> </table>		Tool	pcs/corner	CS5225	120	competitor	80
Tool	pcs/corner						
CS5225	120						
competitor	80						

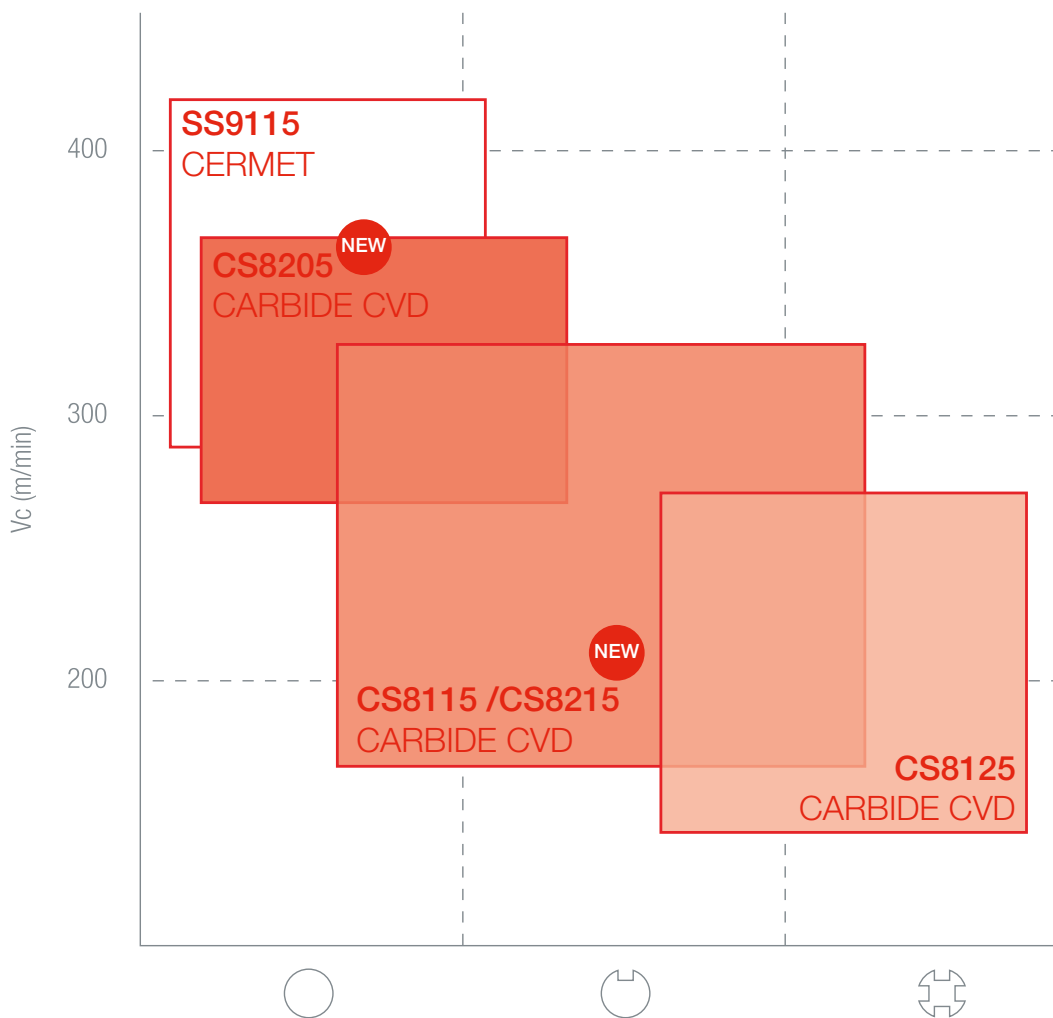
P Alloy Steel (2379)							
■ Workpiece	Automobile Part						
■ Cutting Conditions	Vc (m/min)= 250	fn (mm/rev)= 0.2					
	ap (mm)= 1,5	Wet					
■ Designation	Insert	CNMG120408-UM CS5215S					
	Toolholder	DCLNR2525-M12					
■ Test Result							
<table border="1"> <caption>Test Result Data for Alloy Steel (2379)</caption> <thead> <tr> <th>Tool</th> <th>pcs/corner</th> </tr> </thead> <tbody> <tr> <td>CS5215S</td> <td>60</td> </tr> <tr> <td>competitor</td> <td>40</td> </tr> </tbody> </table>		Tool	pcs/corner	CS5215S	60	competitor	40
Tool	pcs/corner						
CS5215S	60						
competitor	40						

M Stainless Steel (316L)							
■ Workpiece	Valve						
■ Cutting Conditions	Vc (m/min)= 120	fn (mm/rev)= 0.2					
	ap (mm)= 1,5	Wet					
■ Designation	Insert	CNMG120408-TS PS7220S					
	Toolholder	DCLNR2525-M12					
■ Test Result							
<table border="1"> <caption>Test Result Data for Stainless Steel (316L)</caption> <thead> <tr> <th>Tool</th> <th>pcs/corner</th> </tr> </thead> <tbody> <tr> <td>PS7220S</td> <td>30</td> </tr> <tr> <td>competitor</td> <td>20</td> </tr> </tbody> </table>		Tool	pcs/corner	PS7220S	30	competitor	20
Tool	pcs/corner						
PS7220S	30						
competitor	20						

K Gray Cast Iron (GG25)							
■ Workpiece	Disc						
■ Cutting Conditions	Vc (m/min)= 350	fn (mm/rev)= 0.25					
	ap (mm)= 1,5	Wet					
■ Designation	Insert	CNMA120408 CS8215					
	Toolholder	DCLNR2525-M12					
■ Test Result							
<table border="1"> <caption>Test Result Data for Gray Cast Iron (GG25)</caption> <thead> <tr> <th>Tool</th> <th>pcs/corner</th> </tr> </thead> <tbody> <tr> <td>CS8215</td> <td>15</td> </tr> <tr> <td>competitor</td> <td>11</td> </tr> </tbody> </table>		Tool	pcs/corner	CS8215	15	competitor	11
Tool	pcs/corner						
CS8215	15						
competitor	11						

Range ISO **K**

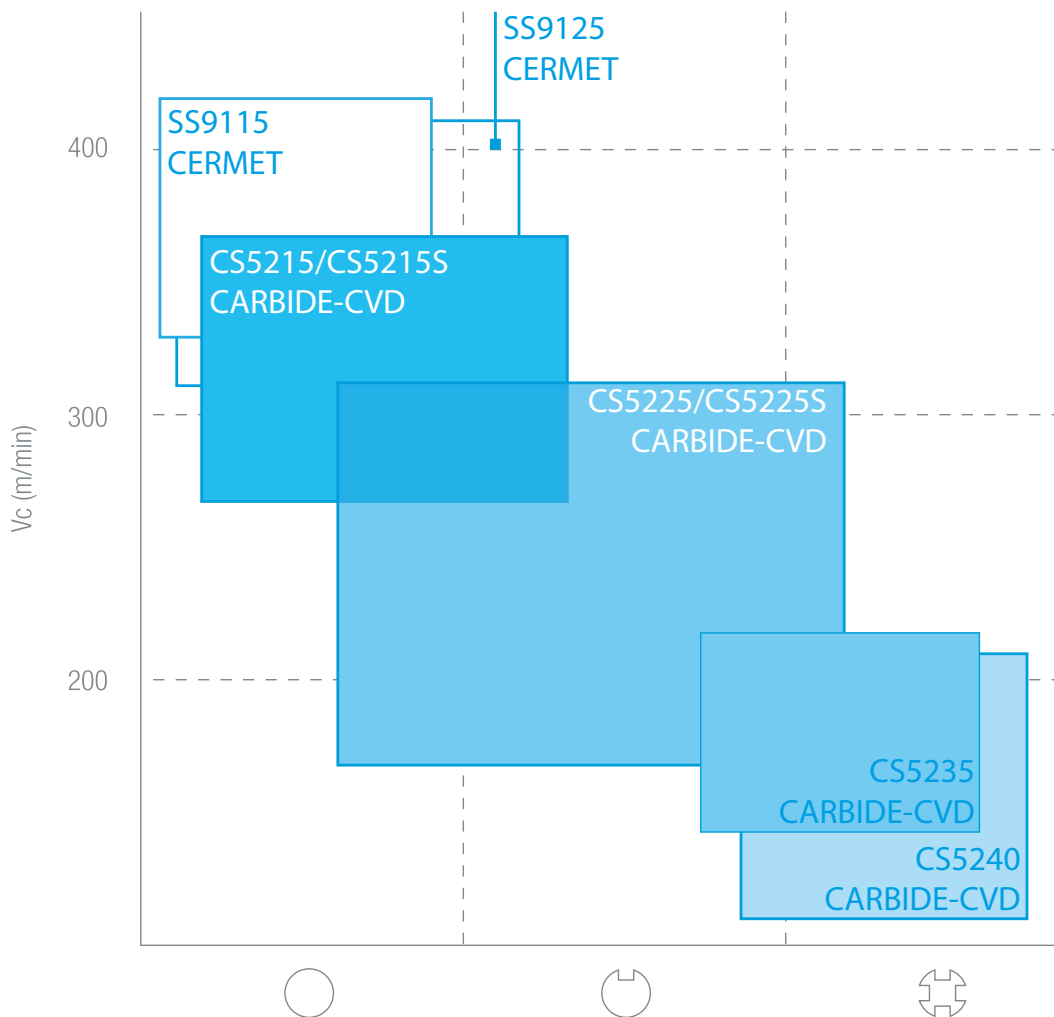
Grades



TURNING

Range ISO **P**

Grades



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

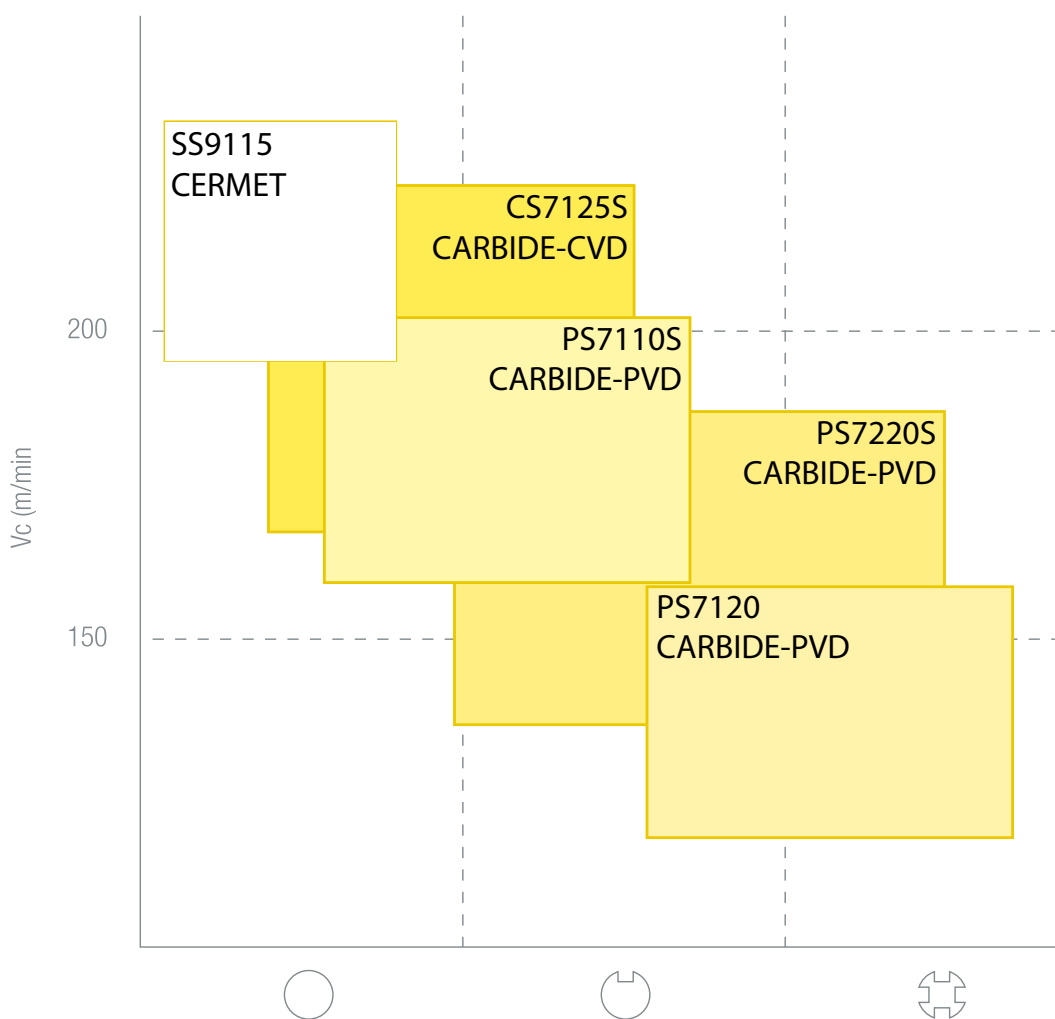
DRILLS

SPARE PARTS

INDEX

Range ISO **M**

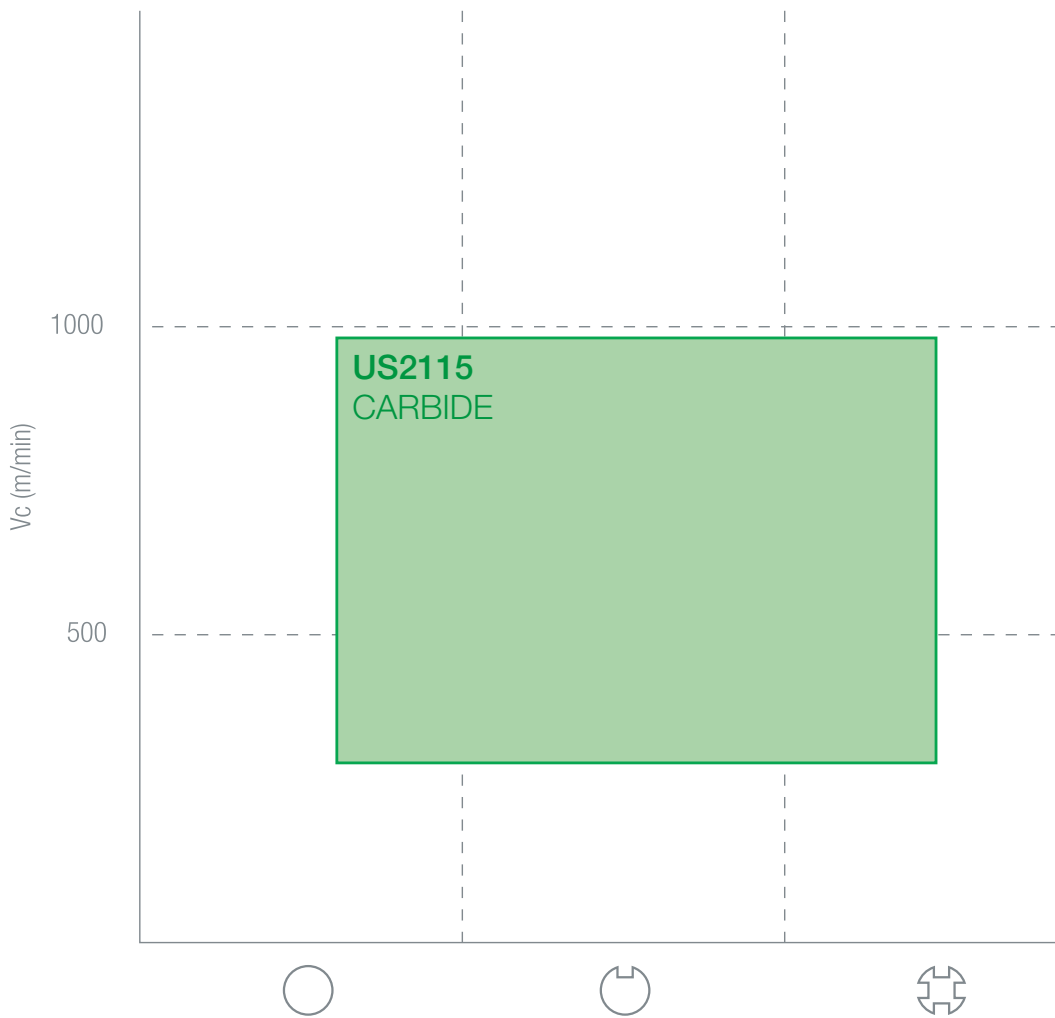
Grades



TURNING

Range ISO **N**

Grades



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

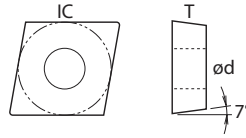
DRILLS

SPARE PARTS

INDEX

**POSITIVE 7°
with hole**

CC □ □



CC □ □	0602 □ □	09T3 □ □	1204 □ □
IC	6,35	9,525	12,7
T	2,38	3,97	4,76
Ød	2,80	4,40	5,50
Holder	126	126	126

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	CCGT060202EL-U															•			
	CCGT060204EL-U															•			
	CCGT09T302EL-U															•			
	CCGT09T304EL-U															•			
	CCGT060202ER-U															•			
	CCGT060204ER-U															•			
	CCGT09T302ER-U															•			
	CCGT09T304ER-U															•			
	CCGT030102L-F															•			
	CCGT030104L-F															•			
	CCGT040102L-F															•			
	CCGT040104L-F															•			
	CCGT060202L-W15															•			
	CCGT060204L-W15															•			
	CCGT060202R-W15															•			
	CCGT060204R-W15															•			
	CCGT09T302L-W20															•			
	CCGT09T304L-W20															•			
	CCGT09T302R-W20															•			
	CCGT09T304R-W20															•			
	CCGT060202-ALU																		•
	CCGT060204-ALU																		•
	CCGT060208-ALU																		•
	CCGT09T302-ALU																		•
	CCGT09T304-ALU																		•
	CCGT09T308-ALU																		•
	CCGT09T312-ALU																		•
	CCGT120404-ALU																		•
	CCGT120408-ALU																		•

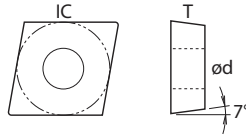
finishing medium roughing

Vc • fn • ap 50

TURNING

POSITIVE 7°
with hole

CC□□



CC □□	0602 □□	09T3 □□	1204 □□
IC	6,35	9,525	12,7
T	2,38	3,97	4,76
Ød	2,80	4,40	5,50
Holder	126	126	126

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE								
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115				
 CCMT060202-CG CCMT060204-CG CCMT060208-CG CCMT09T304-CG CCMT09T308-CG																•						
	 CCMT060202-HF CCMT060204-HF CCMT09T302-HF CCMT09T304-HF	•														•						
		 CCMT060204-HM CCMT060208-HM CCMT09T302-HM CCMT09T304-HM CCMT09T308-HM CCMT120404-HM CCMT120408-HM CCMT120412-HM	•	•													•					
			 CCMT060204-HQ CCMT09T304-HQ CCMT09T308-HQ				•												•			
				 CCMT060208-HR CCMT09T308-HR CCMT120408-HR									•									
 CCMT060204-TS CCMT060208-TS CCMT09T304-TS CCMT09T308-TS																	•					

finishing
 medium
 roughing

Vc • fn • ap 50

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

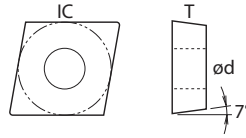
DRILLS

SPARE PARTS







INDEX

POSITIVE 7°
with hole


CC □ □



CC □ □	0602 □ □	09T3 □ □	1204 □ □
IC	6,35	9,525	12,7
T	2,38	3,97	4,76
Ød	2,80	4,40	5,50
Holder	126	126	126

DESCRIPTION	CARBIDE-CVD						CARBIDE-PVD				CERMET	CARBIDE							
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
  CCMT060204-VM CCMT09T304-VM CCMT09T308-VM		●		●							●	●	●						
		●		●							●	●	●						
		●		●							●	●	●						
  CCMT060204-VQ CCMT09T304-VQ		●		●							●	●	●						
		●		●							●	●	●						
  CCMW060204 CCMW09T304 CCMW09T308 CCMW120404 CCMW120408									●										
									●										
									●										
									●										
									●										

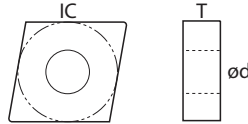
 finishing
  medium
  roughing

Vc • fn • ap  50









TURNING

NEGATIVE
with hole


CN□□



CN □□	1204 □□	1606 □□	1906 □□
IC	12,7	15,875	12,7
T	4,76	6,35	4,76
ød	5,16	6,35	5,50
Holder	131	131	131

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 	CNMA120404								•	•									
	CNMA120408						•	•	•	•									
	CNMA120412						•	•	•	•									
	CNMA120416																		
	CNMA160608						•	•	•	•									
	CNMA160612						•	•	•	•									
	CNMA160616						•	•	•	•									
	CNMA190612						•	•	•	•									
	CNMA190616						•	•	•	•									
 	CNMG120404										•	•							
	CNMG120408	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
	CNMG120412	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
	CNMG120416	•		•		•	•	•	•	•				•	•				
	CNMG160608	•	•	•	•	•	•	•	•	•		•	•	•	•				
	CNMG160612	•	•	•	•	•	•	•	•	•		•	•	•	•				
	CNMG160616	•	•	•	•		•	•				•	•						
	CNMG190608	•	•	•	•							•	•						
	CNMG190612						•	•											
CNMG190616	•	•	•	•		•	•				•	•							
 	CNMG120402-ALU																	•	
	CNMG120404-ALU																		•
	CNMG120408-ALU																		•
	CNMG120412-ALU																		•
 	CNMG120404-HQ				•						•	•	•			•			
	CNMG120408-HQ															•			

 finishing
  medium
  roughing

Vc • fn • ap  50

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- DRILLS
- SPARE PARTS
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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

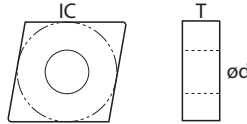
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

CN□□



CN □□	0904 □□	1204 □□	1606 □□
IC	9,525	12,7	15,875
T	4,76	4,76	6,35
ød	3,81	5,16	6,35
Holder	131	131	131

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 CNMG120404-PM CNMG120408-PM		•		•				•											
		•		•				•											
 CNMG120404-TF CNMG120408-TF														•	•				
														•	•				
 CNMG090412-TK CNMG120408-TK CNMG120412-TK														•	•				
														•	•				
														•	•				
 CNMG090408-TM			•		•														
 CNMG090408-TS CNMG090412-TS CNMG120404-TS CNMG120408-TS CNMG120412-TS CNMG160608-TS CNMG160612-TS CNMG190608-TS CNMG190612-TS CNMG190616-TS												•	•						
												•	•						
				•								•	•	•	•				
				•								•	•	•	•				
												•	•						
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												•	•						

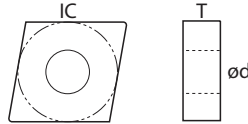
finishing
 medium
 roughing

Vc • fn • ap 50

TURNING

NEGATIVE
with hole

CN□□



CN □□	1204 □□	1606 □□	1906 □□
IC	12,7	15,875	12,7
T	4,76	6,35	4,76
ød	5,16	6,35	5,50
Holder	131	131	131

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 	CNMG120404-UM	•		•		•	•							•	•				
	CNMG120412-UM	•		•		•	•							•	•				
	CNMG120416-UM	•		•		•	•							•	•				
	CNMG120616-UM	•		•		•	•							•	•				
	CNMG160608-UM	•		•		•	•							•	•				
	CNMG160612-UM	•		•		•	•							•	•				
	CNMG160616-UM	•		•		•	•							•	•				
	CNMG190608-UM	•		•		•	•							•	•				
	CNMG190612-UM	•		•		•	•							•	•				
	CNMG190616-UM	•		•		•	•							•	•				
 	CNMG120408-UR	•		•		•	•												
	CNMG120412-UR	•		•		•	•												
	CNMG120612-UR	•		•		•	•												
	CNMG160612-UR	•		•		•	•												
	CNMG160616-UR	•		•		•	•												
	CNMG190612-UR	•		•		•	•							•	•				
	CNMG190616-UR	•		•		•	•							•	•				
	CNMG190624-UR			•		•	•												
	CNMM190612-UR			•		•	•												
	CNMM190616-UR			•		•	•												
 	CNMM190624-UR			•		•													
	CNMM250724-UR			•		•													
	CNMM250924-UR			•	•	•													
	CNMG120404-US	•		•		•	•												
CNMG120408-US	•		•		•	•													

finishing
 medium
 roughing

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- DRILLING
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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

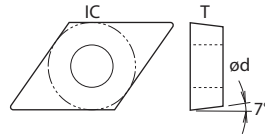
DRILLS

SPARE PARTS

INDEX

**POSITIVE 7°
with hole**

DC□□



DC□□ 0702□□ 11T3□□

IC 6,35 9,525

T 2,38 3,97

Ød 2,80 4,40

Holder **139** **139**

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	DCGT070202-ALU																		•
	DCGT070204-ALU																		•
	DCGT070208-ALU																		•
	DCGT11T302-ALU																		•
	DCGT11T304-ALU																		•
	DCGT11T308-ALU																		•
	DCGT11T312-ALU																		•
	DCGT11T302EL-U															•			
	DCGT11T304EL-U															•			
	DCGT11T302ER-U															•			
	DCGT11T304ER-U															•			
	DCMT070204-CG															•			
	DCMT11T302-CG															•			
	DCMT11T304-CG															•			
	DCMT11T308-CG															•			
	DCMT070202-HF	•	•	•	•				•	•				•	•				
	DCMT070204-HF	•	•	•	•				•	•				•	•				
	DCMT11T304-HF	•	•	•	•				•	•				•	•				
	DCMT070204-HM	•	•	•	•				•	•				•	•				
	DCMT070208-HM	•	•	•	•				•	•				•	•				
	DCMT11T302-HM	•	•	•	•				•	•				•	•				
	DCMT11T304-HM	•	•	•	•				•	•				•	•				
	DCMT11T308-HM	•	•	•	•				•	•				•	•				
	DCMT11T312-HM	•	•	•	•									•	•				

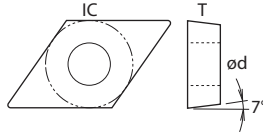
finishing medium roughing

Vc • fn • ap 50

TURNING

POSITIVE 7°
with hole

DC□□



DC □□	0702 □□	11T3 □□
IC	6,35	9,525
T	2,38	3,97
ød	2,80	4,40
Holder	139	139

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE				
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115
 DCMT070202-HQ DCMT070204-HQ DCMT11T302-HQ DCMT11T304-HQ DCMT11T308-HQ																•		
																•		
																•		
																•		
																•		
 DCMT11T304-HR 	•		•		•	•			•	•				•	•			
 DCMT070204-TS DCMT070208-TS DCMT11T302-TS DCMT11T304-TS DCMT11T308-TS															•			
															•			
															•			
															•			
															•			
 DCMT11T304-VM 			•	•							•	•						
 DCMT070204-VQ DCMT070208-VQ 			•	•							•	•						
			•	•							•	•						
 DCMT11T304-VW DCMT11T308-VW 			•	•							•	•						
			•	•							•	•						

finishing
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- ENDMILLS
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TURNING

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THREADING

MILLING

DRILLING

ENDMILLS

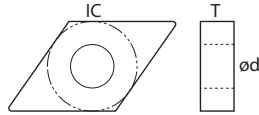
DRILLS

SPARE PARTS

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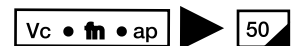
NEGATIVE
with hole

DN□□



DN □□	1104 □□	1504 □□	1506 □□
IC	9,525	12,7	12,7
T	4,76	4,76	6,35
ød	3,81	5,16	5,16
Holder	149	149	149

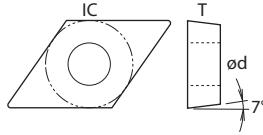
DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 DNMA150408 DNMA150412 DNMA150608 DNMA150612 DNMA150616									•	•									
									•	•									
								•	•	•	•								
								•	•	•	•								
								•	•	•	•								
 DNMG110408 DNMG150404 DNMG150408 DNMG150412 DNMG150604 DNMG150608 DNMG150612		•		•					•	•		•	•						
			•		•				•	•		•	•						
			•		•				•	•		•	•						
			•		•				•	•		•	•						
		•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		•	•	•	•	•	•	•	•	•	•	•	•	•	•				
		•	•	•	•	•	•	•	•	•	•	•	•	•	•				
 DNMG150602-ALU DNMG150604-ALU DNMG150608-ALU DNMG150612-ALU																		•	
																			•
																			•
																			•
 DNMG150608-HA														•					
 DNMG150608-HQ																•			
 DNMG150604L-ST DNMG150608L-ST DNMG150604R-ST DNMG150608R-ST		•		•								•	•						
		•		•								•	•						
		•		•								•	•						
		•		•								•	•						



TURNING

NEGATIVE
with hole

DN□□



DN □□	1104 □□	1504 □□	1506 □□
IC	9,525	12,7	12,7
T	4,76	4,76	6,35
Ød	3,81	5,16	5,16
Holder	149	149	149

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE						
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115		
	DNMG110404-TK														•	•				
	DNMG110408-TK															•				
	DNMG150608-TK															•				
	DNMG150608-TM		•		•								•	•						
	DNMG110404-TS											•	•	•	•					
	DNMG110408-TS											•	•	•	•					
	DNMG110412-TS											•	•							
	DNMG150408-TS											•	•							
	DNMG150412-TS											•	•	•	•					
	DNMG150604-TS											•	•	•	•					
	DNMG150608-TS											•	•	•	•					
	DNMG150612-TS											•	•	•	•					
	DNMG150404-UF	•	•		•															
	DNMG150408-UF	•	•		•															
	DNMG150604-UF	•	•		•															
	DNMG110404-UM	•	•		•	•									•	•				
	DNMG110408-UM	•	•		•	•									•	•				
	DNMG110412-UM	•	•		•															
	DNMG150404-UM	•	•		•	•									•	•				
	DNMG150408-UM	•	•		•	•									•	•				
	DNMG150412-UM	•	•		•	•									•	•				
	DNMG150604-UM	•	•		•	•									•	•				
	DNMG150608-UM	•	•		•	•									•	•				
DNMG150612-UM	•	•		•	•									•	•					

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 roughing

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MILLING

DRILLING

ENDMILLS

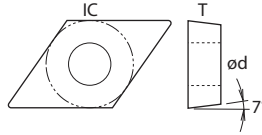
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SPARE PARTS





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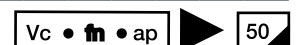
NEGATIVE
with hole

DN□□



DN □□	1104 □□	1504 □□	1506 □□
IC	9,525	12,7	12,7
T	4,76	4,76	6,35
ød	3,81	5,16	5,16
Holder	149	149	149

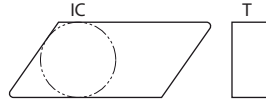
DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
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  DNMG150608-UR DNMG150612-UR	•		•		•														
	•		•		•														
  DNMG150404-US DNMG150408-US DNMG150604-US	•		•		•														
	•		•		•														
	•		•		•														




TURNING

NEGATIVE
without hole

KN□□



KN □□	1604 □□
IC	9,525
T	4,76
Holder	154

DESCRIPTION	CARBIDE-CVD						CARBIDE-PVD				CERMET	CARBIDE							
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 KNMX160405-L11	●	●	●	●	●	●			●	●		●	●						
KNMX160405-R11	●	●	●	●	●	●			●	●		●	●						
KNMX160410-L11		●		●															
KNMX160410-R11		●		●															

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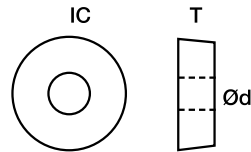
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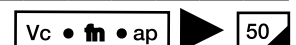
POSITIVE 7°
with hole

RC□□



RC □□	0602 □□	0803 □□	10T3 □□
IC	6,0	8,0	10,0
T	2,36	3,18	3,18
Ød	2,80	3,35	3,60
Holder	157	157	157

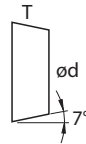
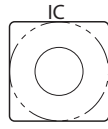
DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE						
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 RCGT0602M0-ALU RCGT0803M0-ALU RCGT1003M0-ALU RCGT10T3M0-ALU RCGT1204M0-ALU																			•	
																				•
																				•
																				•
																				•
 RCMX0803M0 RCMX1003M0 RCMX1204M0 RCMX1606M0 RCMX2006M0 RCMX2507M0 RCMX3209M0	•		•									•	•							
	•		•									•	•							
	•		•									•	•							
	•		•						•			•	•	•						
	•		•					•	•	•		•	•							
	•		•		•			•	•			•	•							
	•		•		•							•	•							



TURNING

POSITIVE 7°
with hole

SC□□



SC □□	09T3 □□	1204 □□
IC	9,525	12,7
T	3,97	4,76
ød	4,40	5,16
Holder	160	160

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE						
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115		
	SCGT09T302-ALU																		•	
	SCGT09T304-ALU																			•
	SCGT09T308-ALU																			•
	SCGT09T312-ALU																			•
	SCGT120404-ALU																			•
	SCGT120408-ALU																			•
	SCMT09T304-HF					•								•						
	SCMT09T304-HM						•	•						•						
	SCMT09T308-HM	•		•		•	•							•	•					
	SCMT120404-HM	•		•		•	•							•	•					
	SCMT120408-HM	•		•		•	•							•	•					

finishing
 medium
 roughing

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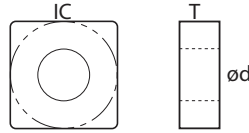
DRILLS

SPARE PARTS

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NEGATIVE
with hole

SN □ □



SN □ □	1204 □ □	1206 □ □	1506 □ □
IC	12,7	12,7	15,875
T	4,76	6,35	6,35
ød	5,16	5,16	6,35
Holder	163	163	163

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
SNMA120408							•	•	•	•				•					
SNMA120412							•	•	•	•									
SNMA120416							•	•	•	•									
SNMA150612							•	•	•	•									
SNMA150616							•	•	•	•									
SNMA190612							•	•	•	•									
SNMA190616							•	•	•	•									
SNMA250924							•	•	•	•									
SNMG120404	•	•	•	•	•		•	•	•	•		•	•						
SNMG120408	•	•	•	•	•		•	•	•	•		•	•						
SNMG120412	•	•	•	•	•		•	•	•	•		•	•						
SNMG120416							•	•	•	•									
SNMG190612	•	•	•	•	•		•	•	•	•		•	•						
SNMG120402-ALU																			•
SNMG120404-ALU																			•
SNMG120408-ALU																			•
SNMG120412-ALU																			•
SNMG120408-TF			•											•	•				
SNMG120404-TK														•	•				
SNMG120408-TK														•	•				
SNMG120412-TK														•	•				
SNMG120612-TK														•	•				
SNMG120404-TS		•		•								•	•	•	•				
SNMG120408-TS												•	•	•	•				
SNMG120412-TS												•	•	•	•				
SNMG150608-TS												•	•	•	•				

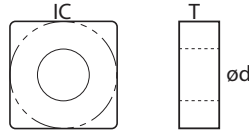
finishing medium roughing

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TURNING

NEGATIVE
with hole

SN □□



SN □□	1906 □□	2507 □□	2509 □□
IC	19,05	25,4	25,4
T	6,35	7,94	9,52
ød	7,93	9,12	9,12
Holder	163	163	163

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
SNMG120404-UF	•	•			•														
SNMG120404-UM	•	•			•	•			•	•				•	•				
SNMG120408-UM	•	•			•	•			•	•				•	•				
SNMG120412-UM	•	•			•	•			•	•				•	•				
SNMG120616-UM	•	•			•														
SNMG150608-UM	•	•			•	•			•	•				•	•				
SNMG190612-UM	•	•			•														
SNMG190616-UM			•		•										•				
SNMG120408-UR	•	•			•														
SNMG120412-UR	•	•			•														
SNMG120612-UR	•	•			•														
SNMG150612-UR	•	•			•	•			•	•				•	•				
SNMG190612-UR	•	•			•	•			•	•				•	•				
SNMG190616-UR	•	•			•	•			•	•				•	•				
SNMG190624-UR	•	•			•	•			•	•				•	•				
SNMG250724-UR	•	•			•														
SNMG250924-UR	•	•			•	•			•	•				•	•				
SNMG120404-US	•	•			•														
SNMG120408-US	•	•			•	•			•	•				•	•				
SNMG120412-US	•	•			•														
SNMG120412-ZR									•	•									
SNMG120416-ZR									•	•									

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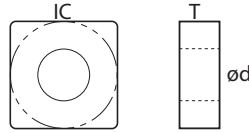
DRILLS

SPARE PARTS

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NEGATIVE
with hole

SN □ □



SN □ □	1204 □ □	1206 □ □	1506 □ □
IC	12,7	12,7	15,875
T	4,76	6,35	6,35
ød	5,16	5,16	6,35
Holder	163	163	163

DESCRIPTION	CARBIDE-CVD						CARBIDE-PVD				CERMET	CARBIDE								
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115		
 	SNMM250724-HTR	●		●		●														
	SNMM250732-HTR	●		●		●														
	SNMM250924-HTR	●		●		●														
	SNMM250932-HTR	●		●		●														
 	SNMM150612-UR	●		●		●														
	SNMM150616-UR	●		●		●														
	SNMM190612-UR	●		●		●														
	SNMM190616-UR	●		●		●														
	SNMM190624-UR	●		●		●														
	SNMM250724-UR	●		●		●														
SNMM250924-UR	●		●		●															

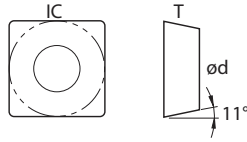
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TURNING

POSITIVE 11°
with hole

SP □□

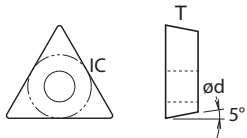


SP □□	1203 □□	1204 □□
IC	12,7	12,7
T	3,18	4,76
ϕd	5,16	5,16

DESCRIPTION		CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
		CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	SPMT120408														●	●				
	SPMT120412																			
	SPMT120416																			
	SPMT120420																			
	SPMT120408-HM			●											●	●				

POSITIVE 5°
with hole

TB □□



TB □□	0601 □□
IC	3,97
T	1,59
ϕd	2,16

DESCRIPTION		CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
		CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	TBGT060102L																●			
	TBGT060104L																●			

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POSITIVE 7°
with hole

TC □□



TC □□	0902 □□	1102 □□	16T3 □□
IC	5,56	6,35	9,525
T	2,38	2,38	3,97
ød	2,50	2,80	4,40
Holder	171	171	171

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	TCGT090202-ALU																		•
	TCGT090204-ALU																		•
	TCGT090208-ALU																		•
	TCGT110202-ALU																		•
	TCGT110204-ALU																		•
	TCGT110208-ALU																		•
	TCGT16T302-ALU																		•
	TCGT16T304-ALU																		•
	TCGT16T308-ALU																		•
	TCGT16T312-ALU																		•
	TCGW16T304								•	•									•
	TCGW16T308								•	•									•
	TCGW16T312								•	•									•
	TCMT110204-CG															•			•
	TCMT090204-HF	•	•	•	•				•	•				•	•				•
	TCMT110204-HF	•	•	•	•				•	•				•	•				•
	TCMT16T304-HF	•	•	•	•				•	•				•	•				•
	TCMT090204-HM	•	•	•	•				•	•				•	•				•
	TCMT090208-HM	•	•	•	•				•	•				•	•				•
	TCMT110204-HM	•	•	•	•				•	•				•	•				•
	TCMT110208-HM	•	•	•	•				•	•				•	•				•

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TURNING

POSITIVE 7°
with hole

TC □□



TC □□	0902□□	1102□□	16T3□□
IC	5,56	6,35	9,525
T	2,38	2,38	3,97
ød	2,50	2,80	4,40
Holder	171	171	171

DESCRIPTION	CARBIDE-CVD						CARBIDE-PVD				CERMET	CARBIDE						
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115
TCMT16T304-HM TCMT16T308-HM TCMT16T312-HM TCMT220408-HM	•		•		•	•			•	•					•			
	•		•		•	•			•	•					•			
	•		•															
	•		•															
TCMT090204-HQ TCMT110204-HQ TCMT110208-HQ TCMT16T304-HQ																•		
																•		
																•		
																	•	
TCMT110208-HR 									•	•								
TCMT110204-TS TCMT16T304-TS TCMT16T308-TS															•			
															•			
															•			
TCMT16T304-VM TCMT16T308-VM		•		•								•	•					
		•		•								•	•					

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with hole

TN □ □



TN □ □	1604 □ □	2204 □ □	2706 □ □
IC	9,525	12,7	15,875
T	4,76	4,76	6,35
ød	3,81	5,16	6,35
Holder	178	178	178

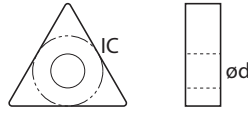
DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE				
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115
 TNGG160402L-P TNGG160404L-P TNGG160402R-P TNGG160404R-P																•		•
																•		•
																•		•
																•		•
 TNMA160404 TNMA160408 TNMA160412 TNMA160416 TNMA220404 TNMA220408 TNMA220412 TNMA220416								•	•	•	•							
							•	•	•	•								
							•	•	•	•								
							•	•	•	•								
							•	•	•	•								
							•	•	•	•								
							•	•	•	•								
							•	•	•	•								
 TNMG160404 TNMG160408 TNMG160412 TNMG220408 TNMG220412 TNMG220416 TNMG270612 TNMG270616 TNMG330704 TNMG330724 TNMG330924	•	•	•	•	•	•					•	•	•	•				
	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
	•	•	•	•	•	•	•	•	•	•		•	•	•	•			
	•		•		•	•	•	•	•	•				•	•			
	•	•	•	•	•	•	•	•	•	•		•	•	•	•			
	•	•	•	•	•	•	•	•	•	•		•	•	•	•			
							•											
			•		•													
			•		•	•												
																		•
																		•
																		•



TURNING

NEGATIVE
with hole

TN □□



TN □□	1604 □□	2204 □□	2706 □□
IC	9,525	12,7	15,875
T	4,76	4,76	6,35
ød	3,81	5,16	6,35
Holder	178	178	178

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 TNMG160404-HQ TNMG160408-HQ																•			
																	•		
 TNMG160404L-C TNMG160408L-C TNMG160404R-C TNMG160408R-C																•			
																•			
																•			
																•			
 TNMG160404-PM TNMG160408-PM TNMG160412-PM		•		•							•	•	•						
		•		•							•	•	•						
				•							•	•	•						
 TNMG160404L-ST TNMG160408L-ST TNMG160404R-ST TNMG160408R-ST	•		•											•	•				
	•		•											•	•				
	•		•											•	•				
	•		•											•	•				
 TNMG160404-TK TNMG220408-TK														•	•				
														•	•				
 TNMG160404-TS TNMG160408-TS TNMG160412-TS TNMG220404-TS TNMG220408-TS				•			•	•			•	•	•	•	•				
				•			•	•			•	•	•	•	•				
															•	•			
 TNMG160404-UF TNMG160408-UF	•		•		•														
	•		•		•														

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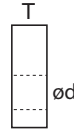
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TN □ □



TN □ □	1604 □ □	2204 □ □	2706 □ □
IC	9,525	12,7	15,875
T	4,76	4,76	6,35
Ød	3,81	5,16	6,35
Holder	178	178	178

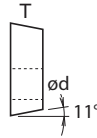
DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE						
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115		
 TNMG220412-UH TNMG220416-UH	•		•																	
	•		•																	
 TNMG160404-UM TNMG160408-UM TNMG160412-UM TNMG160416-UM TNMG220404-UM TNMG220408-UM TNMG220412-UM	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
 TNMG160408-UR TNMG160412-UR TNMG220416-UR TNMG270612-UR TNMG330924-UR	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
	•		•		•	•			•	•				•	•					
 TNMG160404-US TNMG160408-US	•		•		•															
	•		•		•															
 TNMG160404-VQ TNMG160408-VQ				•							•	•	•							
				•							•	•	•							
 TNMM220412-UR TNMM220416-UR TNMM270616-UR			•		•	•														
			•		•	•														
			•		•	•														



TURNING

POSITIVE 11°
with hole

TP □□



TP □□	0802□□	0902□□	1103□□
IC	4,76	5,56	6,35
T	2,38	2,38	3,18
ød	2,30	3,00	3,40
Holder	177	177	177

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE						
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115		
 TPGH080202L TPGH080204L TPGH090202L TPGH090204L TPGH110302L TPGH110304L												•	•			•				
												•	•				•			
												•	•				•			
												•	•				•	•		
												•	•				•			
												•	•				•	•		
 TPGN160308 TPGN220416	•		•		•															
	•		•		•															
 TPGT110204-HM	•		•		•															
 TPMT110304-CG																•				
 TPMT110304-HQ TPMT110308-HQ																•				
																	•			
 TPUN160304 TPUN160308 TPUN220412						•														
						•														
						•								•	•					

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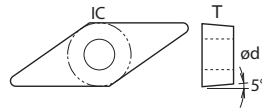
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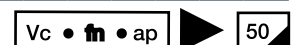
POSITIVE 5°
with hole

VB □□



VB □□	1103 □□	1604 □□
IC	6,35	9,525
T	3,18	4,76
ød	2,80	4,40
Holder	183	183

DESCRIPTION	CARBIDE-CVD						CARBIDE-PVD				CERMET	CARBIDE							
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	VBGT110302-ALU																		•
	VBGT110308-ALU																		•
	VBGT160402-ALU																		•
	VBGT160404-ALU																		•
	VBGT160408-ALU																		•
	VBGT160412-ALU																		•
	VBGT110302L-Y																•		
	VBGT110304L-Y																•		
	VBGT110302R-Y																•		
	VBGT110304R-Y																•		
	VBMT160404	•		•		•	•			•	•			•	•				
	VBMT160408	•		•		•	•			•	•			•	•				
	VBMT110302-CG																•		
	VBMT110304-CG																•		
	VBMT110304-HQ																•		
	VBMT110308-HQ																•		
	VBMT160404-HQ																•		
	VBMT160408-HQ																•		
	VBMT160408-HR													•	•				

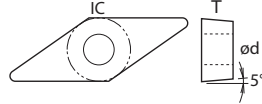


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TURNING

POSITIVE 5°
with hole

VB □□



VB □□	1103 □□	1604 □□
IC	6,35	9,525
T	3,18	4,76
ød	2,80	4,40
Holder	183	183

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 VBMT160404-TS														●	●				
 VBMT160404-VM		●		●								●	●						
 VBMT160404-VW		●		●								●	●						

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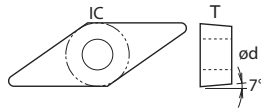
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POSITIVE 7°
with hole

VC □ □



VC □ □	1103 □ □	1604 □ □	2205 □ □
IC	6,35	9,525	12,70
T	3,18	4,76	5,56
ød	2,80	4,40	5,60
Holder	189	189	189

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE						
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115		
 VCGT110302-ALU VCGT110304-ALU VCGT110308-ALU VCGT160402-ALU VCGT160404-ALU VCGT160408-ALU VCGT160412-ALU VCGT220516-ALU																			•	
																				•
																				•
																				•
																				•
																				•
																				•
																				•
 VCGT110304-VF														•	•					
 VCGW110304 VCGW160404 VCGW160408																				
 VCMT160404	•		•	•	•	•									•					
 VCMT110302-CG VCMT110302-CG																			•	
																				•

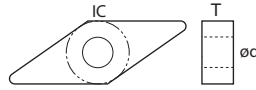
finishing
 medium
 roughing

Vc • fn • ap 50

TURNING

NEGATIVE
with hole

VN □□



VN □□ 1604 □□

IC 9,525

T 4,76

Ød 3,81

Holder 191

DESCRIPTION		CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
		CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	VNMG160404	•		•		•	•			•	•		•	•	•	•				
	VNMG160408	•		•		•	•			•	•		•	•	•	•				
	VNMG160412	•		•		•	•			•	•		•	•	•	•				
	VNMG160404-HQ																•			
	VNMG160408-HQ																•			
	VNMG160404-PM		•		•							•	•							
	VNMG160408-PM		•		•							•	•							
	VNMG160404-TS		•		•							•	•							
	VNMG160404-UF	•		•		•														
	VNMG160408-UF	•		•		•														
	VNMG160404-UM	•		•		•	•			•	•			•	•					
	VNMG160408-UM	•		•		•	•			•	•			•	•					
	VNMG160412-UM	•		•		•	•			•	•			•	•					

finishing
 medium
 roughing

Vc • fn • ap 50

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

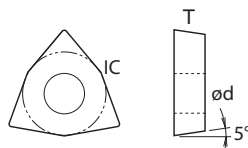
DRILLS

SPARE PARTS



INDEX

**POSITIVE 5°
with hole**


WB□□



WB □□	0601 □□
IC	4,76
T	1,59
Ød	2,20

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
 WBGT060102L-W11																●			
 WBGT060104L-W11																●			

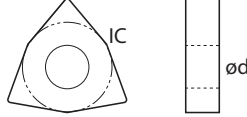
 finishing
 medium
 roughing

Vc • fn • ap

50

TURNING

NEGATIVE
with hole

WN□□



WN □ □	0604 □ □	0804 □ □
IC	9,525	12,7
T	4,76	4,76
Ød	3,81	5,16
Holder	194	194

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE							
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115			
WNMA080404 WNMA080408 WNMA080412 WNMA080416							•	•	•	•											
	WNMG080404 WNMG080408 WNMG080412 WNMG080416	•		•		•	•	•	•	•	•				•	•					
		WNMG080404-ALU WNMG080408-ALU							•	•	•	•								•	
									•	•	•	•								•	
WNMG080408-HA															•						
	WNMG080404-HQ WNMG080408-HQ WNMG080412-HQ		•		•								•	•			•				
WNMG080404-PM WNMG080408-PM WNMG080412-PM		•		•									•	•							
			•	•	•								•	•							
		•		•								•	•								

finishing
 medium
 roughing

Vc • fn • ap 50

- TURNING
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TURNING

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ENDMILLS

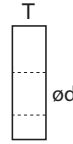
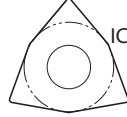
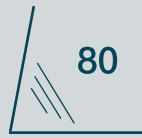
DRILLS

SPARE PARTS

INDEX

**NEGATIVE
with hole**

WN□□



WN □□ 0604 □□ 0804 □□

IC 9,525 12,7

T 4,76 4,76

ød 3,81 5,16

Holder 191 191

DESCRIPTION	CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
	CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
WNMG080404L-ST WNMG080408L-ST WNMG080408R-ST		•		•								•	•						
		•		•								•	•						
		•	•	•								•	•						
WNMG080408-TM		•		•								•	•						
WNMG080404-TK WNMG080408-TK WNMG080412-TK														•	•				
														•	•				
														•					
WNMG080404-TS WNMG080408-TS		•		•								•	•	•	•				
		•		•								•	•	•	•				
WNMG080404-UF WNMG080408-UF	•		•		•														
	•		•		•														
WNMG060408-UM WNMG080404-UM WNMG080408-UM WNMG080412-UM	•		•		•	•			•	•				•	•				
	•		•		•	•			•	•				•	•				
	•		•		•	•			•	•				•	•				
	•		•		•	•			•	•				•	•				
WNMG080408-UR WNMG080412-UR	•		•		•														
	•		•		•														

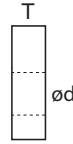
finishing medium roughing

Vc • fn • ap 50

TURNING

**NEGATIVE
with hole**

WN □ □



WN □ □	0604 □ □	0804 □ □
IC	9,525	12,7
T	4,76	4,76
ød	3,81	5,16
Holder	191	191

DESCRIPTION		CARBIDE-CVD								CARBIDE-PVD				CERMET	CARBIDE					
		CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S	PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115	
	WNMG080404-US	•		•		•														
	WNMG080408-US	•		•		•														
	WNMG080412-UT														•					

finishing
 medium
 roughing

Vc • fn • ap

 50

- TURNING
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TURNING

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MILLING

DRILLING

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Cutting Parameters Vc(m/min)

KG	GREY CAST IRON
KN	NODULAR CAST IRON
PL	LOW CARBON AND FREE CUTTING STEEL
PM	MEDIUM CARBON STEEL
PH	HIGH CARBON STEEL
PA	ALLOY STEEL

MM	MARTENSITIC AND FERRITIC STAINLESS STEEL
MA	AUSTENITIC STAINLESS STEEL
NA	ALUMINIUM ALLOYS
NH	ALUMINIUM ALLOYS AGED AND HARDENED
NB	BRASS
NC	BRONZE AND ELECTROLYTIC COPPER



MATERIAL		CARBIDE-CVD										
		CS5215	CS5215S	CS5225	CS5225S	CS5235	CS5240	CS8205	CS8215	CS8115	CS8125	CS7125S
K	KG							250-450	200-360	200-360	160-300	
	KN							180-300	150-280	150-280	120-250	
P	PL	250-350	200-320	200-320	200-320	160-250						
	PM	220-300	180-260	180-260	180-260	140-200						
	PH	200-280	160-250	160-250	160-250	120-180	100-160					
	PA	180-250	150-220	150-220	150-220	100-170	90-160					
M	MM											160-260
	MA											140-220

MATERIAL		CARBIDE-PVD				CERMET		CARBIDE					
		PS7110S	PS7220S	PS7120	PS5125	SS9115	SS9125	US2115					
K	KG					250-400	250-400						
	KN					180-300	180-300						
P	PL				100-180	280-380	280-380						
	PM				80-160	240-330	240-330						
	PH				80-140	220-300	220-300						
	PA				60-120	200-280	200-280						
M	MM	120-220	100-150	100-150		180-250	180-250						
	MA	100-180	80-120	80-120		160-220	160-220						
N	NA							600-1500					
	NH							300-700					
	NB							250-400					
	NC							150-250					

TURNING

Cutting Parameters a_p (mm) & f_n (mm/rev)

negative 

NEGATIVE INSERT SIZE		CN	-	1204..	1606..	1906..	2507.. 2509..
		DN	1104..	1504.. 1506..	-	-	-
		SN	0903..	1204..	-	1906..	2507.. 2509..
		TN	-	1604..	2204..	-	-
		VN	-	1604..	-	-	-
		WN	0604..	0804..	-	-	-

Chip Breaker Form	Corner Radius	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
MA FLAT	R02										
	R04			2,00-4,00	0,20-0,35						
	R08			2,00-6,00	0,25-0,50	4,00-8,00	0,34-0,60				
	R12			2,00-6,00	0,33-0,58	4,00-10,0	0,40-0,70	5,00-11,0	0,43-0,76	8,00-16,0	0,45-1,00
	R16 / R24			2,00-7,00	0,37-0,65	4,00-10,0	0,45-0,78	5,00-13,0	0,49-0,8	8,00-18,0	0,50-1,10
MG BOX	R02										
	R04			1,00-4,00	0,16-0,25					8,00-16,0	0,45-0,89
	R08	1,00-4,00	0,23-0,40	1,00-4,00	0,22-0,38	4,00-7,00	0,34-0,58	5,00-10,0	0,42-0,76		
	R12			1,00-5,00	0,26-0,44	4,00-8,00	0,40-0,68	5,00-11,0	0,43-0,76		
	R16 / R24			1,00-5,00	0,29-0,50	4,00-8,00	0,45-0,76	5,00-11,0	0,49-0,85	8,00-18,0	0,50-1,10
ALU	R02			0,10-3,00	0,05-0,30						
	R04			0,80-3,50	0,10-0,40						
	R08			0,80-3,50	0,10-0,40						
	R12			0,80-3,50	0,10-0,42						
	R16 / R24										
HA	R02										
	R04										
	R08										
	R12			0,80-3,50	0,05-0,30						
	R16 / R24										
HQ	R02										
	R04			0,50-2,50	0,05-0,25						
	R08			0,50-4,00	0,10-0,50						
	R12			0,50-4,00	0,13-0,60						
	R16 / R24										
HTR	R02										
	R04										
	R08										
	R12										
	R16 / R24									1,80-10,00	0,30-0,80
PM	R02										
	R04										
	R08			1,00-5,00	0,10-0,50						
	R12										
	R16 / R24										

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS







DRILLS

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Cutting Parameters a_p (mm) & f_n (mm/rev)

negative 






NEGATIVE INSERT SIZE		CN	-	1204..	1606..	1906..	2507.. 2509..
		DN	1104..	1504.. 1506..	-	-	-
		SN	0903..	1204..	-	1906..	2507.. 2509..
		TN	-	1604..	2204..	-	-
		VN	-	1604..	-	-	-
		WN	0604..	0804..	-	-	-

Chip Breaker Form	Corner Radius	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
ST	R02										
	R04			1,00-3,50	0,12-0,30						
	R08			1,80-7,00	0,15-0,50						
	R12										
	R16 / R24										
TF	R02										
	R04			0,05-1,00	0,04-0,28						
	R08			0,07-1,00	0,05-0,03						
	R12										
	R16 / R24										
TK	R02										
	R04	0,50-1,00	0,10-0,25	0,50-1,20	0,10-0,28						
	R08	0,50-1,20	0,10-0,28	0,50-1,50	0,10-0,30	0,80-2,00	0,10-0,35				
	R12			0,50-1,60	0,10-0,30						
	R16 / R24										
TM	R02										
	R04										
	R08			0,50-3,00	0,05-0,40						
	R12										
	R16 / R24										
TS	R02										
	R04	1,00-3,00	0,13-0,23	0,80-4,00	0,05-0,30						
	R08			0,80-4,00	0,10-0,40						
	R12			0,80-4,00	0,10-0,40						
	R16 / R24										
UF	R02										
	R04			0,30-1,80	0,05-0,35						
	R08			0,30-2,00	0,05-0,35						
	R12										
	R16 / R24										
UH	R02										
	R04										
	R08										
	R12					1,30-8,00	0,25-0,70				
	R16 / R24					1,80-8,00	0,30-0,80				

TURNING

Cutting Parameters a_p (mm) & f_n (mm/rev)

negative 

NEGATIVE INSERT SIZE		CN	-	1204..	1606..	1906..	2507.. 2509..
		DN	1104..	1504.. 1506..	-	-	-
		SN	0903..	1204..	-	1906..	2507.. 2509..
		TN	-	1604..	2204..	-	-
		VN	-	1604..	-	-	-
		WN	0604..	0804..	-	-	-

Chip Breaker Form	Corner Radius	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
UM	R02										
	R04			1,00-4,50	0,10-0,33	2,00-7,50	0,13-0,33				
	R08			1,50-5,00	0,15-0,45	2,00-8,00	0,18-0,45	3,00-9,00	0,20-0,46		
	R12			1,50-5,50	0,15-0,50	2,00-8,00	0,22-0,50	3,00-10,0	0,24-0,50		
	R16 / R24			1,50-5,50	0,15-0,60	2,00-8,00	0,25-0,60	3,00-10,0	0,32-0,50		
UT	R02										
	R04										
	R08										
	R12					1,30-7,00	0,25-0,65				
	R16 / R24										
UR	R02										
	R04										
	R08			3,00-10,0	0,30-0,72	3,00-15,0	0,27-0,48	3,00-17,0	0,34-0,60		
	R12			3,00-15,00	0,30-0,80	3,00-15,5	0,32-0,50	3,00-18,0	0,38-0,68		
	R16 / R24					3,00-16,00	0,35-0,63	3,00-18,0	0,38-0,68	5,00-17,0	0,45-0,90
US	R02										
	R04			1,50-4,50	0,15-0,45						
	R08			1,50-5,00	0,15-0,5						
	R12			1,50-5,00	0,15-0,50						
	R16 / R24										
VQ	R02										
	R04										
	R08										
	R12										
	R16 / R24										
ZR	R02										
	R04										
	R08										
	R12			1,00-7,00	0,20-0,50						
	R16 / R24			1,80-7,00	0,32-0,75						
R/L-P R/L-C	R02			0,50-3,50	0,08-0,30						
	R04			1,00-3,50	0,12-0,30						
	R08			1,30-3,50	0,15-0,35						
	R12										
	R16 / R24										

TURNING

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Cutting Parameters a_p (mm) & f_n (mm/rev)

positive



NEGATIVE INSERT SIZE		CC / CP	0602..	09T3.. 0903..	1204..	-	-
		DC	0702..	11T3..	..	-	-
		SC / SP	-	09T3..	1204..	-	-
		TC / TP	0902..	1102..	16T3..	2204..	-
		VB / VC	-	1103..	1604..	2205..	-
		WB	0601..	-	-	-	-

Chip Breaker Form	Corner Radius	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
ER/L-U	R02	0,10-0,50	0,01-0,10	0,02-2,00	0,04-0,15						
	R04	0,10-0,50	0,01-0,10	0,50-3,00	0,08-0,30						
	R08										
	R12										
	R16 / R24										
L-F	R02	0,30-1,00	0,10-0,20	0,50-1,20	0,10-0,25						
	R04	0,50-1,00	0,10-0,25	0,70-1,50	0,12-0,30	0,20-4,00	0,02-0,30				
	R08					0,30-5,00	0,03-0,50				
	R12										
	R16 / R24										
L/R-W	R02	0,07-1,80	0,03-0,15	0,08-2,00	0,04-0,15						
	R04	0,1-2,00	0,05-0,2	0,1-2,20	0,08-0,2						
	R08										
	R12										
	R16 / R24										
L-Y	R02			0,06-1,70	0,03-0,13						
	R04			0,09-2,00	0,06-0,22						
	R08										
	R12										
	R16 / R24										
ALU	R02	0,03-3,00	0,01-0,12	0,05-4,00	0,02-0,30	0,05-4,00	0,02-0,30				
	R04	0,10-3,00	0,02-0,13	0,10-5,00	0,03-0,50	0,10-5,00	0,03-0,50				
	R08	0,10-4,00	0,02-0,20	0,10-5,00	0,03-0,50	0,10-5,00	0,04-0,80				
	R12			0,15-5,00	0,04-0,60	0,50-6,50	0,08-0,70	0,10-7,00	0,03-0,60		
	R16 / R24										
CG	R02	0,30-1,00	0,05-0,20								
	R04	0,30-1,00	0,10-0,25	0,30-1,5	0,10-0,25						
	R08	0,40-2,40	0,80-0,25	0,30-1,5	0,10-0,28						
	R12										
	R16 / R24										
HF	R02										
	R04										
	R08										
	R12										
	R16 / R24										

TURNING

Cutting Parameters a_p (mm) & f_n (mm/rev)

positive



NEGATIVE INSERT SIZE		CC / CP	0602..	09T3.. 0903..	1204..	-	-
		DC	0702..	11T3..	..	-	-
		SC / SP	-	09T3..	1204..	-	-
		TC / TP	0902..	1102..	16T3..	2204..	-
		VB / VC	-	1103..	1604..	2205..	-
		WB	0601..	-	-	-	-

Chip Breaker Form	Corner Radius	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
HM	R02	1,0-6,0	0,10-0,70								
	R04										
	R08										
	R12										
	R16 / R24										
HQ	R02	0,06-1,70	0,06-0,19	0,10-2,00	0,07-0,22						
	R04	0,10-2,00	0,11-0,25	0,80-3,00	0,08-0,30	0,80-3,00	0,08-0,28				
	R08	0,20-2,00	0,08-0,30	1,00-3,00	0,10-0,30	1,00-3,00	0,10-0,33				
	R12										
	R16 / R24										
HR	R02										
	R04										
	R08										
	R12										
	R16 / R24										
TS	R02										
	R04										
	R08										
	R12										
	R16 / R24										
VM	R02										
	R04										
	R08										
	R12										
	R16 / R24										
VQ	R02										
	R04										
	R08										
	R12										
	R16 / R24										
VW	R02										
	R04										
	R08										
	R12										
	R16 / R24										

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

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INDEX

TURNING CVD Comparison table

MATERIAL	SANGEO	ISCAR	SECO	TEAGUTEC	KYOCERA	SANDVIK	KENAMETAL	MITSUBISHI	WALTER	KORLOY
P			TP0500	TT8105	CA5505	GC4305	KCP05(B)	UE6105	WPP10S	NC3010
	CS5215	IC8150	TP0501	TT8110	CA510	GC4205		UE6110	WKP13S	
	CS5215S		TP1500	TT8115	CA515	GC4315	KCP10(B)	MY5015		NC3215
			TP2500	TT8120	CA525	GC4215		MC6025	WPP20S	NC3220
	CS5225	IC8250	TP2501	LC025P	CA5525	GC4325	KCP25(B)	UE6020	WKP23S	NC3225
	CS5225S		T350M	TT8125		GC4225				
	CS5235	IC8350	TP3500	TT5100	CA530	GC4235	KCP30(B)	UE6035	WPP30S	NC3030
				TT8135	CA5535				WKP33S	NC500H
M	CS5240		TGP45	TT7100			KCP40(B)			NC5330
	CS7125S	IC6015	TM2000	TT9215	CA6515	GC2015	KCM15(M)	MC7015	WAM10	NC9020
			TM4000	TT9225	CA6525	GC2025	KCM25(B)	US7020	WAM20	NC9025
K								US735	WAM30	NC9030
	CS8205	IC5005	TK1001	TT7005	CA4505	GC3205	KCK05(B)	MC5005	WKK10S	NC6205
					CA4010	GC3210		UC5105		
	CS8215			TT7310						NC6210
	CS8115									
	IC5015	TK2001	TT7015	CA4515	GC3215	KCK15(B)	MC5015	WKK20S	NC6215	
	CS8125		TGK1500		CA4115	GC3225		UC5115		

TURNING Cermet

MATERIAL	SANGEO	ISCAR	SECO	TEAGUTEC	KYOCERA	SANDVIK	KENAMETAL	MITSUBISHI	WALTER	KORLOY
UNI										
	SS9115	IC20N	C15M	CT3000	TN60	CT525	KT125	NX2525		CC1500
	SS9125	IC520N					HT5	NX3035		CN1500

TURNING

TURNING PVD Comparison table

MATERIAL	SANGEO	ISCAR	SECO	TEAGUTEC	KYOCERA	SANDVIK	KENAMETAL	MITSUBISHI	WALTER	KORLOY
P	PS7110S	IC507	CP200		PR1005					
		IC808			PR915		KU10T			PC8110
	PS7220S		CP250		PR1115		KU25T			PC230
	PS7120				PR930					
		IC3028		TT5030		GC1025		VP15TF	WTA43	PC5300
		IC908			PR1025			VP20MF	WTA41	PC8115
		IC830			PR630	GC4125				
	PS5125		CP500		PR660					PC3545
M	PS7110S	IC808	CP200			GC1005		MP9005		
	PS7220S	IC907			PR915	GC1105	KC5010	VP10RT	WSM10S	PC8110
			CP250				KC5510		WSM20S	PC8115
	PS7120				PR930	GC1020				
		IC3028					KC5025	VP15TF	WSM30S	PC5300
		IC830		TT5030	PR1125	GC1025	KC5525	VP20MF	WSM40S	
					PR630	GC4125				PC9030
	PS5125		CP500	TT8020	PR660	GC2035				PC5400
S										
	PS7110S	IC808	TS2000					VP05RT	WSM10	PC8105
		IC907			PR915	GC1105				
			CP500				KC5010	VP10RT	WSM20	PC8110
	PS7120									PC8115
	PS7220S	IC328	TS2500	TT5030	PR660	GC1025		VP15TF	WSM30	
					PR1325	GC2035	KC5025			PC5300
									PC5400	

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GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

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GROOVING

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MILLING

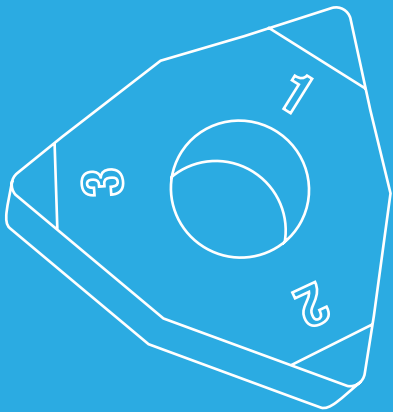
DRILLING

ENDMILLS

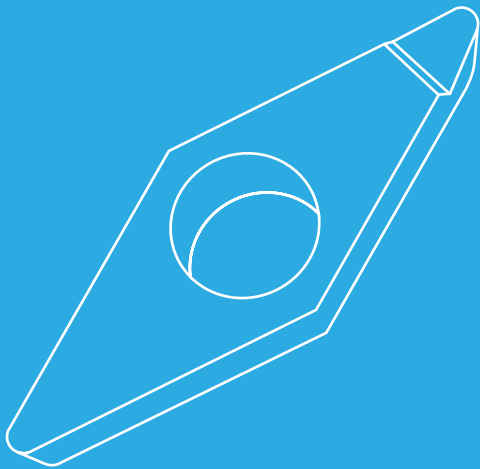
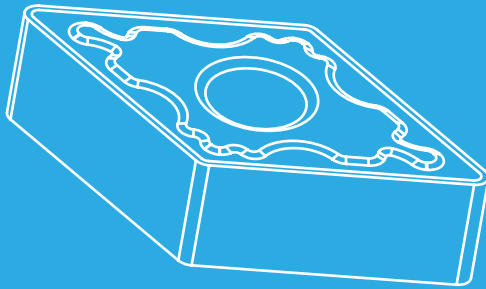
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TURNING / PCBN



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DRILLING

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SPARE PARTS

INDEX

C	C	G	W	12	04	08
1	2	3	4	5	6	7

1 Geometry

C		80
D		55
R		360
S		90
T		60
V		35
W		80

2 Clearance Angle

B		5°
C		7°
P		11°
N		0°

3 Tolerance

G	±0,025	±0,13
M	±0,05 ±0,15	±0,13
U	±0,08 ±0,25	±0,13

4 Shape

A	
G	
M	
W	
X	Special

5 Shape (mm)

C	06 09 12 16 19 25	
D	07 11 15	
R	06 09 12 15 19 25	
S	09 12 15 19 25	
T	09 11 16 22	
V	11 16 22	
W	06 08	

6 Thickness (mm)

02	2,38
03	3,18
T3	3,97
04	4,76
06	6,35
07	7,94
09	9,52
10	10,00

7 Corner Radius

02	0,20 mm
04	0,40 mm
08	0,80 mm
12	1,20 mm
16	1,60 mm
24	2,40 mm

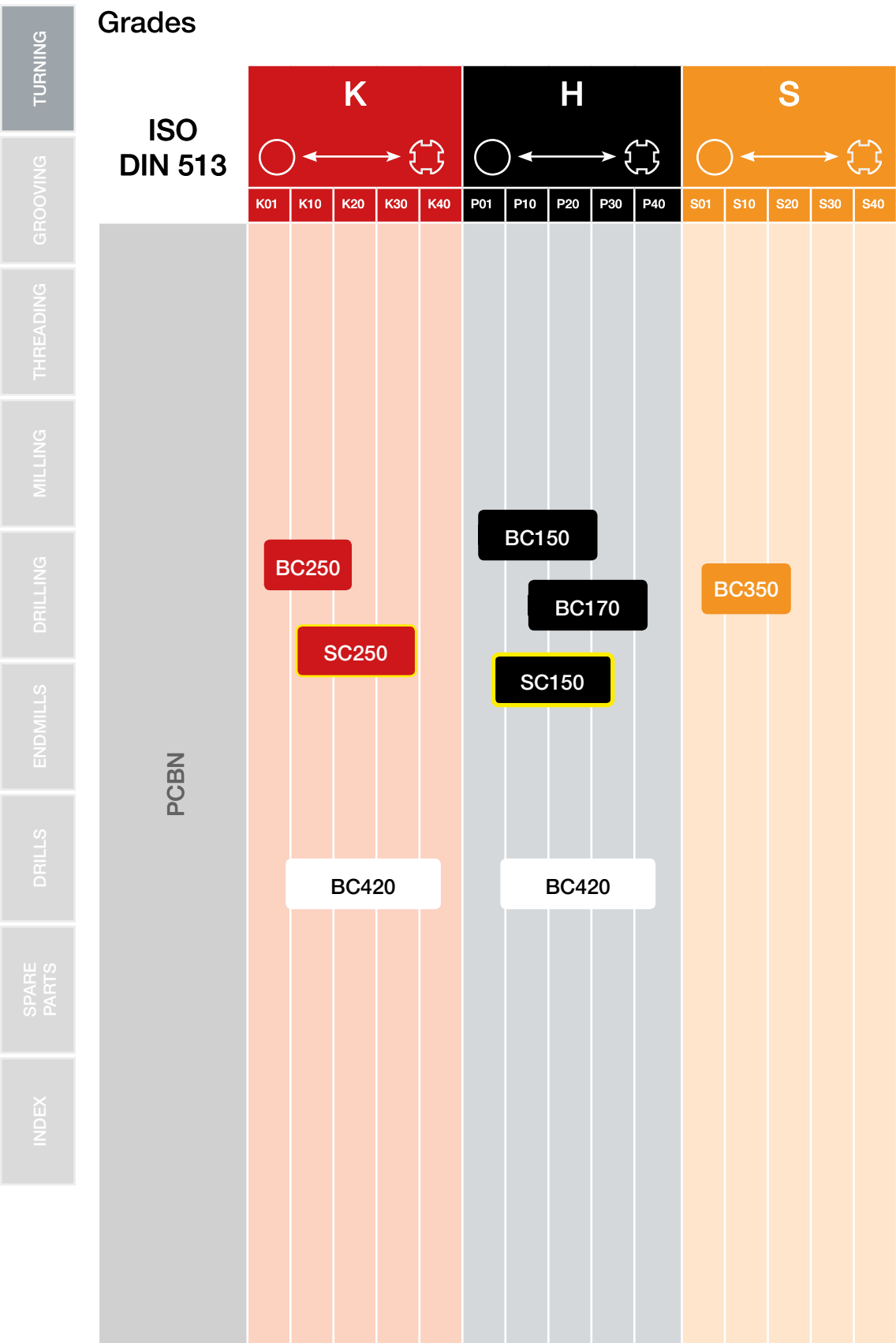
4C
8

BC	420
9	10

8	Number of Edges
1C	1 Corner
2C	2 Corners
3C	3 Corners
4C	4 Corners
6C	6 Corners
8C	8 Corners
FF	Full Face
SO	Solid PcBN

9	
BC	PCBN
SC	TiN Coating PCBN

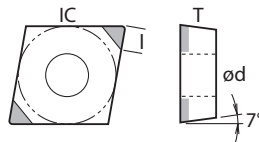
10	Application
1	Hardened Steel
2	Cast Iron
3	Super Alloy
4	Universal



TURNING

POSITIVE 7°
with hole

CC□□



CC □□	0602 □□	09T3 □□	1204 □□
IC	6,35	9,525	12,7
T	2,38	3,97	4,76
ød	2,80	4,40	5,50
	126	126	126

DESCRIPTION	EDGE	PCBN							
		BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	CCGW060202	1C	•			•	•		•
	CCGW060204	1C	•	•	•	•	•	•	•
	CCGW060208	1C		•		•	•		•
	CCGW09T302	1C	•			•	•		•
	CCGW09T304	1C	•	•	•	•	•	•	•
	CCGW09T308	1C		•		•	•		•
	CCGW120404	1C	•	•	•	•	•		•
	CCGW120408	1C		•		•	•	•	•
	CCGW060202	2C	•			•	•		•
	CCGW060204	2C	•	•	•	•	•	•	•
	CCGW060208	2C		•		•	•		•
	CCGW09T302	2C	•			•	•		•
	CCGW09T304	2C	•	•	•	•	•	•	•
	CCGW09T308	2C		•		•	•		•
	CCGW120404	2C	•	•	•	•	•		•
	CCGW120408	2C		•		•	•	•	•

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MILLING

DRILLING

ENDMILLS

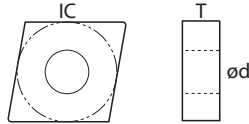
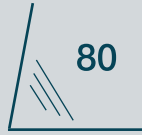
DRILLS

SPARE PARTS

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NEGATIVE
with hole

CN□□



CN □□ 1204 □□

IC 12,7

T 4,76

ød 5,16

Holder 131

DESCRIPTION	EDGE	PCBN							
		BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	CNGA120404	•							•
	CNGA120408	•	•	•	•	•	•	•	•
	CNGA120412				•	•			•
	CNGA120404	•							•
	CNGA120408	•	•	•	•	•	•	•	•
	CNGA120412				•	•			•
	CNGA120404	•							•
	CNGA120408	•	•	•	•	•	•	•	•
	CNGA120412				•	•			•

Vc • fn • ap

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

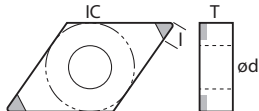
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

DN□□



DN □□	1504 □□	1506 □□
IC	12,7	12,7
T	4,76	6,35
ød	5,16	5,16
Holder	149	149

DESCRIPTION	EDGE	PCBN							
		BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	DNGA150404	1C	•						•
	DNGA150408	1C	•	•	•	•	•	•	•
	DNGA150604	1C	•						•
	DNGA150608	1C	•	•	•	•	•	•	•
	DNGA150612	1C		•	•	•	•		•
	DNGA150404	2C	•						•
	DNGA150408	2C	•	•	•	•	•	•	•
	DNGA150604	2C	•						•
	DNGA150608	2C	•	•	•	•	•	•	•
	DNGA150612	2C		•	•	•	•		•
	DNGA150404	4C	•						•
	DNGA150408	4C	•	•	•	•	•	•	•
	DNGA150604	4C	•						•
	DNGA150608	4C	•	•	•	•	•	•	•
	DNGA150612	4C		•	•	•	•		•

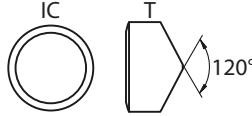
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TURNING

POSITIVE 7°
without hole

RC□□



RC □□	0603 □□	0903 □□	1204 □□
IC	6,35	9,525	12,7
T	3,18	3,18	4,76
Ød	-	-	-

DESCRIPTION		EDGE	PCBN							
			BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	RCGX060300	FF	•	•						•
	RCGX090300	FF	•	•						•
	RCGX120400	FF	•	•						•

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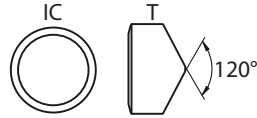
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POSITIVE 7°
without hole

RC□□



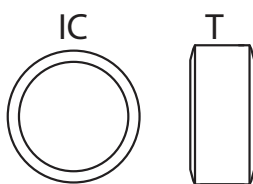
RC □□	0603 □□	0903 □□	1204 □□
IC	6,35	9,525	12,7
T	3,18	3,18	4,76
Ød	-	-	-
Holder			

DESCRIPTION	EDGE	PCBN								
		BC150	BC170	SC150	BC250	SC250	BC350	BC420		
	RCGX060300	SO								•
	RCGX090300	SO								•
	RCGX120400	SO								•

TURNING

NEGATIVE
without hole

RN



RN 	0603 	0903 	1204
IC	6,35	9,525	12,70
T	3,18	3,18	4,76
∅d	-	-	-

DESCRIPTION		EDGE	PCBN						
			BC150	BC170	SC150	BC250	SC250	BC350	BC420
	RNGN060300	SO							•
	RNGN090300	SO							•
	RNGN120400	SO							•

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ENDMILLS

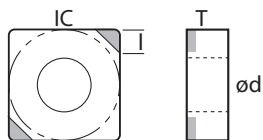
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NEGATIVE
with hole

SN □ □



SN □ □ 1204 □ □

IC 12,7

T 4,76

ød 5,16

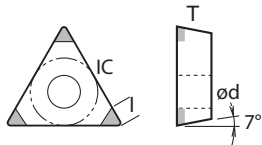
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DESCRIPTION	EDGE	PCBN						
		BC150	BC170	SC150	BC250	SC250	BC350	BC420
 SNGA120404 SNGA120408 SNGA120412	1C	●						●
	1C	●	●					●
	1C		●					●
 SNGA120404 SNGA120408 SNGA120412	2C	●						●
	2C	●	●					●
	2C		●					●
 SNGA120404 SNGA120408 SNGA120412	4C	●						●
	4C	●	●					●
	4C		●					●
 SNGA120404 SNGA120408 SNGA120412	8C	●						●
	8C	●	●					●
	8C		●					●

TURNING

POSITIVE 7°
with hole

TC □ □



TC □ □	0902 □ □	1102 □ □	16T3 □ □
IC	5,56	6,35	9,525
T	2,38	2,38	3,97
ϕd	2,50	2,80	4,40
Holder	171	171	171

DESCRIPTION		EDGE	PCBN							
			BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	TCGW090202	1C	•							•
	TCGW090204	1C	•	•	•	•	•			•
	TCGW110202	1C	•					•		•
	TCGW110204	1C	•	•	•	•	•			•
	TCGW110208	1C		•						•
	TCGW16T304	1C	•							•
	TCGW16T308	1C	•	•					•	•
	TCGW090202	3C	•							•
	TCGW090204	3C	•	•	•	•	•			•
	TCGW110202	3C	•					•		•
	TCGW110204	3C	•	•	•	•	•			•
	TCGW110208	3C		•						•
	TCGW16T304	3C	•							•
	TCGW16T308	3C	•	•					•	•

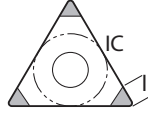
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NEGATIVE with hole

TN □ □



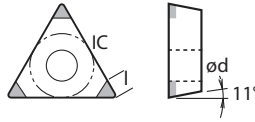
TN □ □	1604 □ □
IC	9,525
T	4,76
ød	3,81
Holder	178

DESCRIPTION		EDGE	PCBN							
			BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	TNGA160404	1C	•							•
	TNGA160408	1C	•	•	•	•	•	•	•	•
	TNGA160412	1C				•	•			•
	TNGA160404	3C	•							•
	TNGA160408	3C	•	•	•	•	•	•	•	•
	TNGA160412	3C				•	•			•

TURNING

**POSITIVE 11°
with hole**

TP □□



TP □□	0802□□	0902□□	1103□□
IC	4,76	5,56	6,35
T	2,38	2,38	3,18
Ød	2,30	3,00	3,40
Holder			

DESCRIPTION		EDGE	PCBN							
			BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	TPGW080202	1C	•							•
	TPGW080204	1C	•	•	•					•
	TPGW090202	1C	•							•
	TPGW090204	1C	•	•	•					•
	TPGW110302	1C	•							•
	TPGW110304	1C	•	•	•	•				•
	TPGW110308	1C		•	•	•				•
	TPGW080202	3C	•							•
	TPGW080204	3C	•	•	•					•
	TPGW090202	3C	•							•
	TPGW090204	3C	•	•	•					•
	TPGW110302	3C	•							•
	TPGW110304	3C	•	•	•	•				•
	TPGW110308	3C		•	•	•				•

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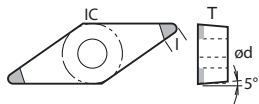
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POSITIVE 5°
with hole

VB □□



VB □□	1103 □□	1604 □□
IC	6,35	9,525
T	3,18	4,76
Ød	2,80	4,40
Holder	183	183

DESCRIPTION	EDGE	PCBN							
		BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	VBGW110302	1C	•						•
	VBGW110304	1C	•	•	•	•			•
	VBGW160402	1C	•			•		•	•
	VBGW160404	1C	•	•	•				•
	VBGW160408	1C	•						•
	VBGW110302	2C	•						•
	VBGW110304	2C	•	•	•	•			•
	VBGW160402	2C	•			•		•	•
	VBGW160404	2C	•	•	•				•
	VBGW160408	2C	•						•

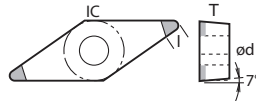
Vc • fn • ap

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TURNING

POSITIVE 7°
with hole

VC □□



VC □□	1103 □□	1604 □□
IC	6,35	9,525
T	3,18	4,76
ød	2,80	4,40
Holder	189	189

DESCRIPTION	EDGE	PCBN							
		BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	VCGW110302	1C	•						•
	VCGW110304	1C	•	•	•	•			•
	VCGW160404	1C	•			•		•	•
	VCGW160408	1C	•	•	•				•
	VCGW110302	2C	•						•
	VCGW110304	2C	•	•	•	•			•
	VCGW160404	2C	•			•		•	•
	VCGW160408	2C	•	•	•				•

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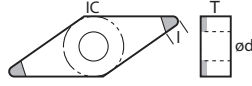
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**NEGATIVE
with hole**

VN □□



VN □□ 1604 □□

IC 9,525

T 4,76

ød 3,81

Holder ▶ 191

DESCRIPTION	EDGE	PCBN							
		BC150	BC170	SC150	BC250	SC250	BC350	BC420	
	VNKA160404	1C	•						•
	VNKA160408	1C	•	•	•	•	•	•	•
	VNKA160404	2C	•						•
	VNKA160408	2C	•	•	•	•	•	•	•
	VNKA160404	4C	•						•
	VNKA160408	4C	•	•	•	•	•	•	•

TURNING

NEGATIVE
with hole

WN

□ □

80

WN □ □	0604 □ □	0804 □ □
IC	9,525	12,7
T	4,76	4,76
ød	3,81	5,16
Holder	194	194

DESCRIPTION		EDGE	PCBN						
			BC150	BC170	SC150	BC250	SC250	BC350	BC420
	WNGA060404	1C	•						•
	WNGA060408	1C	•						•
	WNGA080404	1C	•						•
	WNGA080408	1C	•	•		•		•	•
	WNGA080412	1C		•					•
	WNGA060404	3C	•						•
	WNGA060408	3C	•						•
	WNGA080404	3C	•						•
	WNGA080408	3C	•	•		•		•	•
	WNGA080412	3C		•					•
	WNGA080404	6C	•						•
	WNGA080408	6C	•	•		•		•	•
	WNGA080412	6C		•					•

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

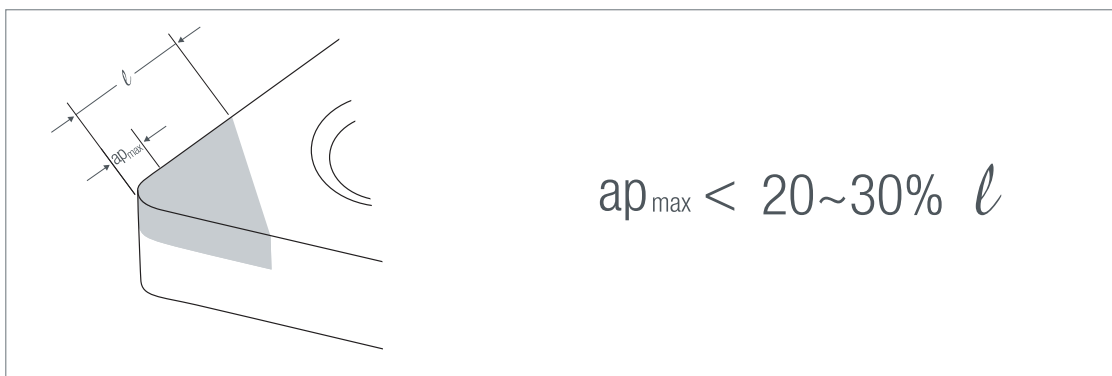
INDEX

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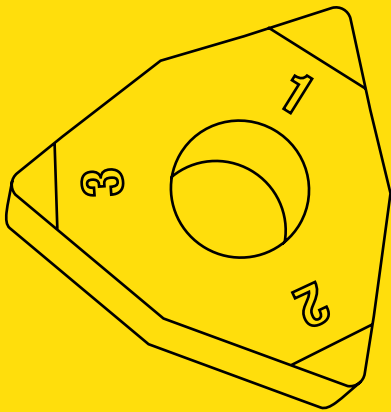
Cutting Parameters

KG	GREY CAST IRON
KN	NODULAR CAST IRON
KW	WHITE CAST IRON
KS	SINTERED MATERIAL

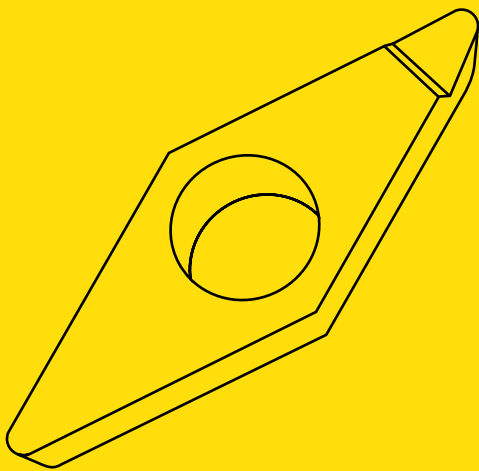
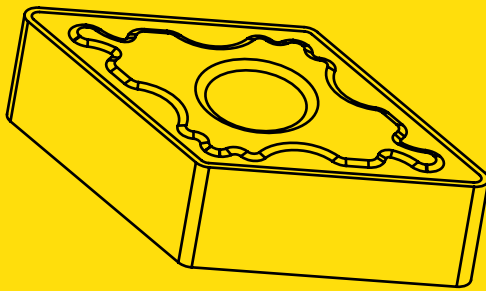
HH	HARDENED STEEL
HC	CASE HARDENED STEEL
HB	BEARING STEEL
SA	SUPER ALLOYS (Ni Based)



MATERIAL		ap (mm)	fn (mm/rev)	CUTTING CONDITION		PCBN						
						BC150	BC170	SC150	BC250	SC250	BC350	BC420
H	HH	0,05-0,25	0,05-0,20	○	☹	120-250	100-230	100-200				100-220
				⊕	☹			80-180				80-180
	HC	0,05-0,25	0,08-0,25	○	☹			100-180				100-200
				⊕	☹			80-160				80-160
	HB	0,05-0,25	0,05-0,20	○	☹	120-220	100-200	100-180				100-200
				⊕	☹			80-150				90-150
K	KG	0,10-0,50	0,10-0,30	○	☹					400-1000		400-1200
				⊕	☹					400-800		400-1000
	KN	0,10-0,30	0,05-0,20	○	☹				250-400			250-500
				⊕	☹				150-300			200-400
	KW	0,10-0,30	0,10-0,30	○	☹					60-100		60-120
				⊕	☹					50-80		50-100
	KS	0,05-0,20	0,05-0,25	○	☹				160-250	160-250		160-280
				⊕	☹							120-220
S	SA	0,05-0,20	0,10-0,20	○	☹						120-300	



TURNING / diamond



D**C****G****W****11****T3****04**

1

2

3

4

5

6

7

1 Geometry

C		80
D		55
R		360
S		90
T		60
V		35
W		80

2 Clearance Angle

B		5°
C		7°
P		11°
N		0°

3 Tolerance

G	±0,025	±0,13
M	±0,05 ±0,15	±0,13
U	±0,08 ±0,25	±0,13

4 Shape

A	
G	
M	
W	
X	Special

5 Shape (mm)

C	06 09 12 16 19 25	
D	07 11 15	
R	06 09 12 15 19 25	
S	09 12 15 19 25	
T	09 11 16 22	
V	11 16 22	
W	06 08	

6 Thickness (mm)

02	2,38
03	3,18
T3	3,97
04	4,76
06	6,35
07	7,94
09	9,52
10	10,00

7 Corner Radius

02	0,20 mm
04	0,40 mm
08	0,80 mm
12	1,20 mm
16	1,60 mm
24	2,40 mm

1C
8

PC	150
9	10

8	Number of Edges
1C	1 Corner
2C	2 Corners
3C	3 Corners
FE	Full Edge

9	
PC	PCD

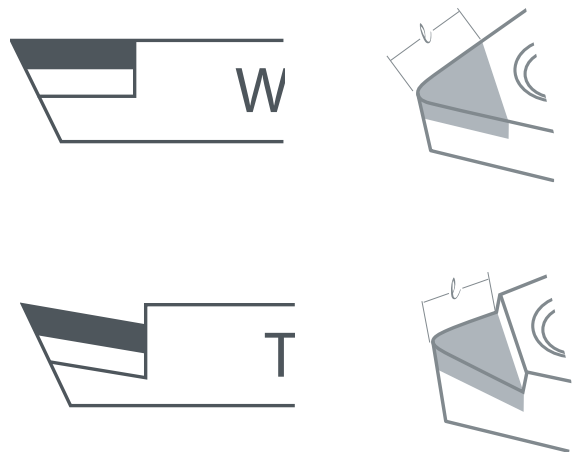
10	Application
1	Non - Ferrous Metal
3	

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Grades	ISO DIN 513				
	N01	N10	N20	N30	N40
TURNING	N				
GROOVING					
THREADING			PC100		
MILLING		PC150			
DRILLING		PC200			
ENDMILLS	PCD	PC300			
DRILLS					
SPARE PARTS					
INDEX					

CUTTING EDGE STYLE

POSITIVE INSERTS

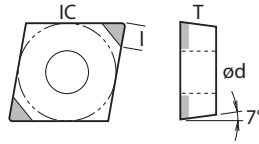


NEGATIVE INSERTS



**POSITIVE 7°
with hole**

CC□□



CC □□	0602 □□	09T3 □□	1204 □□
IC	6,35	9,525	12,7
T	2,38	3,97	4,76
Ød	2,80	4,40	5,50
Holder	126	126	126

DESCRIPTION	EDGE	Image	PCD						
			PC100	PC150	PC200	PC300			
	CCGT060202	1C			•	•	•		
	CCGT060204	1C		•	•	•	•		
	CCGT060208	1C		•	•		•		
	CCGT09T302	1C		•	•	•	•		
	CCGT09T304	1C		•	•	•	•		
	CCGT09T308	1C		•	•		•		
	CCGT120404	1C		•	•	•	•		
	CCGT120408	1C		•	•		•		
	CCGT09T302	2C			•	•	•		
	CCGT09T304	2C		•	•	•	•		
	CCGT09T308	2C		•	•		•		
	CCGT120404	2C		•	•	•	•		
	CCGT120408	2C		•	•		•		
	CCGW060202	1C			•	•	•		
	CCGW060204	1C		•	•	•	•		
	CCGW060208	1C		•	•		•		
	CCGW09T302	1C		•	•	•	•		
	CCGW09T304	1C		•	•	•	•		
	CCGW09T308	1C		•	•		•		
	CCGW120404	1C		•	•	•	•		
	CCGW120408	1C		•	•		•		
	CCGW09T302	2C			•	•	•		
	CCGW09T304	2C		•	•	•	•		
	CCGW09T308	2C		•	•		•		
	CCGW120404	2C		•	•	•	•		
	CCGW120408	2C		•	•		•		
	CCGX060204R/L	FE			•		•		
	CCGX09T304R/L	FE		•			•		

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TURNING
GROOVING
THREADING
MILLING
DRILLING
ENDMILLS
DRILLS
SPARE PARTS
INDEX

diamond

TURNING

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

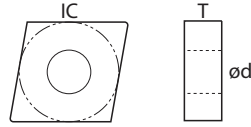
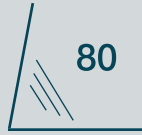
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

CN □ □

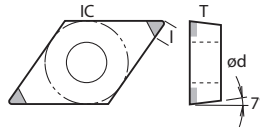


CN □ □	1204 □ □
IC	12,7
T	4,76
ød	5,16
Holder	131

DESCRIPTION		EDGE	Image	PCD					
				PC100	PC150	PC200	PC300		
	CNGA120404	1C			•	•	•		
	CNGA120408	1C		•	•		•		
	CNGA120404	2C		•	•	•	•		
	CNGA120408	2C		•	•		•		

**POSITIVE 7°
with hole**

DC□□



DC □□	0702 □□	11T3 □□
IC	6,35	9,525
T	2,38	3,97
Ød	2,80	4,40
Holder	139	139

PCD

DESCRIPTION	EDGE	Image	PCD					
			PC100	PC150	PC200	PC300		
	DCGT070202	1C		•	•	•		
	DCGT070204	1C	•	•	•	•		
	DCGT070208	1C	•	•		•		
	DCGT11T302	1C		•	•	•	•	
	DCGT11T304	1C		•	•	•	•	
	DCGT11T308	1C		•	•		•	
	DCGT11T302	2C		•	•	•		
	DCGT11T304	2C	•	•	•	•		
	DCGT11T308	2C	•	•		•		
	DCGW070202	1C		•	•	•		
	DCGW070204	1C	•	•	•	•		
	DCGW070208	1C	•	•		•		
	DCGW11T302	1C		•	•	•	•	
	DCGW11T304	1C		•	•	•	•	
	DCGW11T308	1C		•	•		•	
	DCGW11T302	2C		•	•	•		
	DCGW11T304	2C	•	•	•	•		
	DCGW11T308	2C	•	•		•		
	DCGX070204R/L	FE		•		•		
	DCGX11T304R/L	FE		•		•		

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- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

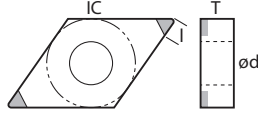
DRILLS

SPARE PARTS

INDEX

**NEGATIVE
with hole**

DN □ □



DN □ □	1504 □ □	1506 □ □
IC	12,7	12,7
T	4,76	6,35
ød	5,16	5,16
Holder	149	149

PCD

DESCRIPTION

EDGE



PC100

PC150

PC200

PC300

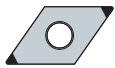


DNGA150604

1C

DNGA150608

1C



DNGA150604

2C

DNGA150608

2C

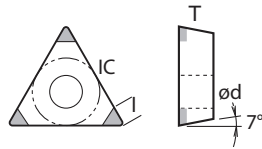


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POSITIVE 7°
with hole

TC □□



TC □□	0902□□	1102□□	16T3□□
IC	5,56	6,35	9,525
T	2,38	2,38	3,97
Ød	2,50	2,80	4,40
Holder	171	171	171

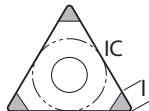
DESCRIPTION	EDGE	Image	PCD					
			PC100	PC150	PC200	PC300		
	TCGT090202	1C		•	•	•		
	TCGT090204	1C	•	•	•	•		
	TCGT110202	1C		•	•	•		
	TCGT110204	1C	•	•	•	•		
	TCGT110208	1C	•	•		•		
	TCGT16T304	1C	•	•	•	•		
	TCGT16T308	1C	•	•		•		
	TCGT16T304	3C	•	•	•	•		
	TCGT16T308	3C	•	•		•		
	TCGW090202	1C		•	•	•		
	TCGW090204	1C	•	•	•	•		
	TCGW110202	1C		•	•	•		
	TCGW110204	1C	•	•	•	•		
	TCGW110208	1C	•	•		•		
	TCGW16T304	1C	•	•	•	•		
	TCGW16T308	1C	•	•		•		
	TCGW16T304	3C	•	•	•	•		
	TCGW16T308	3C	•	•		•		
	TCGX090204R/L	FE		•		•		
	TCGX110204R/L	FE		•		•		
	TCGX16T304R/L	FE		•		•		

Vc • fn • ap 93

TURNING

NEGATIVE
with hole

TN□□



TN□□	1604□□
IC	9,525
T	4,76
ød	3,81
Holder	▶ 178

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS


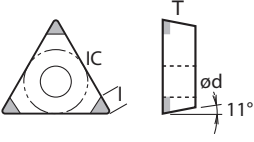
INDEX

PCD

DESCRIPTION	EDGE		PCD					
			PC100	PC150	PC200	PC300		
TNGA160404	1C			•	•	•		
TNGA160408	1C		•	•		•		
TNGA160404	3C			•	•	•		
TNGA160408	3C		•	•		•		
TNGA160404	6C			•	•	•		
TNGA160408	6C		•	•		•		

POSITIVE 11° with hole

TP □ □

TP □ □	0802 □ □	0902 □ □	1103 □ □
IC	4,76	5,56	6,35
T	2,38	2,38	3,18
ød	2,30	3,00	3,40
Holder	177	177	177

DESCRIPTION	EDGE	Image	PCD				
			PC100	PC150	PC200	PC300	
 TPGT080202 TPGT080204 TPGT090202 TPGT090204 TPGT110302 TPGT110304	1C			•	•	•	
	1C			•	•	•	
	1C			•	•	•	
	1C			•	•	•	
	1C				•	•	•
	1C			•	•	•	•
 TPGW080202 TPGW080204 TPGW090202 TPGW090204 TPGW110302 TPGW110304	1C			•	•	•	
	1C			•	•	•	
	1C			•	•	•	
	1C			•	•	•	
	1C				•	•	•
	1C			•	•	•	•

- TURNING
- GROOVING
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- DRILLING
- ENDMILLS
- DRILLS
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- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

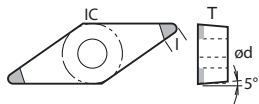
DRILLS

SPARE PARTS

INDEX

**POSITIVE 5°
with hole**

VB □□



VB □□	1103 □□	1604 □□
IC	6,35	9,525
T	3,18	4,76
ød	2,80	4,40
Holder	183	183

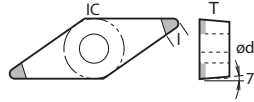
DESCRIPTION	EDGE	Image	PCD					
			PC100	PC150	PC200	PC300		
 VBGT110302 VBGT110304 VBGT160402 VBGT160404 VBGT160408	1C			•	•	•		
	1C		•	•	•	•		
	1C		•	•	•	•		
	1C		•	•	•	•		
	1C		•	•	•	•		
 VBGT110302 VBGT110304 VBGT160402 VBGT160404 VBGT160408	2C			•	•	•		
	2C		•	•	•	•		
	2C		•	•	•	•		
	2C		•	•	•	•		
	2C		•	•	•	•		
 VBGW110302 VBGW110304 VBGW160402 VBGW160404 VBGW160408	1C			•	•	•		
	1C		•	•	•	•		
	1C		•	•	•	•		
	1C		•	•	•	•		
	1C		•	•	•	•		
 VBGW110302 VBGW110304 VBGW160402 VBGW160404 VBGW160408	2C			•	•	•		
	2C		•	•	•	•		
	2C		•	•	•	•		
	2C		•	•	•	•		
	2C		•	•	•	•		

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POSITIVE 7°
with hole

VC □ □



VC □ □	1103 □ □	1604 □ □
IC	6,35	9,525
T	3,18	4,76
Ød	2,80	4,40
Holder	189	189

DESCRIPTION	EDGE	Image	PCD					
			PC100	PC150	PC200	PC300		
	VCGT110302	1C		•	•	•		
	VCGT110304	1C	•	•	•	•		
	VCGT160402	1C		•	•	•		
	VCGT160404	1C	•	•	•	•		
	VCGT160408	1C	•	•		•		
	VCGT110302	2C		•	•	•		
	VCGT110304	2C	•	•	•	•		
	VCGT160402	2C		•	•	•		
	VCGT160404	2C	•	•	•	•		
	VCGT160408	2C	•	•		•		
	VCGW110302	1C		•	•	•		
	VCGW110304	1C	•	•	•	•		
	VCGW160402	1C		•	•	•		
	VCGW160404	1C	•	•	•	•		
	VCGW160408	1C	•	•		•		
	VCGW110302	2C		•	•	•		
	VCGW110304	2C	•	•	•	•		
	VCGW160402	2C		•	•	•		
	VCGW160404	2C	•	•	•	•		
	VCGW160408	2C	•	•		•		
	VCGX110304R/L	FE		•		•		
	VCGX160404R/L	FE		•		•		

Vc • fn • ap

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

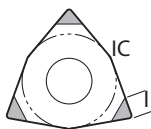
DRILLS

SPARE PARTS

INDEX

**NEGATIVE
with hole**

WN□□



WN □□	0604□□	0804□□
IC	9,525	12,7
T	4,76	4,76
ød	3,81	5,16
Holder	194	194

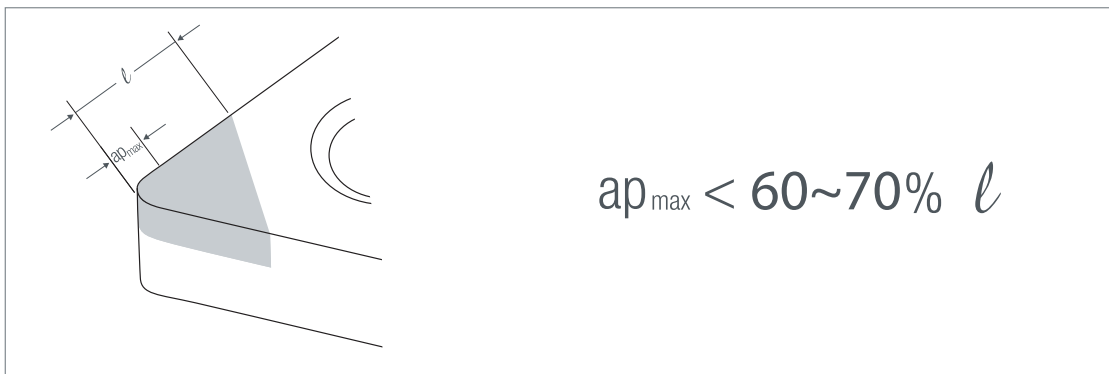
DESCRIPTION		EDGE		PCD					
				PC100	PC150	PC200	PC300		
	WNGA060404	1C			•	•	•		
	WNGA080404	1C		•	•		•		
	WNGA080408	1C		•	•		•		
	WNGA080404	3C		•	•	•	•		
	WNGA080408	3C		•	•		•		
	WNGA080404	6C		•	•	•	•		
	WNGA080408	6C		•	•		•		

TURNING

Cutting Parameters

NA	ALUMINIUM ALLOYS
NS	ALUMINIUM ALLOYS (Si≤15%)
NH	AL ALLOYS AGED AND HARDENED
NB	BRASS

NC	BRONZE AND ELECTROLYTIC COPPER
NG	GRAPHITE
HM	HARD METAL (Co≤16%)
ST	TITANIUM ALLOYS



MATERIAL	ap (mm)	fn (mm/rev)	CUTTING CONDITION	PCD							
				PC100	PC150	PC200	PC300				
N	NA	0,10~1,00	0,08~0,25	○ ⊕ ♪		600-2500		600-2500			
		1,00~2,50	0,15~0,50	○ ⊕ ♪		600-1600		600-1600			
	NS	0,10~1,00	0,05~0,20	○ ⊕ ♪			500-1800				
		1,00~2,50	0,08~0,35	○ ⊕ ♪			500-1200				
	NH	0,10~1,00	0,05~0,35	○ ⊕ ♪			400-1000				
		1,00~2,50	0,08~0,35	○ ⊕ ♪			400-800				
	NB	0,10~1,00	0,10~0,30	○ ⊕ ♪	400-1200	400-1200		400-1200			
		1,00~2,50	0,15~0,25	○ ⊕ ♪	400-1000	400-1000		400-1000			
	NC	0,10~1,00	0,10~0,30	○ ⊕ ♪	300-800	300-800		300-800			
		1,00~2,50	0,15~0,25	○ ⊕ ♪	300-500	300-500		300-500			
NG	0,10~1,00	0,08~0,25	○ ⊕ ♪		300-800	300-800	300-800				
	1,00~2,50	0,15~0,50	○ ⊕ ♪		300-600	300-600	300-600				
H	HM	0,10~0,50	0,08~0,25	○ ♪			10-40				
S	ST	0,10~1,00	0,05~0,20	○ ⊕ ♪	100-200	100-200	100-220	100-200			
		1,00~2,50	0,08~0,20	○ ⊕ ♪	100-150	100-150	100-220	100-150			

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

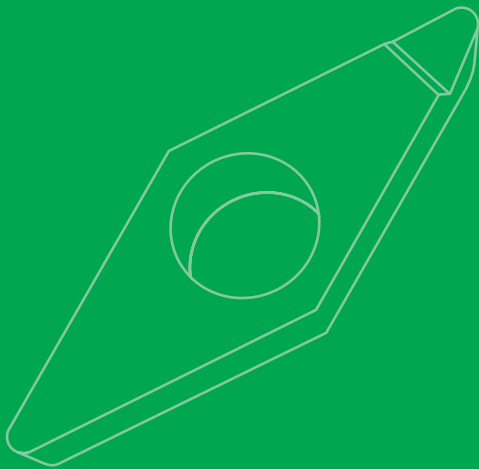
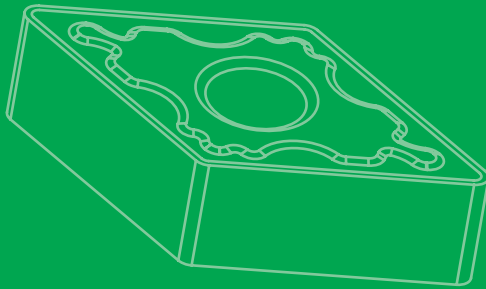
DRILLS

SPARE PARTS

INDEX



TURNING / ceramic



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS



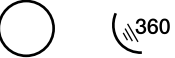




DRILLS

SPARE PARTS

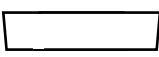
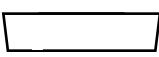
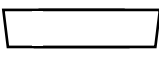
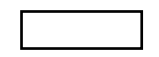
INDEX

C	N	G	A	12	04	08
1	2	3	4	5	6	7



1 Geometry

C		80
D		55
R		360
S		90
T		60
V		35
W		80

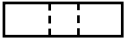
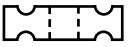


2 Clearance Angle

B		5°
C		7°
P		11°
N		0°








3 Tolerance

		
G	±0,025	±0,13
M	±0,05 ±0,15	±0,13
U	±0,08 ±0,25	±0,13

4 Shape

A	
G	
M	
T	
X	Special

5 Shape (mm)

C	06 09 12 16 19 25	
D	07 11 15	
R	06 09 12 15 19 25	
S	09 12 15 19 25	
T	09 11 16 22	
V	11 16 22	
W	06 08	

6 Thickness (mm)

02	2,38
03	3,18
T3	3,97
04	4,76
06	6,35
07	7,94
09	9,52
10	10,00

7 Corner Radius

02	0,20 mm
04	0,40 mm
08	0,80 mm
12	1,20 mm
16	1,60 mm
24	2,40 mm

T	04	00	0	KS	81	50
8	9	10	11	12	13	14

8 Chamfer

T	Mono 20° Chamfer
K	Mono 30° Chamfer
D	Double 10° Chamfer
S	Double 15° Chamfer
AD	After Double 10° Chamfer
AS	After Double 15° Chamfer

9 Chamfer Width 1

01	0,05 mm
02	0,10 mm
03	0,15 mm
04	0,20 mm
05	1,00 mm
06	2,00 mm
10	1,20 mm
20	1,50 mm
30	0,75 mm
40	1,25 mm

10 Cf Width 2 x Degree

00	Mono type
01	0,20 x 25
02	0,10 x 30
03	0,20 x 30
04	0,15 x 30
05	0,45 x 25

11 Honing (µm)

0	No Honing
1	10
2	20
3	30
5	50

12 Grade

KS	$Al_2O_3 + TiC(N)$
KSC	$Al_2O_3 + TiC(N) + TiN$
KZ	$Al_2O_3 + ZrO_2$
KN	Si_3N_4
KA	$TiC + Al_2O_3$
KL	SiAlON
KW	Whisker

13 Workpiece

41	Cast Iron
71	Inconel & High Temp. Alloy
81	Hardened Steel

14 Application

10	
20	
30	
40	
50	
60	
70	

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Grades

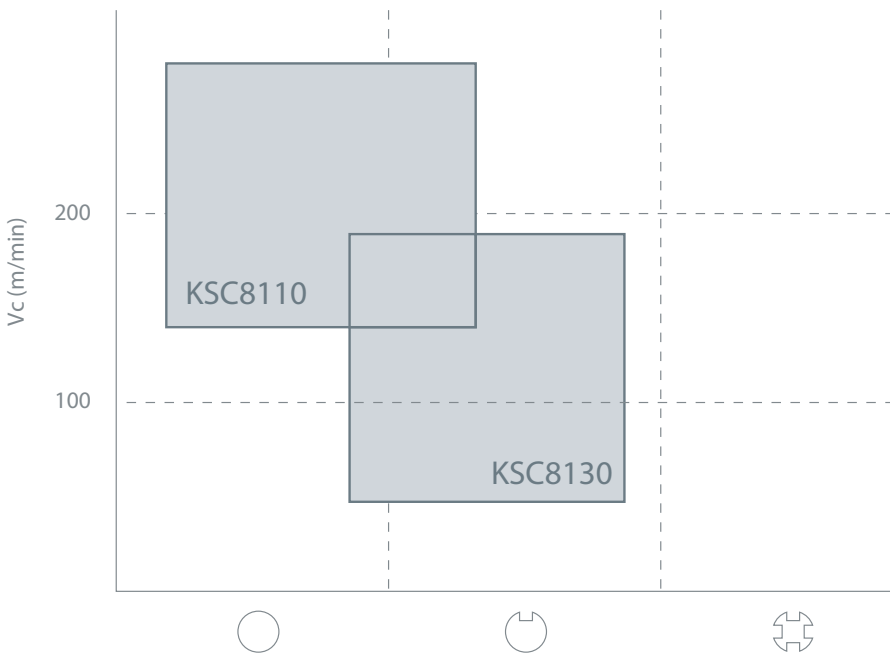
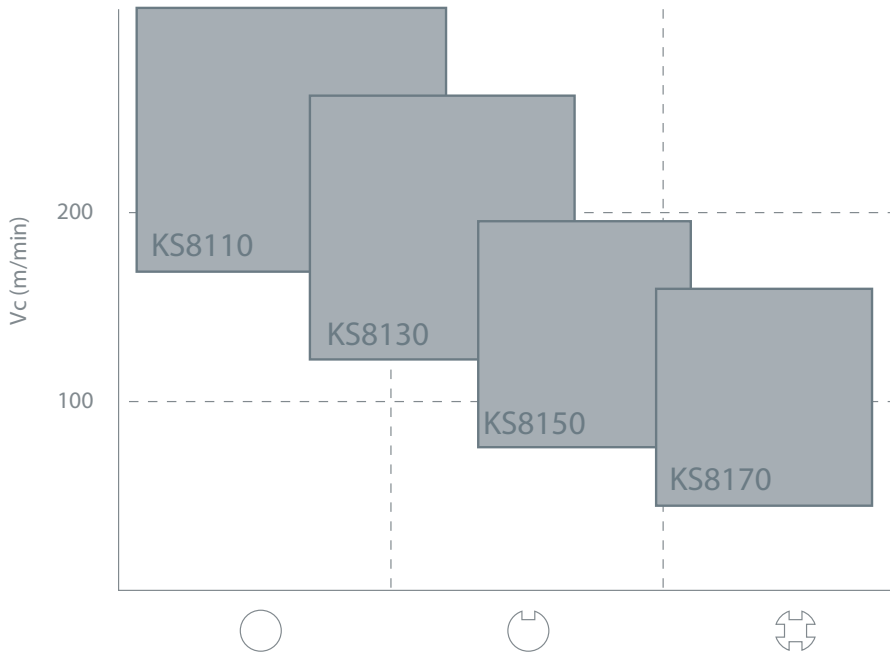
ISO DIN 513	K					H					S				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40
$Al_2O_3 + TiC(N)$						KS8110									
						KS8130									
						KS8150									
						KS8170									
$Al_2O_3 + TiC(N)$ PVD						KSC8110									
						KSC8130									
$Al_2O_3 + ZrO_2$	KZ4120														
	KZ4130														
Si_3N_4	KN4110														
	KN4120														
	KN4130														
	KN4140														
	KN4150														
TiC + Al_2O_3	KA4110														
SiAlON											KL7110				
											KL7120				
Whisker											KW7110				
											KW7120				

COATED

TURNING

Range ISO **H**

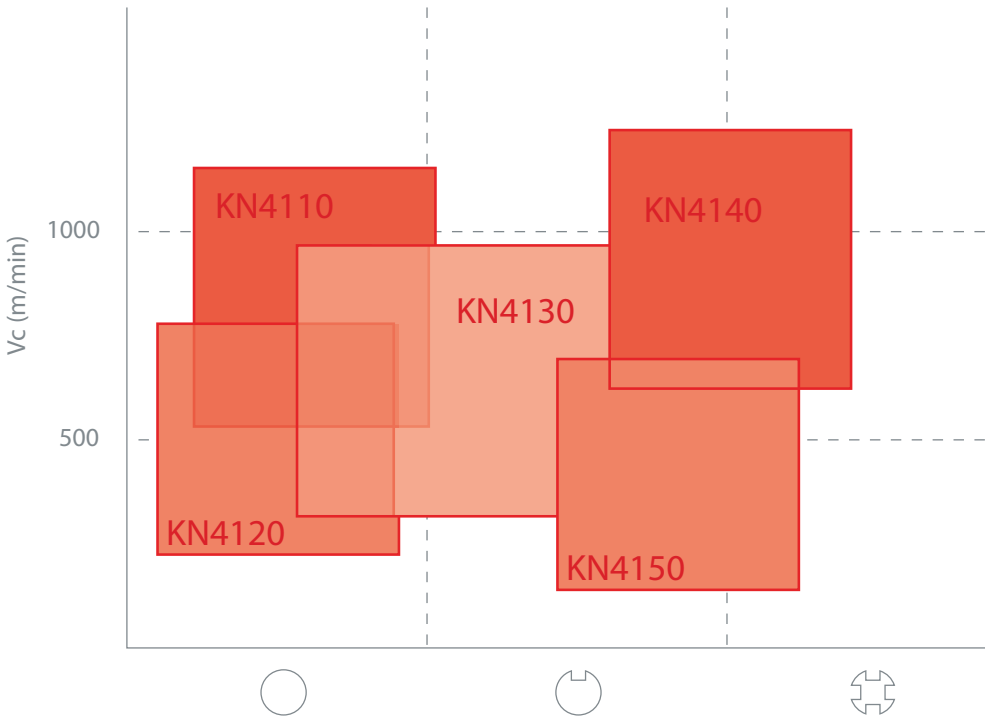
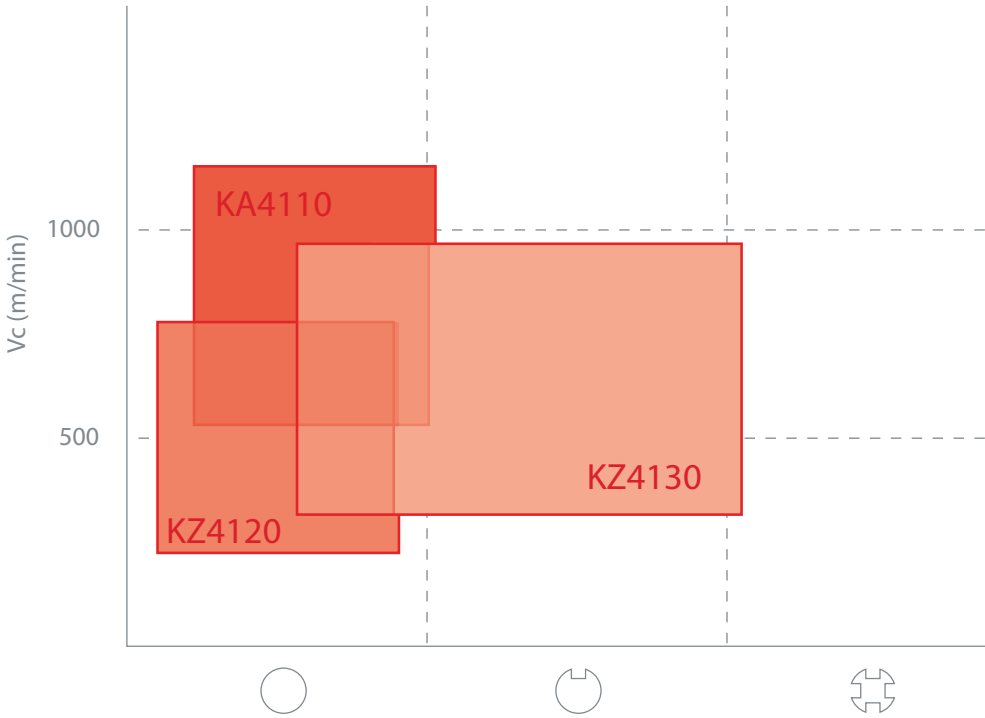
Grades



- TURNING
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- DRILLING
- ENDMILLS
- DRILLS
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- INDEX

Range ISO **K**

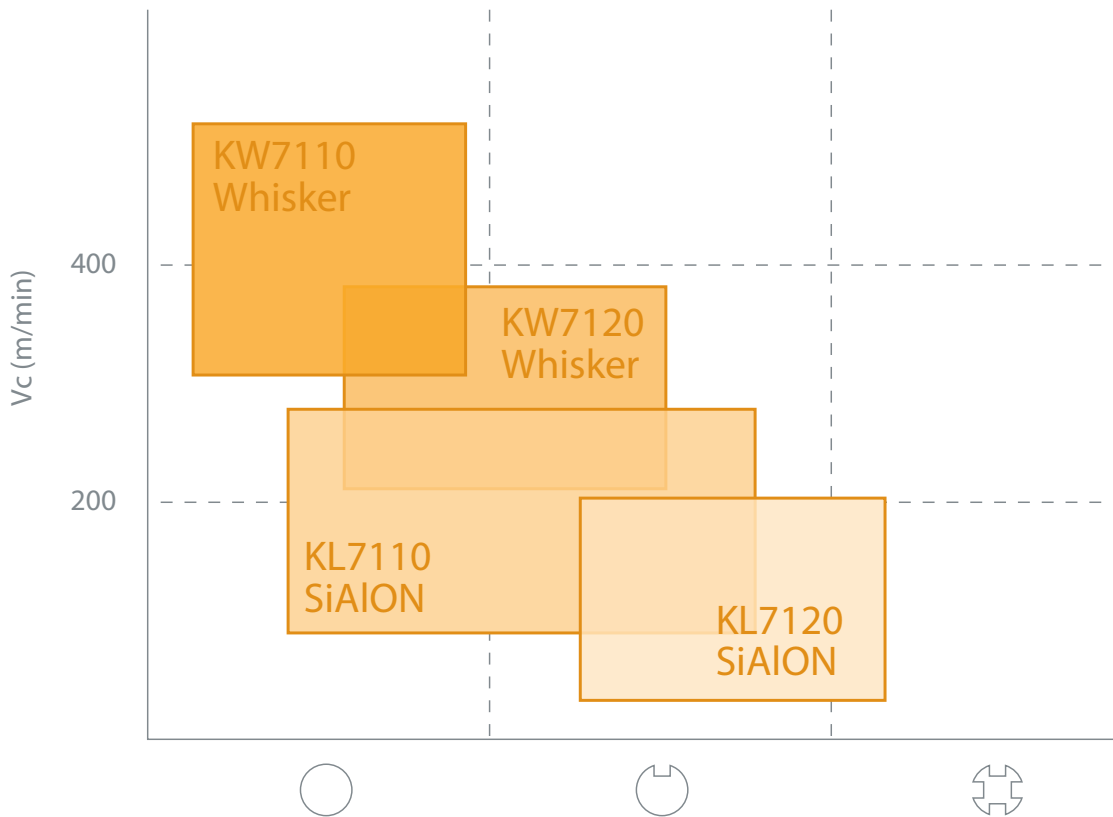
Grades



TURNING

Range ISO **S**

Grades



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

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TURNING

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MILLING

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ENDMILLS

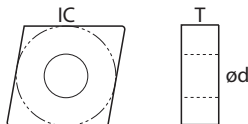
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

CN□□



CN □□	1204 □□	1606 □□	1906 □□
IC	12,7	15,875	19,05
T	4,76	6,35	6,35
ød	5,16	6,35	7,93
Holder	131	131	131

DESCRIPTION	IC	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker			
		KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110	KW7120
	CNGA120404	T04000	•	•	•		•	•											
	CNGA120408	T04000	•	•	•		•	•											
	CNGA120412	T04000	•	•	•		•	•											
	CNGA160612	T04000	•	•	•		•	•											
CNGA160616	T04000	•	•	•		•	•												
	CNGA120404	T04002	•	•	•		•	•											
	CNGA120408	T04002	•	•	•		•	•											
	CNGA120412	T04002	•	•	•		•	•											
	CNGA120416	T04002	•	•	•		•	•											
	CNGA160612	T04002	•	•	•		•	•											
	CNGA160616	T04002	•	•	•		•	•											
	CNGA190616	T04002	•	•	•		•	•											
	CNGA160612	S20022	•	•	•		•	•											
	CNGA160616	S20022	•	•	•		•	•											
CNGA190616	S20022	•	•	•		•	•												

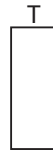
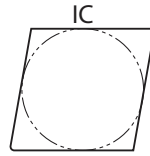
Vc • fn • ap

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TURNING

NEGATIVE
without hole

CN□□



CN □□	1204 □□	1207 □□
IC	12,7	12,7
T	4,76	7,94
Ød	-	-
Holder		

DESCRIPTION	Image	T	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker		
			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110
	CNGN120408	T04000																	•
	CNGN120412	T04000																	•
	CNGN120708	T04000																	•
	CNGN120712	T04000																	•
	CNGN120408	T04002		•	•							•	•					•	
	CNGN120412	T04002		•	•							•	•					•	
	CNGN120416	T04002		•	•							•	•					•	
	CNGN120708	T04002		•	•							•	•					•	
	CNGN120712	T04002		•	•							•	•					•	
	CNGN120716	T04002		•	•							•	•					•	
	CNMX120712	T04000										•	•		•	•			
	CNMX120716	T04000										•	•		•	•			
	CNMX120712	T04002										•	•		•	•			
	CNMX120716	T04002										•	•		•	•			

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

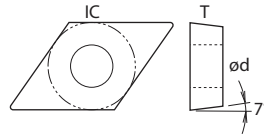
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

DN□□



DN □□	1504 □□	1506 □□	1507 □□
IC	12,7	12,7	12,7
T	4,76	6,35	7,94
ød	5,16	5,16	5,16
Holder		148	

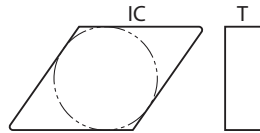
DESCRIPTION	T	Al ₂ O ₃ + TiC(N)		+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker					
		KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110	KW7120
	DNGA150404	T04000	•	•		•													
	DNGA150408	T04000	•	•	•	•				•	•	•						•	•
	DNGA150412	T04000	•	•	•	•					•	•	•			•		•	•
	DNGA150604	T04000	•	•	•	•													
	DNGA150608	T04000	•	•	•	•			•	•	•	•		•					
	DNGA150612	T04000	•	•	•	•				•	•	•		•					
	DNGA150616	T04000	•	•	•					•	•	•							
	DNGA150704	T04000	•	•															
	DNGA150708	T04000	•	•					•	•	•	•							
	DNGA150712	T04000	•	•					•		•	•	•		•				
	DNGA150404	T04002	•	•		•													
	DNGA150408	T04002	•	•	•	•				•	•	•						•	•
	DNGA150412	T04002	•	•	•	•					•	•	•			•		•	•
	DNGA150604	T04002	•	•	•	•													
	DNGA150608	T04002	•	•	•	•			•	•	•	•		•					
	DNGA150612	T04002	•	•	•	•				•	•	•		•					
	DNGA150616	T04002	•	•	•					•	•	•							
	DNGA150704	T04002	•	•															
	DNGA150708	T04002	•	•					•	•	•	•							
	DNGA150712	T04002	•	•					•		•	•	•		•				

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TURNING

NEGATIVE
without hole

DN□□



DN □□ 1507 □□

IC 12,70

T 7,94

Ød -

DESCRIPTION	Image	Code	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker		
			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110
	DNGN150708	T04000	●	●	●	●	●	●								●	●		
	DNGN150712	T04000	●	●	●	●	●	●								●	●		
	DNGN150716	T04000	●	●	●	●	●	●								●	●		
	DNGN150708	T04002	●	●	●	●	●	●								●	●		
	DNGN150712	T04002	●	●	●	●	●	●								●	●		
	DNGN150716	T04002	●	●	●	●	●	●								●	●		

Vc • fn • ap 115

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

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POSITIVE 7°
without hole

RC □ □



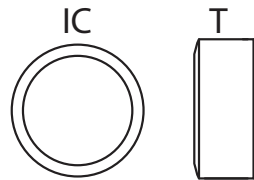
RC □ □	0606 □ □	0607 □ □	0907 □ □	1207 □ □	1510 □ □	1910 □ □
IC	6,35	6,35	9,525	12,70	15,87	19,05
T	6,35	7,94	7,94	7,94	10,00	10,00
Ød	-	-	-	-	-	-
Holder	156	156	156	156	156	156

DESCRIPTION	IC	Al ₂ O ₃ + TiC(N)				+ PVD	ZrO ₂		Si ₃ N ₄				SiAlON		Whisker					
		KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110	KW7120	
	RCGX 060600	T04000	•	•	•		•	•										•	•	
	RCGX 060700	T04000	•	•	•		•	•											•	•
	RCGX 090700	T04000	•	•	•		•	•											•	•
	RCGX 120700	T04000	•	•	•		•	•											•	•
	RCGX 151000	T04000	•	•	•		•	•											•	•
	RCGX 191000	T04000	•	•	•		•	•											•	•
	RCGX 251200	T04000	•	•	•		•	•											•	•
	RCGX 060600	S20022	•	•	•		•	•										•	•	
	RCGX 060700	S20022	•	•	•		•	•											•	•
	RCGX 090700	S20022	•	•	•		•	•											•	•
	RCGX 120700	S20022	•	•	•		•	•											•	•
	RCGX 151000	S20022	•	•	•		•	•											•	•
	RCGX 191000	S20022	•	•	•		•	•											•	•
	RCGX 251200	S20022	•	•	•		•	•											•	•
	RCGX 060600	S06032	•	•	•		•	•										•	•	
	RCGX 060700	S06032	•	•	•		•	•											•	•
	RCGX 090700	S06032	•	•	•		•	•											•	•
	RCGX 120700	S06032	•	•	•		•	•											•	•
	RCGX 151000	S06032	•	•	•		•	•											•	•
	RCGX 191000	S06032	•	•	•		•	•											•	•
	RCGX 251200	S06032	•	•	•		•	•											•	•
	RCGX 060600	AS06032	•	•	•		•	•										•	•	
	RCGX 060700	AS06032	•	•	•		•	•											•	•
	RCGX 090700	AS06032	•	•	•		•	•											•	•
	RCGX 120700	AS06032	•	•	•		•	•											•	•
	RCGX 151000	AS06032	•	•	•		•	•											•	•
	RCGX 191000	AS06032	•	•	•		•	•											•	•
	RCGX 251200	AS06032	•	•	•		•	•											•	•

TURNING

NEGATIVE
without hole

RN□□



RN □□	1204 □□	1207 □□	1907 □□
IC	12,70	12,70	19,05
T	4,76	7,94	7,94
∅d	-	-	-

DESCRIPTION	Image	Code	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker		
			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110
	RNGN 120400	T04000	•	•	•													•	•
	RNGN 120700	T04000	•	•	•													•	•
	RNGN 190700	T04000	•	•	•													•	•
	RNGN 120400	S20022	•	•	•													•	•
	RNGN 120700	S20022	•	•	•													•	•
	RNGN 190700	S20022	•	•	•													•	•
	RNGN 120400	S06032	•	•	•													•	•
	RNGN 120700	S06032	•	•	•													•	•
	RNGN 190700	S06032	•	•	•													•	•
	RNGN 120400	AS20022	•	•	•													•	•
	RNGN 120700	AS20022	•	•	•													•	•
	RNGN 190700	AS20022	•	•	•													•	•
	RNGN 120400	AS06032	•	•	•													•	•
	RNGN 120700	AS06032	•	•	•													•	•
	RNGN 190700	AS06032	•	•	•													•	•

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

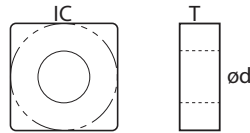
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

SN □ □



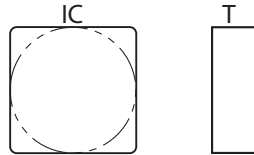
SN □ □	0904 □ □	1204 □ □	1207 □ □
IC	9,52	12,70	12,70
T	4,76	4,76	7,94
ød	3,81	5,16	5,16
Holder	162	162	

DESCRIPTION	IC	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker			
		KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110	KW7120
	SNGA090304	T04000	•	•															
	SNGA090308	T04000	•	•															
	SNGA120404	T04000	•		•					•				•					
	SNGA120408	T04000	•	•	•	•				•	•		•	•				•	•
	SNGA120412	T04000	•	•	•	•		•		•	•	•		•	•	•			
	SNGA120416	T04000								•				•	•	•			
	SNGA120708	T04000	•																
	SNGA120712	T04000	•								•	•							
	SNGA120716	T04000	•						•		•	•					•		
	SNGA120412	S20022	•	•	•	•		•		•	•	•		•	•	•			
	SNGA120416	S20022								•				•	•	•			
	SNGA120708	S20022	•																
	SNGA120712	S20022	•								•	•							
	SNGA120716	S20022	•						•		•	•					•		

TURNING

NEGATIVE
without hole

SN □□



SN □□	0904 □□	1204 □□	1207 □□
IC	9,52	12,70	12,70
T	4,76	4,76	7,94
Ød	3,81	5,16	5,16
Holder	-	-	162

DESCRIPTION	Image	T	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker		
			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110
[Image]	SNGN090304	T04000	•	•															
	SNGN090308	T04000	•	•															
	SNGN090312	T04000	•		•					•					•				
	SNGN120408	T04000	•	•	•	•				•	•		•		•			•	•
	SNGN120412	T04000	•	•	•	•			•	•	•	•			•	•	•		
	SNGN120416	T04000								•					•	•	•		
	SNGN120708	T04000	•																
	SNGN120712	T04000	•								•	•							
	SNGN120716	T04000	•						•		•	•						•	
[Image]	SNGN120412	S20022	•	•	•	•			•	•	•	•			•	•	•		
	SNGN120416	S20022								•					•	•	•		
	SNGN120708	S20022	•																
	SNGN120712	S20022	•							•	•								
	SNGN120716	S20022	•						•	•	•						•		
[Image]	SNGX120708	T04000	•								•		•						
	SNGX120712	T04000	•	•							•	•	•			•			
	SNGX120716	T04000									•	•	•	•		•			
[Image]	SNGX120708	T04002	•								•		•						
	SNGX120712	T04002	•	•							•	•	•			•			
	SNGX120716	T04002									•	•	•	•		•			

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

TN □ □



TN □ □	1604 □ □	2204 □ □	2706 □ □
IC	9,525	12,7	15,875
T	4,76	4,76	6,35
ød	3,81	5,16	6,35
Holder	178	178	-

DESCRIPTION	IC	Al ₂ O ₃ + TiC(N)		+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker					
		KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110	KW7120
	TNGA160404	T04000	•	•			•		•					•					
	TNGA160408	T04000	•	•	•	•		•		•	•	•		•	•				
	TNGA160412	T04000	•	•	•	•				•	•	•						•	•
	TNGA160416	T04000	•	•	•	•				•	•	•							
	TNGA220408	T04000		•	•					•		•				•		•	•
	TNGA220412	T04000		•	•					•		•				•		•	•
	TNGA270608	T04000	•	•															
	TNGA270612	T04000	•	•															
	TNGA270616	T04000		•												•			
	TNGA160404	T04002	•	•			•		•					•					
	TNGA160408	T04002	•	•	•	•		•		•	•	•		•	•				
	TNGA160412	T04002	•	•	•	•				•	•	•					•	•	
	TNGA160416	T04002	•	•	•	•				•	•	•							
	TNGA220408	T04002		•	•					•		•			•		•	•	
	TNGA220412	T04002		•	•					•		•			•		•	•	
	TNGA270608	T04002	•	•															
	TNGA270612	T04002	•	•															
TNGA270616	T04002		•												•				

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TURNING

NEGATIVE
without hole

TN □□



TN □□	1604 □□	2204 □□	2706 □□
IC	9,525	12,7	15,875
T	4,76	4,76	6,35
Ød	-	-	-
Holder			

DESCRIPTION	Image	T04000	Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker	
			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120
	TNGN160404	T04000	•	•				•		•				•				
	TNGN160408	T04000	•	•	•	•		•		•	•	•		•	•			
	TNGN160412	T04000	•	•	•	•		•		•	•	•					•	•
	TNGN160416	T04000	•	•	•	•				•	•	•						•
	TNGN220408	T04000		•	•					•		•			•		•	•
	TNGN220412	T04000		•	•					•		•			•		•	•
	TNGN270608	T04000	•	•														
	TNGN270612	T04000	•	•														
	TNGN270616	T04000		•											•			
	TNGN160404	T04002	•	•				•		•				•				
	TNGN160408	T04002	•	•	•	•		•		•	•	•		•	•			
	TNGN160412	T04002	•	•	•	•		•		•	•	•					•	•
	TNGN160416	T04002	•	•	•	•				•	•	•						•
	TNGN220408	T04002		•	•					•		•			•		•	•
	TNGN220412	T04002		•	•					•		•			•		•	•
	TNGN270608	T04002	•	•														
	TNGN270612	T04002	•	•														
	TNGN270616	T04002		•											•			

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- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

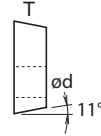
DRILLS

SPARE PARTS

INDEX

POSITIVE 11°
without hole

TP □□



TP □□ 1103□□ 1603□□

IC 6,35 9,525

T 3,18 3,18

Ød - -



DESCRIPTION

Al₂O₃ + TiC(N)

+ PVD

ZrO₂Si₃N₄

SiAlON

Whisker

KS8110

KS8130

KS8150

KS8170

KSC8110

KSC8130

KZ4120

KZ4130

KN4110

KN4120

KN4130

KN4140

KN4150

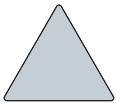
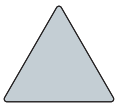
KA4110

KL7110

KL7120

KW7110

KW7120



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TPGN160304	T04000	•	•	•			•		•	•	•			•					
TPGN160308	T04000	•	•				•		•	•	•	•		•				•	•
TPGN160312	T04000	•	•							•	•							•	•
TPGN160404	T04000	•		•															
TPGN160408	T04000	•	•													•			
TPGN160412	T04000	•													•				
TPGN220404	T04000	•	•																
TPGN220408	T04000	•	•							•								•	•
TPGN220412	T04000	•	•								•	•							
TPGN220416	T04000	•	•	•															
TPGN110304	T04002	•	•								•	•		•					
TPGN110308	T04002	•	•								•	•	•	•				•	•
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TPGN160308	T04002	•	•				•		•	•	•	•		•				•	•
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TPGN160404	T04002	•		•															
TPGN160408	T04002	•	•													•			
TPGN160412	T04002	•													•				
TPGN220404	T04002	•	•																
TPGN220408	T04002	•	•								•							•	•
TPGN220412	T04002	•	•									•	•						
TPGN220416	T04002	•	•	•															

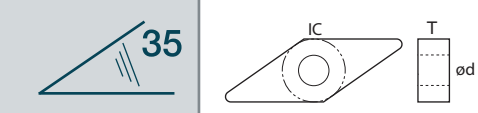
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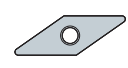
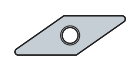
TURNING

NEGATIVE with hole

VN □ □



VN □ □	1604 □ □
IC	9,525
T	4,76
ød	3,81
Holder	191

DESCRIPTION			Al ₂ O ₃ + TiC(N)				+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker		
			KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110
	VNGA160404	T04000	•	•	•					•									
	VNGA160408	T04000	•	•	•	•		•	•	•	•	•			•				
	VNGA160412	T04000	•	•	•	•			•	•	•	•	•						
	VNGA160404	T04002	•	•	•					•									
	VNGA160408	T04002	•	•	•	•		•	•	•	•	•			•				
	VNGA160412	T04002	•	•	•	•			•	•	•	•	•						

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- DRILLING
- ENDMILLS
- DRILLS
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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

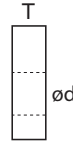
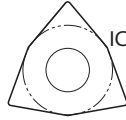
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

WN□□



WN □□ 0804□□

IC 12,7

T 4,76

ød 5,16

Holder 194

DESCRIPTION	IC	Al ₂ O ₃ + TiC(N)			+ PVD		ZrO ₂		Si ₃ N ₄				SiAlON		Whisker				
		KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110	KL7110	KL7120	KW7110	KW7120
 WNGA080404 T04000 WNGA080408 T04000 WNGA080412 T04000	•	•	•																
	•	•	•						•	•	•	•	•		•			•	•
	•	•	•							•	•	•	•	•		•			
 WNGA080404 T04002 WNGA080408 T04002 WNGA080412 T04002	•	•	•																
	•	•	•												•			•	•
	•	•	•							•	•	•	•	•		•			

TURNING

Cutting Parameters

HH	HARDENED STEEL
HC	CASE HARDENED STEEL
HB	BEARING STEEL

KG	GREY CAST IRON
KN	NOCULAR CAST IRON
SA	SUPER ALLOYS (Ni Based)

MATERIAL	ap (mm)	fn (mm/rev)	CUTTING CONDITION		Al ₂ O ₃ + TiC(N)				+ PVD		SiAlON		Whisker		
					KS8110	KS8130	KS8150	KS8170	KSC8110	KSC8130	KL7110	KL7120	KW7110	KW7120	
H	HH	0,10~0,50	0,05~0,20	○	∅	130~250	120~240	110~230	100~220	100~220	120~240				
		0,50~2,00	0,10~0,30	○	∅	110~180	100~170	90~160	80~150	80~160	100~180				
	HC	0,10~0,50	0,05~0,20	○	∅	110~210	100~200	90~190	80~180	80~180	100~200				
		0,50~2,00	0,10~0,30	○	∅	90~150	80~140	70~130	60~120	60~120	80~140				
	HB	0,10~0,50	0,05~0,20	○	∅	110~230	100~220	90~210	80~200	80~200	100~220				
		0,50~2,00	0,10~0,30	○	∅	80~160	70~150	60~140	60~140	60~140	80~160				
K	KG	0,20~0,50	0,10~0,30	○	∅			300~700							
				⊕	∅										
		○	∅												
	KN	1,00~4,00	0,25~0,50	⊕	∅										
				○	∅			300~600							
		○	∅								250~500				
SA	0,50~1,00	0,10~0,30	○	∅							200~350		250~500		
			⊕	∅							180~300	150~280	200~350	200~350	
	○	∅								150~250		200~400			
1,00~4,00	0,15~0,40	⊕	∅							140~240	120~220				

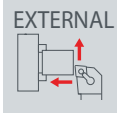
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Cutting Parameters

HH	HARDENED STEEL
HC	CASE HARDENED STEEL
HB	BEARING STEEL

KG	GREY CAST IRON
KN	NOCULAR CAST IRON
SA	SUPER ALLOYS (Ni Based)

MATERIAL	ap (mm)	fn (mm/rev)	CUTTING CONDITION	ZrO ₂		Si ₃ N ₄							
				KZ4120	KZ4130	KN4110	KN4120	KN4130	KN4140	KN4150	KA4110		
H	HH	0,10~0,50	0,05~0,20	○	☉								
		0,50~2,00	0,10~0,30	○	☉								
	HC	0,10~0,50	0,05~0,20	○	☉								
		0,50~2,00	0,10~0,30	○	☉								
	HB	0,10~0,50	0,05~0,20	○	☉								
		0,50~2,00	0,10~0,30	○	☉								
K	KG	0,20~0,50	0,10~0,30	○	☉	350~750	400~800	650~1200	600~1200	600~1200	500~1000		
				☒	☉			550~1100	500~1000	500~1000	450~800		
		1,00~4,00	0,25~0,50	○	☉			650~1200	600~1200	600~1200	500~1000	450~800	
			☒	☉			550~1100	500~1000	500~1000	450~800	400~600		
	KN	0,20~0,50	0,10~0,30	○	☉			450~800	400~800	400~800	350~700		450~800
				☒	☉			350~650	300~600	300~600	250~500		400~600
1,00~4,00		0,25~0,50	○	☉			450~900	400~800	400~800	350~700			
		☒	☉			300~600	300~600	300~600	250~500				
S	SA	0,50~1,00	0,10~0,30	○	☉								
				☒	☉								
	1,00~4,00	0,15~0,40	○	☉									
		☒	☉										



P C L N R 25 25 M 12

1

2

3

4

5

6

7

8

9

1 Clamping System

C	
D	
M	
P	
S	

2 Geometry

C		80
D		55
K		55
S		90
T		60
V		35
W		80

3 Lead Angle

A	90°	P	117.5°
B	75°	R	75°
D	45°	S	45°
F	90°	V	72.5°
G	90°		
J	93°		
K	75°		
L	95°		
N	63°		

4 Clearance Angle

B		5°
C		7°
P		11°
N		0°

5 Direction

L	
N	
R	

6 Shank

(H)		(B)

8 Total Length

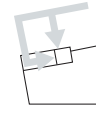
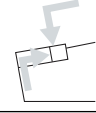
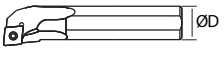


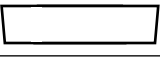
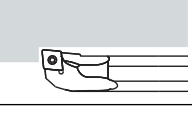
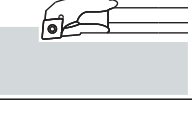


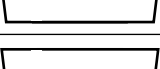


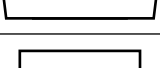


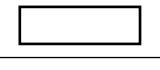







H	100
K	125
M	150
P	170
S	250

9 Edge Length

C	06 09 12 16 19 25	
D	07 11 15	
K	16	
S	09 12 15 19 25	
T	09 11 16 22	
V	11 16 22	
W	06 08	



S 16 K - S C L C R - 06

1	2	3	4	5	6	7	8	9
A Steel + Coolant	Shank Diameter	Total Length	Clamping System	Lead Angle	Clearance Angle	Direction		
C Carbide								
S Steel	...	H 100	P	K 125	S 250	L	R	
		M 150	S	L 150	T 300			
		Q 170		M 170	U 350			
		R 200		K 200	V 400			
		S 250		L 250				
		T 300		M 300				
		U 350		K 350				
		V 400		L 400				
C 	06 09 12 16 19 25	A 	B 	90°	5°	L 	R 	
D 	07 11 15	F 	C 	90°	7°			
K 	16	J 	P 	93°	11°			
S 	09 12 15 19 25	K 	N 	75°	0°			
T 	09 11 16 22	L 		95°				
V 	11 16 22	Q 		107.5°				
W 	06 08	U 		93°				
		Z 		93°				

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MILLING

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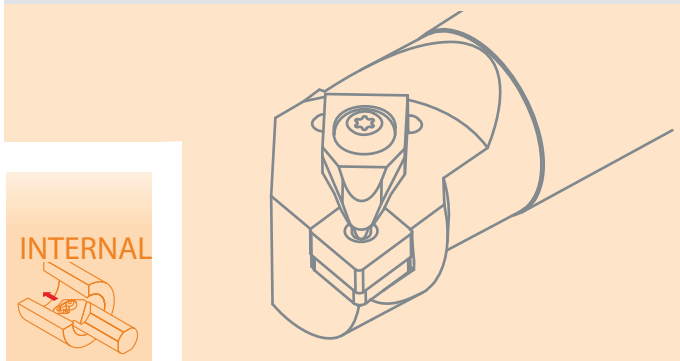
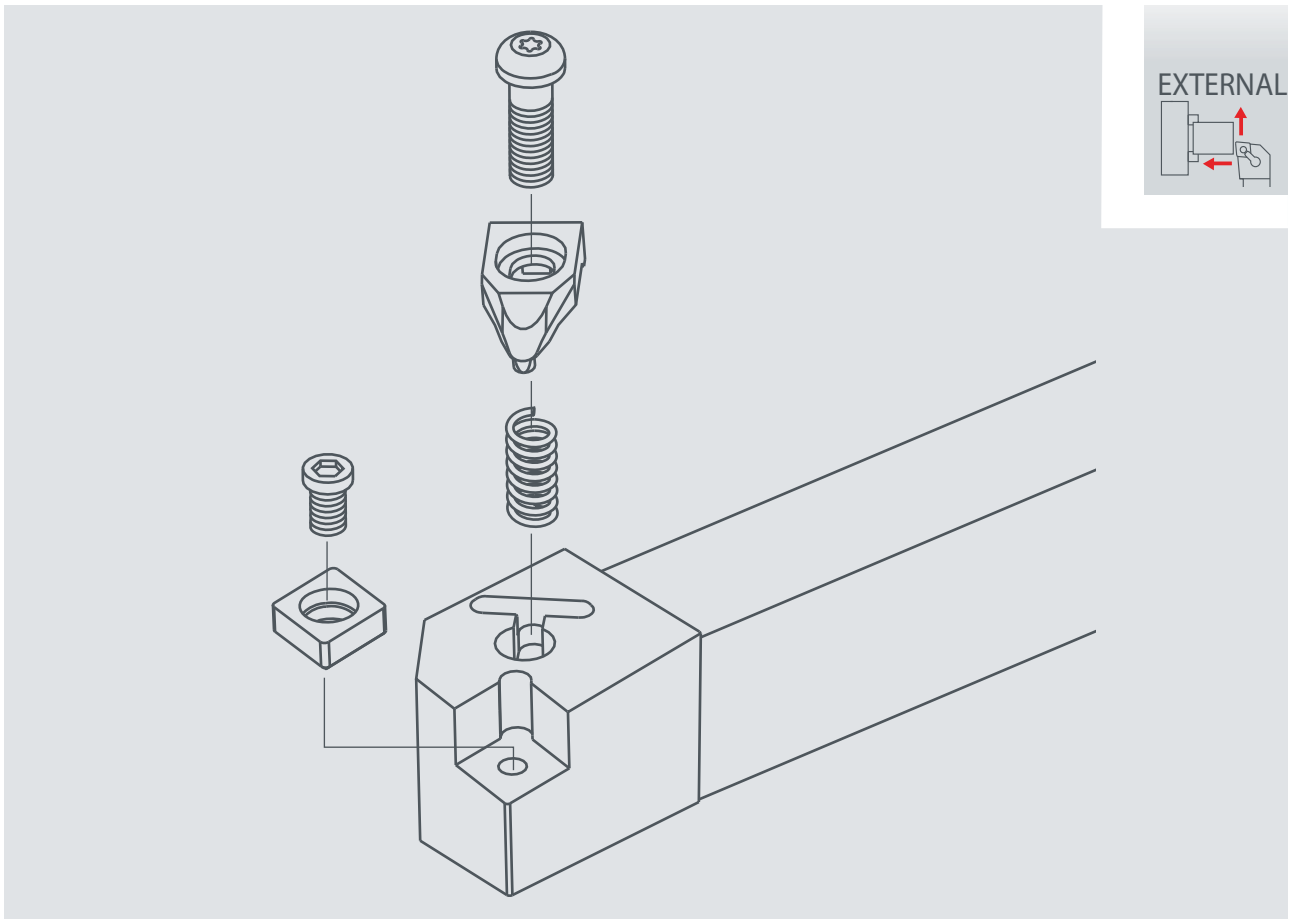
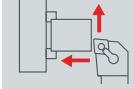
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CLAMPING SYSTEM (NEGATIVE)

Fast Clamping - Ideal for short chip materials

D

EXTERNAL



INTERNAL

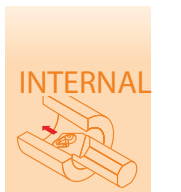
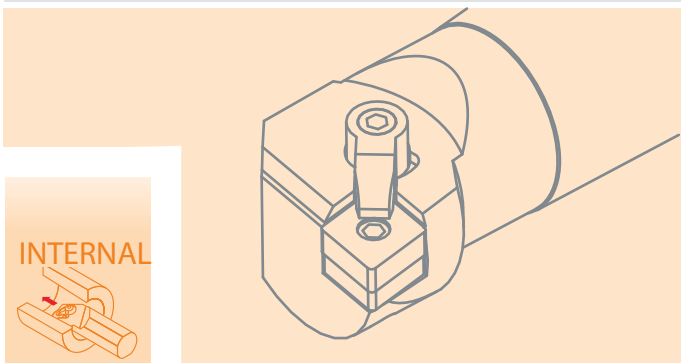
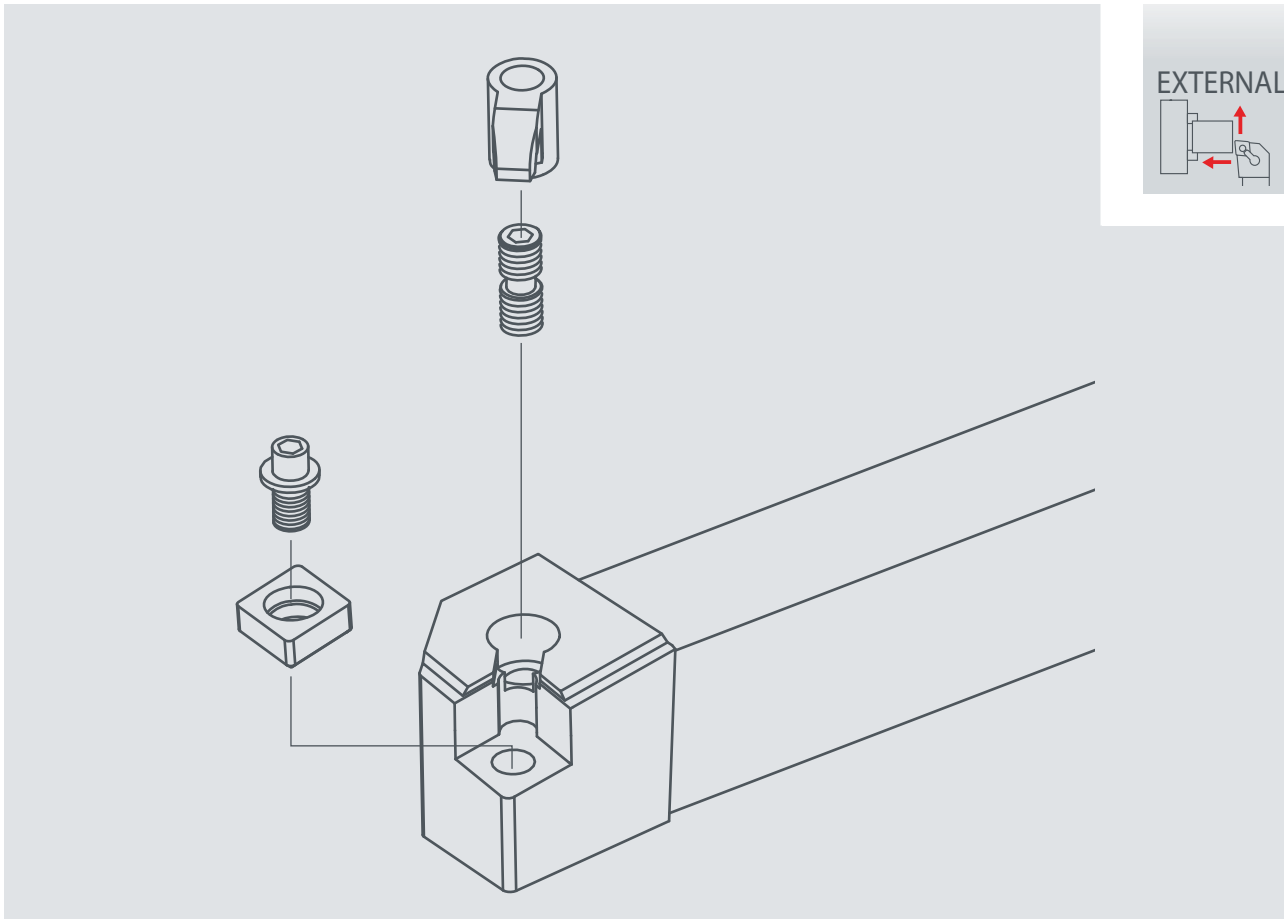
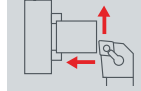


CLAMPING SYSTEM (NEGATIVE)

High Clamping Strength - First choice for ceramic inserts

M

EXTERNAL



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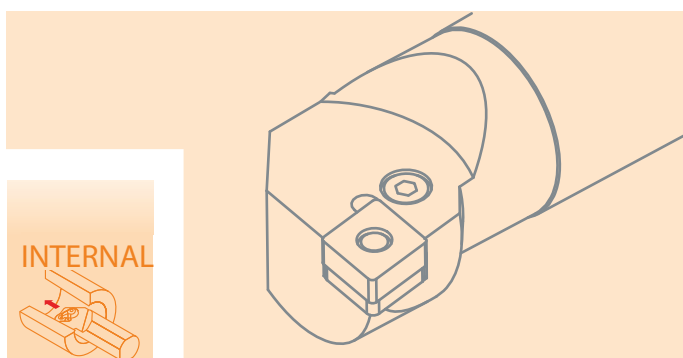
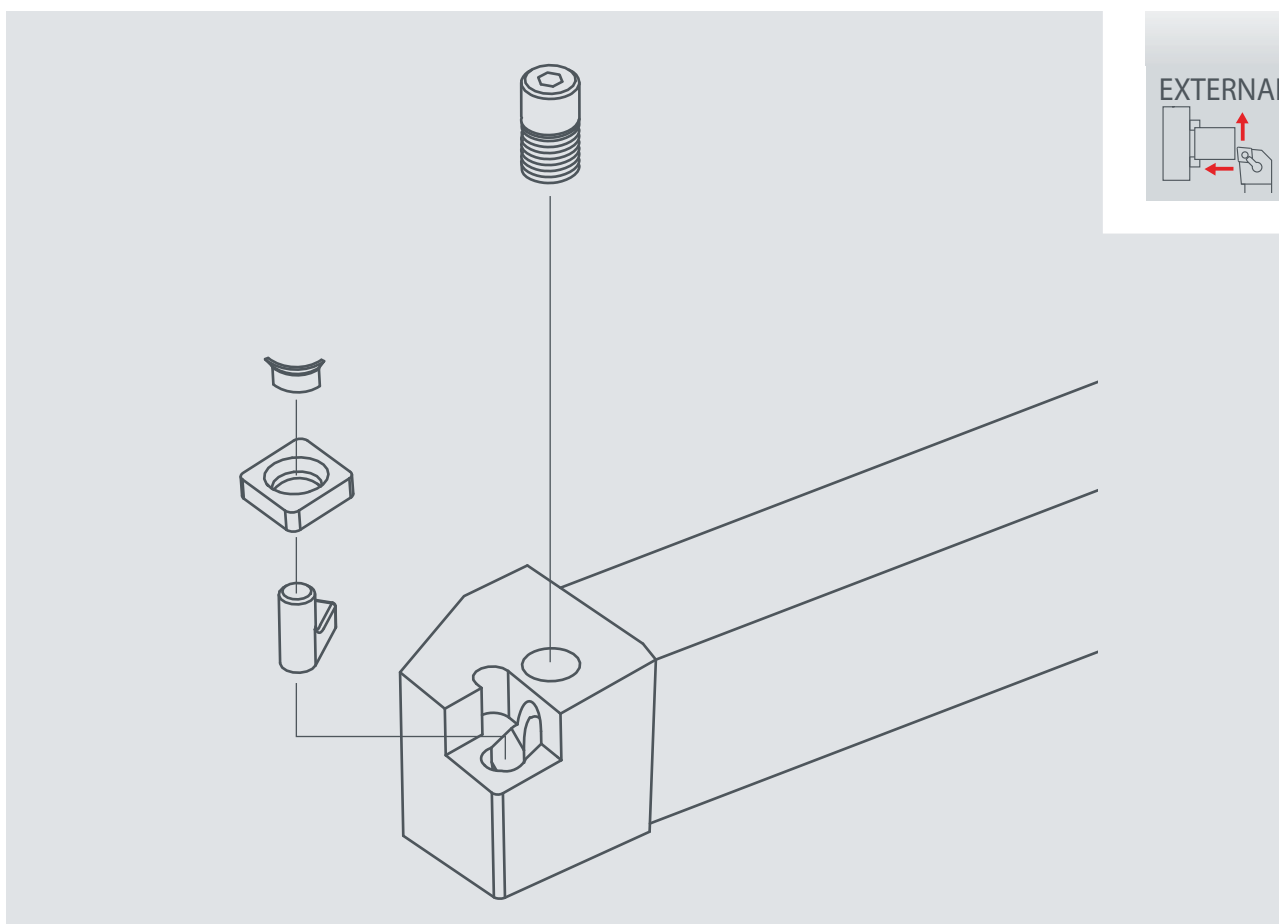
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CLAMPING SYSTEM (NEGATIVE)

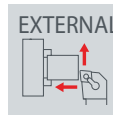
Easy to use - Excellent chip ejection

P



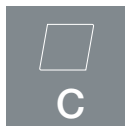


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- DRILLING
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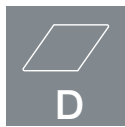


SELECTION GUIDE

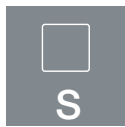
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- GROOVING
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- DRILLING
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SCAC	SCLC	SCMC	DCLN	DCMN	DCZN	PCBN	PCLN	PCMN
CC□□ 126	CC□□ 127	CC□□ 128	CN□□ 131	CN□□ 132	CN□□ 133	CN□□ 134	CN□□ 135	CN□□ 136



SDHC	SDJC	SDNC	DDHN	DDJN	DDNN	PDJN	PDNN
DC□□ 139	DC□□ 140	DC□□ 141	DN□□ 148	DN□□ 149	DN□□ 150	DN□□ 151	DN□□ 151



SSDC	SSSC	DSDN	DSKN	DSSN	PSBN	PSDN	PSKN	PSSN
SC□□ 160	SC□□ 161	SN□□ 163	SN□□ 164	SN□□ 164	SN□□ 165	SN□□ 166	SN□□ 167	SN□□ 168



STFC	STGC	STJC	DTEN	DTJN	MTEN	MTJN
TC□□ 171	TC□□ 172	TC□□ 173	TN□□ 178	TN□□ 179	TN□□ 179	TN□□ 180



SVHB	SVJB	SVVB	SVZB	SVHC	SVJC	DVHN	DVJN	DVNN
VB□□ 183	VB□□ 184	VB□□ 185	VB□□ 186	VC□□ 189	VC□□ 189	VN□□ 191	VN□□ 191	VN□□ 192



DWLN	MWDN	MWLN	PWLN	OTHERS	CKJN	SRDC	SRGC	SRHC
WN□□ 194	WN□□ 194	WN□□ 195	WN□□ 195		KN□□ 155	RC□□ 157	RC□□ 158	RC□□ 159





































CDJN	CSDN	CSSN	CTJN	CRDC
DN□□ 148	SN□□ 162	SN□□ 163	TN□□ 178	RC□□ 156

TURNING



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	 SCLC CC00 129	 SCLC CC00 130	 DCLN CN00 137	 PCLN CN00 138								
	 SDPC DC00 142	 SDQC DC00 143	 SDUC DC00 144	 SD-C DC00 145	 SDXC DC00 146	 SDQC DC00 147	 DDQN DN00 152	 DDUN DN00 152	 DD-N DN00 153	 PDQN DN00 153	 PDUN DN00 154	
	 SKUN KN00 155		 SSSC SC00 162	 DSKN SN00 169	 PSKN SN00 170							
	 STFC TC00 174	 STUC TC00 175	 ST-C TC00 176	 STFC TC00 177	 STFP TP00 177	 DTUN TN00 180	 DT-N TN00 181	 SMTUN TN00 181	 SMTQN TN00 182	 SMT-N TN00 182		
	 SVJB VB00 187	 SVQB VB00 187	 SVUB VB00 188	 SVXB VB00 188	 SVUC VC00 190	 SVQC VC00 190	 DVUN VN00 192					
	 SWLC WC00 193	 DWLN WN00 196	 MWLN WN00 196	 PWLN WN00 197								

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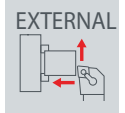
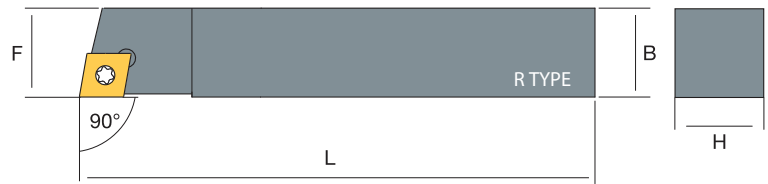
SPARE PARTS

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SCAC

POSITIVE 7° with hole

CC □ □



CC □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←			
				R	L	H	B	L	F	←	←				
CC □ □0602	SCACR/L	0808	E06	•	•	08	08	60	10	ST-SC0257	ST-WRT08				
		1010	E06	•	•	10	10	70	16	ST-SC0257	ST-WRT08				
CC □ □09T3	SCACR/L	1212	F09	•	•	12	12	80	20	ST-SC3507	ST-WRT15				
		1616	K09	•	•	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011		
		2020	M09	•	•	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011		
		2525	H09	•	•	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011		
CC □ □1204	SCACR/L	2020	K12	•	•	20	20	125	25	ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011		
		2525	M12	•	•	25	25	150	32	ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011		

carbide

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PCBN

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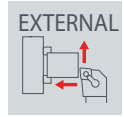
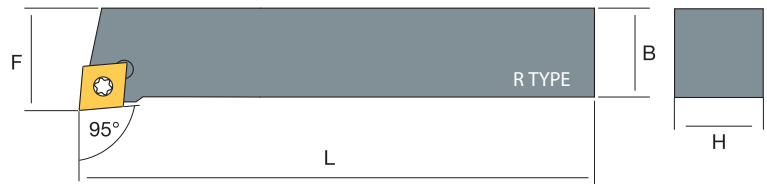
diamond





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SCLC

POSITIVE 7°
 with hole

CC □ □



CC □ □	DESCRIPTION			STOCK		DIMENSIONS				 ← 		 ← 					
				R	L	H	B	L	F								
CC □ □0602	SCLCR/L	0808	E06	●	●	8	8	70	10	ST-SC0257	ST-WRT08						
		1010	E06	●	●	10	10	70	12	ST-SC0257	ST-WRT08						
		1212	F06	●	●	12	12	80	16	ST-SC0257	ST-WRT08						
CC □ □09T3	SCLCR/L	1212	F09	●	●	12	12	80	16	ST-SC3511	ST-WRT15						
		1616	H09	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011				
		2020	K09	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011				
		2525	M09	●	●	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011				
CC □ □1204	SCLCR/L	2020	K12	●	●	20	20	125	25	ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011				
		2525	M12	●	●	25	25	150	32	ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011				

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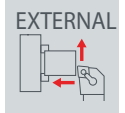
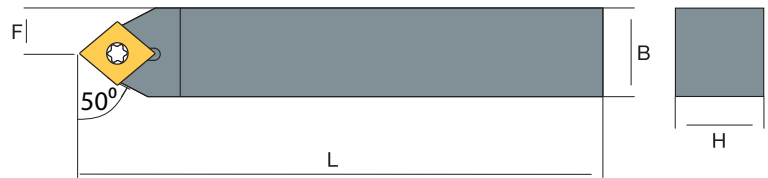
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SCMCN

POSITIVE 7°
with hole

CC □ □



CC □ □	DESCRIPTION			STOCK	DIMENSIONS				 ← 	 ← 				
					H	B	L	F						
CC □ □0602	SCMCN	0808	E06	●	8	8	70	04	ST-SC0257	ST-WRT08				
		1010	E06	●	10	10	70	05	ST-SC0257	ST-WRT08				
CC □ □09T3	SCMCN	1212	F09	●	12	12	80	06	ST-SC3511	ST-WRT15				
		1616	H09	●	16	16	100	08	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011		
		2020	K09	●	20	20	125	10	ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011		
CC □ □1204	SCMCN	2020	K12	●	20	20	125	10	ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011		
		2525	M12	●	25	25	150	12.5	ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011		

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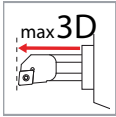
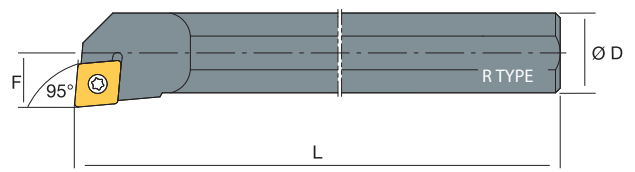
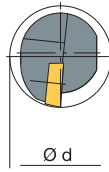
diamond

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S SCLC

POSITIVE 7°
with hole

CC □ □



CC □ □	DESCRIPTION		STOCK		DIMENSIONS										
			R	L	ØD	Ød	L	F							
CC □ □0602	S06H08	SCLCR/L	06	● ●	06	>08	100	4.5		ST-SC0257	ST-WRT08				
	S08H		06	● ●	08	>11	100	06		ST-SC0257	ST-WRT08				
	S10K		06	● ●	10	>13	125	07		ST-SC0257	ST-WRT08				
	S10P16		06	● ●	16	>13	150	07		ST-SC0257	ST-WRT08				
	S12K		06	● ●	12	>16	125	09		ST-SC0257	ST-WRT08				
	S12K16		06	● ●	16	>13	150	09		ST-SC0257	ST-WRT08				
CC □ □09T3	S12K	SCLCR/L	09	● ●	12	>16	125	09		ST-SC3511	ST-WRT15				
	S16P		09	● ●	16	>21	170	11		ST-SC3511	ST-WRT15				
	S20R		09	● ●	20	>25	200	13		ST-SC3511	ST-WRT15				
	S25S		09	● ●	25	>32	250	17		ST-SC3511	ST-WRT15				
	S32T		09	● ●	32	>40	300	22		ST-SC3514	ST-WRT15	ST-SHCC09	ST-SC5011		
	S32T	SCLCR/L	12	● ●	32	>40	300	22		ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011		
	S40T		12	● ●	40	>50	350	27		ST-SC0416	ST-WRT15	ST-SHCC12	ST-SC6011		

carbide 18

PCBN 63

diamond 83

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DRILLS

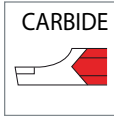
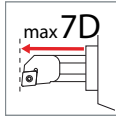
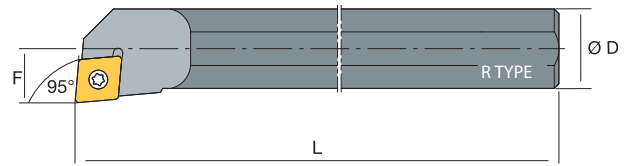
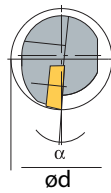
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C SCLC

POSITIVE 7° with hole

CC □ □



CC □ □	DESCRIPTION			STOCK		DIMENSIONS				ST-SC01635	ST-WRT06	ST-SC0235	ST-WRT08	ST-SC02545	ST-WRT08	ST-SC0407	ST-WRT15
				R	L	ØD	Ød	L	F								
CC □ □0301	C04G	SCLCR/L	03	●	●	04	5	90	3.8								
	C05H		03	●	●	05	6	100	4.4								
CC □ □0401	C06J	SCLCR/L	04	●	●	06	7	110	5.4								
CC □ □0602	C08L	SCLCR/L	06	●	●	08	10	140	07								
	C10N		06	●	●	10	12	160	09								
	C12Q		06	●	●	12	14	180	11								
CC □ □09T3	C12Q	SCLCR/L	09	●	●	12	16	180	11								
	C16X		09	●	●	16	18	220	15								
	C20S		09	●	●	20	22	250	19								
	C25T		09	●	●	25	27	300	24								

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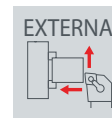
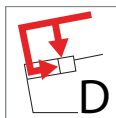
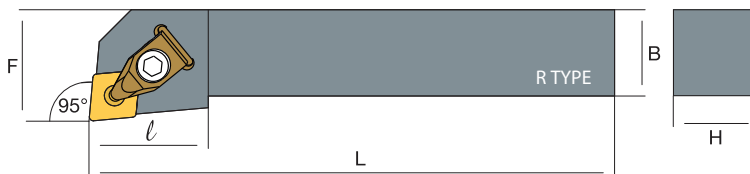
PCBN 63

diamond 83

DCLN

NEGATIVE
with hole

CN □ □



CN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
CN □ □1204	DCLNR/L	2020	K12	●	●	20	20	125	25	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M12	●	●	25	25	150	32	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		4040	S12	●	●	40	40	250	50	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
CN □ □1606	DCLNR/L	2525	M16	●	●	25	25	150	32	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		3232	P16	●	●	32	32	170	40	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		4040	S16	●	●	40	40	250	50	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
CN □ □1906	DCLNR/L	3232	P19	●	●	32	32	170	40	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040
		4040	S19	●	●	40	40	250	50	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040

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PCBN 64

diamond 84

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- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

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DRILLING

ENDMILLS

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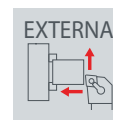
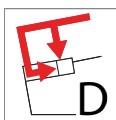
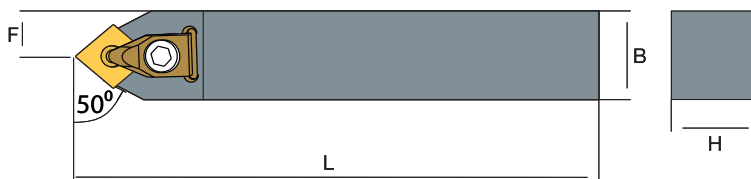
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DCMNN

NEGATIVE with hole

CN □ □



CN □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
CN □ □1204	DCMNN	1616	H12	●	16	16	100	08	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2020	K12	●	20	20	125	10	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M12	●	25	25	150	12.5	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P12	●	32	32	170	16	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
CN □ □1606	DCMNN	2525	M16	●	25	25	150	12.5	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		3232	P16	●	32	32	170	16	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		4040	S16	●	40	40	250	20	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
CN □ □1906	DCMNN	3232	P19	●	32	32	170	16	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040
		4040	S19	●	40	40	250	20	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040

carbide

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PCBN

64

diamond

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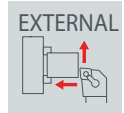
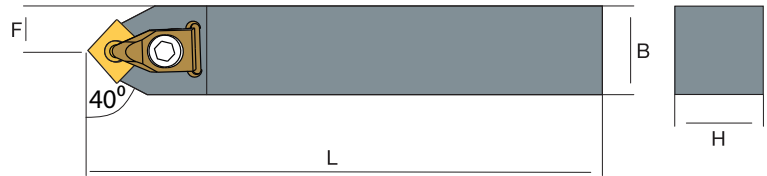
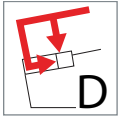
ceramic

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DCZNN

NEGATIVE
with hole

CN □ □



CN □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
CN □ □1204	DCZNN	1616	H12	●	16	16	100	08	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2020	K12	●	20	20	125	10	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M12	●	25	25	150	12.5	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P12	●	32	32	170	16	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
CN □ □1606	DCZNN	2525	M16	●	25	25	150	12.5	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		3232	P16	●	32	32	170	16	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		4040	S16	●	40	40	250	20	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
CN □ □1906	DCZNN	3232	P19	●	32	32	170	16	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040
		4040	S19	●	40	40	250	20	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040

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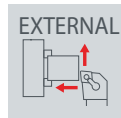
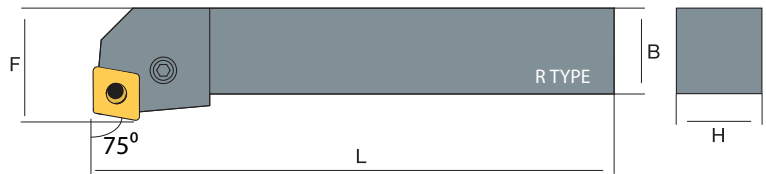
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NEGATIVE with hole

CN □ □



CN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
CN □ □1204	PCBNR/L	2020	K12	●	●	20	20	125	17.5	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	●	25	25	150	22.5	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	●	32	32	170	27.5	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
CN □ □1606	PCBNR/L	2525	M16	●	●	25	25	150	22	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
		3232	P16	●	●	32	32	170	27	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
CN □ □1906	PCBNR/L	3232	P19	●	●	32	32	170	27	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	●	40	40	250	37	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

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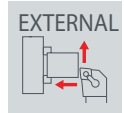
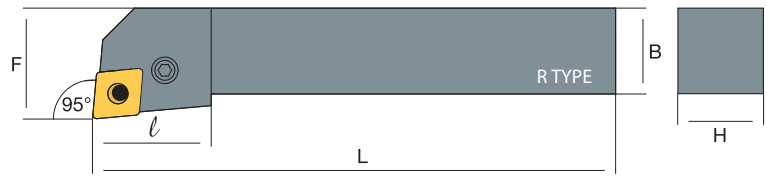
ceramic






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PCLN

NEGATIVE
 with hole

CN □ □



CN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
CN □ □1204	PCLNR/L	2020	K12	●	●	20	20	125	25	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	●	25	25	150	32	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
CN □ □1606	PCLNR/L	2525	M16	●	●	25	25	150	32	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
		3232	P16	●	●	32	32	170	40	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
CN □ □1906	PCLNR/L	3232	P19	●	●	32	32	170	40	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	●	40	40	250	50	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

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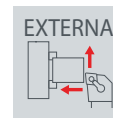
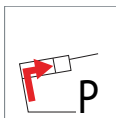
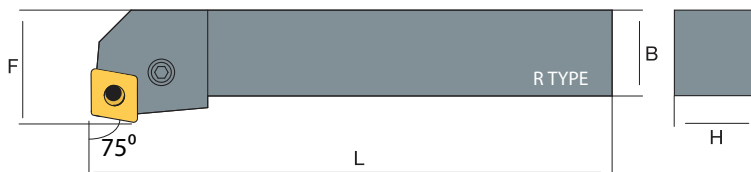
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PCMNN

NEGATIVE
with hole

CN □ □



CN □ □	DESCRIPTION			STOCK	DIMENSIONS								
					H	B	L	F					
CN □ □1204	PCMNN	2020	K12	●	20	20	125	17.5	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	25	25	150	22.5	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	32	32	170	27.5	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
CN □ □1606	PCMNN	2525	M16	●	25	25	150	22	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
		3232	P16	●	32	32	170	27	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
CN □ □1906	PCMNN	3232	P19	●	32	32	170	27	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	40	40	250	37	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

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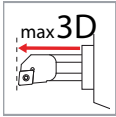
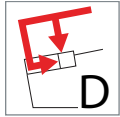
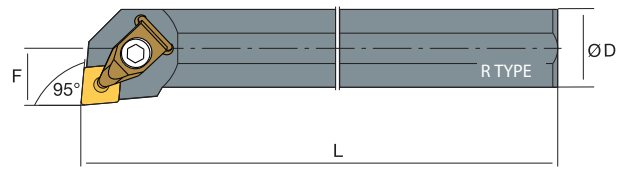
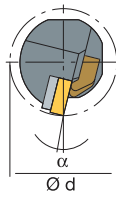
ceramic

102

S^sDCLN

NEGATIVE
with hole

CN □ □



CN □ □	DESCRIPTION		STOCK		DIMENSIONS										
			R	L	ØD	Ød	L	F							
CN □ □1204	S20R	DCLNR/L	12	●	●	20	25	170	13			ST-CS001	-	ST-SC630	ST-WR0030
	S25S		12	●	●	25	32	250	17	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S32T		12	●	●	32	40	300	22	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S40U		12	●	●	40	50	350	27	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S50V		12	●	●	50	63	400	35	ST-SHCN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
CN □ □1606	S32T	DCLNR/L	16	●	●	32	40	300	22	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0030
	S40U		16	●	●	40	50	350	27	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0030
	S50V		16	●	●	50	63	400	35	ST-SHCN16	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0030
CN □ □1906	S50V	DCLNR/L	19	●	●	50	63	400	35	ST-SHCN19	ST-SC6611	ST-CS004	-	ST-SC830	ST-WR0040

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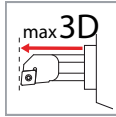
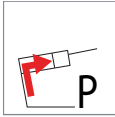
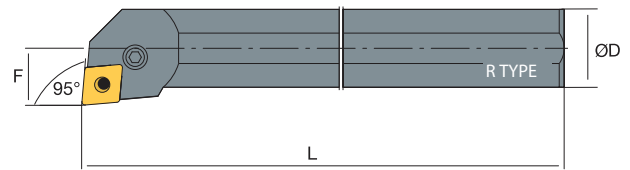
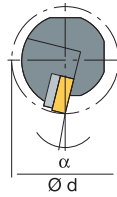
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^SPCLN

NEGATIVE
with hole

CN □ □



CN □ □	DESCRIPTION		STOCK		DIMENSIONS								
			R	L	ØD	Ød	L	F					
CN □ □1204	S25S	PCLNR/L	12	● ●	25	32	250	17	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S32T		12	● ●	32	40	300	22	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S40U		12	● ●	40	50	350	27	ST-SHCN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
CN □ □1606	S32T	PCLNR/L	16	● ●	32	40	300	22	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
	S40U		16	● ●	40	50	350	27	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
	S50V		16	● ●	50	63	400	35	ST-SHCN16	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
CN □ □1906	S40U	PCLNR/L	19	● ●	40	50	350	27	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
	S50V		19	● ●	50	63	400	35	ST-SHCN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

carbide

21

PCBN

64

diamond

84

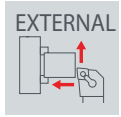
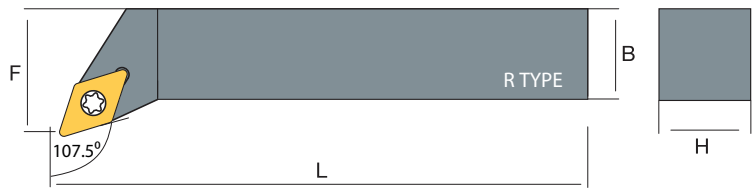
ceramic

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SDHC

POSITIVE 7°
 with hole

DC □ □



DC □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←			
				R	L	H	B	L	F						
DC □ 0702	SDHCR/L	0808	E07	●	●	08	08	70	10	ST-SC0257	ST-WRT08	-	-		
		1010	E07	●	●	10	10	70	12	ST-SC0257	ST-WRT08	-	-		
		1212	F07	●	●	12	12	80	16	ST-SC0257	ST-WRT08	-	-		
		1616	H07	●	●	16	16	100	20	ST-SC0257	ST-WRT15	-	-		
DC □ 11T3	SDHCR/L	1616	H11	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		2020	K11	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		2525	M11	●	●	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		3232	P11	●	●	32	32	170	40	ST-SC0416	ST-WRT15	ST-SHDC11	ST-SC5011		

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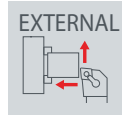
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SDJC

POSITIVE 7°
with hole

DC □ □



DC □ □	DESCRIPTION			STOCK		DIMENSIONS				ST-SC0257 ←		← ST-SC5011				
				R	L	H	B	L	F	α	←	←				
DC □ 07	SDJCR/L	0808	E07	●	●	08	08	70	10		ST-SC0257	ST-WRT08	-	-		
		1010	E07	●	●	10	10	70	12		ST-SC0257	ST-WRT08	-	-		
		1212	F07	●	●	12	12	80	16		ST-SC0257	ST-WRT08	-	-		
		1616	H07	●	●	16	16	100	20		ST-SC0257	ST-WRT08	-	-		
DC □ 11	SDJCR/L	1212	F11	●	●	12	12	80	16		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		1616	H11	●	●	16	16	100	20		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		2020	K11	●	●	20	20	125	25		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		2525	M11	●	●	25	25	150	32		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
		3232	P11	●	●	32	32	170	40		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		

carbide 24

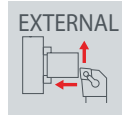
PCBN 65





diamond 85

SDNCN

POSITIVE 7°
with hole

DC □ □



DC □ □	DESCRIPTION				STOCK	DIMENSIONS									
						H	B	L	F						
DC □ □07	SDNCN	0808	E07	●	8	8	70	4	ST-SC0257	ST-WRT08	-	-			
		1010	E07	●	10	10	70	5	ST-SC0257	ST-WRT08	-	-			
		1212	F07	●	12	12	80	6	ST-SC0257	ST-WRT08	-	-			
		1616	H07	●	16	16	100	8	ST-SC0257	ST-WRT08	-	-			
DC □ □11	SDNCN	1212	F11	●	12	12	80	6	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011			
		1616	H11	●	16	16	100	8	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011			
		2020	K11	●	20	20	125	10	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011			
		2525	M11	●	25	25	150	12.5	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011			
		3232	P11	●	32	32	170	16	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011			

carbide  24

PCBN  65

diamond  85

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

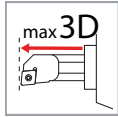
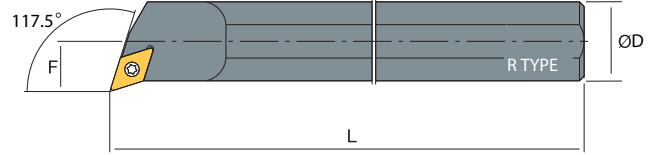
SPARE PARTS

INDEX

^sSDPC

POSITIVE 7° with hole

DC □ □



DC □ □	DESCRIPTION			STOCK		DIMENSIONS				ST-SC0257 ← ST-WRT08		← ST-SC0257				
				R	L	ØD	Ød	L	F							
DC □ □0702	S10K	SDPCR/L	07	●	●	10	>13	125	07		ST-SC0257	ST-WRT08	-	-		
	S12K		07	●	●	12	>16	125	09		ST-SC0257	ST-WRT08	-	-		
DC □ □11T3	S16P	SDPCR/L	11	●	●	16	>21	170	11		ST-SC3511	ST-WRT15	-	-		
	S20R		11	●	●	20	>25	200	13		ST-SC3511	ST-WRT15	-	-		
	S25S		11	●	●	25	>32	250	17		ST-SC3511	ST-WRT15	-	-		
	S32T		11	●	●	32	>40	300	22		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
	S40T		11	●	●	40	>50	350	27		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		

carbide ▶ 24

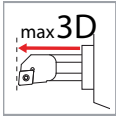
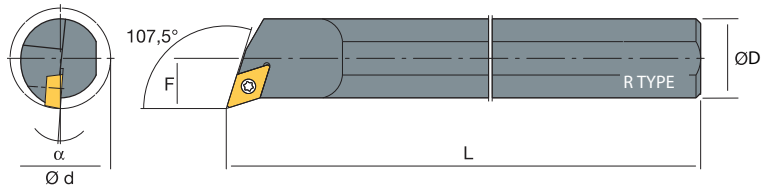
PCBN ▶ 65

diamond ▶ 85

SDQC

POSITIVE 7°
with hole

DC □ □



DC □ □	DESCRIPTION			STOCK		DIMENSIONS										
				R	L	ØD	Ød	L	F							
DC □ □0702	S10K	SDQCR/L	07	●	●	10	>13	125	07		ST-SC0257	ST-WRT08				
	S10P16		07	●	●	16	>13	150	07		ST-SC0257	ST-WRT08				
	S12K		07	●	●	12	>16	125	09		ST-SC0257	ST-WRT08				
	S12K16		07	●	●	16	>16	150	09		ST-SC0257	ST-WRT08				
	S16P		07	●	●	16	>21	170	11		ST-SC0257	ST-WRT08				
DC □ □11T3	S16P	SDQCR/L	11	●	●	16	>21	170	11		ST-SC3511	ST-WRT15				
	S20R		11	●	●	20	>25	200	13		ST-SC3511	ST-WRT15				
	S25S		11	●	●	25	>32	250	17		ST-SC3511	ST-WRT15				
	S32T		11	●	●	32	>40	300	22		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
	S40T		11	●	●	40	>50	350	27		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		

carbide 24

PCBN 65

diamond 85

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

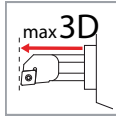
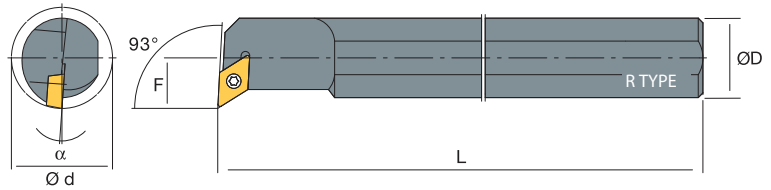
SPARE PARTS

INDEX

^sSDUC

POSITIVE 7°
with hole

DC □ □



DC □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←				
				R	L	ØD	Ød	L	F							
DC □ □0702	S10K	SDUCR/L	07	●	●	10	>13	125	07		ST-SC0257	ST-WRT08				
	S10P16		07	●	●	16	>13	150	07		ST-SC0257	ST-WRT08				
	S12K		07	●	●	12	>16	125	09		ST-SC0257	ST-WRT08				
	S12K16		07	●	●	16	>16	150	09		ST-SC0257	ST-WRT08				
	S16P		07	●	●	16	>21	170	11		ST-SC0257	ST-WRT08				
DC □ □11T3	S16P	SDUCR/L	11	●	●	16	>21	170	11		ST-SC3511	ST-WRT15				
	S20R		11	●	●	20	>25	200	13		ST-SC3511	ST-WRT15				
	S25S		11	●	●	25	>32	250	17		ST-SC3511	ST-WRT15				
	S32T		11	●	●	32	>40	300	22		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
	S40T		11	●	●	40	>50	350	27		ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		

carbide

24

PCBN

65

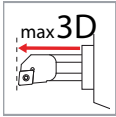
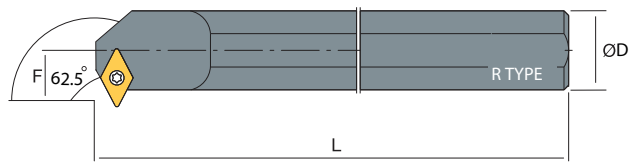
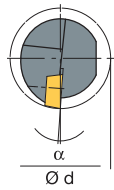
diamond

85

^SSD-C

POSITIVE 7°
with hole

DC □ □



DC □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
DC □ □0702	S10K	SD-CR/L	07	● ●	10	>14	125	09	ST-SC0257	ST-WRT08	-	-		
	S12K		07	● ●	12	>16	125	09	ST-SC0257	ST-WRT08	-	-		
	S16Q		07	● ●	16	>17	180	14	ST-SC0257	ST-WRT08	-	-		
DC □ □11T3	S16Q	SD-CR/L	11	● ●	16	>23	180	14	ST-SC3511	ST-WRT15	-	-		
	S20R		11	● ●	20	>25	200	13	ST-SC3511	ST-WRT15	-	-		
	S25S		11	● ●	25	>32	250	19	ST-SC3511	ST-WRT15	-	-		
	S32T		11	● ●	32	>40	300	23	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		
	S40T		11	● ●	40	>50	350	27	ST-SC3514	ST-WRT15	ST-SHDC11	ST-SC5011		

carbide 24

PCBN 65

diamond 85

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

HOLDERS

TURNING

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

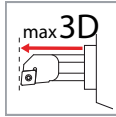
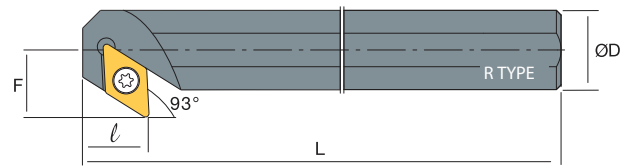
SPARE PARTS

INDEX

^sSDXC

POSITIVE 7°
with hole

DC□□



DC □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←			
				R	L	ØD	Ød	L	F						
DC □ □0702	S12K	SDXCR/L	07	●	●	12	>17	125	09			-	-		
	S16P	SDXCR/L	11	●	●	16	>21	170	11			-	-		
	S20R		11	●	●	20	>25	200	13			-	-		
DC □ □11T3	S25S		11	●	●	25	>32	250	17			-	-		
	S32T		11	●	●	32	>40	300	22			ST-SHDC11	ST-SC5011		
	S40T		11	●	●	40	>50	350	27			ST-SHDC11	ST-SC5011		

carbide ▶ 24

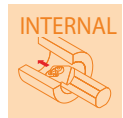
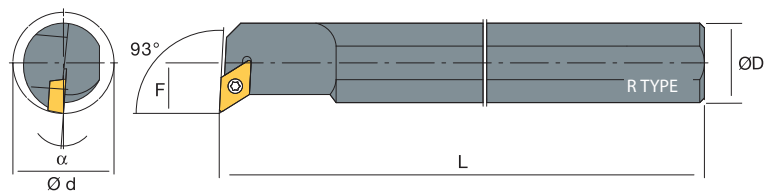
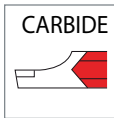
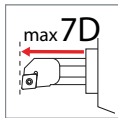
PCBN ▶ 65

diamond ▶ 85

CSDUC

POSITIVE 7°
with hole

DC □ □

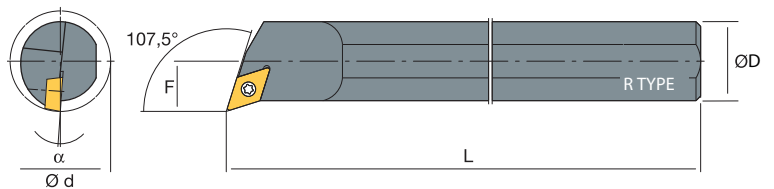
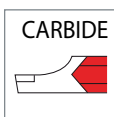
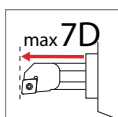
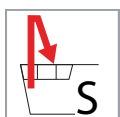


DC □ □	DESCRIPTION			STOCK		DIMENSIONS				ST-SC		ST-WRT			
				R	L	ØD	Ød	L	F						
DC □ □0702	C10N	SDUCR/L	07	●	●	10	>13	160	07	ST-SC02555	ST-WRT08	-	-		
	C12Q		07	●	●	12	>16	180	09	ST-SC02555	ST-WRT08	-	-		
DC □ □11T3	C16X	SDUCR/L	11	●	●	16	>21	220	11	ST-SC3508	ST-WRT15	-	-		
	C20S		11	●	●	20	>25	250	13	ST-SC3508	ST-WRT15	-	-		
	C25T		11	●	●	25	>32	300	17	ST-SC3508	ST-WRT15	-	-		

CSDQC

POSITIVE 7°
with hole

DC □ □



DC □ □	DESCRIPTION			STOCK		DIMENSIONS				ST-SC		ST-WRT			
				R	L	ØD	Ød	L	F						
DC □ □0702	C10N	SDQCR/L	07	●	●	10	>14	160	09	ST-SC02555	ST-WRT08	-	-		
	C12Q		07	●	●	12	>18	180	11	ST-SC02555	ST-WRT08	-	-		
DC □ □11T3	C16X	SDQCR/L	11	●	●	16	>20	220	15	ST-SC3508	ST-WRT15	-	-		
	C20S		11	●	●	20	>25	250	19	ST-SC3508	ST-WRT15	-	-		
	C25T		11	●	●	25	>32	300	24	ST-SC3508	ST-WRT15	-	-		

carbide ▶ 24

PCBN ▶ 65

diamond ▶ 85

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

CDJN

NEGATIVE
without hole

DN □ □

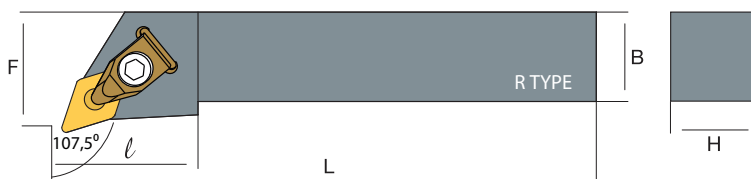
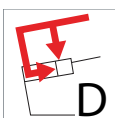


DN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
DN □ 1507	CDJNR/L	2525	M15	●	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR01	ST-SC630	ST-WR0030
		3232	P15	●	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR01	ST-SC630	ST-WR0030

DDHN

NEGATIVE
with hole

DN □ □



DN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
DN □ 1504	DDHNR/L	2525	M1504	●	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P1504	●	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
DN □ 1506	DDHNR/L	2020	K15	●	●	20	20	125	25	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M15	●	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P15	●	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

carbide

26

PCBN

66

diamond

86

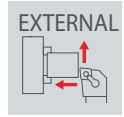
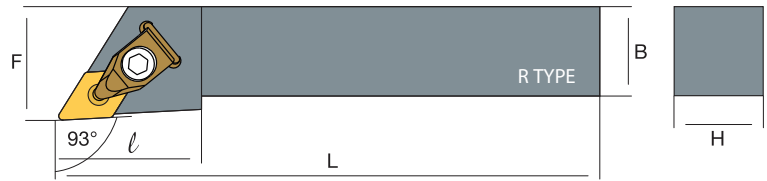
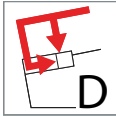
ceramic

104

DDJN

NEGATIVE
 with hole

DN □ □



DN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
DN □ □1104	DDJNR/L	1616	H11	●	●	16	16	100	20	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
		2020	K11	●	●	20	20	125	25	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
		2525	M11	●	●	25	25	150	32	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
DN □ □1504	DDJNR/L	2020	K1504	●	●	20	20	125	25	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		2525	M1504	●	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		3232	P1504	●	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
DN □ □1506	DDJNR/L	2020	K15	●	●	20	20	125	25	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		2525	M15	●	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		3232	P15	●	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		4040	S15	●	●	40	40	250	50	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030

carbide 26

PCBN 66

diamond 86

ceramic 104

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

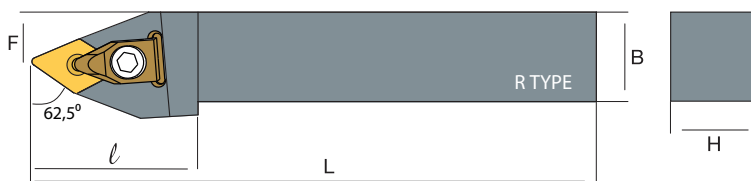
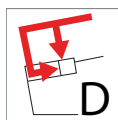
SPARE PARTS

INDEX

DDNNN

NEGATIVE
with hole

DN □ □

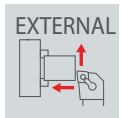


CN □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
DN □ □1104	DDNNN	1616	H11	●	16	16	100	20	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
		2020	K11	●	20	20	125	25	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
		2525	M11	●	25	25	150	32	ST-SHDN11	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
DN □ □1504	DDNNN	2020	K1504	●	20	20	125	25	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		2525	M1504	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		3232	P1504	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
DN □ □1506	DDNNN	2020	K15	●	20	20	125	25	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		2525	M15	●	25	25	150	32	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		3232	P15	●	32	32	170	40	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030
		4040	S15	●	40	40	250	50	ST-SHDN15	ST-SC0410	ST-CS002	ST-SPR04	ST-SC630	ST-WR0030

PDJN

NEGATIVE
 with hole

DN □ □



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

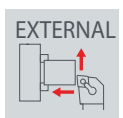
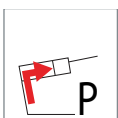
INDEX

DN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
DN □ □1506	PDJNR/L	2020	K15	●	●	20	20	125	25	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M15	●	●	25	25	150	32	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P15	●	●	32	32	170	40	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		4040	S15	●	●	40	40	250	50	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030

PDNNN

NEGATIVE
 with hole

DN □ □



DN □ □	DESCRIPTION			STOCK		DIMENSIONS								
						H	B	L	F					
DN □ □1506	PDNNN	2020	K15	●	●	20	20	125	25	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M15	●	●	25	25	150	32	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P15	●	●	32	32	170	40	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		4040	S15	●	●	40	40	250	50	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030

carbide

26

PCBN

66

diamond

86

ceramic

104

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

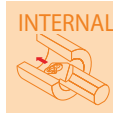
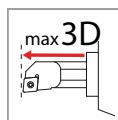
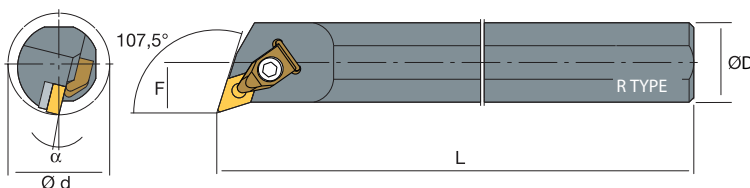
SPARE PARTS

INDEX

^SDDQN

NEGATIVE
with hole

DN □ □

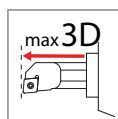
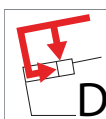
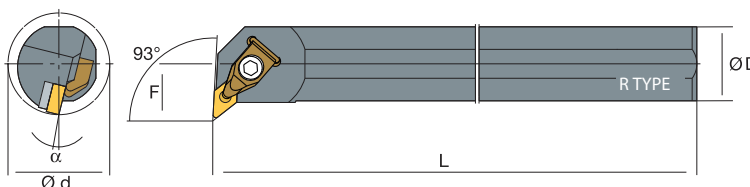


DN □ □	DESCRIPTION	STOCK		DIMENSIONS											
		R	L	ØD	Ød	L	F								
DN □ □1104	S25S DDQNR/L	11	● ●	25	32	250	17	ST-SHDN11	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030		
	S32T	11	● ●	32	40	300	22	ST-SHDN11	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030		
DN □ □1506	S25S DDQNR/L	15	● ●	25	32	250	17	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		
	S32T	15	● ●	32	40	300	22	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		
	S40U	15	● ●	40	50	350	27	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		
	S50V	15	● ●	50	63	400	35	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		

^SDDUN

NEGATIVE
with hole

DN □ □



DN □ □	DESCRIPTION	STOCK		DIMENSIONS											
		R	L	ØD	Ød	L	F								
DN □ □1104	S25S DDUNR/L	11	● ●	25	32	250	17	ST-SHDN11	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030		
	S32T	11	● ●	32	40	300	22	ST-SHDN11	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030		
DN □ □1506	S25S DDUNR/L	15	● ●	25	32	250	17	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		
	S32T	15	● ●	32	40	300	22	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		
	S40U	15	● ●	40	50	350	27	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		
	S50V	15	● ●	50	63	400	35	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030		

carbide 26

PCBN 66

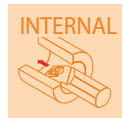
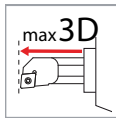
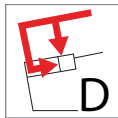
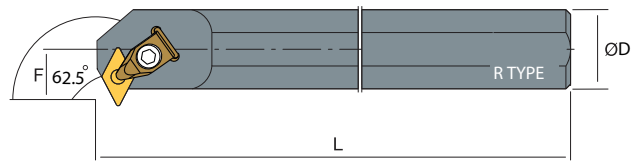
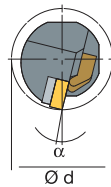
diamond 86

ceramic 104

^SDD-N

NEGATIVE
with hole

DN □ □

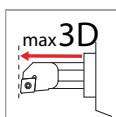
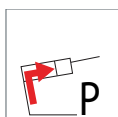
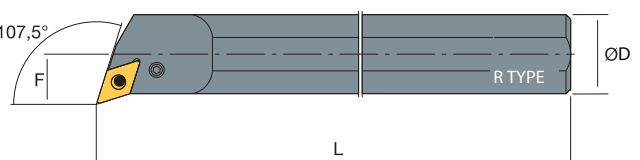


DN □ □	DESCRIPTION		STOCK		DIMENSIONS										
			R	L	ØD	Ød	L	F							
DN □ □1104	S25S	DD-NR/L	11	●	●	25	32	250	17	ST-SHDN11	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
	S32T	DD-NR/L	15	●	●	32	44	300	26	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
DN □ □1506	S40U		15	●	●	40	52	350	29	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S50V		15	●	●	50	67	400	35	ST-SHDN15	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

^SPDQN

NEGATIVE
with hole

DN □ □



DN □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
DN □ □1506	S25S	PDQNR/L	15	●	●	25	40	250	17	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S32T		15	●	●	32	40	300	22	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S40U		15	●	●	40	50	350	27	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S50V		15	●	●	50	63	400	35	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030

carbide 26

PCBN 66

diamond 86

ceramic 104

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

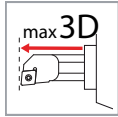
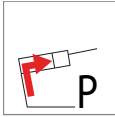
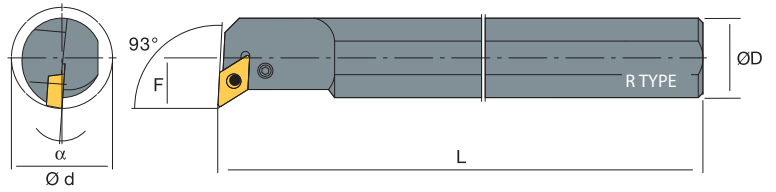
SPARE PARTS

INDEX

sPDUN

NEGATIVE with hole

DN □ □



DN □ □	DESCRIPTION		STOCK		DIMENSIONS								
			R	L	ØD	Ød	L	F					
DN □ □1506	S32T	PDUNR/L	15	● ●	32	40	300	22	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S40U		15	● ●	40	50	350	27	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
	S50V		15	● ●	50	63	400	35	ST-SHDN15	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030

carbide ▶ 26

PCBN ▶ 66

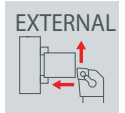
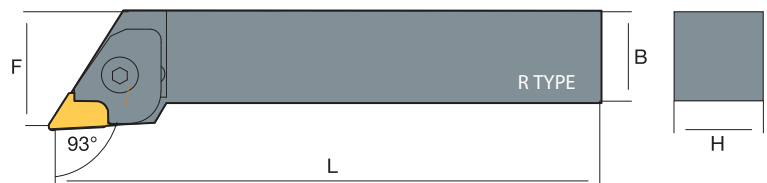
diamond ▶ 86

ceramic ▶ 104

CKJN

NEGATIVE
without hole

KN □ □

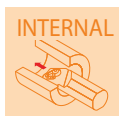
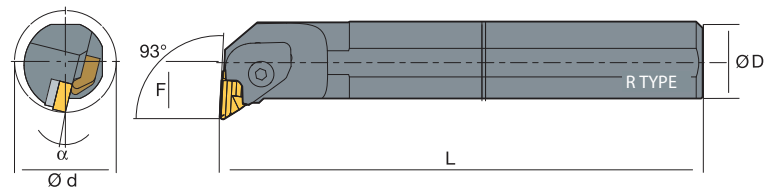
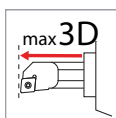


KN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
KN □ N1604	CKJNR/L	2020	K16	●	●	25	25	125		ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
		2525	M16	●	●	25	25	150		ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
		3232	P16	●	●	32	32	170		ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
		4040	S16	●	●	40	40	250		ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050

^SCKUN

NEGATIVE
without hole

KN □ □



KN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	ØD	Ød	L	F						
KN □ □1604	S25S	CKUNR/L	16	●	●	25	34	250	17	ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
	S28S		16	●	●	28	38	290	17	ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
	S32T		16	●	●	32	40	300	22	ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
	S40U		16	●	●	40	50	350	27	ST-SHKN16	ST-SC0310	ST-CS011	-	ST-SC630	ST-WR0050
	S50V		16	●	●	50	63	400	35	ST-SHKN16	ST-SC0310	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

carbide

29

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

CRDCN

POSITIVE
 without hole

RC □ □



RC □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
RCGX0606	CRDCN	2020	K06	●	●	20	20	125	10	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
		2525	M06	●	●	25	25	150	12.5	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
		3232	P06	●	●	32	32	170	16	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
		4040	S06	●	●	40	40	250	20	ST-SHRC06	ST-SCRC6	ST-CSRC6	-	ST-SCRC6	ST-WR0040
RCGX0907	CRDCN	2020	K09	●	●	20	20	125	10	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
		2525	M09	●	●	25	25	150	12.5	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
		3232	P09	●	●	32	32	170	16	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
		4040	S09	●	●	40	40	250	20	ST-SHRC06	ST-SCRC9	ST-CSRC9	-	ST-SCRC9	ST-WR0040
RCGX1207	CRDCN	2020	K12	●	●	20	20	125	10	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
		2525	M12	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
		3232	P12	●	●	32	32	170	16	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
		4040	S12	●	●	40	40	250	20	ST-SHRC06	ST-SCR12	ST-CSR12	-	ST-SCR12	ST-WR0040
RCGX1510	CRDCN	2020	K15	●	●	20	20	125	10	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
		2525	M15	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
		3232	P15	●	●	32	32	170	16	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
		4040	S15	●	●	40	40	250	20	ST-SHRC06	ST-SCR15	ST-CSR15	-	ST-SCR15	ST-WR0040
RCGX1910	CRDCN	2020	K19	●	●	20	20	125	10	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
		2525	M19	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
		3232	P19	●	●	32	32	170	16	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
		4040	S19	●	●	40	40	250	20	ST-SHRC06	ST-SCR19	ST-CSR19	-	ST-SCR19	ST-WR0040
RCGX2512	CRDCN	2020	K25	●	●	20	20	125	10	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040
		2525	M25	●	●	25	25	150	12.5	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040
		3232	P25	●	●	32	32	170	16	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040
		4040	S25	●	●	40	40	250	20	ST-SHRC06	ST-SCR25	ST-CSR25	-	ST-SCR25	ST-WR0040

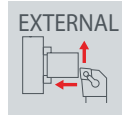
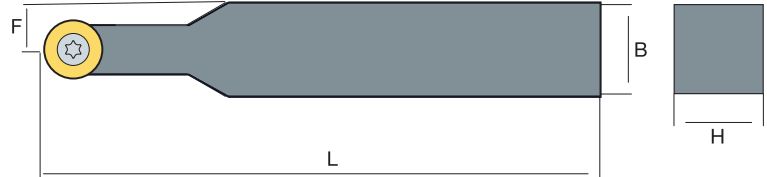
ceramic

106

SRDCN

POSITIVE 7°
with hole

RC □ □



RC □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
RC □ □0602	SRDCN	1616	H06	●	16	16	100	8	ST-SC2507	ST-WRT08	-	-		
		2020	K06	●	20	20	125	10	ST-SC2507	ST-WRT08	-	-		
		2525	M06	●	25	25	150	12.5	ST-SC2507	ST-WRT08	-	-		
RC □ □0803	SRDCN	1616	H08	●	16	16	100	8	ST-SC3009	ST-WRT08	-	-		
		2020	K08	●	20	20	125	10	ST-SC3009	ST-WRT08	-	-		
		2525	M08	●	25	25	150	12.5	ST-SC3009	ST-WRT08	-	-		
		3232	P08	●	32	32	170	16	ST-SC3009	ST-WRT08	-	-		
RC □ □1003	SRDCN	1616	H10	●	16	16	100	8	ST-SC3511	ST-WRT15	-	-		
		2020	K10	●	20	20	125	10	ST-SC3511	ST-WRT15	-	-		
		2525	M10	●	25	25	150	12.5	ST-SC3511	ST-WRT15	-	-		
		3232	P10	●	32	32	170	16	ST-SC3511	ST-WRT15	-	-		
RC □ □1204	SRDCN	2020	K12	●	20	20	125	10	ST-SC3511	ST-WRT15	-	-		
		2525	M12	●	25	25	150	12.5	ST-SC3511	ST-WRT15	-	-		
		3232	P12	●	32	32	170	16	ST-SC3511	ST-WRT15	-	-		
RC □ □1605	SRDCN	2525	M16	●	25	25	150	12.5	ST-SC0512	ST-WRT20	-	-		
		3232	P16	●	32	32	170	16	ST-SC0512	ST-WRT20	-	-		
RC □ □2006	SRDCN	2525	M20	●	25	25	150	12.5	ST-SC0616	ST-WRT20	-	-		
		3232	P20	●	32	32	170	16	ST-SC0616	ST-WRT20	-	-		
		4040	S20	●	40	40	250	20	ST-SC3514	ST-WRT20	-	-		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

carbide

30

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

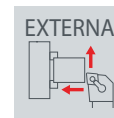
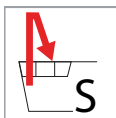
SPARE PARTS

INDEX

SRGC

POSITIVE 7° with hole

RC □ □



RC □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
RC □ □0602	SRGCR/L	1616	H06	●	●	16	16	100	20	ST-SC2507	ST-WRT08	-	-		
		2020	K06	●	●	20	20	125	25	ST-SC2507	ST-WRT08	-	-		
		2525	M06	●	●	25	25	150	32	ST-SC2507	ST-WRT08	-	-		
RC □ □0803	SRGCR/L	1616	H08	●	●	16	16	100	20	ST-SC3009	ST-WRT08	-	-		
		2020	K08	●	●	20	20	125	25	ST-SC3009	ST-WRT08	-	-		
		2525	M08	●	●	25	25	150	32	ST-SC3009	ST-WRT08	-	-		
		3232	P08	●	●	32	32	170	40	ST-SC3009	ST-WRT08	-	-		
RC □ □1003	SRGCR/L	1616	H10	●	●	16	16	100	20	ST-SC3511	ST-WRT15	-	-		
		2020	K10	●	●	20	20	125	25	ST-SC3511	ST-WRT15	-	-		
		2525	M10	●	●	25	25	150	32	ST-SC3511	ST-WRT15	-	-		
		3232	P10	●	●	32	32	170	40	ST-SC3511	ST-WRT15	-	-		
RC □ □1204	SRGCR/L	2020	K12	●	●	20	20	125	25	ST-SC3511	ST-WRT15	-	-		
		2525	M12	●	●	25	25	150	32	ST-SC3511	ST-WRT15	-	-		
		3232	P12	●	●	32	32	170	40	ST-SC3511	ST-WRT15	-	-		
RC □ □1605	SRGCR/L	2525	M16	●	●	25	25	150	32	ST-SC0512	ST-WRT20	-	-		
		3232	P16	●	●	32	32	170	40	ST-SC0512	ST-WRT20	-	-		
RC □ □2006	SRGCR/L	2525	M20	●	●	25	25	150	32	ST-SC0616	ST-WRT20	-	-		
		3232	P20	●	●	32	32	170	40	ST-SC0616	ST-WRT20	-	-		

carbide

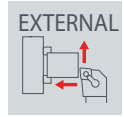


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SRHC

POSITIVE 7°
 with hole

RC □ □



RC □ □	DESCRIPTION				STOCK	DIMENSIONS				←	←				
						H	B	L	F						
RC □ □10T3	SRHCR/L	2020	K10	●	20	20	120	20	ST-SC3511	ST-WRT15	-	-			
		2525	M10	●	25	25	125	25	ST-SC3511	ST-WRT15	-	-			
RC □ □1204	SRHCR/L	2020	K12	●	20	20	120	20	ST-SC3514	ST-WRT15	-	-			
		2525	M12	●	25	25	125	25	ST-SC3514	ST-WRT15	-	-			
RC □ □1606	SRHCR/L	2020	K16	●	20	20	120	20	ST-SC0512	ST-WRT20	-	-			
		2525	M16	●	25	25	125	25	ST-SC0512	ST-WRT20	-	-			

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

carbide

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

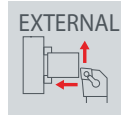
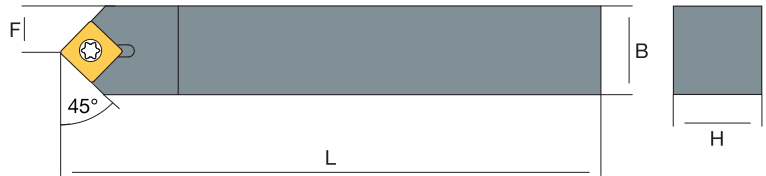
SPARE PARTS

INDEX

SSSDCN

POSITIVE 7°
 with hole

SC □ □



SC □ □	DESCRIPTION				STOCK	DIMENSIONS				←	←			
						H	B	L	F					
SC □ □ 09T3	SSSDCN	1212	F09	●	12	12	80	6	ST-SC3511	ST-WRT15	-	-		
		1616	H09	●	16	16	100	8	ST-SC3514	ST-WRT15	ST-SHSC09	ST-SC5011		
		2020	K09	●	20	20	125	10	ST-SC3514	ST-WRT15	ST-SHSC09	ST-SC5011		
		2525	M09	●	25	25	150	12.5	ST-SC3514	ST-WRT15	ST-SHSC09	ST-SC5011		
SC □ □ 1204	SSSDCN	1616	H12	●	16	16	100	8	ST-SC4016	ST-WRT15	ST-SHSC12	ST-SC6011		
		2020	K12	●	20	20	125	10	ST-SC4016	ST-WRT15	ST-SHSC12	ST-SC6011		
		2525	M12	●	25	25	150	12.5	ST-SC4016	ST-WRT15	ST-SHSC12	ST-SC6011		

carbide

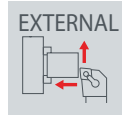
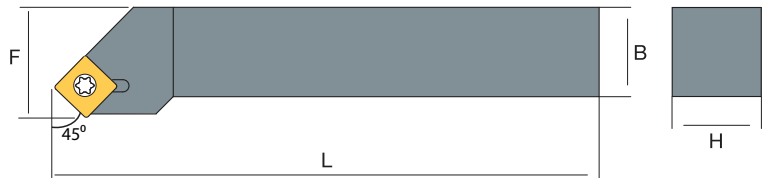


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SSSC

POSITIVE 7°
 with hole

SC □ □



SC □ □	DESCRIPTION			STOCK		DIMENSIONS				←	←				
				R	L	H	B	L	F						
SC □ □09T3	SSSCR/L	1212	F09	●	●	12	12	80	16	ST-SC3511	ST-WRT15	-	-		
		1616	H09	●	●	16	16	100	20	ST-SC3511	ST-WRT15	ST-SHSC09	ST-SC5011		
		2020	K09	●	●	20	20	125	25	ST-SC3511	ST-WRT15	ST-SHSC09	ST-SC5011		
		2525	M09	●	●	25	25	150	32	ST-SC3511	ST-WRT15	ST-SHSC09	ST-SC5011		
SC □ □1204	SSSCR/L	1616	H12	●	●	16	16	100	20	ST-SC4016	ST-WRT15	ST-SHSC12	ST-SC6011		
		2020	K12	●	●	20	20	125	25	ST-SC4016	ST-WRT15	ST-SHSC12	ST-SC6011		
		2525	M12	●	●	25	25	150	32	ST-SC4016	ST-WRT15	ST-SHSC12	ST-SC6011		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

carbide

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

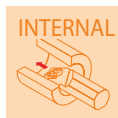
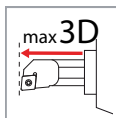
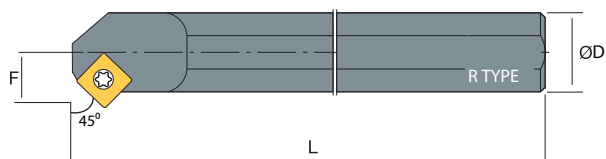
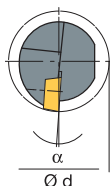
SPARE PARTS

INDEX

SSSSC

POSITIVE 7°
 with hole

SC □ □

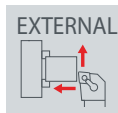
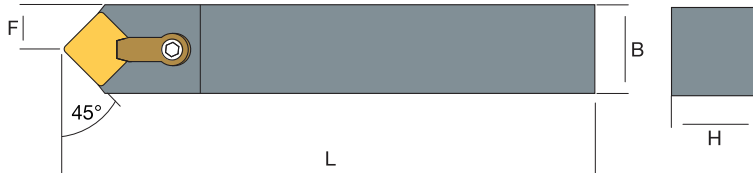


SC □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	ØD	Ød	L	F						
SC □ □09T3	S16P	SSSCR/L	09	●	●	16	>21	170	11	ST-SC3511	ST-WRT15	-	-		
	S20R		09	●	●	20	>25	200	13	ST-SC3511	ST-WRT15	-	-		
	S25S		09	●	●	25	>32	250	17	ST-SC3514	ST-WRT15	ST-SHSC09	ST-SC5011		
SC □ □1204	S32T	SSSCR/L	12	●	●	32	>40	300	22	ST-SC4016	ST-WRT20	ST-SHSC12	ST-SC6011		
	S40T		12	●	●	40	>50	350	27	ST-SC4016	ST-WRT20	ST-SHSC12	ST-SC6011		

CSDNN

NEGATIVE
 without hole

SN □ □



SN □ □	DESCRIPTION			STOCK		DIMENSIONS									
						H	B	L	F						
SN □ □1207	CSDNN	2525	M12	●		25	25	150	32	ST-SHSN12	ST-SC0410	ST-CS010	ST-SR001	ST-SC630	ST-WR0030
		3232	P12	●		32	32	170	40	ST-SHSN12	ST-SC0410	ST-CS010	ST-SR001	ST-SC630	ST-WR0030

carbide

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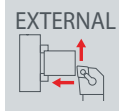
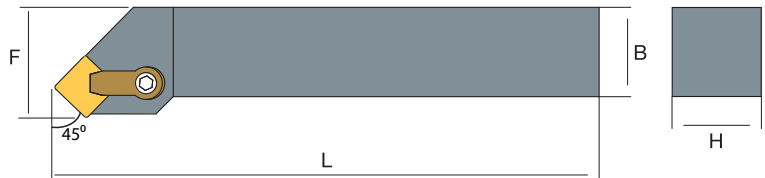
ceramic

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CSSN

NEGATIVE
 without hole

SN □ □

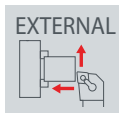
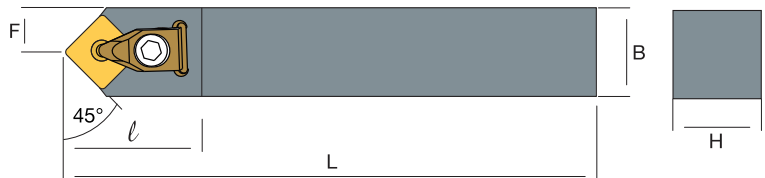
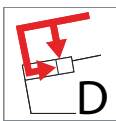


SN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
SN□N1207	CSSNN	2525	M12	●	●	25	25	150	32	ST-SHSN12	ST-SC0410	ST-CS010	ST-SR001	ST-SC630	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHSN12	ST-SC0410	ST-CS010	ST-SR001	ST-SC630	ST-WR0030

DSDNN

NEGATIVE
 with hole

SN □ □



SN □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
SN□□1204	DSDNN	2020	K12	●	20	20	125	10	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M12	●	25	25	150	12.5	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P12	●	32	32	170	16	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
SN□□1504	DSDNN	2525	M15	●	25	25	150	12.5	ST-SHSN15	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		3232	P15	●	32	32	170	16	ST-SHSN15	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		4040	S15	●	40	40	250	20	ST-SHSN15	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040

carbide

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PCBN

70

ceramic

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

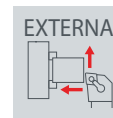
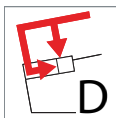
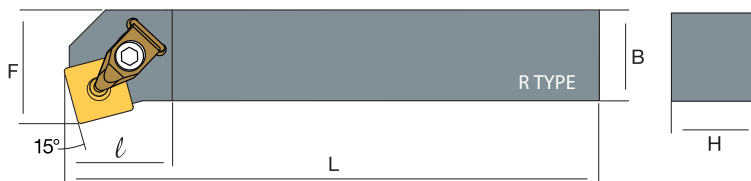
SPARE PARTS

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DSKN

NEGATIVE with hole

SN □ □

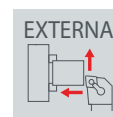
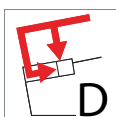


SN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
SN □ □1204	DSKNR/L	2020	K12	●	●	20	20	125	25	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M12	●	●	25	25	150	32	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
SN □ □1504	DSKNR/L	2525	M15	●	●	25	25	150	32	ST-SHSN15	ST-SC0616	ST-CS003	-	ST-SC6307	ST-WR0040
		3232	P15	●	●	32	32	170	40	ST-SHSN15	ST-SC0616	ST-CS003	-	ST-SC6307	ST-WR0040

DSSN

NEGATIVE with hole

SN □ □



SN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
SN □ □1204	DSSNR/L	2020	K12	●	●	20	20	125	25	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		2525	M12	●	●	25	25	150	32	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
SN □ □1504	DSSNR/L	2525	M15	●	●	25	25	150	32	ST-SHSN15	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		3232	P15	●	●	32	32	170	40	ST-SHSN15	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040
		4040	S15	●	●	40	40	250	50	ST-SHSN15	ST-SC6169	ST-CS003	-	ST-SC6307	ST-WR0040

carbide

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PCBN

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ceramic

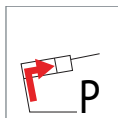
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TURNING

PSBN

NEGATIVE
with hole

SN □ □



SN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
SN □ □1204	PSBNR/L	2020	K12	●	●	20	20	125	17	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	●	25	25	150	22	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	●	32	32	170	27	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
SN □ □1504	PSBNR/L	2525	M15	●	●	25	25	150	22	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
		3232	P15	●	●	32	32	170	27	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
SN □ □1906	PSBNR/L	3232	P19	●	●	32	32	170	27	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	●	40	40	250	35	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

carbide **32**

PCBN **70**

ceramic **108**

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

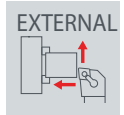
SPARE PARTS

INDEX

PSDNN

NEGATIVE
with hole

SN □□



SN □□	DESCRIPTION			STOCK	DIMENSIONS								
					H	B	L	F					
SN □ □1204	PSDNN	2020	K12	●	20	20	125	10	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	25	25	150	12.5	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	32	32	170	16	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
SN □ □1504	PSDNN	2525	M15	●	25	25	150	12.5	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
		3232	P15	●	32	32	170	16	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
SN □ □1906	PSDNN	3232	P19	●	32	32	170	16	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	40	40	250	20	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

carbide 31

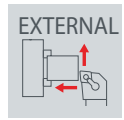
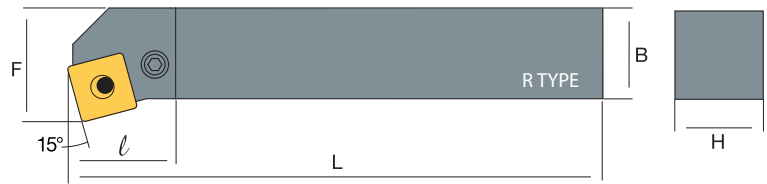
PCBN 70

ceramic 108

PSKN

NEGATIVE
with hole

SN □ □



SN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
SN □ □1204	PSKNR/L	2020	K12	●	●	20	20	125	25	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	●	25	25	150	32	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
SN □ □1504	PSKNR/L	2525	M15	●	●	25	25	150	32	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
		3232	P15	●	●	32	32	170	40	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
SN □ □1906	PSKNR/L	3232	P19	●	●	32	32	170	40	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	●	40	40	250	50	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

carbide 32

PCBN 70

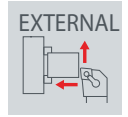
ceramic 108

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
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PSSN

NEGATIVE with hole

SN □ □



SN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
SN □ □1204	PSSNR/L	2020	K12	●	●	20	20	125	25	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		2525	M12	●	●	25	25	150	32	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
		3232	P12	●	●	32	32	170	40	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030
SN □ □1504	PSSNR/L	3232	P15	●	●	32	32	170	40	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050
SN □ □1906	PSSNR/L	3232	P19	●	●	32	32	170	40	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060
		4040	S19	●	●	40	40	250	50	ST-SHSN19	ST-SPR003	ST-LV003	ST-SC1025	ST-WR0060

carbide 31

PCBN 70

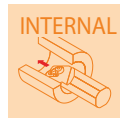
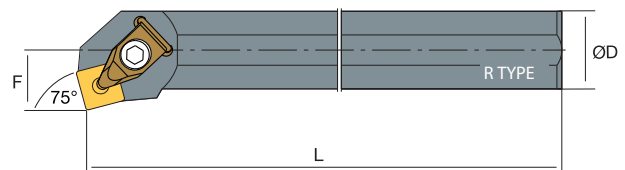
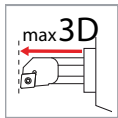
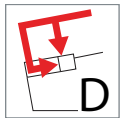
ceramic 108

TURNING

^SDSKN

NEGATIVE
with hole

SN



SN 	DESCRIPTION		STOCK		DIMENSIONS										
			R	L	ØD	Ød	L	F	S	H	C	S	P	SC	CS
SN 1204	S25S	DSKNR/L	12	●	●	25	32	250	17	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
	S32T		12	●	●	32	44	300	22	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S40U		12	●	●	40	52	350	27	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S50V		12	●	●	50	67	400	35	ST-SHSN12	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
SN 1506	S32T	DSKNR/L	15	●	●	32	44	300	22	ST-SHSN15	ST-SC0616	ST-CS003	-	ST-SC6307	ST-WR0040
	S40U		15	●	●	40	52	350	27	ST-SHSN15	ST-SC0616	ST-CS003	-	ST-SC6307	ST-WR0040
	S50V		15	●	●	50	67	400	35	ST-SHSN15	ST-SC0616	ST-CS003	-	ST-SC6307	ST-WR0040

carbide 32

PCBN 70

ceramic 108

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- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Holders

TURNING

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

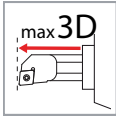
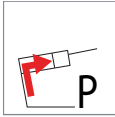
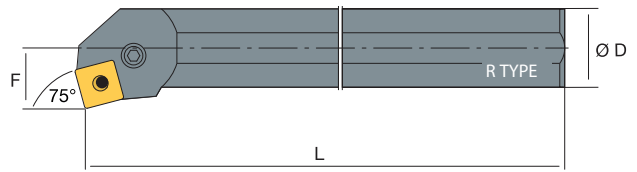
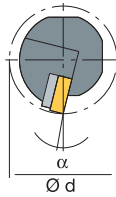
SPARE PARTS






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sPSKN

NEGATIVE with hole

SN □ □



SN □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
SN □ □1204	S25S	PSKNR/L	12	● ●	25	32	250	17	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030	
	S32T		12	● ●	32	40	300	22	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030	
	S40U		12	● ●	40	50	350	27	ST-SHSN12	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030	
SN □ □1506	S32T	PSKNR/L	15	● ●	32	40	300	22	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050	
	S40U		15	● ●	40	50	350	27	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050	
	S50V		15	● ●	50	63	400	35	ST-SHSN15	ST-SPR002	ST-LV002	ST-SC822	ST-WR0050	

carbide  31

PCBN  70

ceramic  108

TURNING

STFC

POSITIVE 7°
with hole

TC

TC 	DESCRIPTION			STOCK		DIMENSIONS				←	←					
				R	L	H	B	L	F					α		
TC 0902	STFCR/L	0808	E09	●	●	08	08	70	10		ST-SC0226	ST-WRT07	-	-		
		1010	E09	●	●	10	10	70	12		ST-SC0257	ST-WRT07	-	-		
TC 1102	STFCR/L	1212	F11	●	●	12	12	80	16		ST-SC0257	ST-WRT08	-	-		
		1616	H11	●	●	16	16	100	20		ST-SC0257	ST-WRT08	-	-		
TC 16T3	STFCR/L	1616	H16	●	●	16	16	100	20		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
		2020	K16	●	●	20	20	125	25		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
		2525	M16	●	●	25	25	150	32		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
		3232	P16	●	●	32	32	170	40		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
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carbide ▶ 36

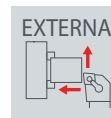
PCBN ▶ 71

diamond ▶ 87

STGC

POSITIVE 7°
with hole

TC □ □



TC □ □	DESCRIPTION	STOCK		DIMENSIONS													
		R	L	H	B	L	F	α									
TC □ □0902	STGCR/L	0808	E09	●	●	08	08	70	10			ST-SC0226	ST-WRT07	-	-		
		1010	E09	●	●	10	10	70	12			ST-SC0257	ST-WRT07	-	-		
TC □ □1102	STGCR/L	1212	F11	●	●	12	12	80	16			ST-SC0257	ST-WRT08	-	-		
		1616	H11	●	●	16	16	100	20			ST-SC0257	ST-WRT08	-	-		
TC □ □16T3	STGCR/L	1616	H16	●	●	16	16	100	20			ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
		2020	K16	●	●	20	20	125	25			ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
		2525	M16	●	●	25	25	150	32			ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
		3232	P16	●	●	32	32	170	40			ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		

carbide 36

PCBN 71

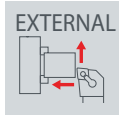
diamond 87

TURNING

STJC

POSITIVE 7°
with hole

TC □□



TC □□	DESCRIPTION	STOCK		DIMENSIONS						ST-SC0226	ST-WRT07	-	-			
		R	L	H	B	L	F	α								
TC □□0902	STJCR/L	0808	E09	●	●	08	08	70	10							
		1010	E09	●	●	10	10	70	12	ST-SC0257	ST-WRT07	-	-			
TC □□1102	STJCR/L	1212	F11	●	●	12	12	80	16	ST-SC0257	ST-WRT08	-	-			
		1616	H11	●	●	16	16	100	20	ST-SC0257	ST-WRT08	-	-			
TC □□16T3	STJCR/L	1616	H16	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011			
		2020	K16	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011			
		2525	M16	●	●	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011			
		3232	P16	●	●	32	32	170	40	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011			

- TURNING
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TURNING

GROOVING

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DRILLS

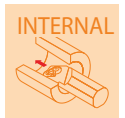
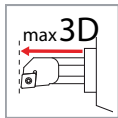
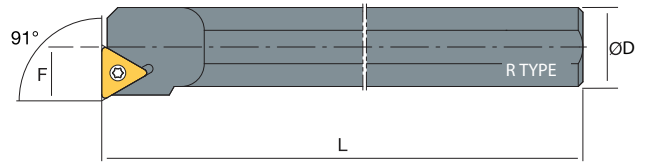
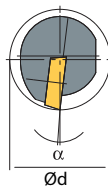
SPARE PARTS

INDEX

^sSTFC

POSITIVE 7° with hole

TC □ □



TC □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←				
				R	L	ØD	Ød	L	F							
TC □ □06T1	S0610F	STFCR/L	06	●	●	10	>08	125	04		ST-SC0204	ST-WRT06	-	-		
TC □ □0902	S10K	STFCR/L	09	●	●	10	>13	125	07		ST-SC0226	ST-WRT07	-	-		
	S12K		09	●	●	12	>17	125	09		ST-SC0226	ST-WRT07	-	-		
TC □ □1102	S10K	STFCR/L	11	●	●	10	>13	125	07		ST-SC0257	ST-WRT08	-	-		
	S12K		11	●	●	12	>17	125	09		ST-SC0257	ST-WRT08	-	-		
	S16P		11	●	●	16	>21	170	11		ST-SC0257	ST-WRT08	-	-		
	S20R		11	●	●	20	>25	200	13		ST-SC0257	ST-WRT08	-	-		
TC □ □16T3	S16P	STFCR/L	16	●	●	16	>21	170	11		ST-SC3511	ST-WRT15	-	-		
	S20R		16	●	●	20	>25	200	13		ST-SC3511	ST-WRT15	-	-		
	S25S		16	●	●	25	>32	250	17		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
	S32T		16	●	●	32	>40	300	22		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
	S40T		16	●	●	40	>50	350	27		ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		

carbide 36

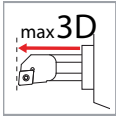
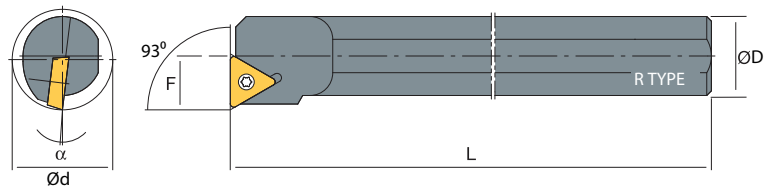
PCBN 71

diamond 87

s^sSTUC

POSITIVE 7°
 with hole

TC



TC 	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
TC 0902	S10K	STUCR/L	09	● ●	10	>13	125	07	ST-SC0226	ST-WRT07	-	-		
	S12K		09	● ●	12	>17	125	09	ST-SC0226	ST-WRT07	-	-		
TC 1102	S10K	STUCR/L	11	● ●	10	>13	125	07	ST-SC0257	ST-WRT08	-	-		
	S12K		11	● ●	12	>17	125	09	ST-SC0257	ST-WRT08	-	-		
	S16P		11	● ●	16	>21	170	11	ST-SC0257	ST-WRT08	-	-		
	S20R		11	● ●	20	>25	200	13	ST-SC0257	ST-WRT08	-	-		
TC 16T3	S16P	STUCR/L	16	● ●	16	>21	170	11	ST-SC3511	ST-WRT15	-	-		
	S20R		16	● ●	20	>25	200	13	ST-SC3511	ST-WRT15	-	-		
	S25S		16	● ●	25	>32	250	17	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
	S32T		16	● ●	32	>40	300	22	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		
	S40T		16	● ●	40	>50	350	27	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011		

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

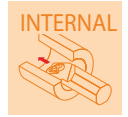
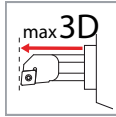
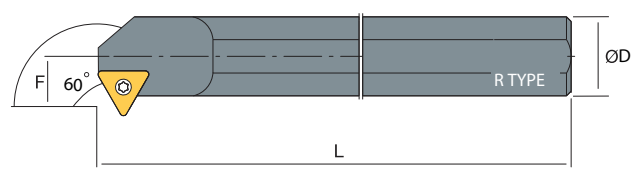
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^sST-C

POSITIVE 7° with hole

TC □ □



TC □ □	DESCRIPTION			STOCK		DIMENSIONS				ST-SC0226 ← ST-WRT07		← ST-SHTC16 ST-SC5011	
				R	L	ØD	Ød	L	F				
TC □ □0902	S12K	ST-CR/L	09	●	●	12	>17	125	09				
TC □ □1102	S12K	ST-CR/L	11	●	●	12	>17	125	09	ST-SC0257	ST-WRT08	-	-
	S16P		11	●	●	16	>21	170	11	ST-SC0257	ST-WRT08	-	-
TC □ □16T3	S20R		11	●	●	20	>25	200	13	ST-SC0257	ST-WRT08	-	-
	S16P	ST-CR/L	16	●	●	16	>21	170	11	ST-SC3511	ST-WRT15	-	-
	S20R		16	●	●	20	>25	200	13	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011
	S25S		16	●	●	25	>32	250	17	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011
	S32T		16	●	●	32	>40	300	22	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011
	S40T		16	●	●	40	>50	350	27	ST-SC3514	ST-WRT15	ST-SHTC16	ST-SC5011

carbide 36

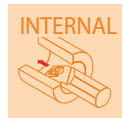
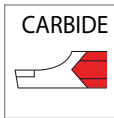
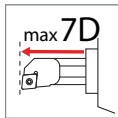
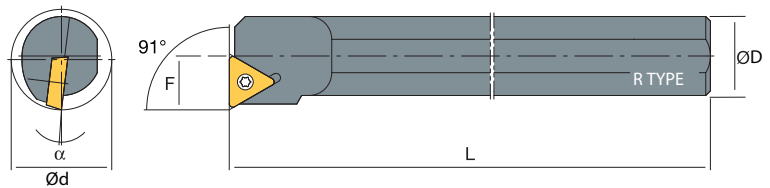
PCBN 71

diamond 87

C STFC

POSITIVE 7°
with hole

TC □ □

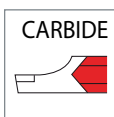
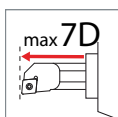
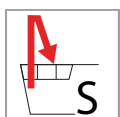
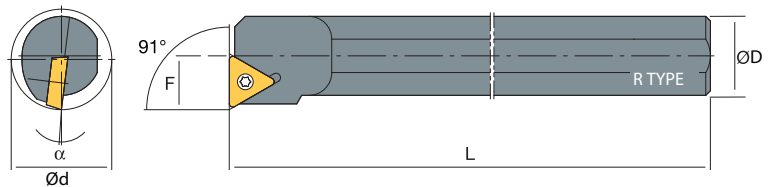


TC □ □	DESCRIPTION			STOCK		DIMENSIONS										
				R	L	ØD	Ød	L	F							
TC □ □1102	C10L	STFCR/L	11	●	●	10	>12	160	09	ST-SC02555	ST-WRT08	-	-			
	C12Q		11	●	●	12	>16	180	11	ST-SC02555	ST-WRT08	-	-			
	C16X		11	●	●	16	>20	220	15	ST-SC02555	ST-WRT08	-	-			
	C20S		11	●	●	20	>25	250	19	ST-SC02555	ST-WRT08	-	-			
	C25T		11	●	●	25	>32	300	24	ST-SC02555	ST-WRT08	-	-			

C STFP

POSITIVE 11°
with hole

TP □ □



TP □ □	DESCRIPTION			STOCK		DIMENSIONS										
				R	L	ØD	Ød	L	F							
TP □ □0804	C08L	STFPR/L	08	●	●	08	>10	140	04	ST-SC02245	ST-WRT06	-	-			
TP □ □1103	C10N	STFPR/L	11	●	●	10	>12	160	09	ST-SC02555	ST-WRT08	-	-			
	C12Q		11	●	●	12	>16	180	11	ST-SC0352	ST-WRT08	-	-			
	C16X		11	●	●	16	>20	220	15	ST-SC0352	ST-WRT08	-	-			
	C20S		11	●	●	20	>25	250	19	ST-SC0352	ST-WRT08	-	-			
	C25T		11	●	●	25	>32	300	24	ST-SC0352	ST-WRT08	-	-			

carbide 41

PCBN 73

diamond 89

ceramic 112

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

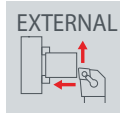
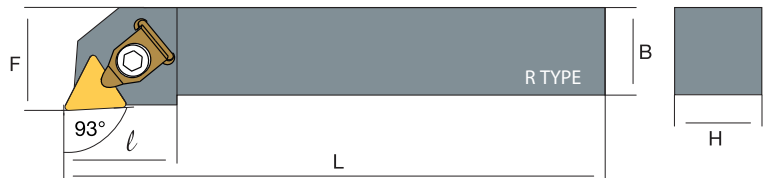
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CTJN

NEGATIVE without hole

TN □□

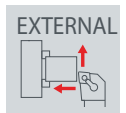
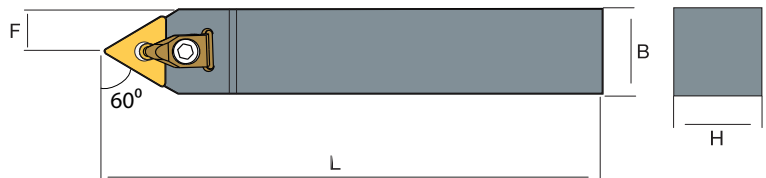
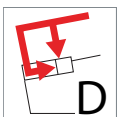


TN □□	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
TN□N1607	CTJNR/L	2525	M16	●	●	25	25	150	32	ST-SHTN16	ST-SC0410	ST-CS013	ST-SPR001	ST-SC630	ST-WR0030
		3232	P16	●	●	32	32	170	40	ST-SHTN16	ST-SC0410	ST-CS013	ST-SPR001	ST-SC630	ST-WR0030

DTENN

NEGATIVE with hole

TN □□



TN □□	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
TN□□1604	DTENN	2020	K16	●	20	20	125	10	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC525	ST-WR0030
		2525	M16	●	25	25	150	12.5	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC525	ST-WR0030
		3232	P16	●	32	32	170	16	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC525	ST-WR0030
TN□□2204	DTENN	2525	M22	●	25	25	150	12.5	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P22	●	32	32	170	16	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		4040	S22	●	40	40	250	20	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

carbide

38

PCBN

72

diamond

88

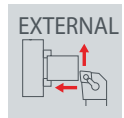
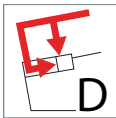
ceramic

110

DTJN

NEGATIVE
 with hole

TN □ □

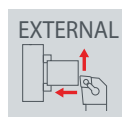
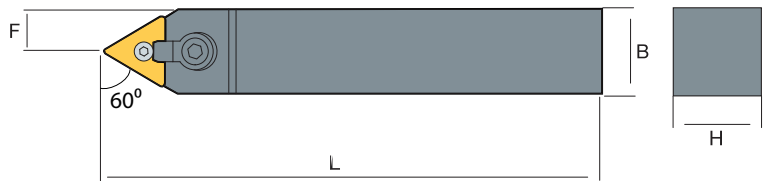
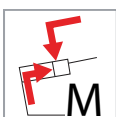


TN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
TN □ □1604	DTJNR/L	2020	K16	●	●	20	20	125	25	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC525	ST-WR0030
		2525	M16	●	●	25	25	150	32	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC525	ST-WR0030
		3232	P16	●	●	32	32	170	40	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC525	ST-WR0030
TN □ □2204	DTJNR/L	2525	M22	●	●	25	25	150	32	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P22	●	●	32	32	170	40	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		4040	S22	●	●	40	40	250	50	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

MTENN

NEGATIVE
 with hole

TN □ □



TN □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
TN □ □1604	MTENN	2020	K16	●	20	20	125	10	ST-SHTN16	ST-SP001	ST-CS006	ST-SC630	ST-WR0030	
		2525	M16	●	25	25	150	12.5	ST-SHTN16	ST-SP001	ST-CS006	ST-SC630	ST-WR0030	
		3232	P16	●	32	32	170	16	ST-SHTN16	ST-SP001	ST-CS006	ST-SC630	ST-WR0030	
TN □ □2204	MTENN	2525	M22	●	25	25	150	12.5	ST-SHTN22	ST-SP001	ST-CS006	ST-SC630	ST-WR0030	
		3232	P22	●	32	32	170	16	ST-SHTN22	ST-SP001	ST-CS006	ST-SC630	ST-WR0030	
		4040	S22	●	40	40	250	20	ST-SHTN22	ST-SP001	ST-CS006	ST-SC630	ST-WR0030	

carbide

38

PCBN

72

diamond

88

ceramic

110

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

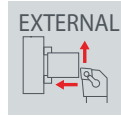
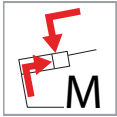
SPARE PARTS

INDEX

MTJN

NEGATIVE with hole

TN □ □

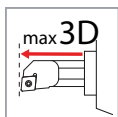
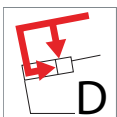
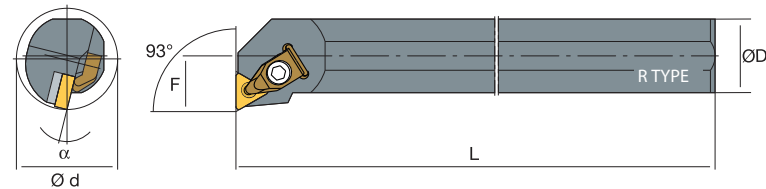


TN □ □	DESCRIPTION			STOCK		DIMENSIONS				□ ← □		□ ← □		□
				R	L	H	B	L	F	□	□	□	□	
TN □ □1604	MTJNR/L	2020	K16	●	●	20	20	125	10	ST-SHTN16	ST-SP001	ST-CS006	ST-SC630	ST-WR0030
		2525	M16	●	●	25	25	150	12.5	ST-SHTN16	ST-SP001	ST-CS006	ST-SC630	ST-WR0030
		3232	P16	●	●	32	32	170	16	ST-SHTN16	ST-SP001	ST-CS006	ST-SC630	ST-WR0030
TN □ □2204	MTJNR/L	2525	M22	●	●	25	25	150	12.5	ST-SHTN22	ST-SP001	ST-CS006	ST-SC630	ST-WR0030
		3232	P22	●	●	32	32	170	16	ST-SHTN22	ST-SP001	ST-CS006	ST-SC630	ST-WR0030
		4040	S22	●	●	40	40	250	20	ST-SHTN22	ST-SP001	ST-CS006	ST-SC630	ST-WR0030

^SDTUN

NEGATIVE with hole

TN □ □



TN □ □	DESCRIPTION			STOCK		DIMENSIONS				□ ← □		□ ← □		□	
				R	L	ØD	Ød	L	F	□	□	□	□		
TN □ □1604	S25S	DTUNR/L	16	●	●	25	32	250	17	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
	S32T		16	●	●	32	40	300	22	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
TN □ □2204	S32T	DTUNR/L	22	●	●	32	40	300	22	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S40U		22	●	●	40	50	350	27	ST-SHTN22	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
	S50V		22	●	●	50	53	400	35	ST-SHTN22	ST-SC0616	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

carbide

38

PCBN

72

diamond

88

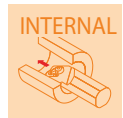
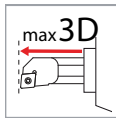
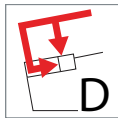
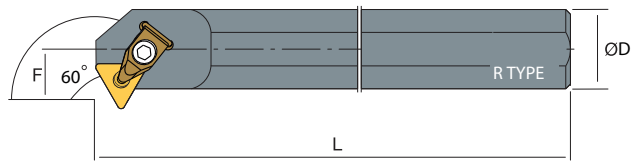
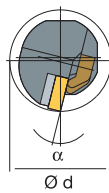
ceramic

110

^SDT-N

NEGATIVE
with hole

TN □ □

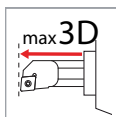
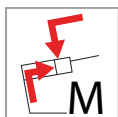
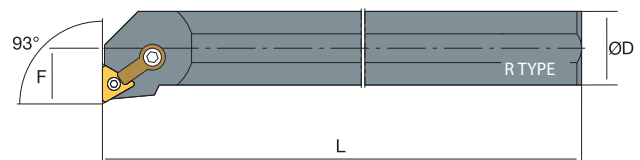
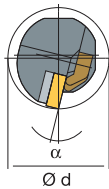


TN □ □	DESCRIPTION		STOCK		DIMENSIONS										
			R	L	ØD	Ød	L	F							
TN □ □1604	S25S	DT-NR/L	16	●	●	25	32	250	17	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
	S32T		16	●	●	32	40	300	22	ST-SHTN16	ST-SC0410	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030

^SMTUN

NEGATIVE
with hole

TN □ □



TN □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
TN □ □1604	S20R	MTUNR/L	16	●	●	20	25	200	13	-	-	ST-LV002	ST-SC523	ST-WR0030
	S25S	MTUNR/L	16	●	●	25	32	250	17	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S32T		16	●	●	32	40	300	22	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S40U		16	●	●	40	50	350	27	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
TN □ □2204	S32T	MTUNR/L	22	●	●	32	40	300	22	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S40U		22	●	●	40	50	350	27	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S50V		22	●	●	50	63	400	35	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030

carbide 38

PCBN 72

diamond 88

ceramic 110

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

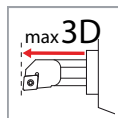
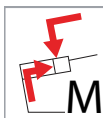
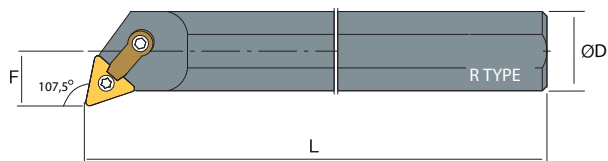
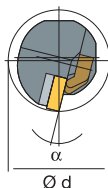
SPARE PARTS

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SMTQN

NEGATIVE with hole

TN □ □

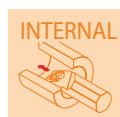
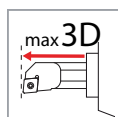
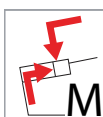
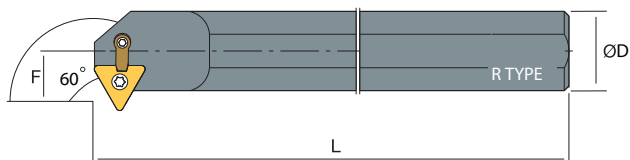
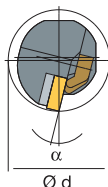


TN □ □	DESCRIPTION		STOCK		DIMENSIONS				←		←		
			R	L	ØD	Ød	L	F					
TN □ □1604	S20R	MTQNR/L	16	● ●	20	25	200	13	-	-	ST-LV002	ST-SC523	ST-WR0030
	S25S		16	● ●	25	32	250	17	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S32T		16	● ●	32	40	300	22	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S40U		16	● ●	40	50	350	27	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
TN □ □2204	S32T	MTQNR/L	22	● ●	32	40	300	22	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S40U		22	● ●	40	50	350	27	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S50V		22	● ●	50	63	400	35	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030

SMT-N

NEGATIVE with hole

TN □ □



TN □ □	DESCRIPTION		STOCK		DIMENSIONS				←		←		
			R	L	ØD	Ød	L	F					
TN □ □1604	S25S	MT-NR/L	16	● ●	25	32	250	17	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S32T		16	● ●	32	40	300	22	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S40U		16	● ●	40	50	350	27	ST-SHTN16	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
TN □ □2204	S32T	MT-NR/L	22	● ●	32	40	300	22	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S40U		22	● ●	40	50	350	27	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030
	S50V		22	● ●	50	63	400	35	ST-SHTN22	ST-SP001	ST-LV001	ST-SC630	ST-WR0030

carbide 38

PCBN 72

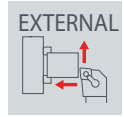
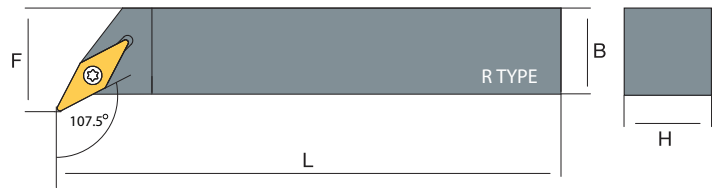
diamond 88

ceramic 110

SVHB

POSITIVE 5°
 with hole

VB □ □



VB □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
VB □ □1103	SVHBR/L	1616	E11	●	●	16	16	100	20	ST-SC0257	ST-WRT08	-	-		
		2020	F11	●	●	20	20	125	25	ST-SC0257	ST-WRT08	-	-		
		2525	H11	●	●	25	25	150	32	ST-SC0257	ST-WRT15	-	-		
VB □ □1604	SVHBR/L	1616	H16	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		2020	K16	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		2525	M16	●	●	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		3232	P16	●	●	32	32	170	40	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

carbide 42

PCBN 74

diamond 90

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

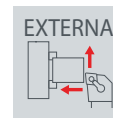
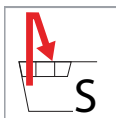
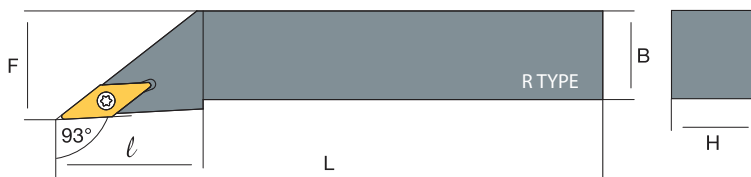
SPARE PARTS

INDEX

SVJB

POSITIVE 5°
with hole

VB □ □



VB □ □	DESCRIPTION			STOCK		DIMENSIONS				←	←					
				R	L	H	B	L	F							
VB □ □1103	SVJBR/L	1212	F11	●	●	12	12	80	16	ST-SC0257	ST-WRT08	-	-			
		1616	H11	●	●	16	16	100	20	ST-SC0257	ST-WRT08	-	-			
		2020	K11	●	●	20	20	125	25	ST-SC0257	ST-WRT08	-	-			
		2525	M11	●	●	25	25	150	32	ST-SC0257	ST-WRT15	-	-			
VB □ □1604	SVJBR/L	1616	H16	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011			
		2020	K16	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011			
		2525	M16	●	●	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011			
		3232	P16	●	●	32	32	170	40	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011			

carbide

42

PCBN

74

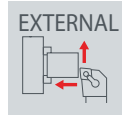
diamond

90

SVVBN

POSITIVE 5°
 with hole

VB □ □



VB □ □	DESCRIPTION			STOCK	DIMENSIONS									
					H	B	L	F						
VB □ □1103	SVVBN	1616	H11	●	16	16	100	08	ST-SC0257	ST-WRT08	-	-		
		2020	K11	●	20	20	125	10	ST-SC0257	ST-WRT08	-	-		
		2525	M11	●	25	25	150	12.5	ST-SC0257	ST-WRT08	-	-		
VB □ □1604	SVVBN	1616	H16	●	16	16	100	08	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		
		2020	K16	●	20	20	125	10	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		2525	M16	●	25	25	150	12.5	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		3232	P16	●	32	32	170	16	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

carbide

42

PCBN

74

diamond

90

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

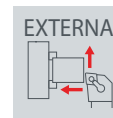
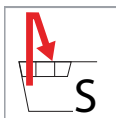
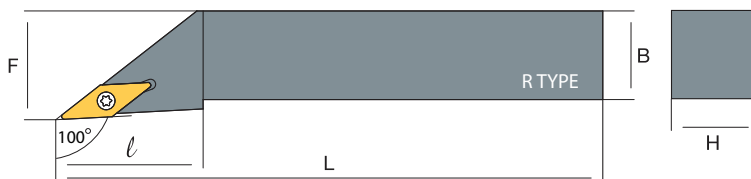
SPARE PARTS

INDEX

SVZB

POSITIVE 5° with hole

VB □ □



VB □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←			
				R	L	H	B	L	F	←	←				
VB □ □1103	SVZBR/L	1616	H11	●	●	16	16	100	20	ST-SC0257	ST-WRT08	-	-		
		2020	K11	●	●	20	20	125	25	ST-SC0257	ST-WRT08	-	-		
		2525	M11	●	●	25	25	150	32	ST-SC0257	ST-WRT15	-	-		
VB □ □1604	SVZBR/L	1616	H16	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		2020	K16	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		2525	M16	●	●	25	25	150	32	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
		3232	P16	●	●	32	32	170	40	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		

carbide

42

PCBN

74

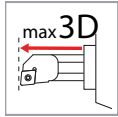
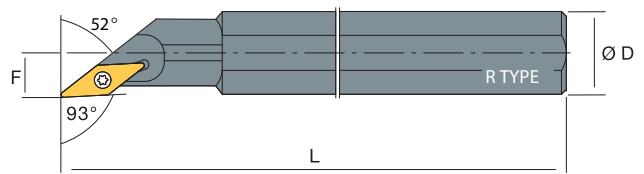
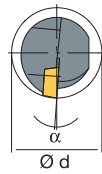
diamond

90

^SSVJB

POSITIVE 5°
with hole

VB □ □

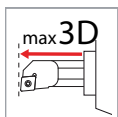
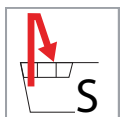
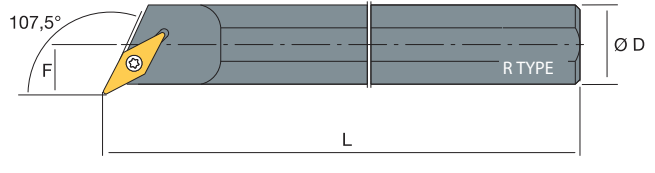
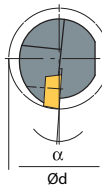


VB □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
VB □ □1604	S25S	SVJBR/L	16	● ●	25	32	250	17	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		
	S32T		16	● ●	32	40	300	22	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
	S40U		16	● ●	40	50	350	27	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		

^SSVQB

POSITIVE 5°
with hole

VB □ □



VB □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
VB □ □1103	S16P	SVQBR/L	11	● ●	16	21	170	11	ST-SC0257	ST-WRT08	-	-		
	S20R		11	● ●	20	25	200	13	ST-SC0257	ST-WRT08	-	-		
VB □ □1604	S25S	SVQBR/L	16	● ●	25	32	250	17	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		
	S32T		16	● ●	32	40	300	22	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
	S40U		16	● ●	40	50	350	27	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		

carbide 42

PCBN 74

diamond 90

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

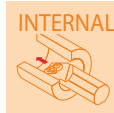
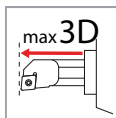
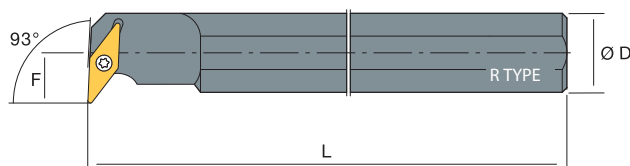
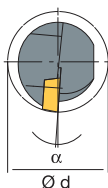
SPARE PARTS

INDEX

^sSVUB

POSITIVE 5° with hole

VB □ □

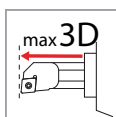
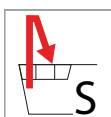
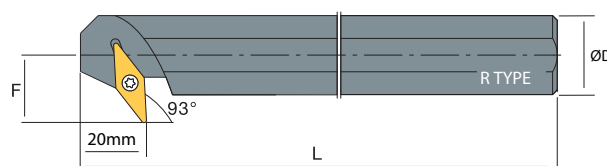
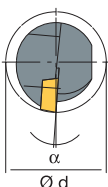


VB □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
VB □ 1103	S16P	SVUBR/L	11	● ●	16	21	170	11	ST-SC0257	ST-WRT08	-	-		
	S20R		11	● ●	20	25	200	13	ST-SC0257	ST-WRT08	-	-		
VB □ □1604	S25S	SVUBR/L	16	● ●	25	32	250	17	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		
	S32T		16	● ●	32	40	300	22	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
	S40U		16	● ●	40	50	350	27	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		

^sSVXB

POSITIVE 7° with hole

VB □ □



VB □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
VB □ 1103	S16P	SVXBR/L	11	● ●	16	21	170	11	ST-SC0257	ST-WRT08	-	-		
	S20R		11	● ●	20	25	200	13	ST-SC0257	ST-WRT08	-	-		
VB □ □1604	S25S	SVXBR/L	16	● ●	25	32	250	17	ST-SC0416	ST-WRT15	ST-SHVB	ST-SC5011		
	S32T		16	● ●	32	40	300	22	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		
	S40U		16	● ●	40	50	350	27	ST-SC3514	ST-WRT15	ST-SHVB	ST-SC5011		

carbide

42

PCBN

74

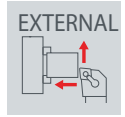
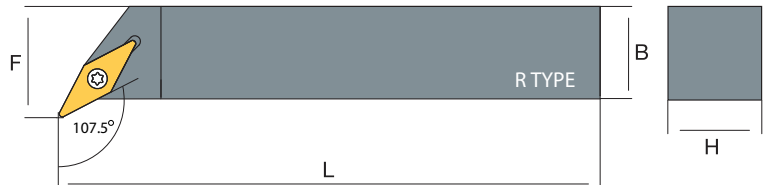
diamond

90

SVHC

POSITIVE 7°
 with hole

VC □ □

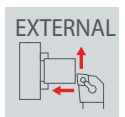
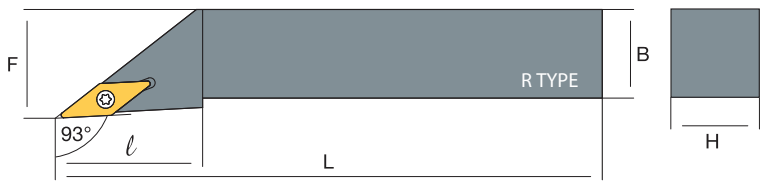


VC □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
VC □ □1103	SVHCR/L	1616	H11	●	●	16	16	100	20	ST-SC0257	ST-WRT08	-	-		
		2020	K11	●	●	20	20	125	25	ST-SC0257	ST-WRT08	-	-		
VC □ □1604	SVHCR/L	2020	K16	●	●	25	25	150	32	ST-SC0257	ST-WRT15	-	-		
		2525	M16	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		
		3232	P16	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		

SVJC

POSITIVE 7°
 with hole

VC □ □



VC □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
VC □ □1103	SVJCR/L	1616	H11	●	●	16	16	100	20	ST-SC0257	ST-WRT08	-	-		
		2020	K11	●	●	20	20	125	25	ST-SC0257	ST-WRT08	-	-		
VC □ □1604	SVJCR/L	2020	K16	●	●	25	25	150	32	ST-SC0257	ST-WRT15	-	-		
		2525	M16	●	●	16	16	100	20	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		
		3232	P16	●	●	20	20	125	25	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		

carbide

44

PCBN

75

diamond

91

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

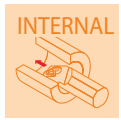
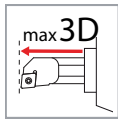
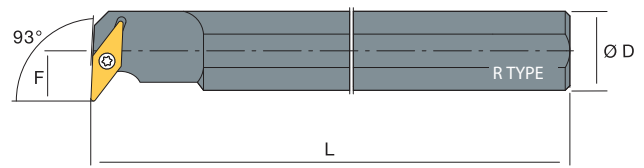
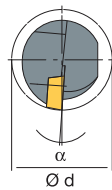
SPARE PARTS



INDEX

^sSVUC

POSITIVE 7° with hole

VC □ □

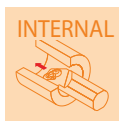
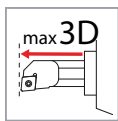
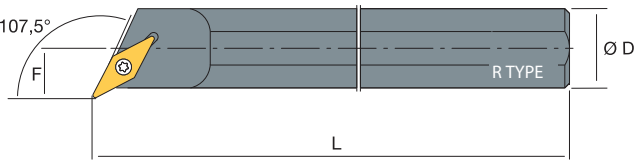
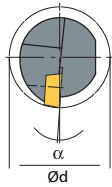




VC □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
VC □ 1103	S16P	SVUCR/L	11	● ●	16	21	170	11	ST-SC0257	ST-WRT08	-	-		
	S20R		11	● ●	20	25	200	13	ST-SC0257	ST-WRT08	-	-		
VC □ □1604	S25S	SVUCR/L	16	● ●	25	32	250	17	ST-SC0416	ST-WRT15	ST-SHVC	ST-SC5011		
	S32T		16	● ●	32	40	300	22	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		
	S40U		16	● ●	40	50	350	27	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		

^sSVQC

POSITIVE 7° with hole

VC □ □



VC □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
VC □ 1103	S16P	SVQCR/L	11	● ●	16	21	170	11	ST-SC0257	ST-WRT08	-	-		
	S20R		11	● ●	20	25	200	13	ST-SC0257	ST-WRT08	-	-		
VC □ □1604	S25S	SVQCR/L	16	● ●	25	32	250	17	ST-SC0416	ST-WRT15	ST-SHVC	ST-SC5011		
	S32T		16	● ●	32	40	300	22	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		
	S40U		16	● ●	40	50	350	27	ST-SC3514	ST-WRT15	ST-SHVC	ST-SC5011		

carbide

44

PCBN

75

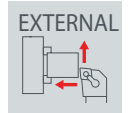
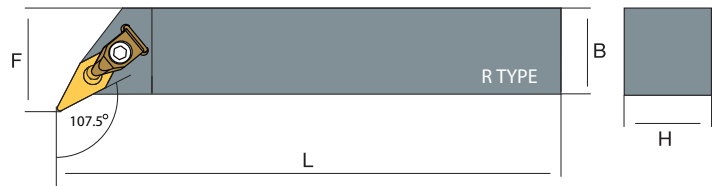
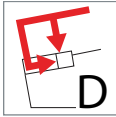
diamond

91

DVHN

NEGATIVE
 with hole

VN □ □

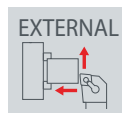
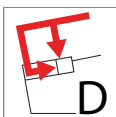


VN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
VN □ □1604	DVHNR/L	2020	K16	●	●	20	20	125	25	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
		2525	M16	●	●	25	25	150	32	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
		3232	P16	●	●	32	32	170	40	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030

DVJN

NEGATIVE
 with hole

VN □ □



VN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
VN □ □1604	DVJNR/L	2020	K16	●	●	20	20	125	25	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
		2525	M16	●	●	25	25	150	32	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
		3232	P16	●	●	32	32	170	40	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
		4040	P16	●	●	40	40	250	50	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030

carbide

45

PCBN

76

ceramic

113

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

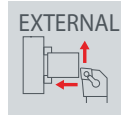
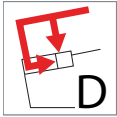
SPARE PARTS

INDEX

DVVNN

NEGATIVE with hole

VN □ □

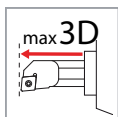
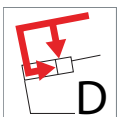
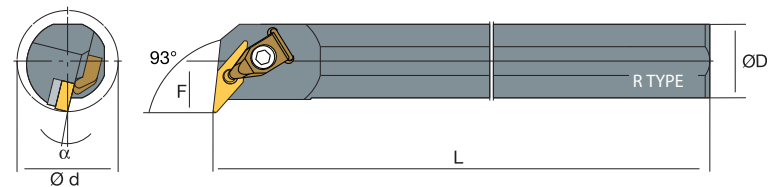


VN □ □	DESCRIPTION				STOCK	DIMENSIONS								
	DVVNN					H	B	L	F					
VN □ □1604	2020	K16	●	●	20	20	125	25	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
	2525	M16	●	●	25	25	150	32	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
	3232	P16	●	●	32	32	170	40	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
	4040	P16	●	●	40	40	250	50	ST-SHVN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030

^SDVUN

NEGATIVE with hole

VN □ □



VN □ □	DESCRIPTION				STOCK	DIMENSIONS									
	S25S	DVUNR/L				R	L	ØD	Ød	L	F				
VN □ □1604	S25S	DVUNR/L	16	●	●	25	32	250	17	ST-SHTN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
	S32T		16	●	●	32	40	300	22	ST-SHTN16	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030
	S40U		16	●	●	50	50	400	27	ST-SHTN22	ST-SC0410	ST-CS005	ST-SPR04	ST-SC630	ST-WR0030

carbide

45

PCBN

76

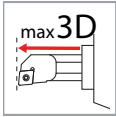
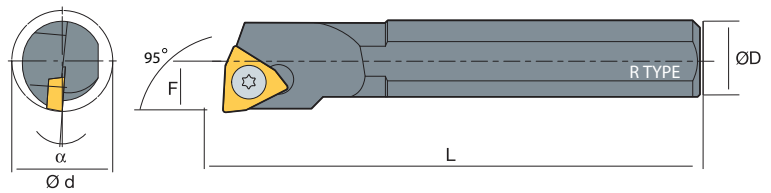
ceramic

113

^sSWLC

POSITIVE 7°
with hole

WC



WC □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
WC □ □ 0302	S0608H	SWLCR/L	16	● ●	08	08	100	04	ST-SC0257	ST-WR0030	-	-		
	S0810K		16	● ●	10	10	125	07	ST-SC0257	ST-WR0030	-	-		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

carbide

354

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

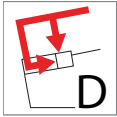
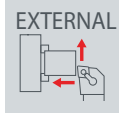
SPARE PARTS

INDEX

DWLN

NEGATIVE with hole

WN □ □

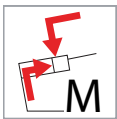
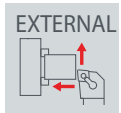
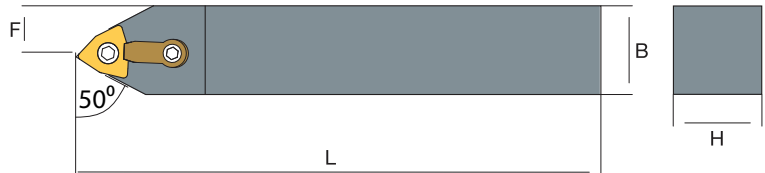


VN □ □	DESCRIPTION			STOCK		DIMENSIONS									
				R	L	H	B	L	F						
WN □ □0604	DWLN R/L	1616	H06	●	●	16	16	100	20	-	-	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
		2020	K06	●	●	20	20	125	25	-	-	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
		2525	M06	●	●	25	25	150	32	-	-	ST-CS002	ST-SPR04	ST-SC523	ST-WR0030
WN □ □0804	DWLN R/L	2020	K08	●	●	20	20	125	25	-	-	ST-CS001	ST-SPR04	ST-SC523	ST-WR0030
		2525	M08	●	●	25	25	150	32	ST-SHWN08	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		3232	P08	●	●	32	32	170	40	ST-SHWN08	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030
		4040	S08	●	●	40	40	250	50	ST-SHWN08	ST-SC0410	ST-CS001	ST-SPR04	ST-SC630	ST-WR0030

MWDN

NEGATIVE with hole

WN □ □



WN □ □	DESCRIPTION			STOCK		DIMENSIONS								
						H	B	L	F					
WN □ □0604	MWDNN	1616	H06	●		16	16	100	08	-	-	ST-CS009	ST-SM525	ST-WR0030
		2020	K06	●		20	20	125	10	-	-	ST-CS009	ST-SM525	ST-WR0030
		2525	M06	●		25	25	150	12.5	-	-	ST-CS009	ST-SM525	ST-WR0030
WN □ □0804	MWDNN	2020	K08	●		20	20	125	10	ST-SHWN08	ST-SC0410	ST-CS008	ST-SM630	ST-WR0030
		2525	M08	●		25	25	150	12.5	ST-SHWN08	ST-SC0410	ST-CS008	ST-SM630	ST-WR0030
		3232	P08	●		32	32	170	16	ST-SHWN08	ST-SC0410	ST-CS008	ST-SM630	ST-WR0030
		4040	S08	●		40	40	200	16	ST-SHWN08	ST-SC0410	ST-CS008	ST-SM630	ST-WR0030

carbide 47

PCBN 77

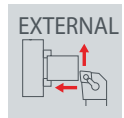
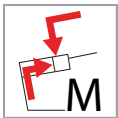
diamond 92

ceramic 114

MWLNLN

NEGATIVE
 with hole

WN □ □

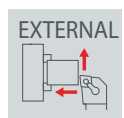
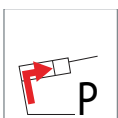


WN □ □	DESCRIPTION			STOCK		DIMENSIONS				←		←		
				R	L	H	B	L	F					
WN □ □0604	MWLNRL	1616	H06	●	●	16	16	100	20	-	-	ST-CS009	ST-SC525	ST-WR0030
		2020	K06	●	●	20	20	125	25	-	-	ST-CS009	ST-SC525	ST-WR0030
		2525	M06	●	●	25	25	150	32	-	-	ST-CS009	ST-SC525	ST-WR0030
WN □ □0804	MWLNRL	2020	K08	●	●	20	20	125	25	ST-SHWN08	ST-SCV3506	ST-CS008	ST-SC630	ST-WR0030
		2525	M08	●	●	25	25	150	32	ST-SHWN08	ST-SCV3506	ST-CS008	ST-SC630	ST-WR0030
		3232	P08	●	●	32	32	170	40	ST-SHWN08	ST-SCV3506	ST-CS008	ST-SC630	ST-WR0030
		4040	S08	●	●	40	40	200	40	ST-SHWN08	ST-SCV3506	ST-CS008	ST-SC630	ST-WR0030

PWLNLN

NEGATIVE
 with hole

WN □ □



WN □ □	DESCRIPTION			STOCK		DIMENSIONS												
				R	L	H	B	L	F									
WN □ □0804	PWLNRL	2020	K08	●	●	20	20	125	25	ST-SHWN08	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030				
		2525	M08	●	●	25	25	150	32	ST-SHWN08	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030				
		3232	P08	●	●	32	32	170	40	ST-SHWN08	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030				
		4040	S08	●	●	40	40	250	50	ST-SHWN08	ST-SPR001	ST-LV001	ST-SC820	ST-WR0030				

carbide

47

PCBN

77

diamond

92

ceramic

114

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

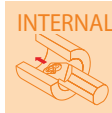
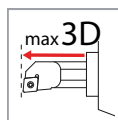
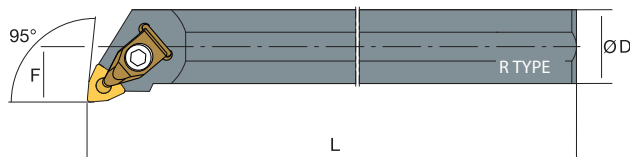
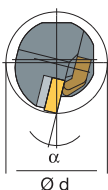
SPARE PARTS

INDEX

S DWLN

NEGATIVE with hole

WN □ □

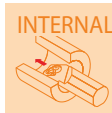
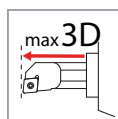
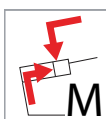
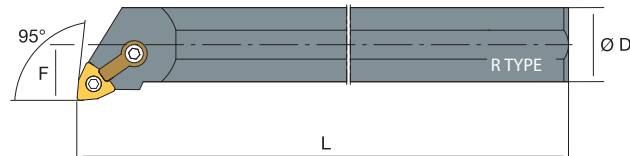
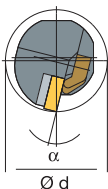


WN □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
WN □ □0604	S25S	DWLN R/L	06	● ●	25	32	250	17	-	-	ST-CS009	-	ST-SC525	ST-WR0030
	S32T		06	● ●	32	40	300	22	-	-	ST-CS009		ST-SC525	ST-WR0030
WN □ □0804	S25S	DWLN R/L	08	● ●	25	32	250	17	ST-SHWN08	ST-SC0410	ST-CS008	ST-SPR04	ST-SC630	ST-WR0030
	S32T		08	● ●	32	40	300	22	ST-SHWN08	ST-SC0410	ST-CS008	ST-SPR04	ST-SC630	ST-WR0030
	S40U		08	● ●	40	37	350	27	ST-SHWN08	ST-SC0410	ST-CS008	ST-SPR04	ST-SC630	ST-WR0030
	S50V		08	● ●	50	47	400	35	ST-SHWN08	ST-SC0410	ST-CS008	ST-SPR04	ST-SC630	ST-WR0030

S MWLN

NEGATIVE with hole

WN □ □



WN □ □	DESCRIPTION		STOCK		DIMENSIONS									
			R	L	ØD	Ød	L	F						
WN □ □0604	S16P	MWLN R/L	06	● ●	16	21	170	11			ST-CS009	ST-SM525	ST-WR0030	
	S20R		06	● ●	20	25	200	13			ST-CS009	ST-SM525	ST-WR0030	
	S25S		06	● ●	25	32	250	17			ST-CS009	ST-SM525	ST-WR0030	
WN □ □0804	S25S	MWLN R/L	08	● ●	25	32	250	17	ST-SHWN08	ST-SCV0410	ST-CS008	ST-SM630	ST-WR0030	
	S32T		08	● ●	32	40	300	22	ST-SHWN08	ST-SCV0410	ST-CS008	ST-SM630	ST-WR0030	
	S40U		08	● ●	40	50	350	27	ST-SHWN08	ST-SCV0410	ST-CS008	ST-SM630	ST-WR0030	
	S50V		08	● ●	50	63	400	35	ST-SHWN08	ST-SCV0410	ST-CS008	ST-SM630	ST-WR0030	

carbide 47

PCBN 77

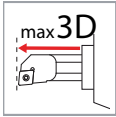
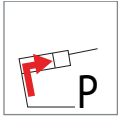
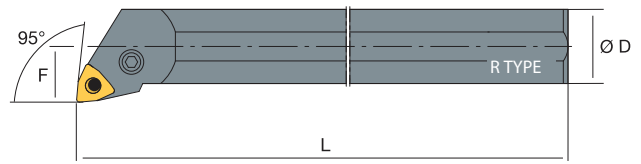
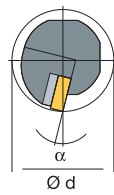
diamond 92

ceramic 114

SPWLN

NEGATIVE
with hole

WN □ □



WN □ □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	ØD	Ød	L	F					
WN □ □ 0804	S25S	PWLN R/L	08	●	●	25	32	250	17	ST-SHWN08	ST-SCV0410	ST-CS001	ST-SM630	ST-WR0030
	S32T		08	●	●	32	40	300	22	ST-SHWN08	ST-SCV0410	ST-CS001	ST-SM630	ST-WR0030
	S40U		08	●	●	40	50	350	27	ST-SHWN08	ST-SCV0410	ST-CS001	ST-SM630	ST-WR0030
	S50V		08	●	●	50	63	400	35	ST-SHWN08	ST-SCV0410	ST-CS001	ST-SM630	ST-WR0030

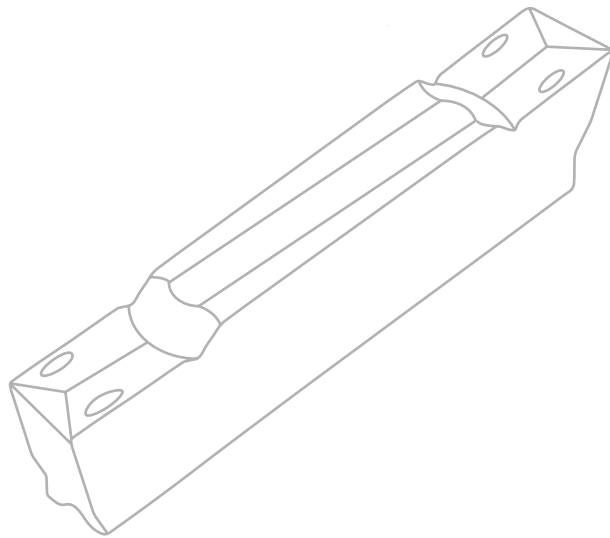
carbide 47

PCBN 77

diamond 92

ceramic 114

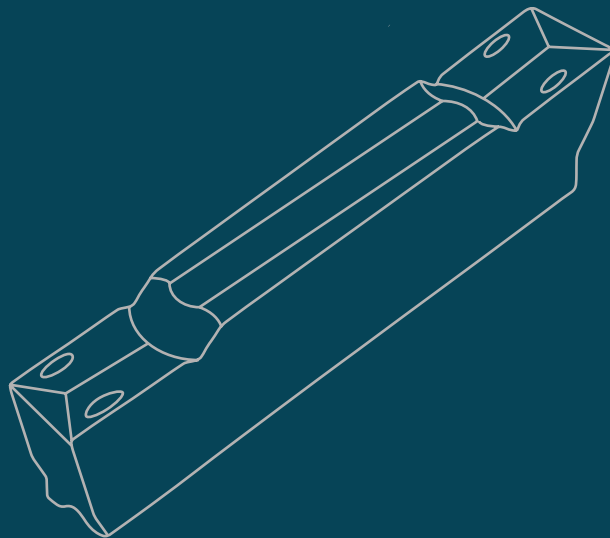
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX



GROOVING/

carbide /201
PCBN /223
diamond /227
holders /231

GROOVING / carbide

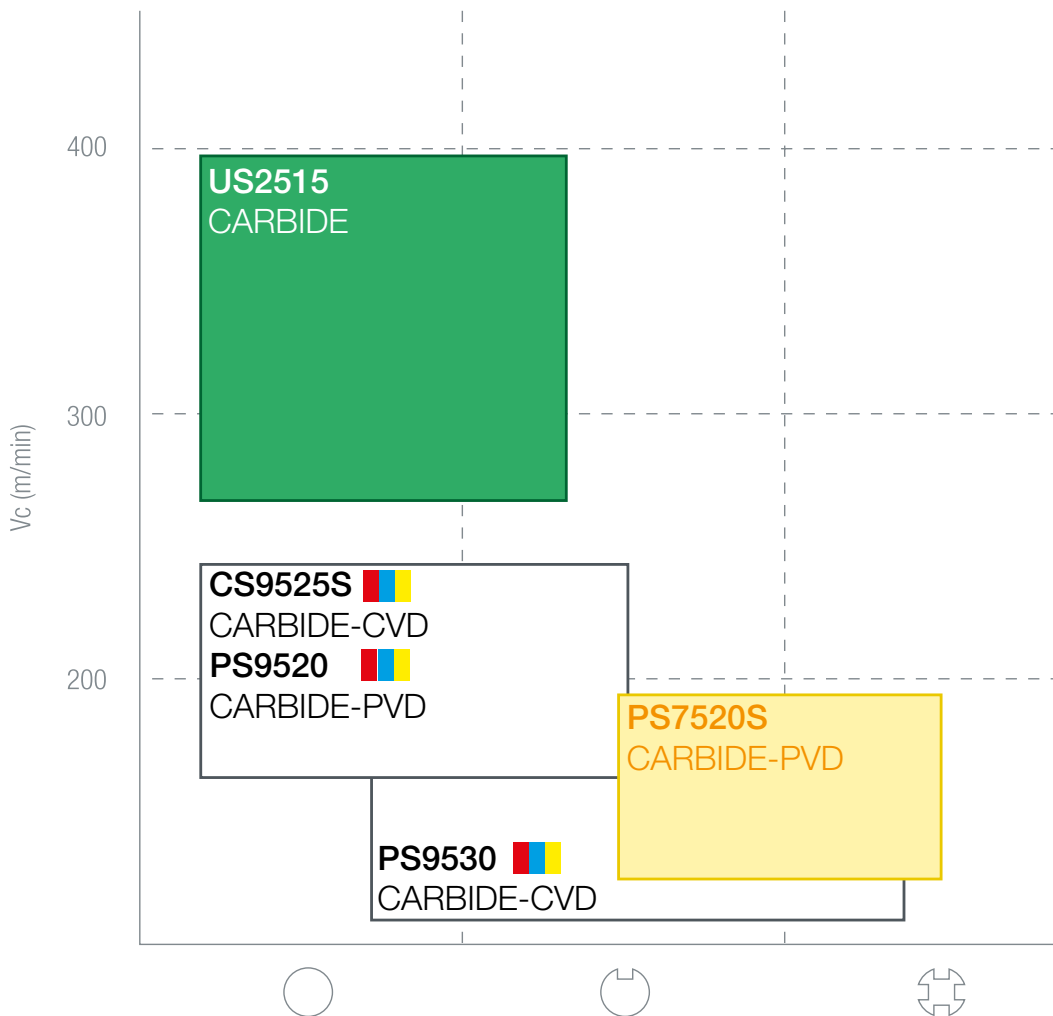


	Grades																			
	K					P					M					N				
	ISO DIN 513																			
	K					P					M					N				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	N01	N10	N20	N30	N40
CARBIDE CVD	CS9525S					CS9525S					CS9525S									
CARBIDE PVD	PS9530					PS9530					PS9530									
	PS9520					PS9520					PS9520									
											PS7520S									
CARBIDE UNCOATED																US2515				

GROOVING

Range ISO **P** **M** **K**

Grades



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

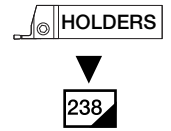
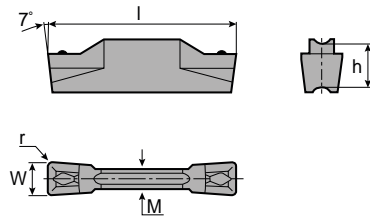
DRILLS

SPARE PARTS

INDEX

MAGC

PARTING & GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W

r

l

M

h

 α 

MAGC200

MAGC250

MAGC300

MAGC400

MAGC500

MAGC600

2.0

0.2

16.0

1.2

3.5

●

●

●

●

●

2.5

0.2

18.5

2.0

3.85

●

●

●

●

●

3.0

0.4

21.0

2.35

4.8

●

●

●

●

●

4.0

0.4

21.0

3.3

4.8

●

●

●

●

●

5.0

0.8

26.0

4.1

5.8

●

●

●

●

●

6.0

0.8

26.0

5.0

5.8

●

●

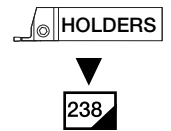
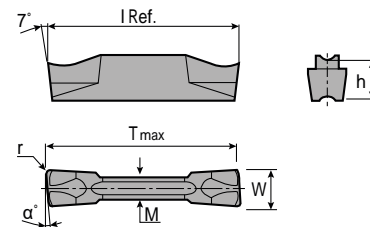
●

●

●

MAGD

PARTING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W

r

l

M

h

 α 

MAGD200J-15D

MAGD300J-15D

2.0

0.2

16.0

1.2

3.5

15

●

●

●

●

●

3.0

0.4

21.0

2.35

4.8

15

●

●

●

●

●

Vc • fn



221

GROOVING

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

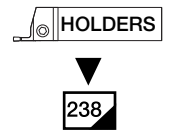
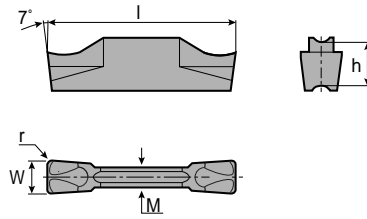
DRILLS

SPARE PARTS

INDEX

MAGJ

PARTING & GROOVING



DESCRIPTION

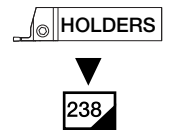
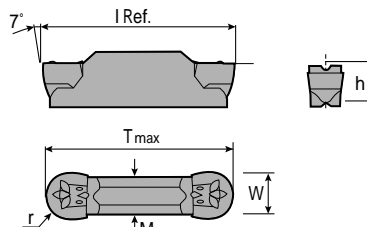
DIMENSIONS

CARBIDE

	DESCRIPTION	W	r	l	M	h	α	CARBIDE				
								CS9525S	PS9530	PS9520	PS7520S	US2515
	MAGJ150	1.5	0.15	16.0	1.2	3.5	-	●	●	●	●	
	MAGJ200	2.0	0.2	16.0	1.2	3.5	-	●	●	●	●	
	MAGJ250	2.5	0.2	18.5	2.0	3.85	-	●	●	●	●	
	MAGJ300	3.0	0.4	21.0	2.35	4.8	-	●	●	●	●	
	MAGJ400	4.0	0.4	21.0	3.3	4.8	-	●	●	●	●	
	MAGJ500	5.0	0.8	26.0	4.1	5.8	-	●	●	●	●	
	MAGJ600	6.0	0.8	26.0	5.0	5.8	-	●	●	●	●	

MAGR

PROFILING



DESCRIPTION

DIMENSIONS

CARBIDE

	DESCRIPTION	W	r	l	M	h	α	CARBIDE				
								CS9525S	PS9530	PS9520	PS7520S	US2515
	MAGR200	2.0	1.0	16.0	1.5	3.5	-	●	●	●	●	
	MAGR300	3.0	1.5	21.0	2.35	4.8	-	●	●	●	●	
	MAGR400	4.0	2.0	21.0	3.3	4.8	-	●	●	●	●	
	MAGR500	5.0	2.5	26.0	4.1	5.8	-	●	●	●	●	

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

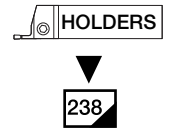
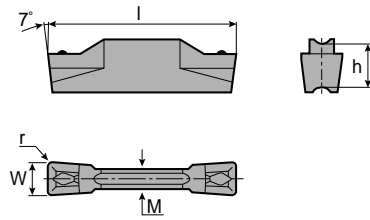
DRILLS

SPARE PARTS

INDEX

MAGN

PARTING & GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W r l M h α



MAGN200MA

2.0 0.2 16.0 1.2 3.5 -

MAGN300MA

3.0 0.4 21.0 2.35 4.8 -

MAGN200WA

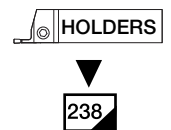
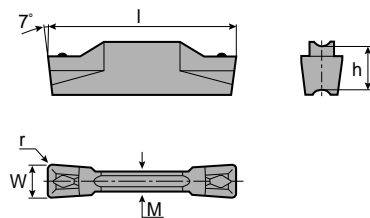
2.0 0.2 16.0 1.2 3.5 -

MAGN300WA

3.0 0.4 21.0 2.35 4.8 -

MAGS

PARTING & GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W r l M h α



MAGS200

2.0 0.2 16.0 1.2 3.5 -

MAGS250

2.5 0.2 18.5 2.0 3.85 -

MAGS300

3.0 0.4 21.0 2.35 4.8 -

MAGS400

4.0 0.4 21.0 3.3 4.8 -

MAGS500

5.0 0.8 26.0 4.1 5.8 -

MAGS600

6.0 0.8 26.0 5.0 5.8 -

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GROOVING

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

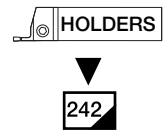
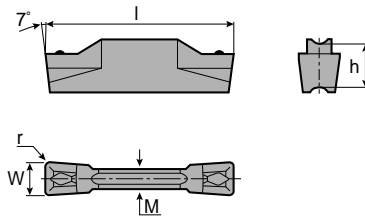
DRILLS

SPARE PARTS

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SAGC

PARTING & GROOVING



DESCRIPTION

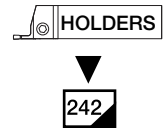
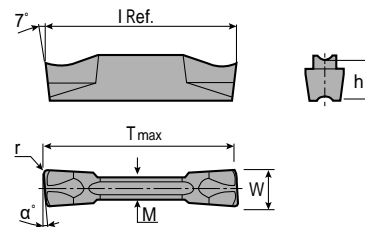
DIMENSIONS

CARBIDE

	DESCRIPTION	W	r	l	M	h	α	CARBIDE				
								CS9525S	PS9530	PS9520	PS7520S	US2515
	SAGC200-02	2.0	0.2	20.0	1.70	4.70	-	●	●	●	●	
	SAGC300-02	3.0	0.2	20.0	2.40	4.70	-	●	●	●	●	
	SAGC400-03	4.0	0.3	20.0	3.0	4.70	-	●	●	●	●	
	SAGC500-03	5.0	0.3	25.0	4.0	5.20	-	●	●	●	●	

SAGD

PARTING



DESCRIPTION

DIMENSIONS

CARBIDE

	DESCRIPTION	W	r	l	M	h	α	CARBIDE				
								CS9525S	PS9530	PS9520	PS7520S	US2515
	SAGD200J-15D	2.0	0.2	20.0	1.70	4.70	15	●	●	●	●	
	SAGD200J-6D	2.0	0.2	20.0	1.70	4.70	6	●	●	●	●	
	SAGD300J-15D	3.0	0.2	20.0	2.40	4.70	15	●	●	●	●	
	SAGD300J-6D	3.0	0.2	20.0	2.40	4.70	15	●	●	●	●	
	SAGD400J-6D	4.0	0.3	20.0	3.0	4.70	6	●	●	●	●	
	SAGD400J-4D	4.0	0.3	20.0	3.0	4.70	4	●	●	●	●	
	SAGD500J-4D	5.0	0.3	25.0	4.0	5.20	4	●	●	●	●	

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

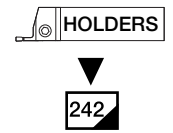
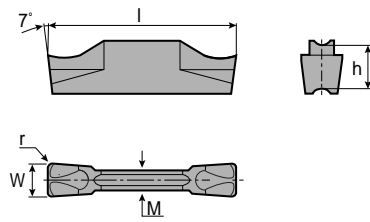
DRILLS

SPARE PARTS

INDEX

SAGJ

PARTING & GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

	CS9525S	PS9530	PS9520	PS7520S	US2515
SAGJ200-02	●	●	●	●	
SAGJ300-02	●	●	●	●	
SAGJ400-03	●	●	●	●	
SAGJ500-03	●	●	●	●	

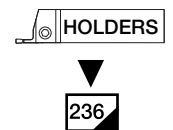
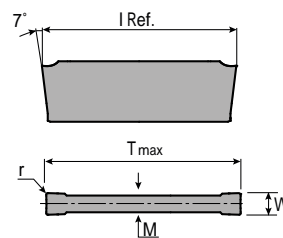


SAGJ200-02
SAGJ300-02
SAGJ400-03
SAGJ500-03

W	r	l	M	h	α
2.0	0.2	20.0	1.70	4.70	-
3.0	0.2	20.0	2.40	4.70	-
4.0	0.3	20.0	3.0	4.70	-
5.0	0.3	25.0	4.0	5.20	-

SDGN

PARTING & GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

	CS9525S	PS9530	PS9520	PS7520S	US2515
SDGN2002Z	●	●	●	●	
SDGN2202J	●	●	●	●	
SDGN3002Z	●	●	●	●	
SDGN3102C	●	●	●	●	



SDGN2002Z
SDGN2202J
SDGN3002Z
SDGN3102C

W	r	l	M	h	α
2.0	0.2	21.0	1.7	6.0	-
2.2	0.2	19.8	1.9	6.0	-
3.0	0.2	21.0	2.4	6.1	-
3.1	0.2	20.1	2.4	6.1	-

Vc • fn 221

GROOVING

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

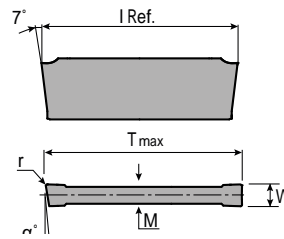
DRILLS

SPARE PARTS

INDEX

SDGR

PARTING



HOLDERS

236

DESCRIPTION

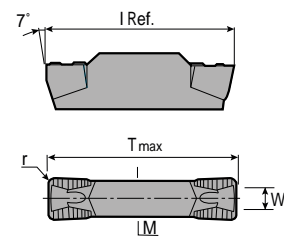
DIMENSIONS

CARBIDE

	DESCRIPTION	DIMENSIONS						CARBIDE				
		W	r	l	M	h	α	CS9525S	PS9530	PS9520	PS7520S	US2515
	SDGR2200JS-6D	2.2	0.2	19.8	1.9	6.0	6	●	●	●	●	
	SDGR2200JS-15D	2.2	0.2	19.8	1.9	6.0	15	●	●	●	●	

SGRIP

PARTING & GROOVING



HOLDERS

236

DESCRIPTION

DIMENSIONS

CARBIDE

	DESCRIPTION	DIMENSIONS						CARBIDE				
		W	r	l	M	h	α	CS9525S	PS9530	PS9520	PS7520S	US2515
	SGRIP300-M	3.0	0.2	16.0	2.3	4.4	-	●	●	●	●	
	SGRIP400-M	4.0	0.4	19.0	2.8	4.9	-	●	●	●	●	
	SGRIP500-M	5.0	0.5	19.0	3.4	5.4	-	●	●	●	●	

Vc • fn



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TURNING

GROOVING

THREADING

MILLING

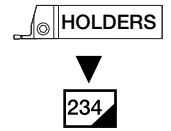
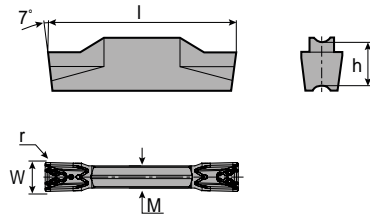
DRILLING

ENDMILLS

DRILLS

SGDM

PARTING & GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W

r

l

M

h

 α 

SGDM200

2.00

0.2

20

1.5

4.3

-

●

●

●

●

SGDM300

3.00

0.3

20

2.3

4.3

-

●

●

●

●

SGDM400

4.00

0.3

20

3.3

4.3

-

●

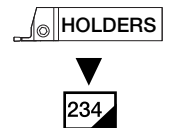
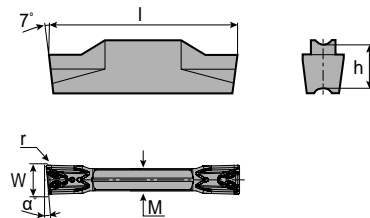
●

●

●

SGDD

PARTING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W

r

l

M

h

 α 

SGDD200-15D

2.00

0.2

20

1.5

4.3

15

●

●

●

●

SGDD300-15D

3.00

0.3

20

2.3

4.3

15

●

●

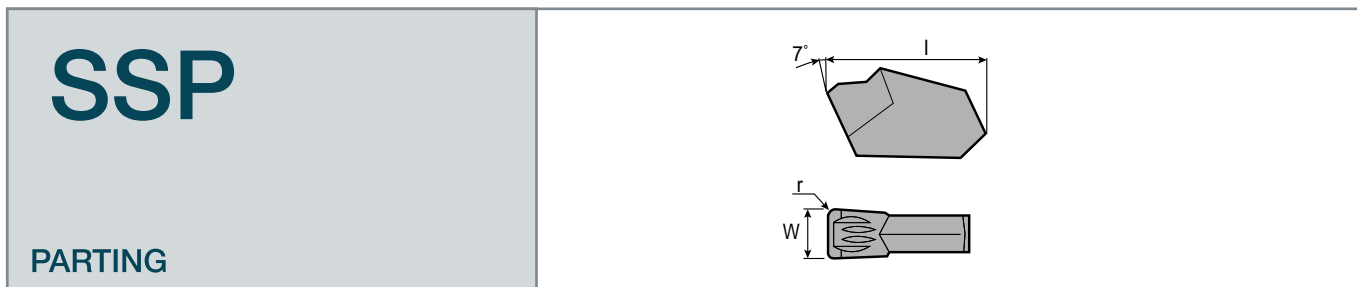
●


●

Vc • fn

221

GROOVING



DESCRIPTION		DIMENSIONS						CARBIDE				
								CS9525S	PS9530	PS9520	PS7520S	US2515
								W	r	l	M	h
	SSP200	2.2	9.3	0.2	-	-	-	●	●	●	●	
	SSP300	3.1	3.2	3.3	-	-	-	●	●	●	●	
	SSP400	4.1	11.3	0.25	-	-	-	●	●	●	●	
	SSP500	5.1	11.4	0.3	-	-	-	●	●	●	●	
	SSP600	6.4	11.4	0.35	-	-	-	●	●	●	●	

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

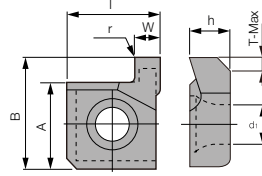
DRILLS

SPARE PARTS

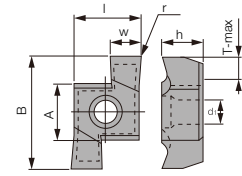
INDEX

GR

INTERNAL GROOVING



6GR 7GR



8GR 9GR

DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W

A

B

h

d1

l

r

Tmax



6GR-100

1.00

4.76

6.44

2.34

2.30

5.56

0.2

1.5

6GR-150

1.50

4.76

6.44

2.34

2.30

5.56

0.2

1.5

6GR-200

2.00

4.76

6.44

2.34

2.30

5.56

0.2

1.5



7GR-100

1.00

5.56

7.36

3.08

2.58

5.56

0.2

1.5

7GR-150

1.50

5.56

7.36

3.08

2.58

5.56

0.2

1.5

7GR-200

2.00

5.56

7.36

3.08

2.58

5.56

0.2

1.5



8GR-150

1.50

5.56

10.16

3.87

2.58

6.15

0.2

1.5

8GR-200

2.00

5.56

10.16

3.87

2.58

6.15

0.2

1.5

8GR-250

2.50

5.56

10.16

3.87

2.58

6.15

0.2

1.5

8GR-300

3.00

5.56

10.16

3.87

2.58

6.15

0.2

1.5

8GR-350

3.50

5.56

10.16

3.87

2.58

6.15

0.2

1.5



9GR-100

1.00

6.35

12.95

4.66

2.86

7.74

0.2

1.5

9GR-150

1.50

6.35

12.95

4.66

2.86

7.74

0.2

1.5

9GR-200

2.00

6.35

12.95

4.66

2.86

7.74

0.2

1.5

9GR-250

2.50

6.35

12.95

4.66

2.86

7.74

0.2

1.5

9GR-300

3.00

6.35

12.95

4.66

2.86

7.74

0.2

1.5

9GR-350

3.50

6.35

12.95

4.66

2.86

7.74

0.2

1.5

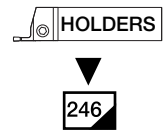
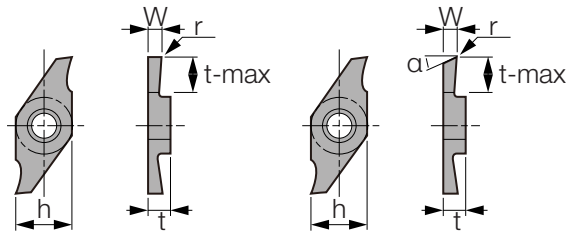
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GROOVING

SKFC

FINE TOOL



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS						CARBIDE				
		W	r	h	t	t-max	α	CS9525S	PS9530	PS9520	PS7520S	US2515
	SKFC12R-050-N	0.50	0.03	8.7	3.0	2.5	-			●		
	SKFC12R-070-N	0.70	0.03	8.7	3.0	4.0	-			●		
	SKFC12R-100-N	1.00	0.03	8.7	3.0	6.0	-			●		
	SKFC12R-125-N	1.25	0.03	8.7	3.0	6.0	-			●		
	SKFC12R-150-N	1.50	0.03	8.7	3.0	6.0	-			●		
	SKFC12R-200-N	2.00	0.03	8.7	3.0	6.0	-			●		
	SKFC12L-050-N	0.50	0.03	8.7	3.0	2.5	-			●		
	SKFC12L-070-N	0.70	0.03	8.7	3.0	4.0	-			●		
	SKFC12L-100-N	1.00	0.03	8.7	3.0	6.0	-			●		
	SKFC12L-125-N	1.25	0.03	8.7	3.0	6.0	-			●		
	SKFC12L-150-N	1.50	0.03	8.7	3.0	6.0	-			●		
	SKFC12L-200-N	2.00	0.03	8.7	3.0	6.0	-			●		
	SKFC16L-150-N	1.50	0.03	9.5	4.0	8.0	-			●		
	SKFC16L-200-N	2.00	0.03	9.5	4.0	8.0	-			●		
	SKFC16R-150-N	1.50	0.03	9.5	4.0	8.0	-			●		
	SKFC16R-200-N	2.00	0.03	9.5	4.0	8.0	-			●		
	SKFC12L-100-S-20D	1.00	-	8.7	3.0	6.0	20			●		
	SKFC12R-100-S-20D	1.00	-	8.7	3.0	6.0	20			●		
	SKFC16L-150-S-20D	1.50	-	9.5	4.0	8.0	20			●		
	SKFC16R-150-S-20D	1.50	-	9.5	4.0	8.0	20			●		
	SKFC16L-200-S-20D	2.00	-	9.5	4.0	8.0	20			●		
	SKFC16R-200-S-20D	2.00	-	9.5	4.0	8.0	20			●		

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

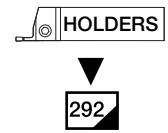
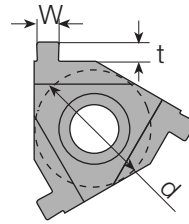
DRILLS

SPARE PARTS

INDEX

16ER

EXTERNAL GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

d

l

W

T



11ER-W0.50-T0.70

6.35

11

0.50

0.70

11ER-W0.60-T0.70

6.35

11

0.60

0.70

11ER-W0.80-T0.70

6.35

11

0.80

0.70

11ER-W1.00-T0.70

6.35

11

1.00

0.70

11ER-W1.20-T1.50

6.35

11

1.20

1.50

11ER-W1.40-T1.50

6.35

11

1.40

1.50

11ER-W1.50-T1.50

6.35

11

1.50

1.50

11ER-W1.80-T1.80

6.35

11

1.80

1.80



16ER-W0.33-T1.30

9.525

16

0.33

1.30

16ER-W0.50-T1.30

9.525

16

0.50

1.30

16ER-W0.75-T1.30

9.525

16

0.75

1.30

16ER-W0.80-T1.30

9.525

16

0.80

1.30

16ER-W1.00-T1.30

9.525

16

1.00

1.30

16ER-W1.10-T1.30

9.525

16

1.10

1.30

16ER-W1.20-T1.60

9.525

16

1.20

1.60

16ER-W1.30-T1.60

9.525

16

1.30

1.60

16ER-W1.40-T1.60

9.525

16

1.40

1.60

16ER-W1.50-T1.60

9.525

16

1.50

1.60

16ER-W1.60-T1.60

9.525

16

1.60

1.60

16ER-W1.70-T1.85

9.525

16

1.70

1.85

16ER-W1.80-T1.85

9.525

16

1.80

1.85

16ER-W1.85-T1.85

9.525

16

1.85

1.85

16ER-W2.00-T1.85

9.525

16

2.00

1.85

16ER-W2.15-T2.00

9.525

16

2.15

2.00

16ER-W2.30-T2.00

9.525

16

2.30

2.00

16ER-W2.40-T2.20

9.525

16

2.40

2.20

16ER-W2.65-T2.20

9.525

16

2.65

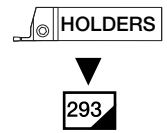
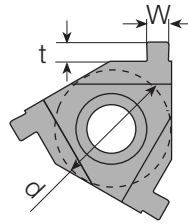
2.20

Vc • fn

221

IR

INTERNAL GROOVING



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS				CARBIDE				
						CS9525S	PS9530	PS9520	PS7520S	US2515
		d	l	W	T					
	11IR-W0.50-T0.70	6.35	11	0.50	0.70			●		
	11IR-W0.60-T0.70	6.35	11	0.60	0.70			●		
	11IR-W0.80-T0.70	6.35	11	0.80	0.70			●		
	11IR-W1.00-T0.70	6.35	11	1.00	0.70			●		
	11IR-W1.20-T1.50	6.35	11	1.20	1.50			●		
	11IR-W1.40-T1.50	6.35	11	1.40	1.50			●		
	11IR-W1.50-T1.50	6.35	11	1.50	1.50			●		
	11IR-W1.80-T1.80	6.35	11	1.80	1.80			●		
	11IR-W2.20-T1.80	6.35	11	2.20	1.80			●		
	16IR-W0.33-T1.20	9.525	16	0.33	1.20			●		
	16IR-W0.50-T1.20	9.525	16	0.50	1.20			●		
	16IR-W0.75-T1.20	9.525	16	0.75	1.20			●		
	16IR-W0.80-T1.20	9.525	16	0.80	1.20			●		
	16IR-W1.00-T1.30	9.525	16	1.00	1.30			●		
	16IR-W1.10-T1.30	9.525	16	1.10	1.30			●		
	16IR-W1.20-T1.60	9.525	16	1.20	1.60			●		
	16IR-W1.30-T1.60	9.525	16	1.30	1.60			●		
	16IR-W1.40-T1.60	9.525	16	1.40	1.60			●		
	16IR-W1.50-T1.60	9.525	16	1.50	1.60			●		
	16IR-W1.60-T1.60	9.525	16	1.60	1.60			●		
	16IR-W1.70-T1.85	9.525	16	1.70	1.85			●		
	16IR-W1.80-T1.85	9.525	16	1.80	1.85			●		
	16IR-W1.85-T1.85	9.525	16	1.85	1.85			●		
	16IR-W2.00-T1.85	9.525	16	2.00	1.85			●		
	16IR-W2.15-T2.00	9.525	16	2.15	2.00			●		
	16IR-W2.30-T2.00	9.525	16	2.30	2.00			●		
	16IR-W2.50-T2.00	9.525	16	2.50	2.00			●		
	16IR-W2.65-T2.20	9.525	16	2.65	2.20			●		

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

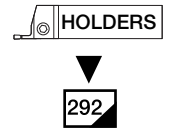
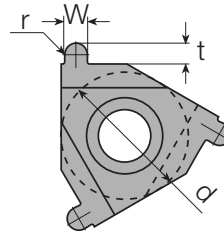
DRILLS

SPARE PARTS

INDEX

16ER

EXTERNAL ROUNDGROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

d

l

W

R

T



16ER-W0.80-T0.60-R0.40

9.525

16

0.80

0.40

0.60

16ER-W1.00-T1.40-R0.50

9.525

16

1.00

0.50

1.40

16ER-W1.20-T0.80-R0.60

9.525

16

1.20

0.60

0.80

16ER-W1.20-T1.60-R0.60

9.525

16

1.20

0.60

1.60

16ER-W1.80-T1.10-R0.90

9.525

16

1.80

0.90

1.10

16ER-W1.80-T2.00-R0.90

9.525

16

1.80

0.90

2.00

16ER-W2.00-T1.20-R1.00

9.525

16

2.00

1.00

1.20

16ER-W2.00-T2.15-R1.00

9.525

16

2.00

1.00

2.15

16ER-W2.20-T2.15-R1.10

9.525

16

2.20

1.10

2.15

16ER-W2.40-T2.25-R1.20

9.525

16

2.40

1.20

2.25

Vc • fn

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GROOVING

IR

INTERNAL ROUND GROOVING

DESCRIPTION		DIMENSIONS					CARBIDE				
		d	l	W	R	T	CS9525S	PS9530	PS9520	PS7520S	US2515
	16IR-W1.00-T1.40-R0.50	9.525	16	1.00	0.50	1.40			●		
	16IR-W1.20-T0.80-R0.60	9.525	16	1.20	0.60	0.80			●		
	16IR-W1.20-T1.60-R0.60	9.525	16	1.20	0.60	1.60			●		
	16IR-W1.80-T1.10-R0.90	9.525	16	1.80	0.90	1.10			●		
	16IR-W1.80-T2.00-R0.90	9.525	16	1.80	0.90	2.00			●		
	16IR-W2.00-T2.00-R1.00	9.525	16	2.00	1.00	2.00			●		
	16IR-W2.00-T2.15-R1.00	9.525	16	2.00	1.00	2.15			●		
	16IR-W2.20-T2.15-R1.10	9.525	16	2.20	1.10	2.15			●		
	16IR-W2.40-T2.25-R1.20	9.525	16	2.40	1.20	2.25			●		

TURNING
 GROOVING
 THREADING
 MILLING
 DRILLING
 ENDMILLS
 DRILLS
 SPARE PARTS
 INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

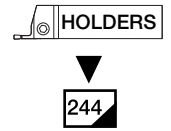
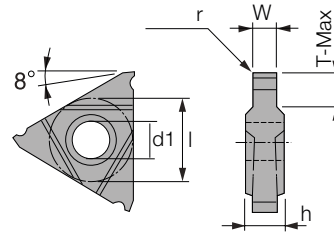
DRILLS

SPARE PARTS

INDEX

STGF

EXTERNAL GROOVING



DESCRIPTION

DIMENSIONS

CARBIDE

CS9525S

PS9530

PS9520

PS7520S

US2515

W

T-max

r

l

d1

h



STGF32R-050	0.50	1.00	0.05	9.525	3.18	4.4			●		
STGF32R-100	1.00	2.00	0.05	9.525	3.18	4.4			●		
STGF32R-110	1.10	2.00	0.05	9.525	3.18	4.4			●		
STGF32R-120	1.20	2.00	0.05	9.525	3.18	4.4			●		
STGF32R-125	1.25	2.00	0.20	9.525	3.18	4.4			●		
STGF32R-145	1.45	2.00	0.20	9.525	3.18	4.4			●		
STGF32R-150	1.50	2.00	0.20	9.525	3.18	4.4			●		
STGF32R-175	1.75	2.00	0.20	9.525	3.18	4.4			●		
STGF32R-185	1.85	2.50	0.20	9.525	3.18	4.4			●		
STGF32R-200	2.00	2.50	0.20	9.525	3.18	4.4			●		
STGF32R-250	2.50	2.50	0.20	9.525	3.18	4.4			●		
STGF32R-300	3.00	3.00	0.20	9.525	3.18	4.4			●		

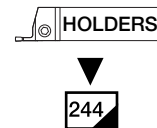
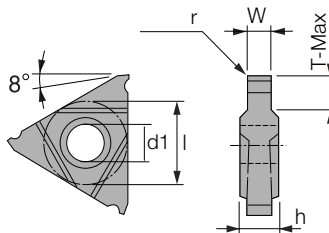
Vc • fn

221

GROOVING

STGF

EXTERNAL GROOVING



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION

DIMENSIONS

CARBIDE

	DESCRIPTION	DIMENSIONS						CARBIDE				
		W	T-max	r	l	d1	h	CS9525S	PS9530	PS9520	PS7520S	US2515
	STGF43R-125	1.25	2.00	0.20	12.7	4.76	5.5			●		
	STGF43R-145	1.45	2.00	0.20	12.7	4.76	5.5			●		
	STGF43R-150	1.50	3.50	0.20	12.7	4.76	5.5			●		
	STGF43R-175	1.75	3.50	0.20	12.7	4.76	5.5			●		
	STGF43R-185	1.85	3.50	0.20	12.7	4.76	5.5			●		
	STGF43R-200	2.00	3.50	0.20	12.7	4.76	5.5			●		
	STGF43R-230	2.30	3.50	0.20	12.7	4.76	5.5			●		
	STGF43R-250	2.50	4.00	0.30	12.7	4.76	5.5			●		
	STGF43R-265	2.65	4.00	0.30	12.7	4.76	5.5			●		
	STGF43R-280	2.80	4.00	0.30	12.7	4.76	5.5			●		
	STGF43R-300	3.00	4.00	0.30	12.7	4.76	5.5			●		
	STGF43R-320	3.20	4.00	0.30	12.7	4.76	5.5			●		
	STGF43R-330	3.30	4.00	0.30	12.7	4.76	5.5			●		
	STGF43R-350	3.50	5.00	0.30	12.7	4.76	5.5			●		
	STGF43R-400	4.00	5.00	0.40	12.7	4.76	5.5			●		
	STGF43R-430	4.30	5.00	0.40	12.7	4.76	5.5			●		
	STGF43R-450	4.50	5.00	0.40	12.7	4.76	5.5			●		
STGF43R-480	4.80	5.00	0.40	12.7	4.76	5.5			●			

Vc • fn 221

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

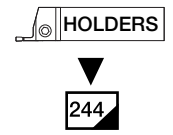
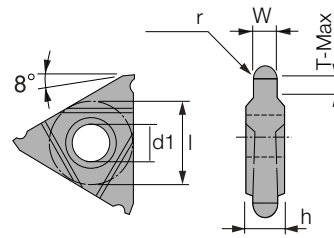
DRILLS



SPARE PARTS

INDEX

STGR

EXTERNAL ROUND GROOVING



DESCRIPTION		DIMENSIONS						CARBIDE				
		W	T-max	r	l	d1	h	CS9525S	PS9530	PS9520	PS7520S	US2515
	STGR32-200R	2.00	2.50	1.00	9.525	3.18	4.4			●		
	STGR32-300R	3.00	2.50	1.50	9.525	3.18	4.4			●		
	STGR43-100R	1.00	2.00	0.50	12.7	4.76	5.5			●		
	STGR43-150R	1.50	3.50	0.75	12.7	4.76	5.5			●		
	STGR43-200R	2.00	3.50	1.00	12.7	4.76	5.5			●		
	STGR43-250R	2.50	4.00	1.25	12.7	4.76	5.5			●		
	STGR43-300R	3.00	4.00	1.50	12.7	4.76	5.5			●		
	STGR43-400R	4.00	5.00	2.00	12.7	4.76	5.5			●		

GROOVING

Cutting Parameters Vc(m/min)

KG	GREY CAST IRON
KN	NODULAR CAST IRON
PL	LOW CARBON AND FREE CUTTING STEEL
PM	MEDIUM CARBON STEEL
PH	HIGH CARBON STEEL
PA	ALLOY STEEL

MM	MARTENSITIC AND FERRITIC STAINLESS STEEL
MA	AUSTENITIC STAINLESS STEEL
NA	ALUMINIUM ALLOYS
NH	ALUMINIUM ALLOYS AGED AND HARDENED
NB	BRASS
NC	BRONZE AND ELECTROLYTIC COPPER

MATERIAL		CARBIDE-CVD	CARBIDE-PVD			CARBIDE
		CS9525S	PS9530	PS9520	PS7520S	US2515
K	KG	250~450	200~360	200~360		
	KN	180~300	150~280	150~280		
P	PL	250~350	200~320	200~320		
	PM	220~300	180~260	180~260		
	PH	200~280	160~250	160~250		
	PA	180~250	150~220	150~220		
M	MM	160~260	160~260	160~260	160~260	
	MA	140~220	140~220	140~220	140~220	
N	NA					600~1500
	NH					300~700
	NB					250~400
	NC					150~250

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

Cutting Parameters f_n (mm/rev)

KG	GREY CAST IRON
KN	NODULAR CAST IRON
PL	LOW CARBON AND FREE CUTTING STEEL
PM	MEDIUM CARBON STEEL
PH	HIGH CARBON STEEL
PA	ALLOY STEEL

MM	MARTENSITIC AND FERRITIC STAINLESS STEEL
MA	AUSTENITIC STAINLESS STEEL
NA	ALUMINIUM ALLOYS
NH	ALUMINIUM ALLOYS AGED AND HARDENED
NB	BRASS
NC	BRONZE AND ELECTROLYTIC COPPER

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

Parting-off

MATERIAL		CUTTING WIDTH				
		2 mm	3 mm	4 mm	5 mm	6 mm
K	KG	0.05-0.12	0.10-0.25	0.10-0.30	0.10-0.35	0.10-0.40
	KN	0.05-0.10	0.10-0.20	0.10-0.25	0.10-0.30	0.10-0.35
P	PL	0.02-0.15	0.03-0.20	0.08-0.30	0.10-0.40	0.12-0.50
	PM	0.02-0.15	0.03-0.20	0.08-0.30	0.10-0.40	0.12-0.50
	PH	0.02-0.15	0.03-0.20	0.08-0.30	0.10-0.40	0.12-0.50
	PA	0.02-0.15	0.03-0.20	0.08-0.30	0.10-0.40	0.12-0.50
M	MM	0.02-0.10	0.03-0.15	0.08-0.25	0.10-0.35	0.12-0.40
	MA	0.02-0.08	0.03-0.13	0.08-0.20	0.10-0.30	0.12-0.35
N	NA	0.05-0.10	0.05-0.20	0.05-0.25	0.05-0.30	0.05-0.35
	NH	0.05-0.10	0.05-0.20	0.05-0.25	0.05-0.30	0.05-0.35
	NB	0.05-0.10	0.05-0.20	0.05-0.25	0.05-0.30	0.05-0.35
	NC	0.05-0.10	0.05-0.20	0.05-0.25	0.05-0.30	0.05-0.35

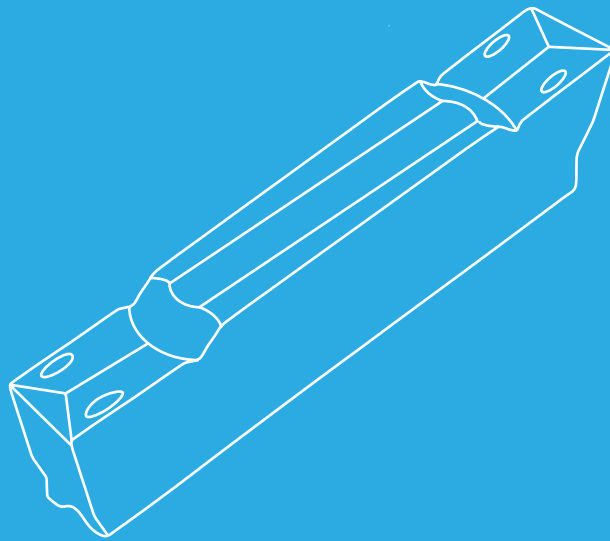
Facing

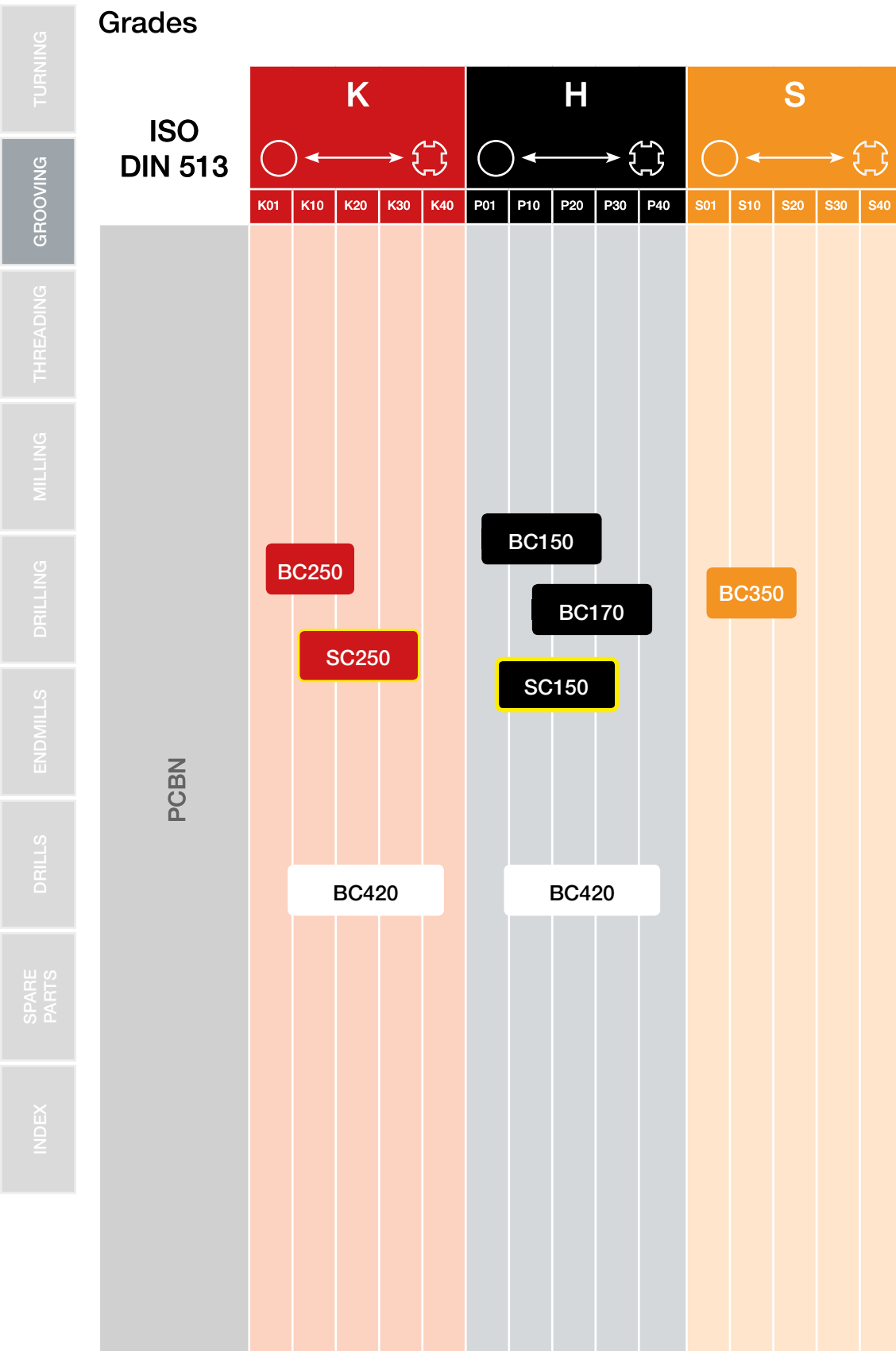
MATERIAL		CUTTING WIDTH		
		3 mm	4 mm	5 mm
K	KG	0.05-0.10	0.05-0.12	0.05-0.15
	KN	0.05-0.10	0.05-0.12	0.05-0.15
P	PL	0.05-0.10	0.05-0.12	0.05-0.15
	PM	0.05-0.10	0.05-0.12	0.05-0.15
	PH	0.05-0.10	0.05-0.12	0.05-0.15
	PA	0.05-0.10	0.05-0.12	0.05-0.15
M	MM	0.05-0.10	0.05-0.12	0.05-0.15
	MA	0.05-0.10	0.05-0.12	0.05-0.15
N	NA	0.05-0.15	0.08-0.15	0.08-0.15
	NH	0.05-0.15	0.08-0.15	0.08-0.15
	NB	0.05-0.15	0.08-0.15	0.08-0.15
	NC	0.05-0.15	0.08-0.15	0.08-0.15

Grooving, Groove Turning

MATERIAL		CUTTING WIDTH					
		0.5 ~ 1.0 mm	1.0 ~ 2.0 mm	2.0 ~ 3.0 mm	3.0 ~ 4.0 mm	4.0 ~ 5.0 mm	6.0 ~ 8.0 mm
K	KG	0.03-0.07	0.04-0.08	0.05-0.08	0.05-0.10	0.05-0.10	0.05-0.12
	KN	0.03-0.07	0.04-0.08	0.05-0.08	0.05-0.10	0.05-0.10	0.05-0.12
P	PL	0.03-0.08	0.04-0.09	0.05-0.10	0.05-0.12	0.05-0.15	0.05-0.20
	PM	0.03-0.08	0.04-0.09	0.05-0.10	0.05-0.12	0.05-0.15	0.05-0.20
	PH	0.03-0.07	0.04-0.08	0.05-0.08	0.05-0.10	0.05-0.12	0.05-0.15
	PA	0.03-0.07	0.04-0.08	0.05-0.08	0.05-0.10	0.05-0.12	0.05-0.15
M	MM	0.03-0.08	0.04-0.09	0.05-0.10	0.05-0.12	0.05-0.12	0.05-0.15
	MA	0.03-0.08	0.04-0.09	0.05-0.10	0.05-0.12	0.05-0.12	0.05-0.15
N	NA	0.05-0.12	0.05-0.15	0.05-0.15	0.08-0.15	0.08-0.15	0.10-0.20
	NH	0.05-0.12	0.05-0.15	0.05-0.15	0.08-0.15	0.08-0.15	0.10-0.20
	NB	0.05-0.12	0.05-0.15	0.05-0.15	0.08-0.15	0.08-0.15	0.10-0.20
	NC	0.05-0.12	0.05-0.15	0.05-0.15	0.08-0.15	0.08-0.15	0.10-0.20

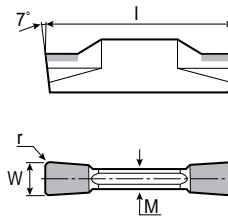
GROOVING / PCBN





MAGN

PARTING & GROOVING



TURNING

GROOVING

THREADING

MILLING


DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS					PCBN							
							BC150	BC170	SC150	BC250	SC250	BC350	BC420	
							W	r	l	M	h			
	MAGN200	2.0	0.2	16.0	1.2	3.5	●	●						●
	MAGN300	3.0	0.4	21.0	2.35	4.8	●	●						●
	MAGN400	4.0	0.4	21.0	3.3	4.8	●	●						●

Cutting Parameters

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

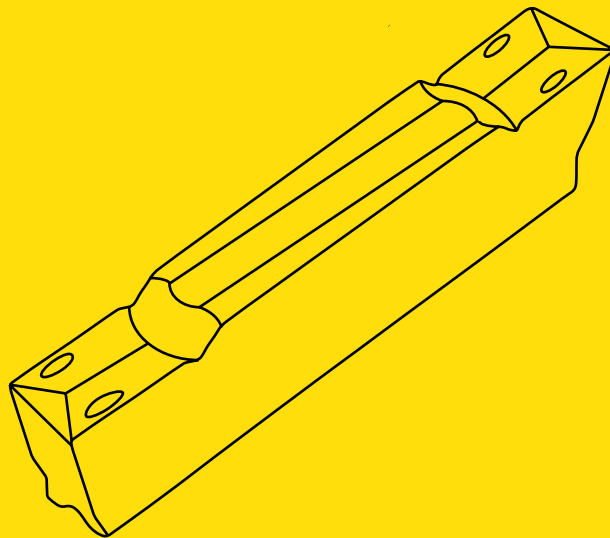
INDEX

KG	GREY CAST IRON
KN	NODULAR CAST IRON
KW	WHITE CAST IRON
KS	SINTERED MATERIAL

HH	HARDENED STEEL
HC	CASE HARDENED STEEL
HB	BEARING STEEL
SA	SUPER ALLOYS (Ni Based)

MATERIAL		fn (mm/rev)	CUTTING CONDITION		PCBN						
					BC150	BC170	SC150	BC250	SC250	BC350	BC420
H	HH	0,05~0,15	○	◊	80~180	80~180					80~150
			⊕	◊	60~120	60~120					80~150
	HC	0,05~0,15	○	◊	80~140	80~140					80~140
			⊕	◊	60~100	60~100					80~140
	HB	0,05~0,15	○	◊	80~120	80~120					80~120
			⊕	◊	60~100	60~100					80~120

GROOVING / diamond



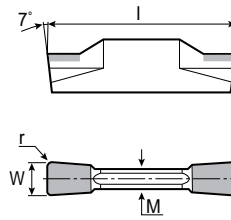
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Grades

ISO DIN 513	N				
	N01	N10	N20	N30	N40
PCD			PC100		
		PC150			
		PC200			
	PC300				

MAGN

PARTING & GROOVING



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TURNING

GROOVING

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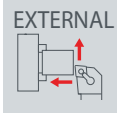
DESCRIPTION		DIMENSIONS					PCD			
							PC100	PC150	PC200	PC300
		W	r	l	M	h				
	MAGN200	2.0	0.2	16.0	1.2	3.5		●	●	
	MAGN300	3.0	0.4	21.0	2.35	4.8		●	●	
	MAGN400	4.0	0.4	21.0	3.3	4.8		●	●	

Cutting Parameters

NA	ALUMINIUM ALLOYS
NS	ALUMINIUM ALLOYS (Si≤15%)
NH	AL ALLOYS AGED AND HARDENED
NB	BRASS

NC	BRONZE AND ELECTROLYTIC COPPER
NG	GRAPHITE
HM	HARD METAL (Co≤16%)
ST	TITANIUM ALLOYS

MATERIAL		fn (mm/rev)	CUTTING CONDITION			PCD					
						PC100	PC150	PC200	PC300		
N	NA	0,05~0,15	○	⊕	☹		600~2500	600~2500			
		0,05~0,15	○	⊕	☹		600~2500	600~2500			
	NS	0,05~0,15	○	⊕	☹		500~1500	500~1500			
		0,05~0,15	○	⊕	☹		500~1500	500~1500			
	NB	0,05~0,15	○	⊕	☹		400~1200	400~1200			
		0,05~0,15	○	⊕	☹		400~1200	400~1200			
	NG	0,05~0,15	○	⊕	☹		300~800	300~800			
		0,05~0,15	○	⊕	☹		300~800	300~800			



S K T E R 25 25 - 2 T6

1

2

3

4

5

6

7

8

9

1

S

Steel Body

C

Carbide Body

2

Insert Type

G

SGD□

I

SDG□

K

MAG□

T

SAG□

S

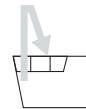
SK□□

3

Clamping Type

T

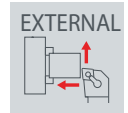
Top Screw



4

Clearance Angle

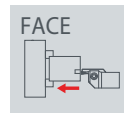
E



I



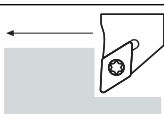
F



5

Direction

L



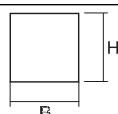
R



6

Shank

(H)

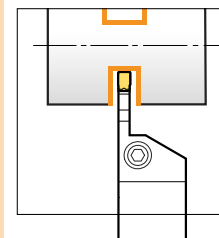


(B)

8

Grooving Width

...



9

T-Max

...



- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
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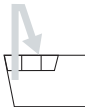


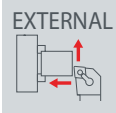

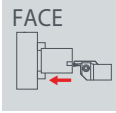
S K T I R 25 — 2 T6

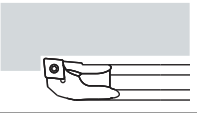
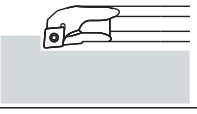
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
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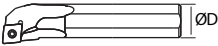
1	
S	Steel Body
C	Carbide Body

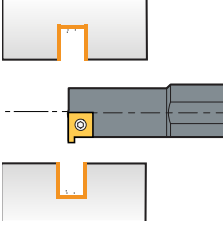
2	Insert Type
G	SGD□
I	SDG□
K	MAG□
T	SAG□
S	SK□□


3	Clamping Type
T	Top Screw 

4	Clearance Angle
E	EXTERNAL 
I	INTERNAL 
F	FACE 

5	Direction
L	
R	

6	Shank Diameter
...	

7	Grooving Width
...	

8	T-Max
...	

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

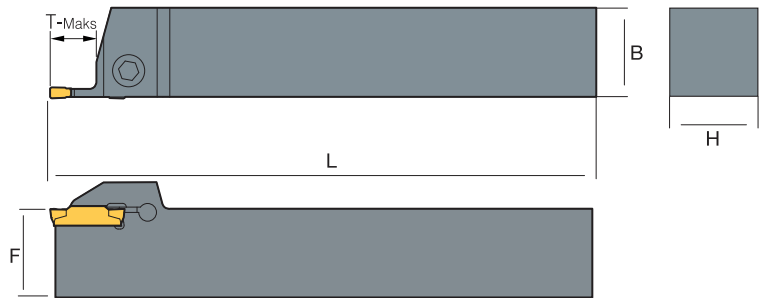
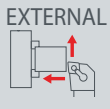
SPARE PARTS


INDEX

SGTE

screw on

SGD

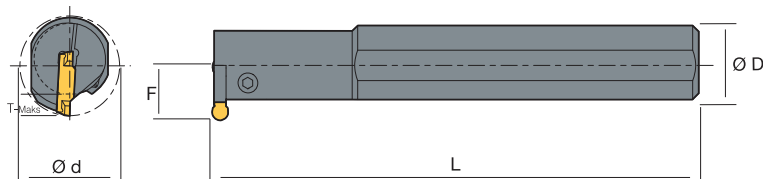



SGD	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F	tmax				
SGD-200	SGTER/L	1212	2T15	●		12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	2T18	●		16	16	100	16.3	18	ST-SC625	ST-WRT0050		
		2020	2T18	●		20	20	125	20.3	18	ST-SC625	ST-WRT0050		
		2525	2T18	●		25	25	150	25.3	18	ST-SC625	ST-WRT0050		
SGD-300	SGTER/L	1212	3T15	●		12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	3T18	●		16	16	100	16.4	18	ST-SC625	ST-WRT0050		
		2020	3T20	●		20	20	125	20.4	20	ST-SC625	ST-WRT0050		
		2525	3T22	●		25	25	150	25.3	22	ST-SC625	ST-WRT0050		
		3232	3T22	●		32	32	170	32.4	22	ST-SC625	ST-WRT0050		

SGTI

screw on

SGD



SGD	DESCRIPTION			STOCK		DIMENSIONS						
				R	L	D	d	L	F	tmax		
SGD-300	SGTIR/L	20	3T6	●		20	26	170	15	6	ST-SC410	ST-WRT0040
		25	3T8	●		25	32	200	18	8	ST-SC625	ST-WRT0040
		32	3T8	●		32	40	250	22	8	ST-SC625	ST-WRT0040

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
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- DRILLS
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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

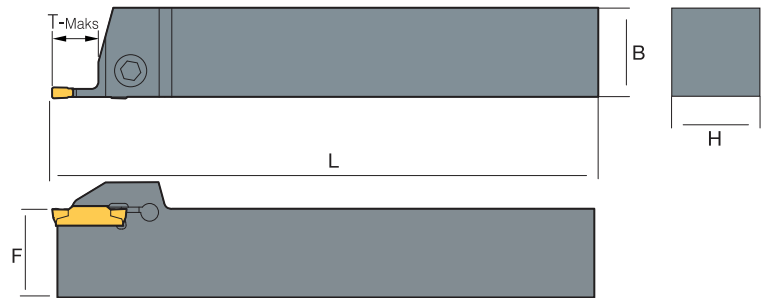
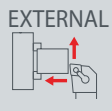
SPARE PARTS

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SITE

screw on

SDG



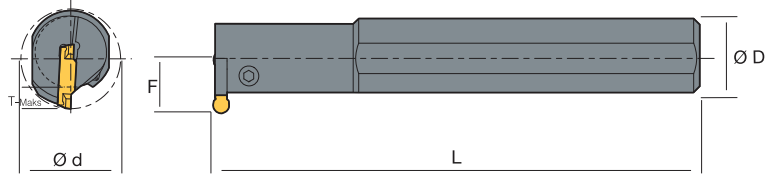
SDG	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F	tmax				
SDG-2202	SITER/L	1212	2T15	●	●	12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	2T18	●	●	16	16	100	16.3	18	ST-SC625	ST-WRT0050		
		2020	2T18	●	●	20	20	125	20.3	18	ST-SC625	ST-WRT0050		
		2525	2T18	●	●	25	25	150	25.3	18	ST-SC625	ST-WRT0050		
SDG-3102	SITER/L	1212	3T15	●	●	12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	3T18	●	●	16	16	100	16.4	18	ST-SC625	ST-WRT0050		
		2020	3T20	●	●	20	20	125	20.4	20	ST-SC625	ST-WRT0050		
		2525	3T10	●		25	25	150	25.3	10	ST-SC625	ST-WRT0050		
		2525	3T22	●	●	25	25	150	25.3	22	ST-SC625	ST-WRT0050		
		3232	3T22	●	●	32	32	170	32.4	22	ST-SC625	ST-WRT0050		


GROOVING

SITI

screw on

SDG



SDG	DESCRIPTION			STOCK		DIMENSIONS						
				R	L	D	d	L	F	tmax		
SDG-3102	SITIR/L	20	3T6	•	•	20	26	170	15	6	ST-SC410	ST-WRT0040
		25	3T8	•	•	25	32	200	18	8	ST-SC625	ST-WRT0040
		32	3T8	•	•	32	40	250	22	8	ST-SC625	ST-WRT0040

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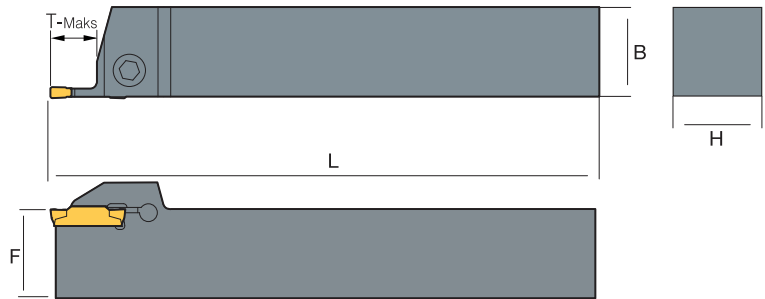
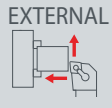
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SKTE

screw on

MAG

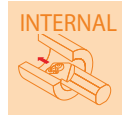
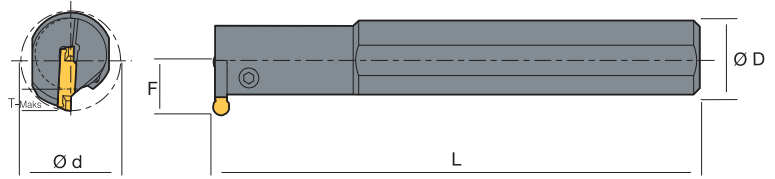


MAG	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F	tmax				
MAG-200	SKTER/L	1212	2T15	●	●	12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	2T18	●	●	16	16	100	16.3	18	ST-SC625	ST-WRT0050		
		2020	2T18	●	●	20	20	125	20.3	18	ST-SC625	ST-WRT0050		
		2020	2T12	●	●	25	25	150	20.3	12	ST-SC625	ST-WRT0050		
		2525	2T18	●	●	25	25	150	25.3	18	ST-SC625	ST-WRT0050		
		3232	2T18	●	●	32	32	170	32.3	18	ST-SC625	ST-WRT0050		
MAG-300	SKTER/L	1212	3T18	●	●	12	12	100	12.3	18	ST-SC520	ST-WRT0040		
		1616	3T18	●	●	16	16	100	16.4	18	ST-SC625	ST-WRT0050		
		2020	3T20	●	●	20	20	125	20.4	20	ST-SC625	ST-WRT0050		
		2020	3T22	●	●	20	20	125	25.4	22	ST-SC625	ST-WRT0050		
		2525	3T25	●	●	25	25	150	25.4	25	ST-SC625	ST-WRT0050		
		2525	3T40	●	●	25	25	150	25.4	40	ST-SC625	ST-WRT0050		
MAG-400	SKTER/L	2020	4T20	●	●	20	20	125	20.4	20	ST-SC625	ST-WRT0050		
		2020	4T25	●	●	20	20	125	20.4	25	ST-SC625	ST-WRT0050		
		2525	4T22	●	●	25	25	150	25.4	22	ST-SC625	ST-WRT0050		
		2525	4T25	●	●	25	25	150	25.4	25	ST-SC625	ST-WRT0050		
		2525	4T40	●	●	25	25	150	25.4	40	ST-SC625	ST-WRT0050		
		3232	4T22	●	●	32	32	170	32.4	22	ST-SC625	ST-WRT0050		
MAG-500	SKTER/L	2020	5T20	●	●	20	20	125	20.5	20	ST-SC625	ST-WRT0050		
		2525	5T25	●	●	25	25	150	25.5	25	ST-SC625	ST-WRT0050		
		3232	5T25	●	●	32	32	170	32.5	25	ST-SC625	ST-WRT0050		
MAG-600	SKTER/L	2525	6T25	●	●	25	25	150	25.6	25	ST-SC625	ST-WRT0050		
		3232	6T25	●	●	32	32	170	32.6	25	ST-SC625	ST-WRT0050		

SKTI

screw on

MAG



MAG	DESCRIPTION			STOCK		DIMENSIONS						
				R	L	D	d	L	F	tmax		
MAG-200	SKTIR/L	16	2T4	●	●	16	20	150	11.5	4	ST-SC412	ST-WRT0040
		20	2T4	●	●	20	26	170	14.5	4	ST-SC520	ST-WRT0050
		25	2T4	●	●	25	32	200	18.5	4	ST-SC625	ST-WRT0050
MAG-300	SKTIR/L	20	3T6	●	●	20	26	170	15	6	ST-SC625	ST-WRT0050
		25	3T6	●	●	25	32	200	18.5	6	ST-SC625	ST-WRT0050
		32	3T8	●	●	32	40	250	22	8	ST-SC520	ST-WRT0050
		40	3T8	●	●	40	48	300	27	8	ST-SC625	ST-WRT0050
MAG-400	SKTIR/L	20	4T6	●	●	20	26	170	14	6	ST-SC625	ST-WRT0050
		25	4T6	●	●	25	32	200	18.5	6	ST-SC625	ST-WRT0050
		32	4T6	●	●	32	40	250	22	6	ST-SC625	ST-WRT0050
		40	4T6	●	●	40	48	300	27	6	ST-SC625	ST-WRT0050
		50	4T15	●	●	50	65	300	40	15	ST-SC520	ST-WRT0050
MAG-500	SKTIR/L	25	5T6	●	●	25	32	200	18.5	7	ST-SC625	ST-WRT0050
		32	5T7	●	●	32	40	250	22	7	ST-SC625	ST-WRT0050
		40	5T7	●	●	40	48	300	27	7	ST-SC625	ST-WRT0050
		50	5T15	●	●	50	65	300	40	15	ST-SC8301	ST-WRT0060
MAG-600	SKTIR/L	50	6T15	●	●	50	65	300	40	15	ST-SC8301	ST-WRT0060

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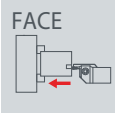
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SKTFR

screw on **MAG□**

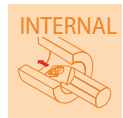
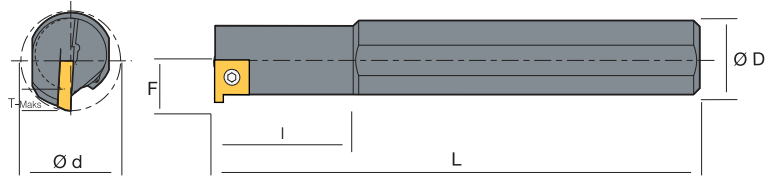


MAG□	DESCRIPTION				STOCK		DIMENSIONS								
					R	L	h	B	L	S	tmax	Dmin	Dmax		
MAG□-300	SKTFR	2525	3T17	30/40	●		25	25	150	26.5	17	30	40	ST-SC625	ST-WRT0050
		2525	3T17	35/50	●		25	25	150	26.5	17	35	50	ST-SC625	ST-WRT0050
		2525	3T17	45/70	●		25	25	150	26.5	17	45	70	ST-SC625	ST-WRT0050
		2525	3T17	65/105	●		25	25	150	26.5	17	65	105	ST-SC625	ST-WRT0050
		2525	3T17	100/150	●		25	25	150	26.5	17	100	150	ST-SC625	ST-WRT0050
MAG□-400	SKTFR	2525	4T22	30/40	●		25	25	150	26.5	22	30	40	ST-SC625	ST-WRT0050
		2525	4T22	35/50	●		25	25	150	26.5	22	35	50	ST-SC625	ST-WRT0050
		2525	4T22	45/70	●		25	25	150	26.5	22	45	70	ST-SC625	ST-WRT0050
		2525	4T22	65/105	●		25	25	150	26.5	22	65	105	ST-SC625	ST-WRT0050
		2525	4T22	100/150	●		25	25	150	26.5	22	100	150	ST-SC625	ST-WRT0050
MAG□-500	SKTFR	2525	5T25	75/110	●		25	25	150	26.5	25	75	110	ST-SC625	ST-WRT0050
		2525	5T25	105/150	●		25	25	150	26.5	25	105	150	ST-SC625	ST-WRT0050
		2525	5T25	145/200	●		25	25	150	26.5	25	145	200	ST-SC625	ST-WRT0050

SNGR

screw on

GR



GR	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	d	D	L	I	H	S			tmax
6GR-□□□	SNGR	08	H06	●		8	8	100	18	7	4.70	2.00	ST-SC412	ST-WRT0040
7GR-□□□	SNGR	08	H07	●		10	8	100	23	7	5.80	2.00	ST-SC625	ST-WRT0050
		10	K07	●		12	10	125	29	9	6.80	2.00	ST-SC625	ST-WRT0050
8GR-□□□	SNGR	10	K08	●		14	10	125	15	9	7.60	3.50	ST-SC520	ST-WRT0050
		12	M08	●		16	12	150	18	11	8.60	3.50	ST-SC625	ST-WRT0050
9GR-□□□	SNGR	16	Q09	●		20	16	180	20	15	11.6	3.50	ST-SC625	ST-WRT0050
		20	R09	●		24	20	200	25	18	13.6	3.50	ST-SC625	ST-WRT0050

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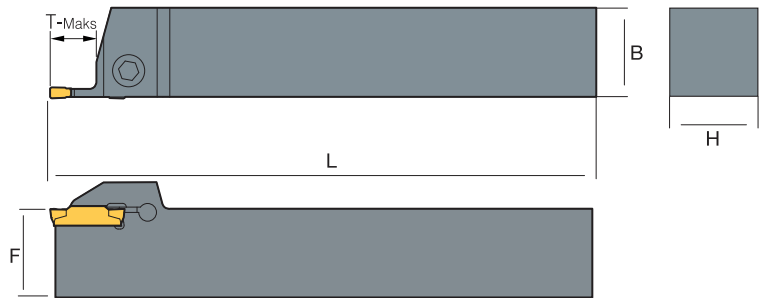
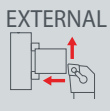
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STTE

screw on

SAG □

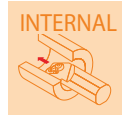
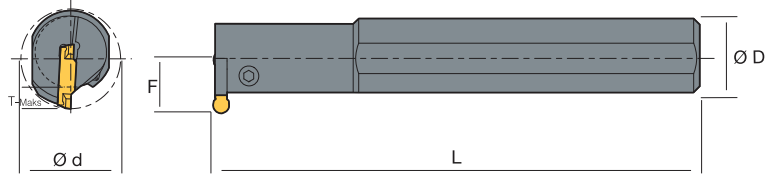


SAG □	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F	tmax				
SAG □-200	STTER/L	1212	2T15	●	●	12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	2T18	●	●	16	16	100	16.3	18	ST-SC625	ST-WRT0050		
		2020	2T18	●	●	20	20	125	20.3	18	ST-SC625	ST-WRT0050		
		2525	2T18	●	●	25	25	150	25.3	18	ST-SC625	ST-WRT0050		
SAG □-300	STTER/L	1212	3T15	●	●	12	12	100	12.3	15	ST-SC520	ST-WRT0040		
		1616	3T18	●	●	16	16	100	16.4	18	ST-SC625	ST-WRT0050		
		2020	3T20	●	●	20	20	125	20.4	20	ST-SC625	ST-WRT0050		
		2525	3T22	●	●	25	25	150	25.4	22	ST-SC625	ST-WRT0050		
SAG □-400	STTER/L	2020	4T20	●	●	20	20	125	20.4	20	ST-SC625	ST-WRT0050		
		2525	4T22	●	●	25	25	150	25.4	22	ST-SC625	ST-WRT0050		

STTI

screw on

SAG



SAG	DESCRIPTION			STOCK		DIMENSIONS						
				R	L	D	d	L	F	tmax		
SAG-200	STTIR/L	16	2T4	●		16	20	150	11.5	4	ST-SC412	ST-WRT0040
		20	2T4	●		20	26	170	14.5	4	ST-SC520	ST-WRT0050
		25	2T4	●		25	32	200	18.5	4	ST-SC625	ST-WRT0050
SAG-300	STTIR/L	20	3T6	●		20	26	170	15	6	ST-SC625	ST-WRT0050
		25	3T6	●		25	32	200	18.5	6	ST-SC625	ST-WRT0050
		32	3T8	●		32	40	250	22	8	ST-SC520	ST-WRT0050
SAG-400	STTIR/L	20	4T6	●		20	26	170	14	6	ST-SC625	ST-WRT0050
		25	4T6	●		25	32	200	18.5	6	ST-SC625	ST-WRT0050
		32	4T6	●		32	40	250	22	6	ST-SC625	ST-WRT0050

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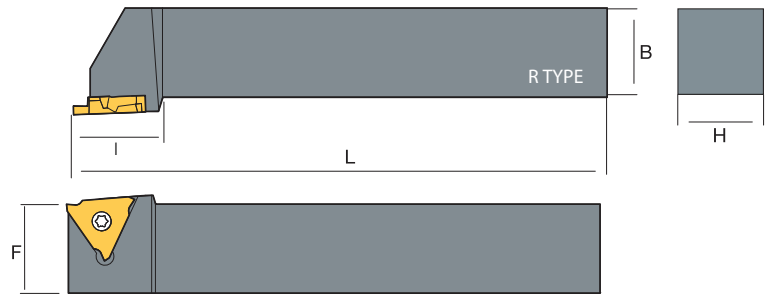
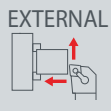
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screw on

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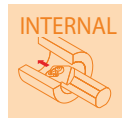
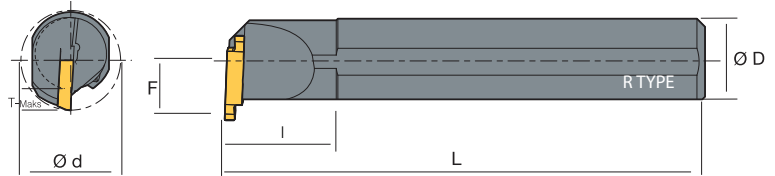



STGR	DESCRIPTION			STOCK		DIMENSIONS						
				R	L	H	B	L	I	F		
STGR32 50-180	SSTGR	1616	K3-15	●		16	16	125	21	16	ST-SC3509	ST-WRT15
		2020	K3-15	●		20	20	125	25	20	ST-SC3509	ST-WRT15
		2525	M3-15	●		25	25	150	30	25	ST-SC3509	ST-WRT15
STGR32 180-300	SSTGR	1616	K3-25	●		16	16	125	21	16	ST-SC3509	ST-WRT15
		2020	K3-25	●		20	20	125	25	20	ST-SC3509	ST-WRT15
		2525	M3-25	●		25	25	150	30	25	ST-SC3509	ST-WRT15
		3232	P3-25	●		32	32	170	40	32	ST-SC3509	ST-WRT15
STGR43 100-230	SSTGR	2020	K4-15	●		20	20	125	25	20	ST-SC5012	ST-WRT20
		2525	M4-15	●		25	25	150	30	25	ST-SC5012	ST-WRT20
STGR43 180-300	SSTGR	2020	K4-15	●		20	20	125	25	20	ST-SC5012	ST-WRT20
		2525	M4-25	●		25	25	150	30	25	ST-SC5012	ST-WRT20
		3232	P4-25	●		32	32	170	40	32	ST-SC5012	ST-WRT20
STGR43 330-480	SSTGR	2020	K4-35	●		20	20	125	25	20	ST-SC5012	ST-WRT20
		2525	M4-35	●		25	25	150	30	25	ST-SC5012	ST-WRT20
		3232	P4-35	●		32	32	170	40	32	ST-SC5012	ST-WRT20

S^SSTG

screw on

STGR



STGR	DESCRIPTION			STOCK		DIMENSIONS							
				R	L	H	W	S	L	H	I		
STGR32 50-180	S20Q	SSTGR	L3-15	●		28	20	12.5	180	45	18	ST-SC3509	ST-WRT15
	S25Q		L3-15	●		35	25	17.5	200	45	23	ST-SC3509	ST-WRT15
STGR32 180-300	S20Q	SSTGR	L3-25	●		28	20	12.5	180	45	18	ST-SC3509	ST-WRT15
	S25Q		L3-25	●		35	25	17.5	200	45	23	ST-SC3509	ST-WRT15
	S32Q		L3-25	●		40	32	21.0	250	45	30	ST-SC3509	ST-WRT15
STGR43 100-230	S25Q	SSTGR	L4-15	●		35	25	18.2	200	45	23	ST-SC5012	ST-WRT20
	S32Q		L4-15	●		40	32	23.0	250	45	30	ST-SC5012	ST-WRT20
STGR43 180-300	S25Q	SSTGR	L4-25	●		35	25	18.2	200	45	23	ST-SC5012	ST-WRT20
	S32Q		L4-25	●		40	32	23.0	250	45	30	ST-SC5012	ST-WRT20
STGR43 330-480	S25Q	SSTGR	L4-25	●		35	25	18.2	200	45	23	ST-SC5012	ST-WRT20
	S32Q		L4-25	●		40	32	23.0	250	45	30	ST-SC5012	ST-WRT20

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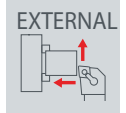
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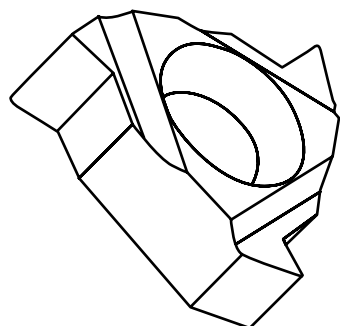
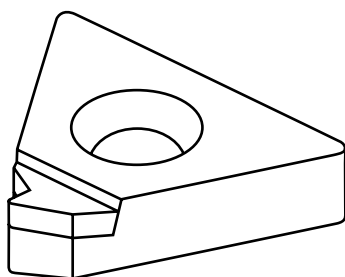
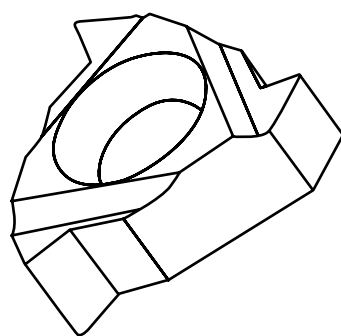
SSKF

screw on

SKF



SKF	DESCRIPTION			STOCK		DIMENSIONS						
				R	L	H	B	L	I	f		
SKF-12	SSKFR/L	1010	SX-12	●	●	10	10	125	23	10	ST-SC3007S	ST-WRT09S
		1212	SX-12	●	●	12	12	125	23	12	ST-SC3007S	ST-WRT09S
		1616	SX-12	●	●	16	16	125	23	16	ST-SC3007S	ST-WRT09S
SKF-12	SSKFR/L	1010	SX-16	●	●	10	10	125	23	10	ST-SC3007S	ST-WRT09S
		1212	SX-16	●	●	12	12	125	23	12	ST-SC3007S	ST-WRT09S
		1616	SX-16	●	●	16	16	125	23	16	ST-SC3007S	ST-WRT09S

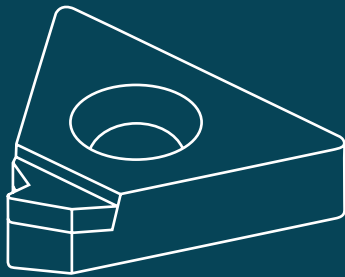


THREADING/

carbide /10
holders /115

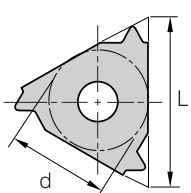


THREADING / **carbide**




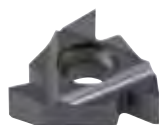
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

16	E	R	M	—	1.50
1	2	3	4		5

1	Insert Size (d)	
08	4,76mm	
11	6,35mm	
16	9,525mm	
22	12,70mm	
27	15,875mm	

2	Insert Type	
E	External	
I	Internal	

3	Hand of Insert	
R	Right	
L	Left	

4	Chip Breaker	
M		Chip Breaker Type
Non		Regular Type

5*	Pitch (Full Profile)	
0.35~6.0	mm	
3~72	TPI	

5*	Pitch (Partial Profile)	
A	0.50~1.50	
AG	0.50~3.00	
G	1.75~3.00	
N	3.50~5.00	
Q	5.50~6.00	

* Should use only one table based on profile type

* Should use only one table based on profile type

ISO
6

PS	7	4	30
10	11	12	13

6 Thread Standard

60	Partial Profile 60°
55	Partial Profile 55°
STACME	Stub ACME
UN	American UN
W	Whitworth for BSW, BSP
BSPT	British Standard Pipe Thread
ABUT	American Buttress
BBUT	British Buttress

SAGE	Metric Buttress DIN513
BUT	API Buttress Casing
APIRD	API Round Casing & Tubing
EL	Extreme Line Casing
NPT	NPT
NPTF	NPTF
NPS	NPS
PG	Pg DIN 40430

API	API
ISO	ISO Metric
UNJ	UNJ
MJ	ISO 5855
TR	Trapez DIN103
ACME	ACME
RD	Round DIN405

10 Coating & Material

CS	CVD Coated Carbide
PS	PVD Coated Carbide
PB	New PVD Coating
KS	Ceramic
SS	Cermet
US	Uncoated


11 Workpiece Material

2	Non-Ferrous Material
4	Hardened Steel
5	Steel
7	Stainless Steel
8	Cast Iron
9	General Machining

12 Machining

1	Turning
2	Turning New
4	Threading
9	Milling

13 ISO Grade

05	
10	
15	
20	
25	
30	
35	
40	
45	

TURNING

GROOVING

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MILLING

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GRADES

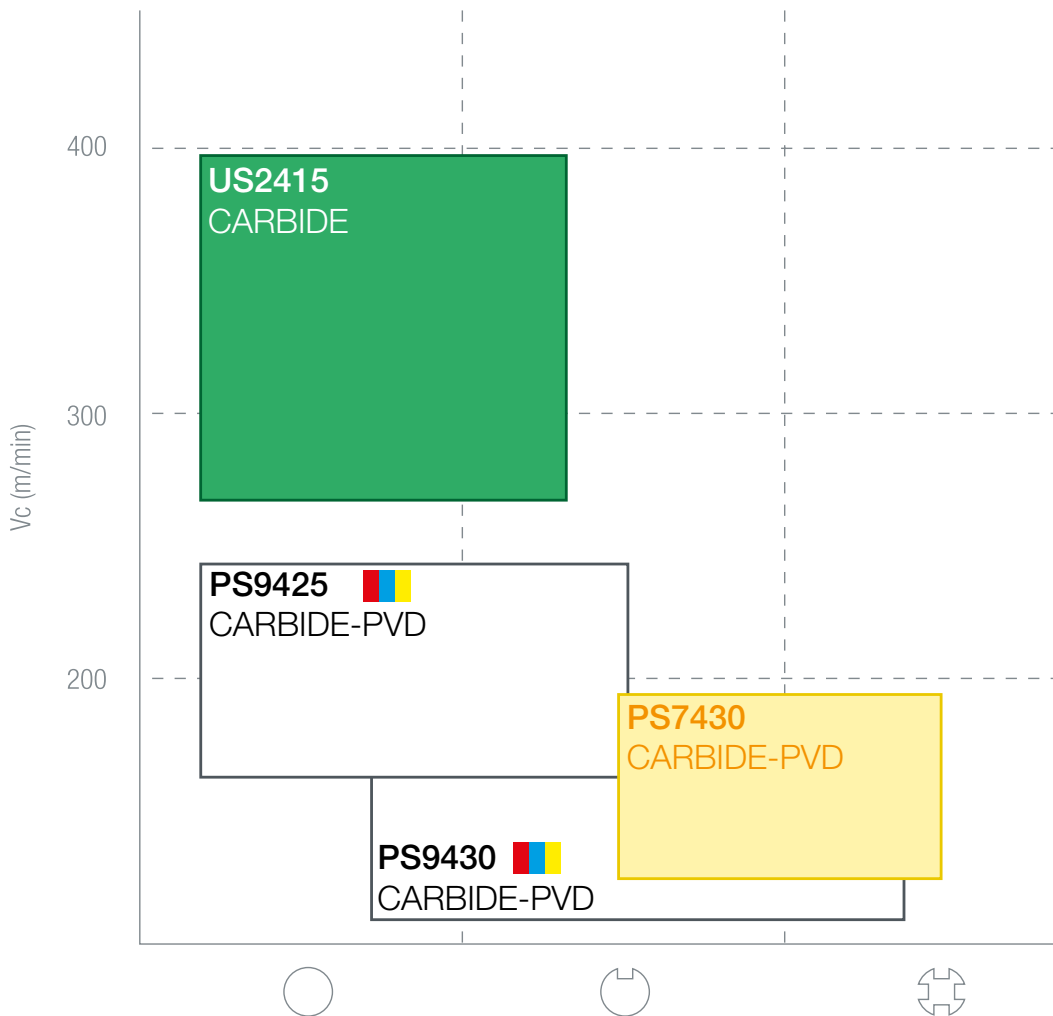
- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

	ISO DIN 513																			
	P					M					K					N				
	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	K01	K10	K20	K30	K40	N01	N10	N20	N30	N40
CARBIDE CVD																				
CARBIDE PVD	PS9425					PS9425					PS9425									
	PS9430					PS9430					PS9430									
	PS7430					PS7430														
CARBIDE UNCOATED																				US2415
CARBIDE UNCOATED																				

THREADING

Range ISO **P** **M** **K**

Grades



TURNING

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ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

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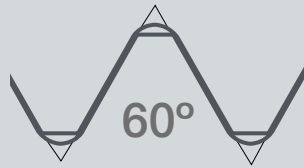
ENDMILLS

DRILLS

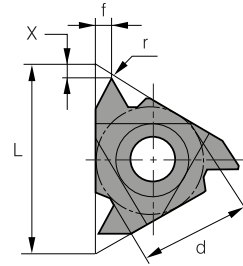
SPARE PARTS

INDEX

ER



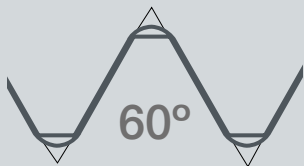
EXTERNAL PARTIAL PROFILE



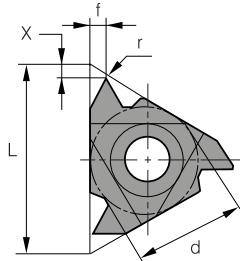
DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11ER-A60	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16ER-A60	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●	●		
	16ER-G60	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●	●		
	16ER-AG60	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	
	22ER-N60	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27ER-Q60	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16ERM-AG60	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			
	16ERM-G60	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●			

THREADING

IR



INTERNAL PARTIAL PROFILE



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	08IR-A60	0.5~1.5	48-16	4.76	8	0.05	0.6	0.7	●			
	11IR-A60	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16IR-A60	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●			
	16IR-G60	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●	●		●
	16IR-AG60	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	
	22IR-N60	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27IR-Q60	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16IRM-AG60	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

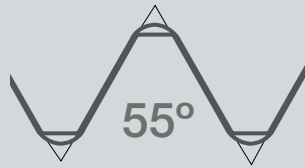
ENDMILLS

DRILLS

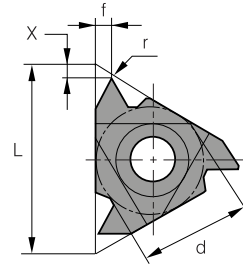
SPARE PARTS


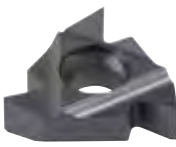
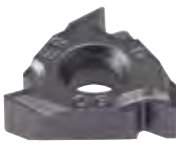
INDEX

ER



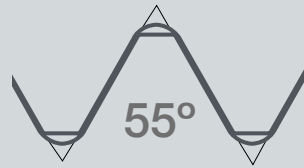
EXTERNAL PARTIAL PROFILE



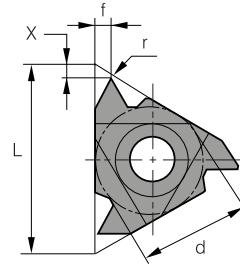
DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11ER-A55	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16ER-A55	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●		●	
	16ER-G55	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●	●		
	16ER-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	●
	22ER-N55	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27ER-Q55	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16ERM-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			
												

THREADING

IR



INTERNAL PARTIAL PROFILE



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	08IR-A55	0.5~1.5	48-16	4.76	8	0.05	0.6	0.7	●			
	11IR-A55	0.5~1.5	48-16	6.35	11	0.05	0.8	0.9	●	●	●	●
	16IR-A55	0.5~1.5	48-16	9.525	16	0.05	0.8	0.9	●			
	16IR-G55	1.75~3.0	14-8	9.525	16	0.27	1.2	1.7	●		●	●
	16IR-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●	●	●	
	22IR-N55	3.5~5.0	7-5	12.7	22	0.53	1.7	2.5	●	●	●	
	27IR-Q55	5.5~6.0	4.5-4	15.875	27	0.64	2.1	3.1	●			
	16IRM-AG55	0.5~3.0	48-8	9.525	16	0.08	1.2	1.7	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

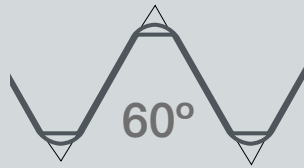
ENDMILLS

DRILLS

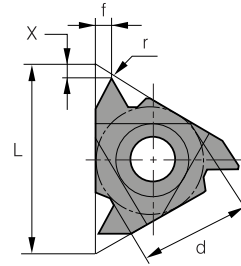
SPARE PARTS

INDEX

11ER



EXTERNAL METRIC



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f

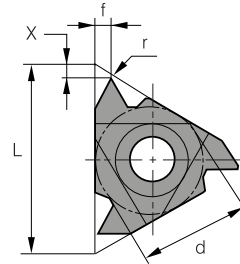
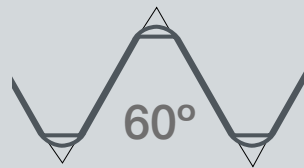


DESCRIPTION	DIMENSIONS								CARBIDE			
	P	d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
11ER-0.35ISO	0.35	6.35	11	0.21	0.8	0.4	●					
11ER-0.40ISO	0.40	6.35	11	0.25	0.7	0.4	●					
11ER-0.45ISO	0.45	6.35	11	0.28	0.7	0.4	●					
11ER-0.50ISO	0.50	6.35	11	0.31	0.6	0.4	●					
11ER-0.60ISO	0.60	6.35	11	0.37	0.6	0.6	●					
11ER-0.70ISO	0.70	6.35	11	0.43	0.6	0.6	●					
11ER-0.75ISO	0.75	6.35	11	0.46	0.6	0.6	●					
11ER-0.80ISO	0.80	6.35	11	0.49	0.6	0.6	●					
11ER-1.00ISO	1.00	6.35	11	0.61	0.7	0.7	●	●	●			
11ER-1.25ISO	1.25	6.35	11	0.77	0.8	0.9	●					
11ER-1.50ISO	1.50	6.35	11	0.92	0.8	1.0	●	●	●			
11ER-1.75ISO	1.75	6.35	11	1.07	0.8	1.1	●					
11ER-2.00ISO	2.00	6.35	11	1.15	0.9	1.1	●					
16ER-0.35ISO	0.35	9.525	16	0.21	0.8	0.4	●					
16ER-0.40ISO	0.40	9.525	16	0.25	0.7	0.4	●					
16ER-0.45ISO	0.45	9.525	16	0.28	0.7	0.4	●					
16ER-0.50ISO	0.50	9.525	16	0.31	0.6	0.4	●					
16ER-0.60ISO	0.60	9.525	16	0.37	0.6	0.6	●					
16ER-0.70ISO	0.70	9.525	16	0.43	0.6	0.6	●					
16ER-0.75ISO	0.75	9.525	16	0.46	0.6	0.6	●	●	●			
16ER-0.80ISO	0.80	9.525	16	0.49	0.6	0.6	●					
16ER-1.00ISO	1.00	9.525	16	0.61	0.7	0.7	●	●	●			
16ER-1.25ISO	1.25	9.525	16	0.77	0.8	0.9	●	●	●			
16ER-1.50ISO	1.50	9.525	16	0.92	0.8	1.0	●	●	●			
16ER-1.75ISO	1.75	9.525	16	1.07	0.9	1.2	●	●	●			
16ER-2.00ISO	2.00	9.525	16	1.23	1.0	1.3	●	●	●			
16ER-2.50ISO	2.50	9.525	16	1.53	1.1	1.5	●	●	●			
16ER-3.00ISO	3.00	9.525	16	1.84	1.2	1.6	●	●	●			

THREADING

22ER

EXTERNAL METRIC



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
		$\frac{1}{4}P$	d	l	h _{min}	x	f	PS9425	PS9430	PS7430	US2415	
	22ER-3.50ISO	3.50	12.7	22	2.15	1.6	2.3	●	●	●		
	22ER-4.00ISO	4.00	12.7	22	2.45	1.6	2.3	●	●	●		
	22ER-4.50ISO	4.50	12.7	22	2.78	1.7	2.4	●	●	●		
	22ER-5.00ISO	5.00	12.7	22	3.07	1.7	2.5	●	●	●		
	22ER-5.50ISO	5.50	12.7	22	3.37	1.9	2.5	●				
	22ER-6.00ISO	6.00	12.7	22	3.68	2.0	2.9	●				
	16ERM-1.00ISO	1.00	9.525	16	0.61	0.7	0.7	●				
	16ERM-1.25ISO	1.25	9.525	16	0.77	0.8	0.9	●				
	16ERM-1.50ISO	1.50	9.525	16	0.92	0.8	1.0	●				
	16ERM-1.75ISO	1.75	9.525	16	1.07	0.9	1.2	●				
	16ERM-2.00ISO	2.00	9.525	16	1.23	1.0	1.3	●				
	16ERM-2.50ISO	2.50	9.525	16	1.53	1.1	1.5	●				
	16ERM-3.00ISO	3.00	9.525	16	1.84	1.2	1.6	●				
	16ERM-3.50ISO	3.50	9.525	16	2.15	1.6	2.3	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

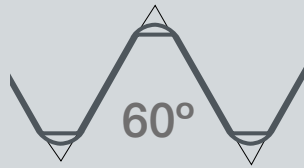
ENDMILLS

DRILLS

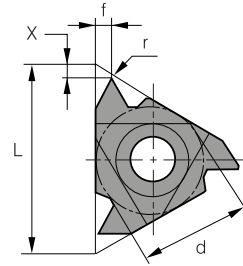
SPARE PARTS

INDEX

IR



INTERNAL METRIC



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

hmin

x

f

11IR-0.35ISO

0.35

6.35

11

0.21

0.8

0.4

●

11IR-0.40ISO

0.40

6.35

11

0.25

0.7

0.4

●

11IR-0.45ISO

0.45

6.35

11

0.28

0.7

0.4

●

11IR-0.50ISO

0.50

6.35

11

0.31

0.6

0.4

●

11IR-0.60ISO

0.60

6.35

11

0.37

0.6

0.6

●

11IR-0.70ISO

0.70

6.35

11

0.43

0.6

0.6

●

11IR-0.75ISO

0.75

6.35

11

0.46

0.6

0.6

●

11IR-0.80ISO

0.80

6.35

11

0.49

0.6

0.6

●

11IR-1.00ISO

1.00

6.35

11

0.61

0.7

0.7

●

●

●

11IR-1.25ISO

1.25

6.35

11

0.77

0.8

0.9

●

11IR-1.50ISO

1.50

6.35

11

0.92

0.8

1.0

●

●

●

11IR-1.75ISO

1.75

6.35

11

1.07

0.8

1.1

●



11IR-2.00ISO

2.00

6.35

11

1.15

0.9

1.1

●

16IR-0.35ISO

0.35

9.525

16

0.21

0.8

0.4

●

16IR-0.40ISO

0.40

9.525

16

0.25

0.7

0.4

●

16IR-0.45ISO

0.45

9.525

16

0.28

0.7

0.4

●

16IR-0.50ISO

0.50

9.525

16

0.31

0.6

0.4

●

16IR-0.60ISO

0.60

9.525

16

0.37

0.6

0.6

●

16IR-0.70ISO

0.70

9.525

16

0.43

0.6

0.6

●

16IR-0.75ISO

0.75

9.525

16

0.46

0.6

0.6

●

●

●

16IR-0.80ISO

0.80

9.525

16

0.49

0.6

0.6

●

16IR-1.00ISO

1.00

9.525

16

0.61

0.7

0.7

●

●

●

16IR-1.25ISO

1.25

9.525

16

0.77

0.8

0.9

●

●

●

16IR-1.50ISO

1.50

9.525

16

0.92

0.8

1.0

●

●

●

16IR-1.75ISO

1.75

9.525

16

1.07

0.9

1.2

●

●

●

16IR-2.00ISO

2.00

9.525

16

1.23

1.0

1.3

●

●

●

16IR-2.50ISO

2.50

9.525

16

1.53

1.1

1.5

●

●

●

16IR-3.00ISO

3.00

9.525

16

1.84

1.2

1.6

●

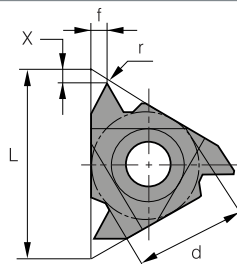
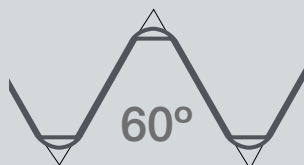
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THREADING

IR

INTERNAL METRIC

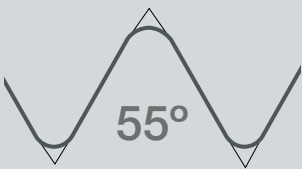


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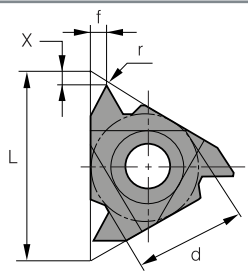
DESCRIPTION		DIMENSIONS							CARBIDE			
		$\frac{1}{4}P$	d	l	h _{min}	x	f	PS9425	PS9430	PS7430	US2415	
	22IR-3.50ISO	3.50	12.7	22	2.15	1.6	2.3	●	●	●		
	22IR-4.00ISO	4.00	12.7	22	2.45	1.6	2.3	●	●	●		
	22IR-4.50ISO	4.50	12.7	22	2.78	1.7	2.4	●	●	●		
	22IR-5.00ISO	5.00	12.7	22	3.07	1.7	2.5	●	●	●		
	22IR-5.50ISO	5.50	12.7	22	3.37	1.9	2.5	●				
	22IR-6.00ISO	6.00	12.7	22	3.68	2.0	2.9	●				
	16IRM-1.00ISO	1.00	9.525	16	0.61	0.7	0.7	●				
	16IRM-1.50ISO	1.50	9.525	16	0.92	0.8	1.0	●				
	16IRM-2.00ISO	2.00	9.525	16	1.23	1.0	1.3	●				
	16IRM-2.50ISO	2.50	9.525	16	1.53	1.1	1.5	●				
	16IRM-3.00ISO	3.00	9.525	16	1.84	1.2	1.6	●				
	16IRM-3.50ISO	3.50	9.525	16	2.15	1.6	2.3	●				


- TURNING
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
11ER

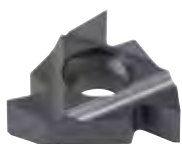


EXTERNAL WHITWORTH



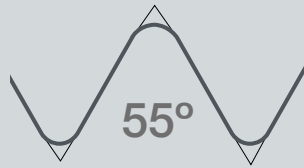


DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
11ER-14W	14	6,35	11	1,16	0,9	1,1	●					
11ER-16W	16	6,35	11	1,02	0,9	1,1	●					
11ER-18W	18	6,35	11	0,9	0,8	1	●					
11ER-19W	19	6,35	11	0,86	0,8	1	●					
11ER-20W	20	6,35	11	0,81	0,8	0,9	●					
11ER-22W	22	6,35	11	0,74	0,8	0,9	●					
11ER-24W	24	6,35	11	0,68	0,7	0,8	●					
11ER-26W	26	6,35	11	0,63	0,7	0,7	●					
11ER-28W	28	6,35	11	0,58	0,6	0,7	●					
11ER-32W	32	6,35	11	0,51	0,6	0,6	●					
11ER-36W	36	6,35	11	0,45	0,6	0,6	●					
11ER-40W	40	6,35	11	0,41	0,6	0,6	●					
11ER-48W	48	6,35	11	0,34	0,6	0,6	●					
11ER-56W	56	6,35	11	0,29	0,7	0,4	●					
11ER-60W	60	6,35	11	0,27	0,7	0,4	●					
11ER-72W	72	6,35	11	0,23	0,7	0,4	●					
16ER-8W	8	9,52	16	2,03	1,2	1,5	●					
16ER-9W	9	9,52	16	1,81	1,2	1,7	●					
16ER-10W	10	9,52	16	1,63	1,1	1,5	●					
16ER-11W	11	9,52	16	1,48	1,1	1,5	●	●	●			
16ER-12W	12	9,52	16	1,36	1,1	1,4	●					
16ER-14W	14	9,52	16	1,16	1	1,2	●	●	●			
16ER-16W	16	9,52	16	1,02	0,9	1,1	●					
16ER-18W	18	9,52	16	0,9	0,8	1	●					
16ER-19W	19	9,52	16	0,86	0,8	1	●	●	●			
16ER-20W	20	9,52	16	0,81	0,8	0,9	●					
16ER-22W	22	9,52	16	0,74	0,8	0,9	●					
16ER-24W	24	9,52	16	0,68	0,7	0,8	●					

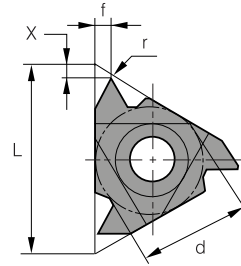


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16ER



EXTERNAL WHITWORTH



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DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16ER-26W	26	9,52	16	0,63	0,7	0,7	●				
	16ER-28W	28	9,52	16	0,58	0,6	0,7	●				
	16ER-30W	30	9,52	16	0,55	0,6	0,7	●				
	16ER-32W	32	9,52	16	0,51	0,6	0,6	●				
	16ER-36W	36	9,52	16	0,45	0,6	0,6	●				
	16ER-40W	40	9,52	16	0,41	0,6	0,6	●				
	16ER-48W	48	9,52	16	0,34	0,6	0,6	●				
	16ER-56W	56	9,52	16	0,29	0,7	0,4	●				
	16ER-60W	60	9,52	16	0,27	0,7	0,4	●				
	16ER-72W	72	9,52	16	0,23	0,7	0,4	●				
	22ER-5W	5	12,7	22	3,25	1,7	2,4	●				
22ER-6W	6	12,7	22	2,71	1,6	2,3	●					
22ER-7W	7	12,7	22	3,32	1,6	2,3	●					
27ER-4W	4	15,88	27	4,07	2	2,9	●					
27ER-4.5W	4,5	15,88	27	3,61	1,8	2,6	●					
	16ERM-8W	8	9,52	16	2,03	1,2	1,5	●				
	16ERM-11W	11	9,52	16	1,48	1,1	1,5	●				
	16ERM-14W	14	9,52	16	1,16	1	1,2	●				
	16ERM-24W	24	9,52	16	0,68	0,7	0,8	●				

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DRILLING

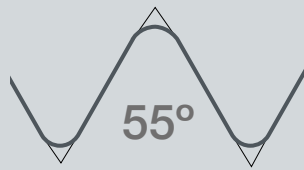
ENDMILLS

DRILLS

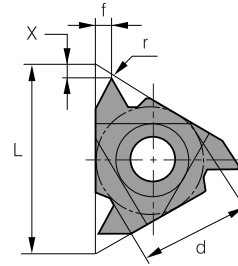
SPARE PARTS


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INTERNAL WHITWORTH

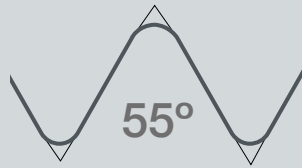


DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
11IR-14W		14	6,35	11	1,16	0,9	1,1	●				
11IR-16W		16	6,35	11	1,02	0,9	1,1	●				
11IR-18W		18	6,35	11	0,9	0,8	1	●				
11IR-19W		19	6,35	11	0,86	0,8	1	●				
11IR-20W		20	6,35	11	0,81	0,8	0,9	●				
11IR-22W		22	6,35	11	0,74	0,8	0,9	●				
11IR-24W		24	6,35	11	0,68	0,7	0,8	●				
11IR-26W		26	6,35	11	0,63	0,7	0,7	●				
11IR-28W		28	6,35	11	0,58	0,6	0,7	●				
11IR-32W		32	6,35	11	0,51	0,6	0,6	●				
11IR-36W		36	6,35	11	0,45	0,6	0,6	●				
11IR-40W		40	6,35	11	0,41	0,6	0,6	●				
11IR-48W		48	6,35	11	0,34	0,6	0,6	●				
11IR-56W		56	6,35	11	0,29	0,7	0,4	●				
11IR-60W		60	6,35	11	0,27	0,7	0,4	●				
11IR-72W		72	6,35	11	0,23	0,7	0,4	●				
16IR-8W		8	9,52	16	2,03	1,2	1,5	●				
16IR-9W		9	9,52	16	1,81	1,2	1,7	●				
16IR-10W		10	9,52	16	1,63	1,1	1,5	●				
16IR-11W		11	9,52	16	1,48	1,1	1,5	●	●	●		
16IR-12W		12	9,52	16	1,36	1,1	1,4	●				
16IR-14W		14	9,52	16	1,16	1	1,2	●	●	●		
16IR-16W		16	9,52	16	1,02	0,9	1,1	●				
16IR-18W		18	9,52	16	0,9	0,8	1	●				
16IR-19W		19	9,52	16	0,86	0,8	1	●				
16IR-20W		20	9,52	16	0,81	0,8	0,9	●				
16IR-22W		22	9,52	16	0,74	0,8	0,9	●				
16IR-24W		24	9,52	16	0,68	0,7	0,8	●				

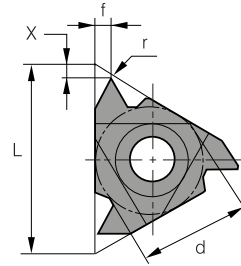


THREADING

IR



INTERNAL WHITWORTH



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DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16IR-26W	26	9,52	16	0,63	0,7	0,7	●				
	16IR-28W	28	9,52	16	0,58	0,6	0,7	●				
	16IR-30W	30	9,52	16	0,55	0,6	0,7	●				
	16IR-32W	32	9,52	16	0,51	0,6	0,6	●				
	16IR-36W	36	9,52	16	0,45	0,6	0,6	●				
	16IR-40W	40	9,52	16	0,41	0,6	0,6	●				
	16IR-48W	48	9,52	16	0,34	0,6	0,6	●				
	16IR-56W	56	9,52	16	0,29	0,7	0,4	●				
	16IR-60W	60	9,52	16	0,27	0,7	0,4	●				
	16IR-72W	72	9,52	16	0,23	0,7	0,4	●				
	22IR-5W	5	12,7	22	3,25	1,7	2,4	●				
22IR-6W	6	12,7	22	2,71	1,6	2,3	●					
22IR-7W	7	12,7	22	3,32	1,6	2,3	●					
27IR-4W	4	15,88	27	4,07	2	2,9	●					
27IR-4.5W	4,5	15,88	27	3,61	1,8	2,6	●					
	16IRM-11W	11	9,52	16	1,48	1,1	1,5	●				
	16IRM-14W	14	9,52	16	1,16	1	1,2	●				

TURNING

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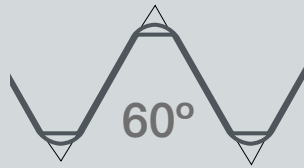
ENDMILLS

DRILLS

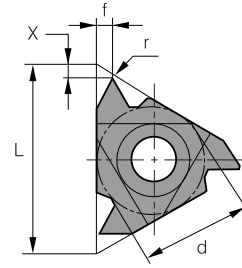
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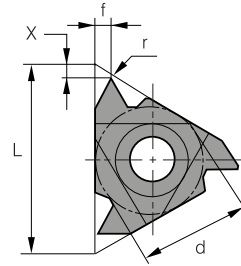
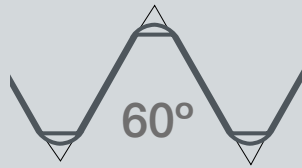
DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
		11PT										
11ER-14UN		14	6,35	11	1,11	0,9	1,1	●				
11ER-16UN		16	6,35	11	0,97	0,9	1,1	●				
11ER-18UN		18	6,35	11	0,87	0,8	1	●				
11ER-20UN		20	6,35	11	0,78	0,8	0,9	●				
11ER-24UN		24	6,35	11	0,65	0,7	0,8	●				
11ER-27UN		27	6,35	11	0,58	0,7	0,8	●				
11ER-28UN		28	6,35	11	0,56	0,6	0,7	●				
11ER-32UN		32	6,35	11	0,49	0,6	0,6	●				
11ER-36UN		36	6,35	11	0,43	0,6	0,6	●				
11ER-40UN		40	6,35	11	0,39	0,6	0,6	●				
11ER-44UN		44	6,35	11	0,35	0,6	0,6	●				
11ER-48UN		48	6,35	11	0,32	0,6	0,6	●				
11ER-56UN		56	6,35	11	0,28	0,7	0,4	●				
11ER-64UN		64	6,35	11	0,24	0,8	0,4	●				
11ER-72UN		72	6,35	11	0,22	0,8	0,4	●				
16ER-8UN		8	9,52	16	1,95	1,2	1,6	●				
16ER-9UN		9	9,52	16	1,73	1,2	1,7	●				
16ER-10UN		10	9,52	16	1,56	1,1	1,5	●				
16ER-11UN		11	9,52	16	1,42	1,1	1,5	●				
16ER-11.5UN		11,5	9,52	16	1,35	1,1	1,5	●				
16ER-12UN		12	9,52	16	1,3	1,1	1,4	●				
16ER-13UN		13	9,52	16	1,2	1	1,3	●				
16ER-14UN		14	9,52	16	1,11	0,9	1,2	●				
16ER-16UN		16	9,52	16	0,97	0,9	1,1	●				
16ER-18UN		18	9,52	16	0,87	0,8	1	●	●	●		
16ER-20UN		20	9,52	16	0,78	0,8	0,9	●	●	●		
16ER-24UN		24	9,52	16	0,65	0,7	0,8	●	●	●		
16ER-27UN		27	9,52	16	0,58	0,7	0,8	●				



THREADING

16ER

EXTERNAL UN



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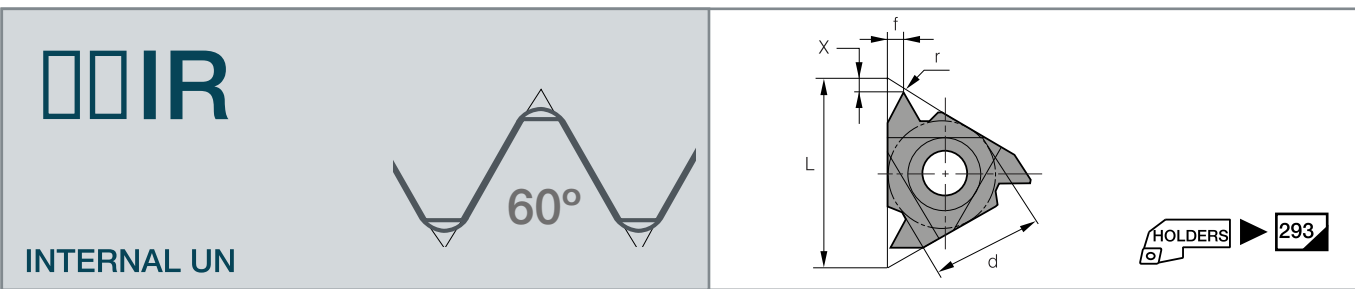
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
DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16ER-28UN		28	9,52	16	0,56	0,6	0,7	●			
	16ER-32UN		32	9,52	16	0,49	0,6	0,6	●			
	16ER-36UN		36	9,52	16	0,43	0,6	0,6	●			
	16ER-40UN		40	9,52	16	0,39	0,6	0,6	●			
	16ER-44UN		56	9,52	16	0,28	0,7	0,4	●			
	16ER-48UN		64	9,52	16	0,24	0,8	0,4	●			
	16ER-56UN		56	9,52	16	0,28	0,7	0,4	●			
	16ER-64UN		64	9,52	16	0,24	0,8	0,4	●			
	16ER-72UN		72	9,52	16	0,22	0,8	0,4	●			
	22ER-5UN		5	12,7	22	3,12	1,6	2,3	●			
	22ER-6UN		6	12,7	22	2,6	1,6	2,3	●			
	22ER-7UN		7	12,7	22	2,22	1,6	2,3	●			
	27ER-4UN		4	15,88	27	3,89	1,8	2,7	●			
	27ER-4.5UN		4,5	15,88	27	3,46	1,7	2,4	●			
	16ERM-12UN		12	9,52	16	1,3	1,1	1,4	●			
	16ERM-16UN		16	9,52	16	0,97	0,9	1,1	●			
	16ERM-18UN		18	9,52	16	0,87	0,8	1	●			

Carbide

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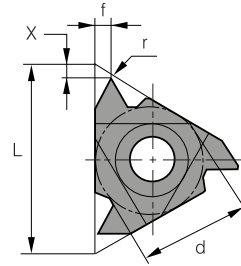
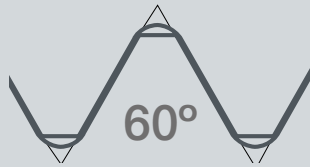
DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	h _{min}	x	f	PS9425	PS9430	PS7430	US2415		
11IR-14UN	14	6,35	11	1,11	0,9	1,1	●					
11IR-16UN	16	6,35	11	0,97	0,9	1,1	●					
11IR-18UN	18	6,35	11	0,87	0,8	1	●					
11IR-20UN	20	6,35	11	0,78	0,8	0,9	●					
11IR-24UN	24	6,35	11	0,65	0,7	0,8	●					
11IR-27UN	27	6,35	11	0,58	0,7	0,8	●					
11IR-28UN	28	6,35	11	0,56	0,6	0,7	●					
11IR-32UN	32	6,35	11	0,49	0,6	0,6	●					
11IR-36UN	36	6,35	11	0,43	0,6	0,6	●					
11IR-40UN	40	6,35	11	0,39	0,6	0,6	●					
11IR-44UN	44	6,35	11	0,35	0,6	0,6	●					
11IR-48UN	48	6,35	11	0,32	0,6	0,6	●					
11IR-56UN	56	6,35	11	0,28	0,7	0,4	●					
11IR-64UN	64	6,35	11	0,24	0,8	0,4	●					
11IR-72UN	72	6,35	11	0,22	0,8	0,4	●					
16IR-8UN	8	9,52	16	1,95	1,2	1,6	●					
16IR-9UN	9	9,52	16	1,73	1,2	1,7	●					
16IR-10UN	10	9,52	16	1,56	1,1	1,5	●					
16IR-11UN	11	9,52	16	1,42	1,1	1,5	●					
16IR-11.5UN	11,5	9,52	16	1,35	1,1	1,5	●					
16IR-12UN	12	9,52	16	1,3	1,1	1,4	●					
16IR-13UN	13	9,52	16	1,2	1	1,3	●					
16IR-14UN	14	9,52	16	1,11	0,9	1,2	●					
16IR-16UN	16	9,52	16	0,97	0,9	1,1	●					
16IR-18UN	18	9,52	16	0,87	0,8	1	●	●	●			
16IR-20UN	20	9,52	16	0,78	0,8	0,9	●	●	●			
16IR-24UN	24	9,52	16	0,65	0,7	0,8	●	●	●			
16IR-27UN	27	9,52	16	0,58	0,7	0,8	●					



THREADING

16IR

INTERNAL UN



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GROOVING

THREADING

MILLING

DRILLING

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DRILLS

SPARE PARTS

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DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	16IR-28UN	28	9,52	16	0,56	0,6	0,7	●				
	16IR-32UN	32	9,52	16	0,49	0,6	0,6	●				
	16IR-36UN	36	9,52	16	0,43	0,6	0,6	●				
	16IR-40UN	40	9,52	16	0,39	0,6	0,6	●				
	16IR-44UN	44	9,52	16	0,35	0,6	0,6	●				
	16IR-48UN	48	9,52	16	0,32	0,6	0,6	●				
	16IR-56UN	56	9,52	16	0,28	0,7	0,4	●				
	16IR-64UN	64	9,52	16	0,24	0,8	0,4	●				
	16IR-72UN	72	9,52	16	0,22	0,8	0,4	●				
	22IR-5UN	5	12,7	22	3,12	1,6	2,3	●				
	22IR-6UN	6	12,7	22	2,6	1,6	2,3	●				
	22IR-7UN	7	12,7	22	2,22	1,6	2,3	●				
	27IR-4UN	4	15,88	27	3,89	1,8	2,7	●				
	27IR-4.5UN	4,5	15,88	27	3,46	1,7	2,4	●				
	16IRM-12UN	12	9,52	16	1,3	1,1	1,4	●				
	16IRM-16UN	16	9,52	16	0,97	0,9	1,1	●				
	16IRM-18UN	18	9,52	16	0,87	0,8	1	●				

TURNING

GROOVING

THREADING

MILLING

DRILLING

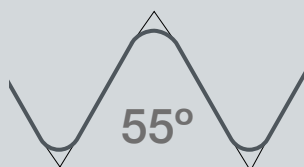
ENDMILLS

DRILLS

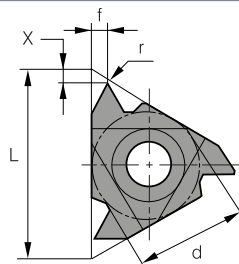
SPARE PARTS

INDEX

ER



EXTERNAL BSPT

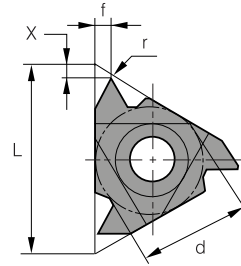
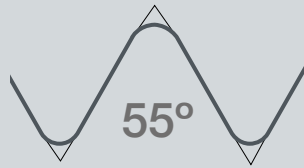


DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11ER-14BSPT		14	6,35	11	1,16	0,9	1	●			
	11ER-19BSPT		19	6,35	11	0,86	0,8	0,9	●			
	11ER-28BSPT		28	6,35	11	0,58	0,6	0,6	●			
	16ER-11BSPT		11	9,52	16	1,48	1,1	1,5	●	●	●	
	16ER-14BSPT		14	9,52	16	1,16	1	1,2	●	●	●	
	16ER-19BSPT		19	9,52	16	0,86	0,8	0,9	●	●	●	
	16ER-28BSPT		28	9,52	16	0,58	0,6	0,6	●			
	16ERM-11BSPT		11	9,52	16	1,48	1,1	1,5	●			
	16ERM-14BSPT		14	9,52	16	1,16	1	1,2	●			

THREADING

IR

INTERNAL BSPT



- TURNING
- GROOVING
- THREADING
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DESCRIPTION	DIMENSIONS							CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11IR-14BSPT	14	6,35	11	1,16	0,9	1	●			
	11IR-19BSPT	19	6,35	11	0,86	0,8	0,9	●			
	11IR-28BSPT	28	6,35	11	0,58	0,6	0,6	●			
	16IR-11BSPT	11	9,52	16	1,48	1,1	1,5	●	●	●	
	16IR-14BSPT	14	9,52	16	1,16	1	1,2	●			
	16IR-19BSPT	19	9,52	16	0,86	0,8	0,9	●			
	16IR-28BSPT	28	9,52	16	0,58	0,6	0,6	●			
	16IRM-11BSPT	11	9,52	16	1,48	1,1	1,5	●			
	16IRM-14BSPT	14	9,52	16	1,16	1	1,2	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

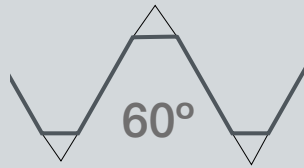
ENDMILLS

DRILLS

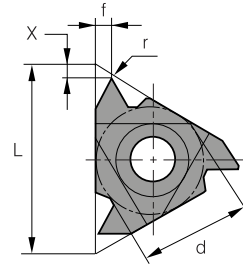
SPARE PARTS

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11ER



EXTERNAL NPT

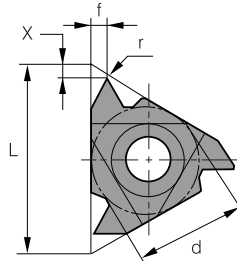
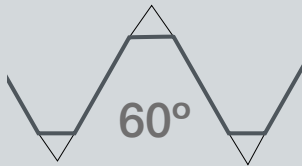


DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11ER-14NPT	14	6,35	11	1,33	0,8	1	●				
	11ER-18NPT	18	6,35	11	1,01	0,8	1	●				
	11ER-27NPT	27	6,35	11	0,66	0,7	0,8	●				
	16ER-11.5NPT	11,5	9,52	16	1,64	1,1	1,5	●				
	16ER-14NPT	14	9,52	16	1,33	0,9	1,2	●	●			
	16ER-18NPT	18	9,52	16	1,01	0,8	1	●	●	●		
	16ER-27NPT	27	9,52	16	0,66	0,7	0,8	●	●	●		
	16ER-8NPT	8	9,52	16	2,42	1,3	1,8	●				
	16ERM-11.5NPT	11,5	9,52	16	1,64	1,1	1,5	●				
	16ERM-14NPT	14	9,52	16	1,33	0,9	1,2	●				

THREADING

IR

INTERNAL NPT



DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11IR-14NPT	14	6,35	11	1,33	0,8	1	●	●	●		
	11IR-18NPT	18	6,35	11	1,01	0,8	1	●				
	11IR-27NPT	27	6,35	11	0,66	0,7	0,8	●				
	16IR-11.5NPT	11,5	9,52	16	1,64	1,1	1,5	●				
	16IR-14NPT	14	9,52	16	1,33	0,9	1,2	●				
	16IR-18NPT	18	9,52	16	1,01	0,8	1	●				
	16IR-27NPT	27	9,52	16	0,66	0,7	0,8	●				
	16IR-8NPT	8	9,52	16	2,42	1,3	1,8	●				
	16IRM-11.5NPT	11,5	9,52	16	1,64	1,1	1,5	●				
	16IRM-14NPT	14	9,52	16	1,33	0,9	1,2	●				

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DRILLING

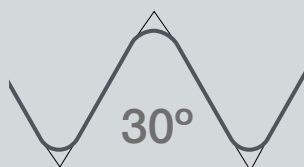
ENDMILLS

DRILLS

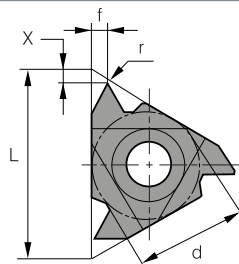
SPARE PARTS

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16ER



EXTERNAL ROUND



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



16ER-6RND

16ER-8RND

16ER-10RND

22ER-4RND

22ER-6RND

27ER-4RND

6

8

10

4

6

4

9,52

9,52

9,52

12,7

12,7

15,88

16

16

16

22

22

27

2,12

1,59

1,27

3,18

2,12

3,18

1,5

1,4

1,1

2,2

1,5

2,2

1,7

1,3

1,2

2,3

1,7

2,3

●

●

●

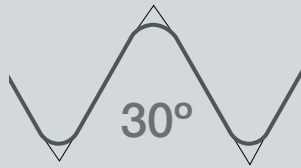
●

●

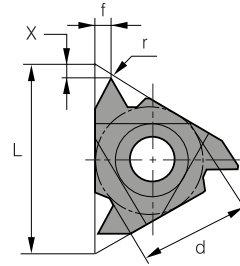
●

THREADING

IR



INTERNAL ROUND



TURNING

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THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	h_{min}	x	f	PS9425	PS9430	PS7430	US2415		
							•					
	16IR-6RND	6	9,52	16	2,12	1,5	1,7	●				
	16IR-8RND	8	9,52	16	1,59	1,4	1,3	●				
	16IR-10RND	10	9,52	16	1,27	1,1	1,2	●				
	22IR-4RND	4	12,7	22	3,18	2,2	2,3	●				
	22IR-6RND	6	12,7	22	2,12	1,5	1,7	●				
	27IR-4RND	4	15,88	27	3,18	2,2	2,3	●				

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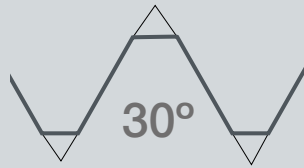
ENDMILLS

DRILLS

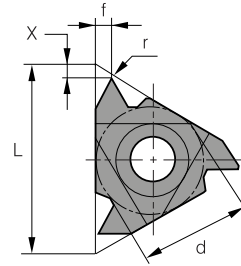
SPARE PARTS




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EXTERNAL TRAPEZ

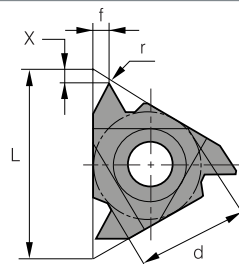


DESCRIPTION	DIMENSIONS								CARBIDE			
		d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415		
	11ER-1.5TR	1,5	6,35	11	0,9	0,8	0,9	●				
	16ER-1.5TR	1,5	9,52	16	0,9	1	1,1	●				
	16ER-2.0TR	2	9,52	16	1,25	1	1,3	●				
	16ER-3.0TR	3	9,52	16	1,75	1,3	1,5	●				
	22ER-4.0TR	4	12,7	22	2,25	1,8	1,9	●				
	22ER-5.0TR	5	12,7	22	2,75	2	2,4	●				
	22ER-6.0TR	6	12,7	22	3,5	2	2,4	●				
	27ER-7.0TR	7	15,88	27	4	2,2	2,6	●				
	16ERM-2.0TR	2	9,52	16	1,25	1	1,3	●				
	16ERM-3.0TR	3	9,52	16	1,75	1,3	1,5	●				

THREADING

IR

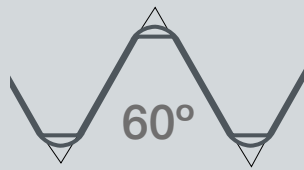
INTERNAL TRAPEZ



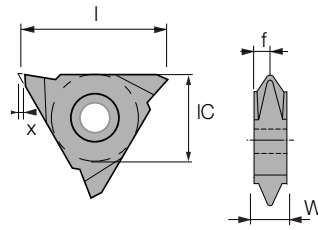
DESCRIPTION	DIMENSIONS							CARBIDE			
	$\frac{1}{4}P$	d	l	hmin	x	f	PS9425	PS9430	PS7430	US2415	
	11IR-1.5TR	1,5	6,35	11	0,9	0,8	0,9	●			
	16IR-1.5TR	1,5	9,52	16	0,9	1	1,1	●			
	16IR-2.0TR	2	9,52	16	1,25	1	1,3	●			
	16IR-3.0TR	3	9,52	16	1,75	1,3	1,5	●			
	22IR-4.0TR	4	12,7	22	2,25	1,8	1,9	●			
	22IR-5.0TR	5	12,7	22	2,75	2	2,4	●			
	22IR-6.0TR	6	12,7	22	3,5	2	2,4	●			
	27IR-7.0TR	7	15,88	27	4	2,2	2,6	●			
	16IRM-2.0TR	2	9,52	16	1,25	1	1,3	●			
	16IRM-3.0TR	3	9,52	16	1,75	1,3	1,5	●			

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EXTERNAL PARTIAL PROFILE



DESCRIPTION

DIMENSIONS

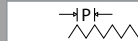
CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

W

x

f



VER11-A60

VER16-A60

VER16-G60

VER16-AG60

VER22-N60

0.5~1.5

48-16

6.35

11

3.2

0.69

2.3

●

0.5~1.5

48-16

9.525

16

3.5

1.1

2.7

●

1.75~3.0

14-8

9.525

16

3.5

1.1

1.9

●

0.5~3.0

48-8

9.525

16

3.5

1.1

1.9

●

3.5~5.0

7-5

12.7

22

4.8

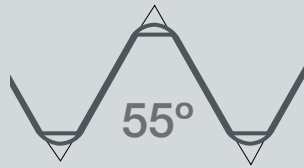
1.1

2.3

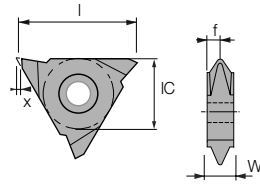
●

THREADING

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EXTERNAL PARTIAL PROFILE



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ENDMILLS

DRILLS

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DESCRIPTION	DIMENSIONS								CARBIDE			
	$\frac{1}{4}P$	$\frac{1}{2}P$	d	l	W	x	f	PS9425	PS9430	PS7430	US2415	
	VER11-A55	0.5~1.5	48-16	6.35	11	3.2	0.8	2.7	●			
	VER16-A55	0.5~1.5	48-16	9.525	16	3.5	1.1	2.7	●			
	VER16-G55	1.75~3.0	14-8	9.525	16	3.5	1.1	1.9	●			
	VER16-AG55	0.5~3.0	48-8	9.525	16	3.5	1.1	1.9	●			
	VER22-N55	3.5~5.0	7-5	12.7	22	4.8	1.1	2.3	●			

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DRILLING

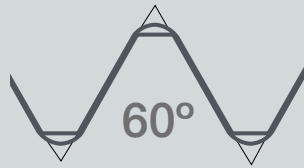
ENDMILLS

DRILLS

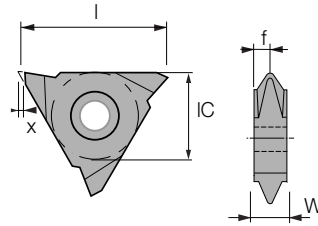
SPARE PARTS




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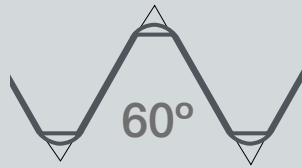
EXTERNAL METRIC



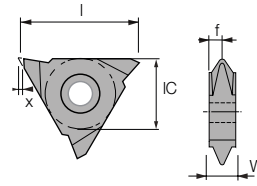
DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	W	x	f	PS9425	PS9430	PS7430	US2415	
	VER11-0.75ISO	0.75	6.35	11	3.2	0.7	2.6	●				
	VER11-1.00ISO	1.00	6.35	11	3.2	0.7	2.5	●				
	VER11-1.50ISO	1.50	6.35	11	3.2	0.7	2.2	●				
	VER11-1.75ISO	1.75	6.35	11	3.2	0.7	2.1	●				
	VER11-2.00ISO	2.00	6.35	11	3.2	0.7	1.9	●				
	VER16-0.35ISO	0.35	9.525	16	3.5	1.1	3.2	●				
	VER16-0.40ISO	0.40	9.525	16	3.5	1.1	3.2	●				
	VER16-0.50ISO	0.50	9.525	16	3.5	1.1	3.0	●				
	VER16-0.75ISO	0.75	9.525	16	3.5	1.1	3.0	●				
	VER16-0.80ISO	0.80	9.525	16	3.5	1.1	3.0	●				
	VER16-1.00ISO	1.00	9.525	16	3.5	1.1	2.9	●				
	VER16-1.25ISO	1.25	9.525	16	3.5	1.1	2.7	●				
	VER16-1.50ISO	1.50	9.525	16	3.5	1.1	2.6	●				
	VER16-1.75ISO	1.75	9.525	16	3.5	1.1	2.4	●				
	VER16-2.00ISO	2.00	9.525	16	3.5	1.1	2.3	●				
	VER16-2.50ISO	2.50	9.525	16	3.5	1.1	2.1	●				
	VER16-3.00ISO	3.00	9.525	16	3.5	1.1	2.0	●				

THREADING

VER



EXTERNAL UN



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

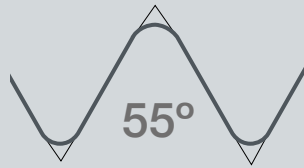
DRILLS

SPARE PARTS

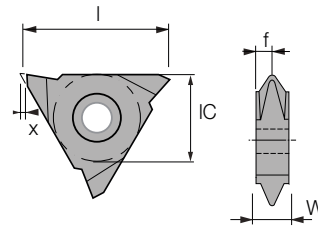
INDEX

DESCRIPTION		DIMENSIONS							CARBIDE			
		PT	d	l	W	x	f	PS9425	PS9430	PS7430	US2415	
	VER11-20UN		20	6.35	11	3.2	0.69	2.3	●			
	VER11-18UN		18	6.35	11	3.2	0.69	2.2	●			
	VER11-16UN		16	6.35	11	3.2	0.69	2.2	●			
	VER11-14UN		14	6.35	11	3.2	0.69	2.0	●			
	VER11-12UN		12	6.35	11	3.2	0.69	1.8	●			
	VER16-32UN		32	9.525	16	3.5	1.1	3.0	●			
	VER16-28UN		28	9.525	16	3.5	1.1	3.0	●			
	VER16-24UN		24	9.525	16	3.5	1.1	2.9	●			
	VER16-20UN		20	9.525	16	3.5	1.1	2.7	●			
	VER16-18UN		18	9.525	16	3.5	1.1	2.6	●			
	VER16-16UN		16	9.525	16	3.5	1.1	2.55	●			
	VER16-14UN		14	9.525	16	3.5	1.1	2.5	●			
	VER16-12UN		12	9.525	16	3.5	1.1	2.2	●			
	VER16-10UN		10	9.525	16	3.5	1.1	2.1	●			
VER16-08UN		8	9.525	16	3.5	1.1	2.0	●				

VER



EXTERNAL WHITWORTH



DESCRIPTION

DIMENSIONS

CARBIDE

PS9425

PS9430

PS7430

US2415



d

l

W

x

f



VER11-19W

19

6.35

11

3.2

0.7

2.3

●



VER16-19W

19

9.525

16

3.5

1.1

2.7

●

VER11-14W

14

6.35

11

3.2

0.7

2.0

●

VER11-11W

11

6.35

11

3.2

0.7

1.7

●

VER16-18W

18

9.525

16

3.5

1.1

2.6

●

VER16-16W

16

9.525

16

3.5

1.1

2.6

●

VER16-14W

14

9.525

16

3.5

1.1

2.4

●

VER16-12W

12

9.525

16

3.5

1.1

2.2

●

VER16-11W

11

9.525

16

3.5

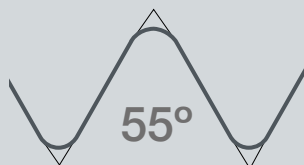
1.1

2.1

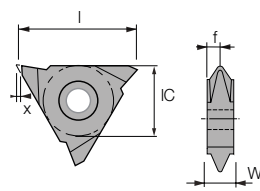
●

THREADING

VER



EXTERNAL BSPT



- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

DESCRIPTION	DIMENSIONS							CARBIDE			
	PT	d	l	w	x	f	PS9425	PS9430	PS7430	US2415	
	VER16-28BSPT	28	9.525	16	3.5	1.1	3.0	●			
	VER16-19BSPT	19	9.525	16	3.5	1.1	2.7	●			
	VER16-14BSPT	14	9.525	16	3.5	1.1	2.4	●			
	VER16-11BSPT	11	9.525	16	3.5	1.1	2.1	●			

TURNING

GROOVING

THREADING

MILLING

DRILLING

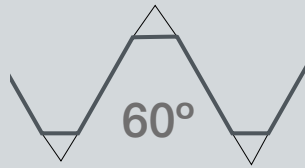
ENDMILLS

DRILLS

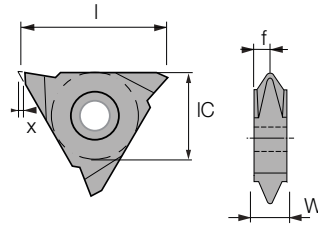
SPARE PARTS




INDEX

VER



EXTERNAL NPT



DESCRIPTION		DIMENSIONS							CARBIDE			
			d	l	W	x	f	PS9425	PS9430	PS7430	US2415	
	VER11-27NPT	27	6.35	11	3.2	0.7	2.0	●				
	VER11-18NPT	18	6.35	11	3.2	0.7	1.8	●				
	VER11-14NPT	14	6.35	11	3.2	0.7	1.8	●				
	VER16-27NPT	27	9.525	16	3.5	1.1	2.9	●				
	VER16-18NPT	18	9.525	16	3.5	1.1	2.6	●				
	VER16-11.5NPT	11.5	9.525	16	3.5	1.1	2.1	●				

THREADING

SR	14	I	-	11	W	PS	9	4	25
1	2	3		4	5	6	7	8	9

1	
SL	Screw on Left
SR	Screw on Right

3	Insert Type
E	External
I	Internal

5	Thread Standard
ISO	Metric
W	Whitworth for BSW, BSP
BSPT	British Standard Pipe Thread
UN	American UN
NPT	NPT
NPTF	NPTF
PG	Pg DIN40430

2	Insert Length
12	12mm
14	14mm
21	21mm
30	30mm
40	40mm

4	Pitch (Full Profile)
0.35~6.0	mm
3~72	TPI

10	Coating & Material
CS	CVD Coated Carbide
PS	PVD Coated Carbide
PB	New PVD Coating
KS	Ceramic
SS	Cermet
US	Uncoated

11	Workpiece Material
2	Non-Ferrous Material
4	Hardened Steel
5	Steel
7	Stainless Steel
8	Cast Iron
9	General Machining

12	Machining
1	Turning
2	Turning New
4	Threading
9	Milling

13	ISO Grade
05	
10	
15	
20	
25	
30	
35	
40	
45	

TURNING

GROOVING

THREADING

MILLING

DRILLING

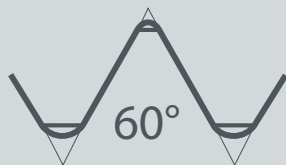
ENDMILLS

DRILLS

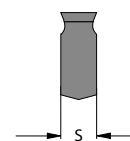
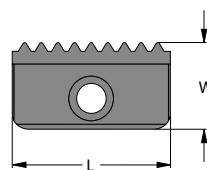
SPARE PARTS

INDEX

SR□□



INTERNAL METRIC



DESCRIPTION

DIMENSIONS

CARBIDE



I

W

S

PS9425



SR14I-0.50-ISO

0.50

14

7,9

3,2

●

SR14I-0.75-ISO

0.75

14

7,9

3,2

●

SR14I-1.00-ISO

1.00

14

7,9

3,2

●

SR14I-1.25-ISO

1.25

14

7,9

3,2

●

SR14I-1.50-ISO

1.50

14

7,9

3,2

●

SR14I-1.75-ISO

1.75

14

7,9

3,2

●

SR14I-2.00-ISO

2.00

14

7,9

3,2

●

SR14I-2.50-ISO

2.50

14

7,9

3,2

●

SR21I-1.00-ISO

1.00

21

12,6

4,8

●

SR21I-1.25-ISO

1.25

21

12,6

4,8

●

SR21I-1.50-ISO

1.50

21

12,6

4,8

●

SR21I-1.75-ISO

1.75

21

12,6

4,8

●

SR21I-2.00-ISO

2.00

21

12,6

4,8

●

SR21I-2.50-ISO

2.50

21

12,6

4,8

●

SR21I-3.00-ISO

3.00

21

12,6

4,8

●

SR21I-3.50-ISO

3.50

21

12,6

4,8

●

THREADING

SR00

INTERNAL METRIC

HOLDERS 295

DESCRIPTION	DIMENSIONS					CARBIDE					
		I	W	S	PS9425						
SR30I-1.50-ISO	1.50	30	16,7	5,6	●						
SR30I-2.00-ISO	2.00	30	16,7	5,6	●						
SR30I-3.00-ISO	3.00	30	16,7	5,6	●						
SR30I-3.50-ISO	3.50	30	16,7	5,6	●						
SR30I-4.00-ISO	4.00	30	16,7	5,6	●						
SR30I-4.50-ISO	4.50	30	16,7	5,6	●						
SR30I-5.00-ISO	5.00	30	16,7	5,6	●						
SR40I-1.50-ISO	1.50	40	20,8	6,4	●						
SR40I-2.00-ISO	2.00	40	20,8	6,4	●						
SR40I-3.00-ISO	3.00	40	20,8	6,4	●						
SR40I-3.50-ISO	3.50	40	20,8	6,4	●						
SR40I-4.00-ISO	4.00	40	20,8	6,4	●						
SR40I-4.50-ISO	4.50	40	20,8	6,4	●						
SR40I-5.00-ISO	5.00	40	20,8	6,4	●						
SR40I-5.50-ISO	5.50	40	20,8	6,4	●						
SR40I-6.00-ISO	6.00	40	20,8	6,4	●						

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

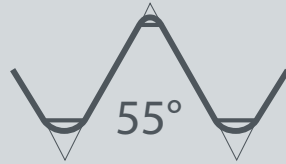
ENDMILLS

DRILLS

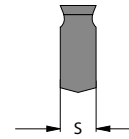
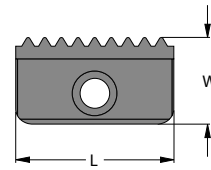
SPARE PARTS

INDEX

SR□□



INTERNAL WHITWORTH



DESCRIPTION	DIMENSIONS						CARBIDE				
		I	W	S	PS9425						
	SR14I-24W	24	14	7.9	3.2	●					
	SR14I-20W	20	14	7.9	3.2	●					
	SR14I-19W	19	14	7.9	3.2	●					
	SR14I-16W	16	14	7.9	3.2	●					
	SR14I-14W	14	14	7.9	3.2	●					
	SR21I-11W	11	14	7.9	3.2	●					
	SR21I-20W	20	21	12.6	4.8	●					
	SR21I-19W	19	21	12.6	4.8	●					
	SR21I-16W	16	21	12.6	4.8	●					
	SR21I-14W	14	21	12.6	4.8	●					
	SR21I-11W	11	21	12.6	4.8	●					
	SR30I-16W	16	30	16.7	5.6	●					
	SR30I-14W	14	30	16.7	5.6	●					
	SR30I-11W	11	30	16.7	5.6	●					
	SR40I-11W	11	40	20.8	6.4	●					
	SR40I-8W	8	40	20.8	6.4	●					

E	ST	B	06	04	C	5	-	11	W
1	2	3	4	5	6	7		8	9

1	
E	External
Non	Internal

2	Type
ST	Solide Thread Mill

3	Endmill Type
Non	Without Coolant
B	With Coolant

4	Shank Diameter
06	6mm
08	8mm
10	10mm
12	12mm
14	14mm
16	16mm
20	20mm
25	25mm

5	Cutting Diameter
06	6mm
08	8mm
10	10mm
12	12mm
14	14mm
16	16mm
20	20mm
25	25mm

6	Number of Flutes
C	3
D	4
E	5
F	6

7	Cutting Length
	mm

8	Pitch (Full Profile)
0.35~6.0	mm
3~72	TPI

9	Thread Standard
ISO	Metric
W	Whitworth for BSW, BSP
BSPT	British Standard Pipe Thread
UN	American UN
NPT	NPT
NPTF	NPTF
PG	Pg DIN40430

TURNING

GROOVING

THREADING

MILLING

DRILLING

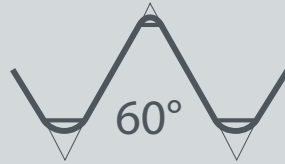
ENDMILLS

DRILLS

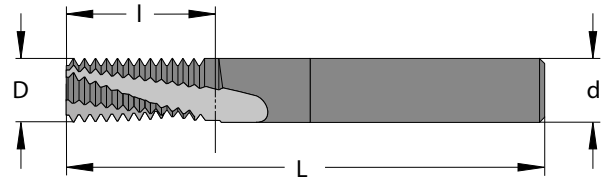
SPARE PARTS

INDEX

ST



INTERNAL METRIC



DESCRIPTION

DIMENSIONS

Z

Carbide

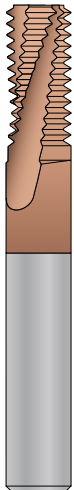


D

d

l

L



ST06022C5-0.50ISO

0,50

6

2,2

5,3

58

3

●

ST06031C7-0.70ISO

0,70

6

3,1

7,4

58

3

●

ST06036C9-0.80ISO

0,80

6

3,6

9,2

58

3

●

ST0604C10-1.00ISO

1,00

6

4,0

10,5

58

3

●

ST0604C14-1.00ISO

1,00

6

4,0

14,5

58

3

●

ST0605C14-1.25ISO

1,25

6

5,0

14,4

58

3

●

ST0605C19-1.25ISO

1,25

6

5,0

17,3

58

3

●

ST0807C17-1.50ISO

1,50

8

7,0

17,3

64

3

●

ST0807C24-1.50ISO

1,50

8

7,0

24,8

76

3

●

ST0808C20-1.75ISO

1,75

8

8,0

20,1

64

3

●

ST0808C28-1.75ISO

1,75

8

8,0

28,9

76

3

●

ST1010C27-2.00ISO

2,00

10

10

27,0

73

3

●

ST1010C39-2.00ISO

2,00

10

10

39,0

105

3

●

ST1414D33-2.50ISO

2,50

14

14

33,8

84

4

●

ST1414D48-2.50ISO

2,50

14

14

48,8

105

4

●

ST1616C40-3.00ISO

3,00

16

16

40,5

105

3

●

ST1616C58-3.00ISO

3,00

16

16

58,5

120

3

●

ST2020D43-3.00ISO

3,00

20

20

43,5

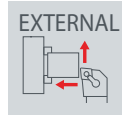
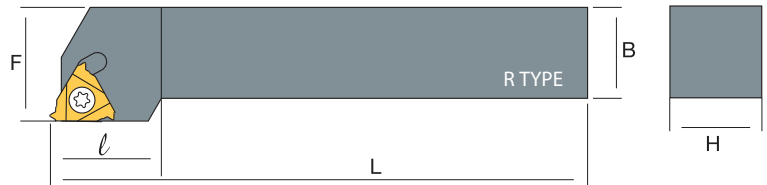
105

4

●

SSER /SSEL

□□ER



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

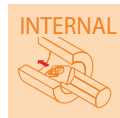
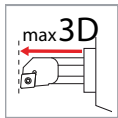
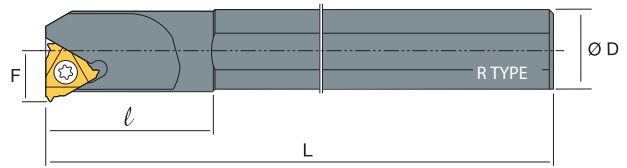
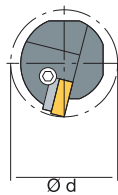
INDEX

	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
11ER-□□	SSER/L	0808	E11	●	●	08	08	70	11	-	-	-	ST-SC0257	ST-WRT07
		1010	E11	●	●	10	10	70	11	-	-	-	ST-SC0257	ST-WRT07
		1212	F11	●	●	12	12	80	12	-	-	-	ST-SC0257	ST-WRT07
		1616	H11	●	●	16	16	100	16	-	-	-	ST-SC0257	ST-WRT07
16ER-□□	SSER/L	1616	H16	●	●	16	16	100	16	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
		2020	K16	●	●	20	20	125	20	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
		2525	M16	●	●	25	25	150	25	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
		3232	P16	●	●	32	32	170	32	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
22ER-□□	SSER/L	2525	M22	●	●	25	25	150	25	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0416	ST-WRT15
		3232	P22	●	●	32	32	170	32	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0416	ST-WRT15
		4040	S22	●	●	40	40	250	40	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0416	ST-WRT15

SSIR / SSIL

screw on

IR



Icon	DESCRIPTION			STOCK		DIMENSIONS				R			L	
				R	L	D	d	L	F	Icon 1	Icon 2	Icon 3	Icon 4	Icon 5
08IR-□□	S16M07	SSIR/L	08	●	●	16	7,8	150	5,3	-	-	-	ST-SC0226	ST-WRT07
11IR-□□	S10K	SSIR/L	11	●	●	10	12	125	7,4	-	-	-	ST-SC0257	ST-WRT08
	S12K		11	●	●	12	16	125	8,4	-	-	-	ST-SC0257	ST-WRT08
	S16M10		11	●	●	16	12	150	7,4	-	-	-	ST-SC0257	ST-WRT08
	S16Q		11	●	●	16	20	180	8,9	-	-	-	ST-SC0257	ST-WRT08
16ER-□□	S16Q	SSIR/L	16	●	●	16	16	180	10,2	-	-	-	ST-SC3511	ST-WRT15
	S20R		16	●	●	20	24	200	13,7	-	-	-	ST-SC3511	ST-WRT15
	S25S		16	●	●	25	29	250	16,2	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
	S32T		16	●	●	32	36	300	19,7	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
	S40V		16	●	●	40	44	350	23,7	ST-SHE16	ST-SC5011	ST-WR0030	ST-SC3514	ST-WRT15
22ER-□□	S20R	SSIR/L	22	●	●	20	24	200	14	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0411	ST-WRT15
	S25S		22	●	●	25	29	250	18,1	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0411	ST-WRT15
	S32T		22	●	●	32	38	300	21,6	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0411	ST-WRT15
	S40V		22	●	●	40	46	350	25,6	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0411	ST-WRT15
	S50W		22	●	●	50	63	400	35,6	ST-SHE22	ST-SC6011	ST-WR0040	ST-SC0411	ST-WRT15

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

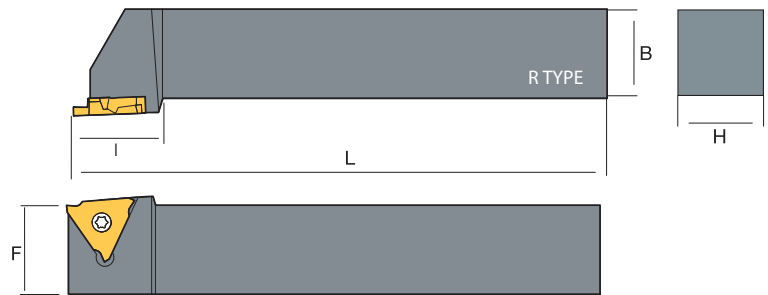
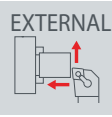
DRILLS

SPARE PARTS

INDEX

SSER-VS

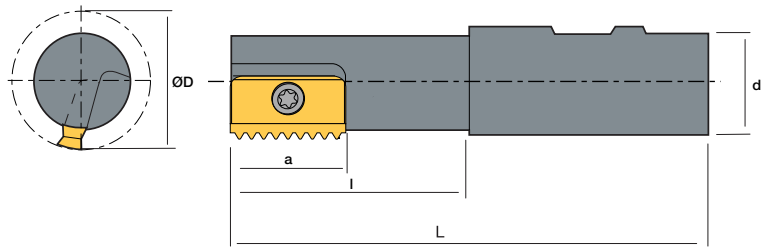
VER



VER	DESCRIPTION			STOCK		DIMENSIONS								
				R	L	H	B	L	F					
VER11-	SSER/L	0808	F11VS	●		08	08	80	08	ST-SC0257	ST-WRT07			
		1010	F11VS	●		10	10	80	10	ST-SC0257	ST-WRT07			
		1212	F11VS	●		12	12	80	12	ST-SC0257	ST-WRT07			
		1616	H11VS	●		16	16	100	16	ST-SC0257	ST-WRT07			
VER16-	SSER/L	1010	F16VS	●		10	10	80	10	ST-SC3514	ST-WRT15			
		1212	F16VS	●		12	12	80	12	ST-SC3514	ST-WRT15			
		1616	H16VS	●		16	16	100	16	ST-SC3514	ST-WRT15			
		2020	K16VS	●		20	20	125	20	ST-SC3514	ST-WRT15			
		2525	M16VS	●		25	25	150	25	ST-SC3514	ST-WRT15			
		3232	P16VS	●		32	32	170	32	ST-SC3514	ST-WRT15			
		4040	R16VS	●		40	40	250	40	ST-SC3514	ST-WRT15			
VER22-	SSER/L	2525	M22VS	●		25	25	150	25	ST-SC0416	ST-WRT15			
		3232	P22VS	●		32	32	170	32	ST-SC0416	ST-WRT15			
		4040	R22VS	●		40	40	250	40	ST-SC0416	ST-WRT15			

MSSR

SR□□



SR□□	DESCRIPTION		STOCK	DIMENSIONS										
				D	Z	d	L	l	a					
SR14-□□	MSSR	14-100-14-20-1T	●	14	1	20	100	25	14	ST-SC0256	ST-WRT08			
SR21-□□	MSSR	18-100-21-20-1T	●	18	1	20	100	30	21	ST-SC0409	ST-WRT15			
		25-125-21-20-1T	●	25	1	20	125	30	21	ST-SC0411	ST-WRT15			
		28-090-21-25-1T	●	28	1	25	90	30	21	ST-SC0411	ST-WRT15			
		38-120-21-32-3T	●	38	3	32	120	30	21	ST-SC0411	ST-WRT15			
		43-090-21-32-3T	●	43	3	32	90	30	21	ST-SC0411	ST-WRT15			
SR30-□□	MSSR	29-150-30-25-1T	●	29	1	25	150	50	30	ST-SC0514	ST-WRT20			

TURNING

GROOVING

THREADING

MILLING

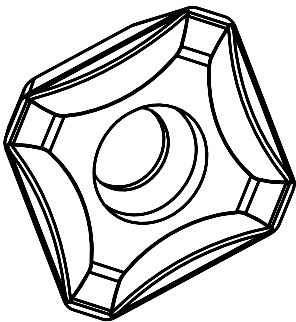
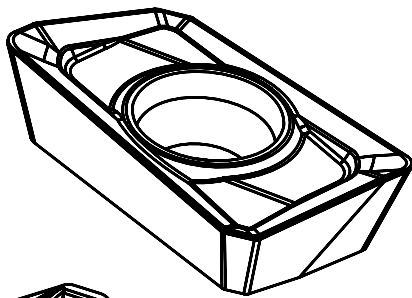
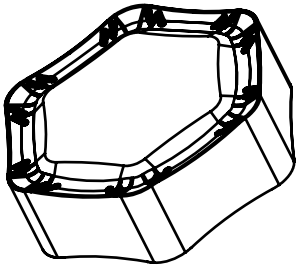
DRILLING

ENDMILLS

DRILLS

SPARE PARTS

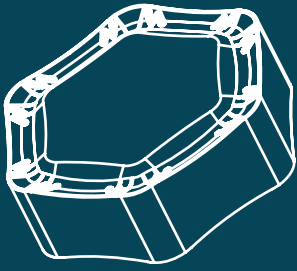
INDEX



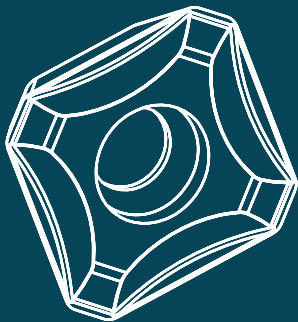
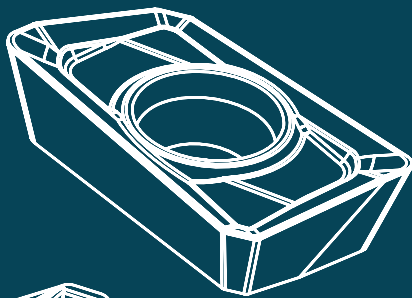
MILLING/

carbide /299

holders /321










MILLING / carbide



Grades

	ISO DIN 513																			
	K					P					M					N				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	N01	N10	N20	N30	N40
TURNING																				
GROOVING																				
THREADING																				
MILLING																				
DRILLING																				
ENDMILLS																				
DRILLS																				
SPARE PARTS																				
INDEX																				
CARBIDE CVD																				
CARBIDE PVD	CS8915					PS5915					PS7925									
	CS8925					PS5925														
						PS5960														
CARBIDE UNCOATED																				
CERMET UNCOATED																				

CVD Turning Grades

MATERIAL	GRADE	ISO	Color	Operation
P	PS5915	P05-P25	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Milling grade for medium and roughing of steel New coating layer with superior wear resistance with high toughness substrate
	PS5925	P15-P35 M10-M20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				Universal grade for interrupted machining of steel, cast-iron, hard to cut materials and stainless steel with stable machinability
	PS5960	P20-P30	YELLOW	MT-TiCN+Al ₂ O ₃ +TiN
				General machining of steel
M	PS7925	M20-M30	YELLOW	MT-TiCN+TiC+α-Al ₂ O ₃
				Medium to roughing of hard to cut materials and stainless steel 2-4 micron Nano AlCrN AlCrSiN coating
K	CS8915	K01-K10	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
				As adapting highly hard substrate with superior PVD coated which has excellent resistance for thermal & oxidation, Excellent performance in casting iron continuous machining
	CS8925	K10-K20	BLACK	MT-TiCN+TiC+Al ₂ O ₃ +TiN
N	US2915	K05-K25		General cutting for gray cast iron and ductile cast iron
			Silver	Ultra fine substrate
				Increased wear & chipping resistance as using a ultra fine substrate, Excellent tool life with special surface treatment & and sharp cutting edge of ALU chip breaker

TURNING

GROOVING

THREADING

MILLING

DRILLING

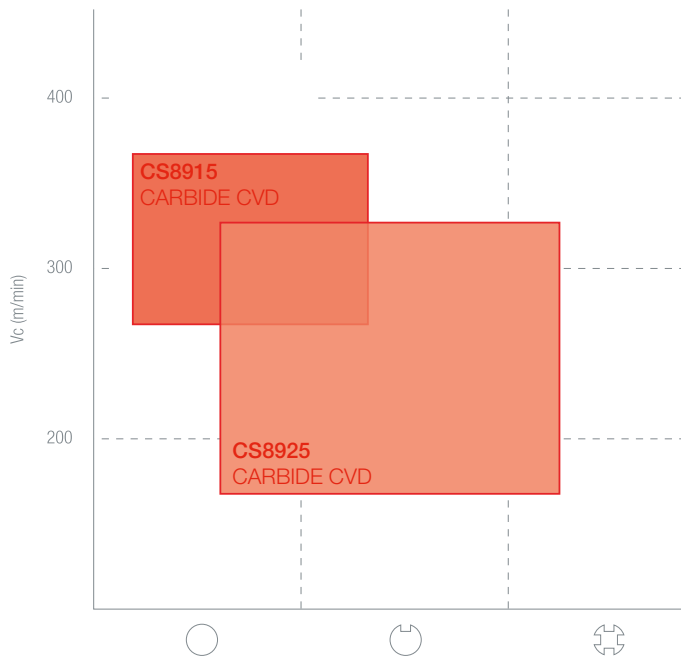
ENDMILLS

DRILLS

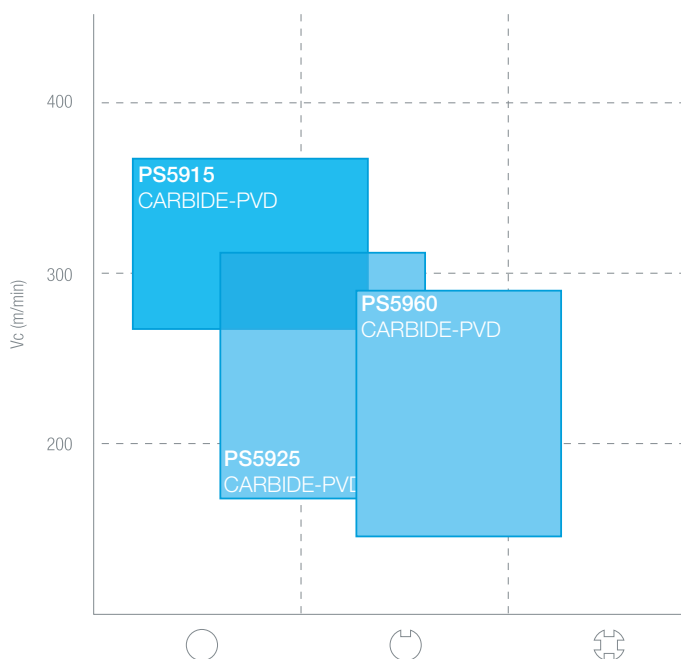
SPARE PARTS

INDEX

Range ISO **K**

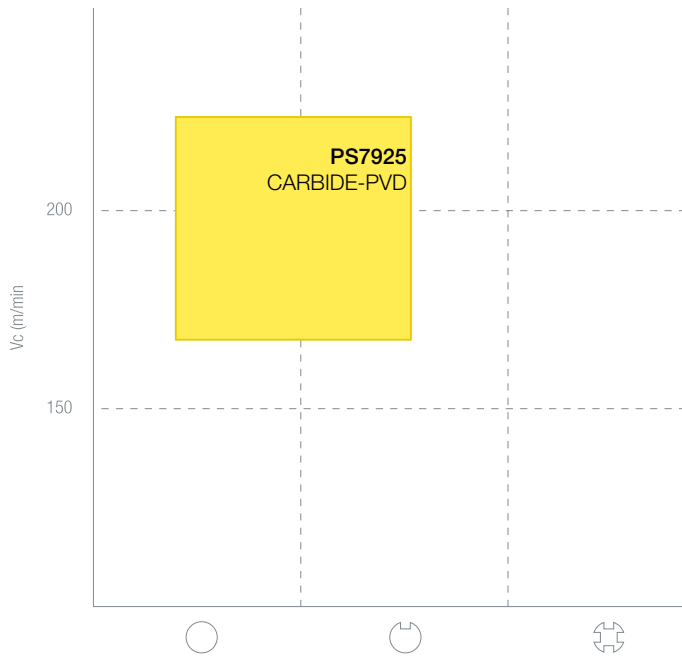


Range ISO **P**

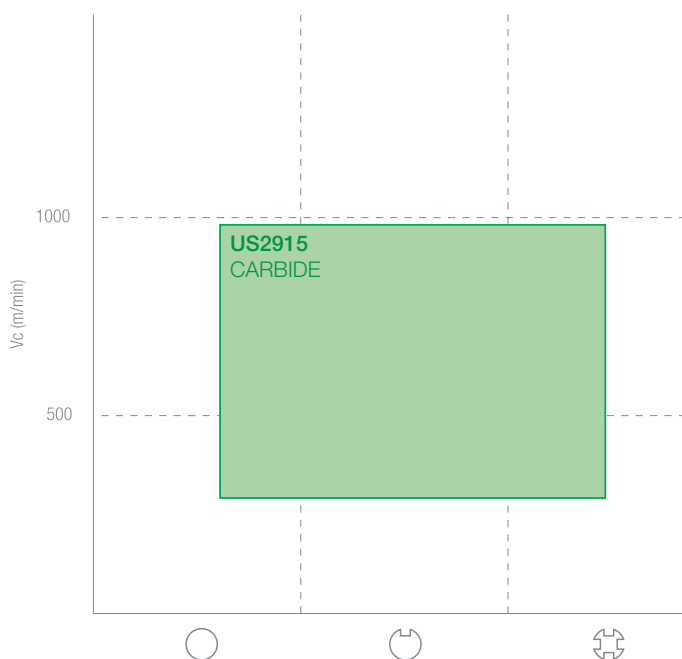


MILLING

Range ISO **M**



Range ISO **N**



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

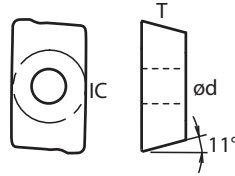
DRILLS

SPARE PARTS

INDEX

**POSITIVE 11°
with hole**

AP □□



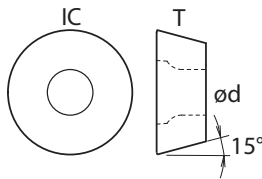
AP □□	1035 □□	1135 □□	1604 □□
IC	6,35	6,35	9,525
T	3,50	3,50	4,76
ød	2,80	2,80	4,50
Holder	322	322	322

DESCRIPTION			Carbide					CARBIDE					
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915				
	APMT	1003PDER-ALU							•				
		1604PDER-ALU							•				
	APKT	1135PDER-ALU							•				
		1604PDER-ALU							•				
		160420-ALU							•				
		160424-ALU							•				
	APKT	1204PER-ST		•									
		1705PER-ST		•									
	APMT	1135PDSR-QM		•	•								
	APMT	1135PDSR-QX		•									
	APMT	1035PDER-RM	•	•		•		•					
		1604PDER-RM	•	•				•					

MILLING

POSITIVE 15°
with hole

RD□□



RD □□	0501□□	0802□□	1003□□	12T3□□	1604□□
IC	5,00	8,00	10,0	12,0	16,0
T	1,51	2,38	3,18	3,97	4,76
ød	2,20	2,80	3,80	4,40	5,00
Holder	333	333	333	333	333

DESCRIPTION			Carbide					CARBIDE				
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915			
	RDHX	1003M0		•				•				
		12T3M0		•				•				
	RDMW	0501M0			•							
	RDMX	0802M0		•				•				
		1003M0		•				•				
		12T3M0		•				•				
		1604M0		•				•				

Vc • fn • ap ▶ 315

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

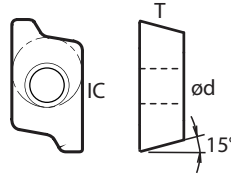
DRILLS

SPARE PARTS

INDEX

**POSITIVE 15°
with hole**

RT



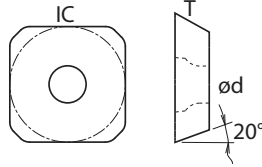
RT	0702□□	1003□□
IC	4,30	6,35
T	2,38	3,40
ød	2,20	2,90
Holder	337	337

DESCRIPTION			Carbide					CARBIDE				
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915			
	RT	070204-R-81	•		•							
		100308-R-81	•		•							

MILLING

POSITIVE 20°
with hole

SE □□



SE □□ 12T3 □□




IC 12,7

T 3,97

Ød 4,40



339

DESCRIPTION			Carbide					CARBIDE			
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915		
	SEET	12T3-FM	•	•				•			
	SEET	12T3-SM		•							
	SEHT	12T3-CM						•			

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

Vc • fn • ap

315

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

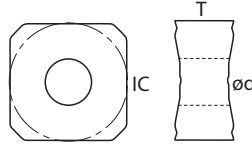
DRILLS

SPARE PARTS

INDEX

NEGATIVE
with hole

SNMX




SN □ □ 1205 □ □

IC 12,7

T 5,75

Ød 6,00

Holder 340

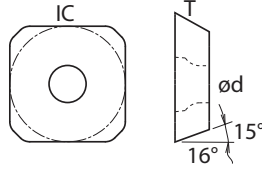
DESCRIPTION			Carbide					CARBIDE				
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915			
	SNMX	1205ANN		•	•	•	•	•				

Vc • fn • ap 315



MILLING

POSITIVE 16°/ 15°
with hole


SO / SP □□



SO/SP □□	0803 □□	1204 □□
IC	12,7	12,7
T	3,97	4,18
ød	5,16	5,16
Holder	341	341

DESCRIPTION			Carbide					CARBIDE					
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915				
	SOMW	080315-FH		•									
	SPMW	120420-FH		•									

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Vc • fn • ap  315

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

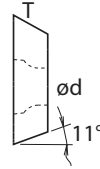
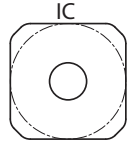
DRILLS

SPARE PARTS

INDEX

POSITIVE 11°
without hole

SPKN



SP □□ 1203 □□ 1504 □□

IC 12,7 15,875

T 3,18 4,76

ød - -



DESCRIPTION

Carbide

CARBIDE

PS5915

PS5925

PS5960

CS8915

CS8925

PS7925

US2915



SPKN	1203EDR-SU		•									
	1203EDSR-SU		•			•		•				
	1504EDSR-SU		•					•				

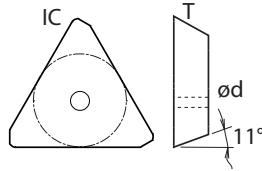


SPKN	1203EDFR					•		•				
	1203EDTR		•									
	1504EDTL								•			
	1504EDTR								•			


MILLING

POSITIVE 11°
with hole


TPKN



TP □□	1603 □□	2204 □□
IC	9,525	12,7
T	3,18	4,76
ød	-	-
Holder	343	343

DESCRIPTION			Carbide					CARBIDE				
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915			
	TPKN	1603PDTR-SU		●					●			
		2204PDTR-SU		●					●			

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Vc • fn • ap  315

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

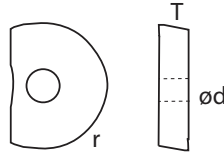
DRILLS

SPARE PARTS

INDEX

**BALL NOSE
with hole**

TW



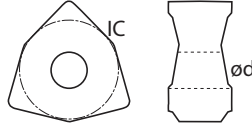
TW	08□□	10□□	12□□	16□□	20□□	25□□
r	12,7	12,7	12,7	12,7	12,7	12,7
T	4,76	4,76	4,76	4,76	4,76	4,76
ød	5,16	5,16	5,16	5,16	5,16	5,16
Holder	344	344	344	344	344	344

DESCRIPTION			Carbide					CARBIDE					
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915				
	TW	08020	•										
		10025	•										
		12025	•										
		16030	•										
		20030	•										
		25040	•										

MILLING

NEGATIVE
with hole

WNMU




WN □ □ 0806 □ □

IC 12,7

T 6,40

ød 4,40



DESCRIPTION			Carbide					CARBIDE			
			PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915		
	WNMU	080608EN-GM		•		•		•			

- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
- INDEX

Vc • fn • ap ▶ 315

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

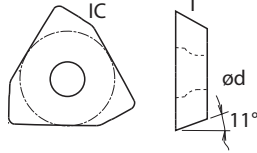
DRILLS

SPARE PARTS

INDEX

POSITIVE 11°
with hole

3PGX



3P □ □ 1004 □ □ 1505 □ □

IC	6,90	10,70
T	4,00	5,00
Ød	2,20	2,80



DESCRIPTION

Carbide

CARBIDE

PS5915

PS5925

PS5960

CS8915

CS8925

PS7925

US2915



3PGX 100404R-M

150508R-M

•

•

•

•

Vc • fn • ap

315

MILLING

Cutting Parameters Vc(m/min)

KG	GREY CAST IRON
KN	NODULAR CAST IRON
PL	LOW CARBON AND FREE CUTTING STEEL
PM	MEDIUM CARBON STEEL
PH	HIGH CARBON STEEL
PA	ALLOY STEEL

MM	MARTENSITIC AND FERRITIC STAINLESS STEEL
MA	AUSTENITIC STAINLESS STEEL
NA	ALUMINIUM ALLOYS
NH	ALUMINIUM ALLOYS AGED AND HARDENED
NB	BRASS
NC	BRONZE AND ELECTROLYTIC COPPER

MATERIAL		CARBIDE						CARBIDE				
		PS5915	PS5925	PS5960	CS8915	CS8925	PS7925	US2915				
K	KG				220-350	120-250						
	KN				180-280	100-200						
P	PL	200-280	220-300	240-320								
	PM	200-280	220-300	240-320								
	PH	180-260	200-280	220-300								
	PA	160-230	180-250	200-270								
M	MM						160-280					
	MA						140-260					
N	NA							400-1000				
	NH							300-800				
	NB							300-600				
	NC							200-500				

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX


Cutting Parameters a_p (mm) & f_n (mm/rev)

AP		1035	1135	1204	1604	1705
----	---	------	------	------	------	------

Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	RM	0,8-8,0	0,1-0,25								
P	ST/RM	0,8-8,0	0,08-0,2	1,0-9,0	0,1-0,2	1,0-11,0	0,1-0,25	1,0-14,0	0,1-0,25	1,0-15,0	0,1-0,25
P	QM/QX			0,7-3,0	0,5-1,2						
M	RM	0,8-8,0	0,05-0,15					1,0-14,0	0,1-0,2		
N	ALU	0,8-8,0	0,15-0,3	1,0-9,0	0,15-0,3			1,0-14,0	0,15-0,3		

RD		0501	0802	1003	12T3	1604
----	---	------	------	------	------	------

Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K	-					0,5-4,0	0,08-0,4	0,5-5,0	0,08-0,6	0,6-7,0	0,1-0,6
P	-	0,25-2,5	0,1-0,25	0,4-3,5	0,07-0,35	0,5-4,0	0,08-0,3	0,5-5,0	0,08-0,4	0,6-7,0	0,1-0,5
M	-					0,5-4,0	0,08-0,25	0,5-5,0	0,08-0,25	0,6-7,0	0,1-0,4
N	-										

RT		0702	1003	-	-	-
----	---	------	------	---	---	---

Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K											
P	R-81	0,5-5,0	0,05-0,3	0,5-7,0	0,08-0,3						
M	R-81	0,5-5,0	0,05-0,25	0,5-7,0	0,05-0,25						
N											

SE		12T3	-	-	-	-
----	---	------	---	---	---	---


Material	Chip Breaker	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)	a_p (mm)	f_n (mm/rev)
K											
P	FM/SM	1,0-10,0	0,1-0,3								
M	FM/SM	1,0-10,0	0,1-0,25								
N	CM	1,0-10,0	0,1-0,35								

MILLING


Cutting Parameters ap (mm) & fn (mm/rev)

SNMX		1205	-	-	-	-
-------------	---	-------------	---	---	---	---

Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	-	1,0~7,0	0,1~0,4								
P	-	1,0~7,0	0,1~0,35								
M	-	1,0~7,0	0,1~0,35								
N											

SOMW		0803	-	-	-	-
-------------	---	-------------	---	---	---	---

Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	FH	0,5~1,0	0,5~2,0								
P	FH	0,5~1,0	0,5~2,0								
M	FH	0,5~1,0	0,4~1,0								
N											

SPMW		1204	-	-	-	-
-------------	---	-------------	---	---	---	---

Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	FH	0,8~1,5	0,5~1,8								
P	FH	0,8~1,5	0,8~2,0								
M	FH	0,8~1,5	0,4~1,0								
N											

SPKN		1203	1504	-	-	-
-------------	---	-------------	-------------	---	---	---

Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	SU	0,8~8,0	0,05~0,3	1,0~10,0	0,05~0,3						
P	SU	0,8~8,0	0,05~0,2	1,0~10,0	0,05~0,2						
M	SU	0,8~8,0	0,05~0,2	1,0~10,0	0,05~0,2						
N											

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

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TURNING

Cutting Parameters ap (mm) & fn (mm/rev)

TPKN		1603	2204	-	-	-
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Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	SU	1,0-12,0	0,05-0,3	1,0-15,0	0,1-8,0						
P	SU	1,0-12,0	0,05-0,25	1,0-15,0	0,8-8,0						
M	SU	1,0-12,0	0,05-0,2	1,0-15,0	0,8-8,0						
N											

GROOVING


THREADING

TW	08020	10025	12025	16030	20030	25040
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Material	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	0,2-0,4	0,1-0,3	0,2-0,7	0,1-0,3	0,5-0,84	0,1-0,3	0,5-1,12	0,1-0,3	0,8-1,4	0,1-0,3	0,8-1,75	0,1-0,3
P	0,25-0,5	0,1-0,25	0,3-0,7	0,1-0,25	0,36-0,84	0,1-0,25	0,48-1,12	0,1-0,25	0,6-1,4	0,1-0,25	0,75-1,75	0,1-0,25
M	0,2-0,4	0,1-0,2	0,2-0,5	0,1-0,2	0,3-0,6	0,1-0,2	0,4-0,8	0,1-0,2	0,5-1,0	0,1-0,2	0,7-1,25	0,1-0,2
N												

MILLING

DRILLING

WNMU		080608	-	-	-	-
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Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	GM	1,0-8,0	0,1-0,30								
P	GM	1,0-8,0	0,1-0,25								
M	GM	1,0-8,0	0,1-0,20								
N											

ENDMILLS

DRILLS

3PGX		1004	1505	-	-	-
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Material	Chip Breaker	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)	ap (mm)	fn (mm/rev)
K	M	1,0-7,0	0,09-0,2	1,0-11,0	0,1-0,2						
P	M	1,0-7,0	0,07-0,15	1,0-11,0	0,12-0,25						
M	M	1,0-7,0	0,07-0,15	1,0-11,0	0,1-0,17						
N											

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MILLING

MILLING PVD Comparison Table

MATERIAL	SANGEO	ISCAR	SECO	TEAGUTEC	KYOCERA	SANDVIK	KENAMETAL	MITSUBISHI	WALTER	KORLOY
P										PC2005
						P20A				PC2010
	PS5915					GC1010		AP20M		PC2015
								MP6120	WKP25	
	PS5915							VP15TF		
	PS5925	IC903	MP3000	TT7070			KC522M			PC3500
		IC908		TT7080	PR730	GC1025	KCU20M	UP20M	WKP35	
	PS5960	IC950	F25M	TT7030		GC1030				
PS5915		F30M		PR830		KC935M			PC5300	
PS5925	IC928	F40M	TT8020	PR660	GC1030	KC7140	VP30RT	WKP35	PC5400	
M		IC903			PR730		KC5510			
							KC7020			
	PS7925	IC908				GC1125	KC522M	MP7130		
						GC1025	KC725M			
		IC900	F25M							
	PS7925	IC250	F30M	TT9030	PR1025	GC2030	KC735M		WQM35	PC5300
	PS5925	IC928	F40M	TT9080	PR660	GC1030	KC722	KC7140	WSM35S	PC5400
	IC328		TT8020					WSP45	PC3545	
S						GC1025		VP15TF		
		IC328	F40M	TT9030	PR620	GC1040	KC510M	VP30RT		
	PS5915	IC408	MS2050	TT9080	PR660	S40T	KCU30M	MP9130	WSM35S	PC5300
	PS7925			TT8020	PR1535				WSM45S	PC5400

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THREADING

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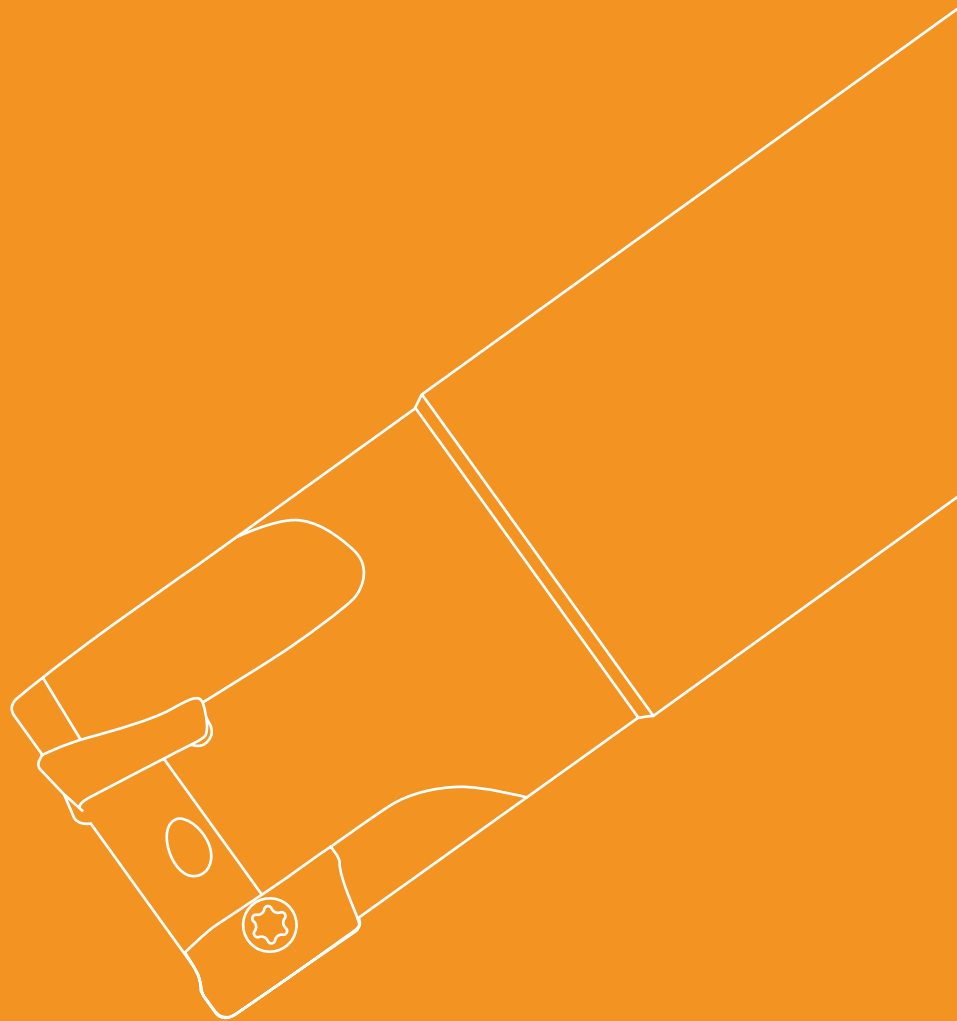
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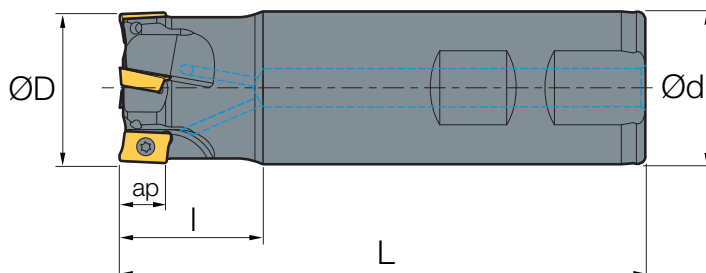
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MSAP

AP□□10



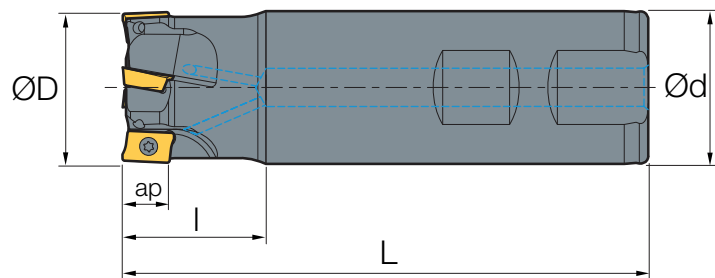
AP□□	DESCRIPTION	STOCK	DIMENSIONS										
			D	L	l	d	Z	ap					
AP□□10	MSAP 12-120-10-12-1T	●	12	120	30	12	1T	10	ST-SC0256	ST-WRT08			
	12-120-10-16-1T	●	12	120	30	16	1T	10	ST-SC0256	ST-WRT08			
	14-120-10-16-1T	●	14	120	30	16	1T	10	ST-SC0256	ST-WRT08			
	16-120-10-16-2T	●	16	120	30	16	2T	10	ST-SC0256	ST-WRT08			
	16-120-10-16-2T-C	●	16	120	30	16	2T	10	ST-SC0256	ST-WRT08			
	16-150-10-16-2T	●	16	150	40	16	2T	10	ST-SC0256	ST-WRT08			
	16-150-10-16-2T-C	●	16	150	40	16	2T	10	ST-SC0256	ST-WRT08			
	16-200-10-16-2T	●	16	200	50	16	2T	10	ST-SC0256	ST-WRT08			
	18-120-10-16-2T	●	18	120	30	16	2T	10	ST-SC0256	ST-WRT08			
	18-150-10-16-2T	●	18	150	40	16	2T	10	ST-SC0256	ST-WRT08			
	18-200-10-16-2T	●	18	200	50	16	2T	10	ST-SC0256	ST-WRT08			
	20-120-10-20-3T	●	20	120	30	20	3T	10	ST-SC0256	ST-WRT08			
	20-120-10-20-3T-C	●	20	120	30	20	3T	10	ST-SC0256	ST-WRT08			
	20-150-10-20-3T	●	20	150	40	20	3T	10	ST-SC0256	ST-WRT08			
	20-200-10-20-3T	●	20	200	50	20	3T	10	ST-SC0256	ST-WRT08			
	22-120-10-20-3T	●	22	120	30	20	3T	10	ST-SC0256	ST-WRT08			
	22-150-10-20-3T	●	22	150	40	20	3T	10	ST-SC0256	ST-WRT08			
	22-200-10-20-3T	●	22	200	50	20	3T	10	ST-SC0256	ST-WRT08			
	23-120-10-20-3T	●	23	120	30	20	3T	10	ST-SC0256	ST-WRT08			
	24-120-10-20-3T	●	24	120	30	20	3T	10	ST-SC0256	ST-WRT08			
24-150-10-20-3T	●	24	150	40	20	3T	10	ST-SC0256	ST-WRT08				

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MSAP

AP□□10



AP□□	DESCRIPTION	STOCK	DIMENSIONS											
			D	L	l	d	Z	ap						
AP□□10	MSAP	24-200-10-20-3T	●	24	200	50	20	3T	10	ST-SC0256	ST-WRT08			
		25-120-10-25-3T	●	25	120	30	25	3T	10	ST-SC0256	ST-WRT08			
		25-120-10-25-3T-C	●	25	120	30	25	3T	10	ST-SC0256	ST-WRT08			
		25-150-10-25-3T	●	25	150	40	25	3T	10	ST-SC0256	ST-WRT08			
		25-200-10-25-3T	●	25	200	50	25	3T	10	ST-SC0256	ST-WRT08			
		25-250-10-25-3T	●	25	250	50	25	3T	10	ST-SC0256	ST-WRT08			
		26-120-10-25-3T	●	26	120	30	25	3T	10	ST-SC0256	ST-WRT08			
		26-120-10-25-3T-C	●	26	120	30	25	3T	10	ST-SC0256	ST-WRT08			
		26-150-10-25-3T	●	26	150	40	25	3T	10	ST-SC0256	ST-WRT08			
		26-200-10-25-3T	●	26	200	50	25	3T	10	ST-SC0256	ST-WRT08			
		30-120-10-25-4T	●	30	120	30	25	4T	10	ST-SC0256	ST-WRT08			
		30-150-10-25-4T	●	30	150	40	25	4T	10	ST-SC0256	ST-WRT08			
		32-120-10-25-4T	●	32	120	30	25	4T	10	ST-SC0256	ST-WRT08			
		32-120-10-32-4T	●	32	120	30	32	4T	10	ST-SC0256	ST-WRT08			
		32-120-10-32-4T-C	●	32	120	30	32	4T	10	ST-SC0256	ST-WRT08			
		32-150-10-25-4T	●	32	150	40	25	4T	10	ST-SC0256	ST-WRT08			
		32-150-10-32-4T	●	32	150	40	32	4T	10	ST-SC0256	ST-WRT08			
		32-300-10-32-4T	●	32	300	50	32	4T	10	ST-SC0256	ST-WRT08			
		35-120-10-32-5T	●	35	120	30	32	5T	10	ST-SC0256	ST-WRT08			
		40-120-10-32-5T	●	40	120	30	32	5T	10	ST-SC0256	ST-WRT08			
	40-150-10-32-5T	●	40	150	40	32	5T	10	ST-SC0256	ST-WRT08				

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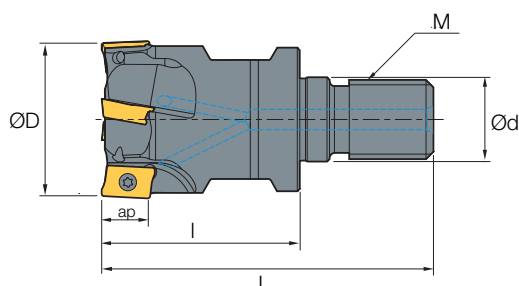
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M MAP

AP□□10

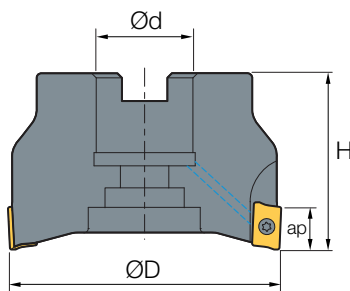



AP□□	DESCRIPTION	STOCK	DIMENSIONS														
			D	L	l	d	Z	M	ap								
AP□□10	M MAP 16-M08-10-2T-C	●	16	50	28	8.5	2T	08	10	ST-SC0257	ST-WRT08						
	20-M10-10-3T-C	●	20	50	28	10.5	3T	10	10	ST-SC0257	ST-WRT08						
	25-M12-10-3T-C	●	25	50	28	12.5	3T	12	10	ST-SC0257	ST-WRT08						
	32-M16-10-4T-C	●	32	60	35	17	4T	16	10	ST-SC0257	ST-WRT08						
	35-M16-10-4T	●	35	60	35	17	4T	16	10	ST-SC0257	ST-WRT08						
	40-M16-10-5T-C	●	40	60	35	17	5T	16	10	ST-SC0257	ST-WRT08						
	42-M16-10-5T-C	●	42	60	35	17	5T	16	10	ST-SC0257	ST-WRT08						

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MFAP

AP□□10



AP□□	DESCRIPTION	STOCK	DIMENSIONS											
			D	H	d	Z	ap							
AP□□10	MFAP 90040R-10-5T	●	40	40	16	5T	10	ST-SC0257	ST-WRT08					
	90040R-10-5T-C	●	40	40	16	5T	10	ST-SC0257	ST-WRT08					
	90050R-10-6T	●	50	40	22	6T	10	ST-SC0257	ST-WRT08					
	90050R-10-6T-C	●	50	40	22	6T	10	ST-SC0257	ST-WRT08					
	90063R-10-7T	●	63	40	22	7T	10	ST-SC0257	ST-WRT08					
	90063R-10-7T-C	●	63	40	22	7T	10	ST-SC0257	ST-WRT08					
	90080R-10-8T	●	80	50	27	8T	10	ST-SC0257	ST-WRT08					
	90080R-10-8T-C	●	80	50	27	8T	10	ST-SC0257	ST-WRT08					
	90100R-10-9T	●	100	50	32	9T	10	ST-SC0257	ST-WRT08					
	90100R-10-9T-C	●	100	50	32	9T	10	ST-SC0257	ST-WRT08					
	90125R-10-11T	●	125	50	40	11T	10	ST-SC0257	ST-WRT08					

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- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
- SPARE PARTS
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THREADING

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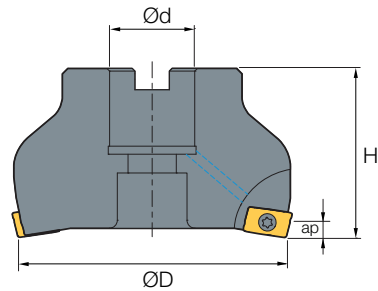
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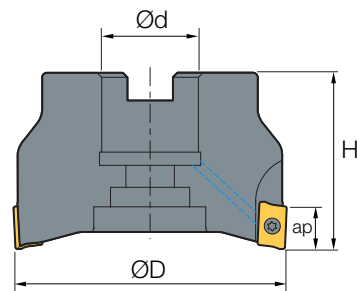
AP□□10




AP□□	DESCRIPTION		STOCK	DIMENSIONS							
				D	H	d	Z	ap			
AP□□10	MFAP	75063R-10-5T	●	63	40	22	5T	5	ST-SC0257	ST-WRT08	
		75063R-10-5T-C	●	63	40	22	5T	5	ST-SC0257	ST-WRT08	
		75080R-10-6T	●	80	40	27	6T	5	ST-SC0257	ST-WRT08	
		75080R-10-6T-C	●	80	40	27	6T	5	ST-SC0257	ST-WRT08	
		75100R-10-7T	●	100	50	32	7T	5	ST-SC0257	ST-WRT08	
		75100R-10-7T-C	●	100	50	32	7T	5	ST-SC0257	ST-WRT08	

MFAP

AP□□12



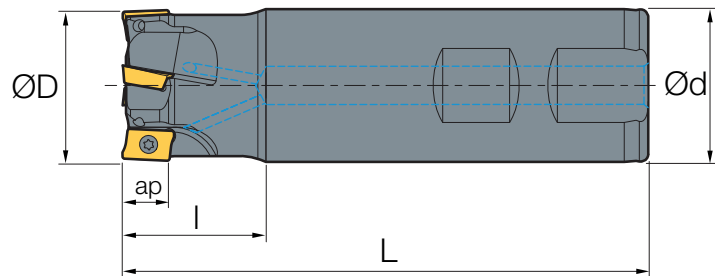
AP□□	DESCRIPTION		STOCK	DIMENSIONS							
				D	H	d	Z	ap			
AP□□12	MFAP	90050R-12-6T	●	50	40	22	6T	12	ST-SC0257	ST-WRT08	
		90063R-12-7T	●	63	40	22	7T	12	ST-SC0257	ST-WRT08	
		90080R-12-8T	●	80	50	27	8T	12	ST-SC0257	ST-WRT08	

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MSAP

AP□□11



AP□□	DESCRIPTION	STOCK	DIMENSIONS											
			D	L	l	d	Z	ap						
AP□□11	MSAP	16-160-11-15-2T-C	●	16	160	40	15	2T	11	ST-SC0256	ST-WRT08			
		16-160-11-16-2T-C	●	16	160	40	16	2T	11	ST-SC0256	ST-WRT08			
		16-200-11-16-2T-C	●	16	200	50	16	2T	11	ST-SC0256	ST-WRT08			
		17-160-11-16-2T-C	●	17	160	40	16	2T	11	ST-SC0256	ST-WRT08			
		17-200-11-16-2T-C	●	17	200	50	16	2T	11	ST-SC0256	ST-WRT08			
		20-160-11-20-3T-C	●	20	160	40	20	3T	11	ST-SC0256	ST-WRT08			
		20-200-11-20-3T-C	●	20	200	50	20	3T	11	ST-SC0256	ST-WRT08			
		21-160-11-20-3T-C	●	21	160	40	20	3T	11	ST-SC0256	ST-WRT08			
		21-200-11-20-3T-C	●	21	200	50	20	3T	11	ST-SC0256	ST-WRT08			
		25-160-11-25-3T-C	●	25	160	40	25	3T	11	ST-SC0256	ST-WRT08			
		25-200-11-25-3T-C	●	25	200	50	25	3T	11	ST-SC0256	ST-WRT08			
		26-160-11-25-3T-C	●	26	160	40	25	3T	11	ST-SC0256	ST-WRT08			
		26-200-11-25-3T-C	●	26	200	50	25	3T	11	ST-SC0256	ST-WRT08			
		32-160-11-32-4T-C	●	32	160	40	32	4T	11	ST-SC0256	ST-WRT08			
		33-160-11-32-4T-C	●	33	160	40	32	4T	11	ST-SC0256	ST-WRT08			
	33-200-11-32-4T-C	●	33	200	50	32	4T	11	ST-SC0256	ST-WRT08				

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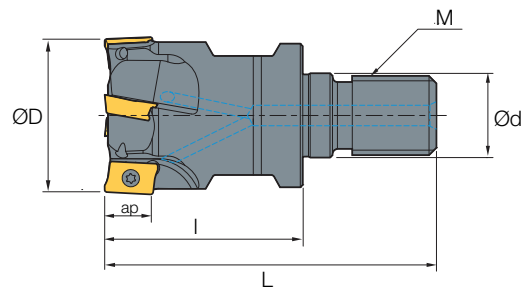
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MMAP

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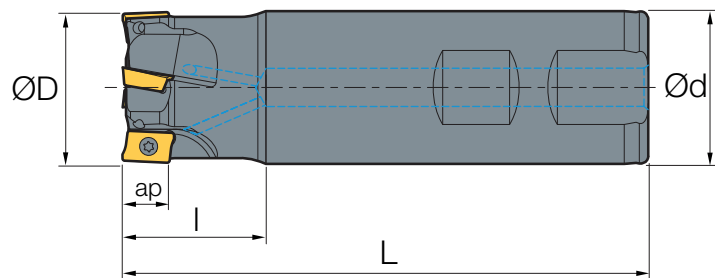


AP□□	DESCRIPTION	STOCK	DIMENSIONS													
			D	L	l	d	Z	M	ap							
AP□□11	MMAP 16-M08-11-2T-C	●	16	50	28	8.5	2T	08	11	ST-SC0257	ST-WRT08					
	20-M10-11-3T-C	●	20	50	28	10.5	3T	10	11	ST-SC0257	ST-WRT08					
	25-M12-11-3T-C	●	25	50	28	12.5	3T	12	11	ST-SC0257	ST-WRT08					

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MSAP

AP□□16



AP□□	DESCRIPTION	STOCK	DIMENSIONS											
			D	L	l	d	Z	ap						
AP□□16	MSAP	25-120-16-25-2T	●	25	120	30	25	2T	16	ST-SC0256	ST-WRT08			
		25-150-16-25-2T	●	25	150	40	25	2T	16	ST-SC0256	ST-WRT08			
		25-200-16-25-2T	●	25	200	50	25	2T	16	ST-SC0256	ST-WRT08			
		25-250-16-25-2T	●	25	250	70	25	2T	16	ST-SC0256	ST-WRT08			
		26-120-16-25-2T	●	26	120	30	25	2T	16	ST-SC0256	ST-WRT08			
		26-150-16-25-2T	●	26	150	40	25	2T	16	ST-SC0256	ST-WRT08			
		26-200-16-25-2T	●	26	200	50	25	2T	16	ST-SC0256	ST-WRT08			
		30-150-16-25-3T	●	30	150	40	25	3T	16	ST-SC0256	ST-WRT08			
		30-200-16-25-3T	●	30	200	50	25	3T	16	ST-SC0256	ST-WRT08			
		32-120-16-25-3T	●	32	120	30	25	3T	16	ST-SC0256	ST-WRT08			
		32-120-16-32-3T	●	32	120	30	32	3T	16	ST-SC0256	ST-WRT08			
		32-150-16-25-3T	●	32	150	50	25	3T	16	ST-SC0256	ST-WRT08			
		32-200-16-32-3T	●	32	200	50	32	3T	16	ST-SC0256	ST-WRT08			
		32-250-16-32-3T	●	32	250	70	32	3T	16	ST-SC0256	ST-WRT08			
		32-300-16-32-3T	●	32	300	70	32	3T	16	ST-SC0256	ST-WRT08			
		34-120-16-32-3T	●	34	120	30	32	3T	16	ST-SC0256	ST-WRT08			
		34-150-16-32-3T	●	34	150	50	32	3T	16	ST-SC0256	ST-WRT08			
		34-200-16-32-3T	●	34	200	50	32	3T	16	ST-SC0256	ST-WRT08			
		35-120-16-32-3T	●	35	120	30	32	3T	16	ST-SC0256	ST-WRT08			
		35-150-16-32-3T	●	35	150	50	32	3T	16	ST-SC0256	ST-WRT08			
		35-200-16-32-3T	●	35	200	50	32	3T	16	ST-SC0256	ST-WRT08			
		36-120-16-32-3T	●	36	120	30	32	3T	16	ST-SC0256	ST-WRT08			
		38-120-16-32-4T	●	38	120	30	32	4T	16	ST-SC0256	ST-WRT08			
		40-120-16-32-4T	●	40	120	30	32	4T	16	ST-SC0256	ST-WRT08			
	40-150-16-25-4T	●	40	150	50	25	4T	16	ST-SC0256	ST-WRT08				
	40-150-16-32-4T	●	40	150	50	32	4T	16	ST-SC0256	ST-WRT08				
	40-200-16-32-4T	●	40	200	50	32	4T	16	ST-SC0256	ST-WRT08				

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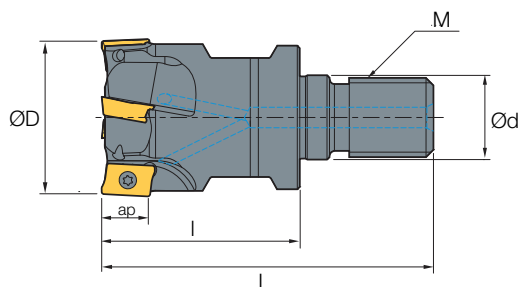
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MMAP

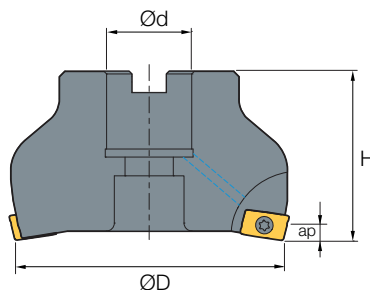
AP□□16



AP□□	DESCRIPTION	STOCK	DIMENSIONS											
			D	L	I	d	Z	ap	M					
AP□□16	MMAP 25-M12-16-2T-C	●	25	60	43	12	2T	16	12	ST-SC0257	ST-WRT08			
	32-M16-16-3T-C	●	32	60	43	16	3T	16	16	ST-SC0257	ST-WRT08			
	40-M16-16-4T-C	●	40	60	43	16	4T	16	16	ST-SC0257	ST-WRT08			
	42-M16-16-4T-C	●	42	60	43	16	4T	16	16	ST-SC0257	ST-WRT08			

MFAP

AP□□16



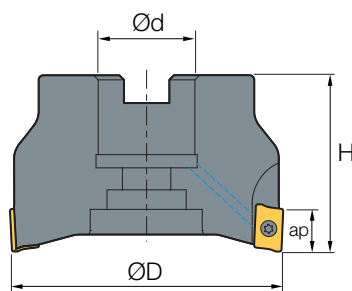
AP□□	DESCRIPTION	STOCK	DIMENSIONS								
			D	H	d	ap	Z				
AP□□16	MFAP 75063R-16-4T	●	63	40	22	16	4T	ST-SC0257	ST-WRT08		
	75063R-16-4T-C	●	63	40	22	16	4T	ST-SC0257	ST-WRT08		
	75080R-16-6T	●	80	40	27	16	6T	ST-SC0257	ST-WRT08		
	75080R-16-6T-C	●	80	40	27	16	6T				
	75100R-16-7T	●	100	50	32	16	7T				
	75100R-16-7T-C	●	100	50	32	16	7T				

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MFAP

AP□□16



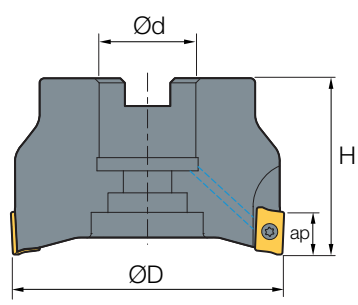
AP□□	DESCRIPTION	STOCK	DIMENSIONS								
			D	H	d	ap	Z				
AP□□16	MFAP	90040R-16-4T	●	40	40	16	16	4T	ST-SC0257	ST-WRT08	
		90040R-16-4T-C	●	40	40	22	16	4T	ST-SC0257	ST-WRT08	
		90050R-16-5T	●	50	40	22	16	5T	ST-SC0257	ST-WRT08	
		90050R-16-5T-C	●	50	40	22	16	5T	ST-SC0257	ST-WRT08	
		90063R-16-6T	●	63	40	22	16	6T	ST-SC0257	ST-WRT08	
		90063R-16-6T-C	●	63	40	22	16	6T	ST-SC0257	ST-WRT08	
		90080R-16-7T	●	80	50	22	16	7T	ST-SC0257	ST-WRT08	
		90080R-16-7T-C	●	80	50	22	16	7T	ST-SC0257	ST-WRT08	
		90100R-16-8T	●	100	50	32	16	8T	ST-SC0257	ST-WRT08	
		90100R-16-8T-C	●	100	50	32	16	8T	ST-SC0257	ST-WRT08	
		90125R-16-9T	●	125	63	40	16	9T	ST-SC0257	ST-WRT08	
		90160R-16-10T	●	160	63	40	16	10T	ST-SC0257	ST-WRT08	
	90200R-16-12T	●	200	63	60	16	12T	ST-SC0257	ST-WRT08		


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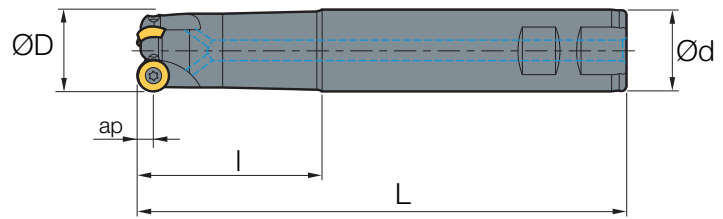


AP□□	DESCRIPTION	STOCK	DIMENSIONS					Z		
			D	H	d	ap				
AP□□17	MFAP 90050R-17-5T-C	●	50	40	22	16	5T	ST-SC0257	ST-WRT08	
	90063R-17-6T-C	●	63	40	22	16	6T	ST-SC0257	ST-WRT08	
	90080R-17-7T-C	●	80	50	22	16	7T	ST-SC0257	ST-WRT08	
	90100R-17-9T-C	●	100	50	32	16	8T	ST-SC0257	ST-WRT08	

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MSRD

RD□□



RD□□	DESCRIPTION	STOCK	DIMENSIONS										
			D	L	l	d	Z	ap					
RD□□08	MSRD 16-160-08-16-2T	●	16	160	55	25	2T	08	ST-SC0256	ST-WRT08			
	20-160-08-20-2T	●	20	160	55	25	2T	08	ST-SC0256	ST-WRT08			
	25-160-08-25-3T	●	25	160	55	25	3T	08	ST-SC0256	ST-WRT08			
RD□□10	MSRD 20-120-10-20-2T	●	20	120	55	20	2T	10	ST-SC3508	ST-WRT15			
	20-160-10-20-2T	●	20	160	55	20	2T	10	ST-SC3508	ST-WRT15			
	20-200-10-20-2T	●	20	200	55	20	2T	10	ST-SC3508	ST-WRT15			
	25-120-10-25-2T	●	25	120	55	25	2T	10	ST-SC3508	ST-WRT15			
	25-160-10-25-2T	●	25	160	55	25	2T	10	ST-SC3508	ST-WRT15			
	25-200-10-25-2T	●	25	200	55	25	2T	10	ST-SC3508	ST-WRT15			
	32-120-10-32-3T	●	32	120	55	32	3T	10	ST-SC3508	ST-WRT15			
	32-160-10-32-3T	●	32	160	55	32	3T	10	ST-SC3508	ST-WRT15			
	32-200-10-32-3T	●	32	200	55	32	3T	10	ST-SC3508	ST-WRT15			
	40-120-10-32-4T	●	40	120	55	32	4T	10	ST-SC3508	ST-WRT15			
	40-160-10-32-4T	●	40	160	55	32	4T	10	ST-SC3508	ST-WRT15			
	40-200-10-32-4T	●	40	200	55	32	4T	10	ST-SC3508	ST-WRT15			

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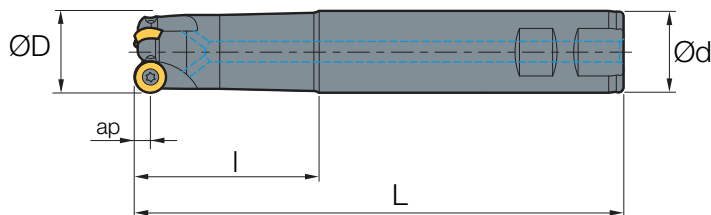
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MSRD

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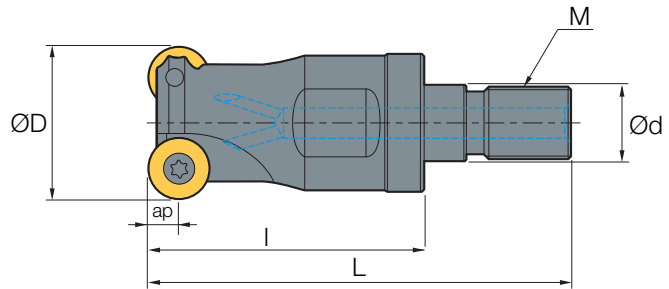


RD□□	DESCRIPTION		STOCK	DIMENSIONS								
	MSRD			D	L	l	d	Z	ap			
RD□□12	25-120-12-25-2T	●	25	120	55	25	2T	08	ST-SC3508	ST-WRT15		
	25-160-12-25-2T	●	25	160	55	25	2T	08	ST-SC3508	ST-WRT15		
	25-200-12-25-2T	●	25	200	55	25	2T	08	ST-SC3508	ST-WRT15		
	32-120-12-32-3T	●	32	120	55	32	3T	10	ST-SC3508	ST-WRT15		
	32-160-12-32-3T	●	32	160	55	32	3T	10	ST-SC3508	ST-WRT15		
	32-200-12-32-3T	●	32	200	55	32	3T	10	ST-SC3508	ST-WRT15		
	40-120-12-32-4T	●	40	120	55	32	4T	10	ST-SC3508	ST-WRT15		
	40-200-12-32-4T	●	40	200	55	32	4T	10	ST-SC3508	ST-WRT15		

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MMRD

RD□□



RD□□	DESCRIPTION	STOCK	DIMENSIONS							ap	M				
			D	L	l	d	Z								
RD□□08	MMRD 16-M08-08-2T-C	●	16	52	23	13	2T	4	08	ST-SC0256	ST-WRT08				
	20-M10-08-3T-C	●	20	52	30	18	3T	4	10	ST-SC0256	ST-WRT08				
	25-M12-08-4T-C	●	25	52	35	21	4T	4	12	ST-SC0256	ST-WRT08				
RD□□10	MMRD 20-M10-10-2T-C	●	20	52	30	18	2T	5	10	ST-SC3508	ST-WRT15				
	25-M12-10-3T-C	●	25	52	35	21	3T	5	12	ST-SC3508	ST-WRT15				
	30-M16-10-3T-C	●	30	64	43	29	3T	5	16	ST-SC3508	ST-WRT15				
	32-M16-10-4T-C	●	32	64	43	29	4T	5	16	ST-SC3508	ST-WRT15				
	35-M16-10-4T-C	●	35	64	43	29	4T	5	16	ST-SC3508	ST-WRT15				
	40-M16-10-4T-C	●	40	67	43	29	4T	5	16	ST-SC3508	ST-WRT15				
	42-M16-10-5T-C	●	42	67	43	29	4T	5	16	ST-SC3508	ST-WRT15				
RD□□12	MMRD 24-M12-12-2T-C	●	24	52	35	21	2T	6	12	ST-SC3508	ST-WRT15				
	25-M12-12-2T-C	●	25	52	35	21	2T	6	12	ST-SC3508	ST-WRT15				
	32-M16-12-3T-C	●	32	64	43	29	3T	6	16	ST-SC3508	ST-WRT15				
	35-M16-12-3T-C	●	35	64	43	29	3T	6	16	ST-SC3508	ST-WRT15				
	40-M16-12-4T-C	●	40	67	43	29	4T	6	16	ST-SC3508	ST-WRT15				
	42-M16-12-4T-C	●	42	67	43	29	4T	6	16	ST-SC3508	ST-WRT15				

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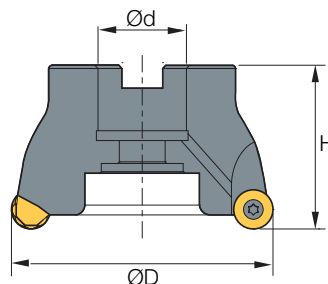
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MFRD

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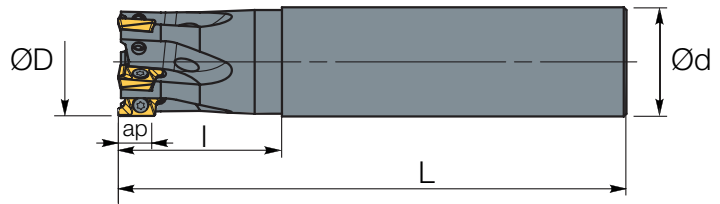
RD□□	DESCRIPTION	STOCK	DIMENSIONS								
			D	H	d	ap	Z				
RD□□10	MFRD 040R-10-4T	●	40	40	16	5	4T	ST-SC3509	ST-WRT15		
	040R-10-4T-C	●	40	40	16	5	4T	ST-SC3509	ST-WRT15		
	050R-10-5T	●	50	50	22	5	5T	ST-SC3509	ST-WRT15		
	050R-10-5T-C	●	50	50	22	5	5T	ST-SC3509	ST-WRT15		
	063R-10-6T	●	63	50	27	5	6T	ST-SC3509	ST-WRT15		
	063R-10-6T-C	●	63	50	27	5	6T	ST-SC3509	ST-WRT15		
	080R-10-7T	●	80	50	27	5	7T	ST-SC3509	ST-WRT15		
	080R-10-7T-C	●	80	50	27	5	7T	ST-SC3509	ST-WRT15		
	100R-10-8T	●	100	50	32	5	8T	ST-SC3509	ST-WRT15		
	100R-10-8T-C	●	100	50	32	5	8T	ST-SC3509	ST-WRT15		
	125R-10-9T	●	125	63	40	5	9T	ST-SC3509	ST-WRT15		
RD□□12	MFRD 040R-12-4T	●	40	40	16	6	4T	ST-SC3509	ST-WRT15		
	040R-12-4T-C	●	40	40	16	6	4T	ST-SC3509	ST-WRT15		
	050R-12-5T	●	50	50	22	6	5T	ST-SC3509	ST-WRT15		
	050R-12-5T-C	●	50	50	22	6	5T	ST-SC3509	ST-WRT15		
	063R-12-6T	●	63	50	27	6	6T	ST-SC3509	ST-WRT15		
	063R-12-6T-C	●	63	50	27	6	6T	ST-SC3509	ST-WRT15		
	080R-12-7T	●	80	50	27	6	7T	ST-SC3509	ST-WRT15		
	080R-12-7T-C	●	80	50	27	6	7T	ST-SC3509	ST-WRT15		
	100R-12-8T	●	100	50	32	6	8T	ST-SC3509	ST-WRT15		
	100R-12-8T-C	●	125	50	32	6	8T	ST-SC3509	ST-WRT15		
	125R-12-9T	●	125	63	40	6	9T	ST-SC3509	ST-WRT15		

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MSRT

RT□□



RT□□	DESCRIPTION	STOCK	DIMENSIONS										
			D	L	l	d	Z	ap					
RT□□07	MSRT 10-120-07-10-2T	●	10	120	30	10	2T	07	ST-SC0204	ST-WRT06			
	12-120-07-12-2T	●	12	120	30	12	2T	07	ST-SC0204	ST-WRT06			
	14-120-07-12-2T	●	14	120	30	12	2T	07	ST-SC0204	ST-WRT06			
RT□□10	MSRT 16-120-10-16-2T	●	16	120	30	16	2T	10	ST-SC02507	ST-WRT08			
	16-150-10-16-2T	●	16	150	40	16	2T	10	ST-SC02507	ST-WRT08			
	16-200-10-16-2T	●	16	200	50	16	2T	10	ST-SC02507	ST-WRT08			
	17-150-10-16-2T	●	17	150	40	16	2T	10	ST-SC02507	ST-WRT08			
	18-120-10-16-2T	●	18	120	30	16	2T	10	ST-SC02507	ST-WRT08			
	20-120-10-20-3T	●	20	120	30	20	2T	10	ST-SC02507	ST-WRT08			
	20-150-10-20-3T	●	20	150	40	20	3T	10	ST-SC02507	ST-WRT08			
	20-200-10-20-3T	●	20	200	50	20	3T	10	ST-SC02507	ST-WRT08			
	22-120-10-20-3T	●	22	120	30	20	3T	10	ST-SC02507	ST-WRT08			
	22-150-10-20-3T	●	22	150	40	20	3T	10	ST-SC02507	ST-WRT08			
	22-200-10-20-3T	●	22	200	50	20	3T	10	ST-SC02507	ST-WRT08			
	25-120-10-25-4T	●	25	120	30	25	4T	10	ST-SC02507	ST-WRT08			
	25-150-10-25-4T	●	25	150	40	25	4T	10	ST-SC02507	ST-WRT08			
	25-200-10-25-4T	●	25	200	50	25	4T	10	ST-SC02507	ST-WRT08			
	32-120-10-32-5T	●	32	120	30	32	5T	10	ST-SC02507	ST-WRT08			
32-150-10-32-5T	●	32	150	40	32	5T	10	ST-SC02507	ST-WRT08				
32-200-10-32-5T	●	32	200	50	32	5T	10	ST-SC02507	ST-WRT08				

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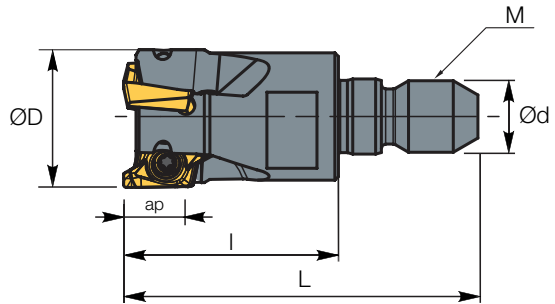
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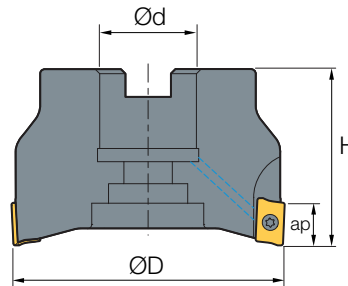
RT



RD□□	DESCRIPTION	STOCK	DIMENSIONS											
			D	L	l	d	Z	ap	M					
RT□□10	MMRT 25-M12-10-4T-C	●	25	52	23	25	4T	10	12	ST-SC0257	ST-WRT08			
	32-M16-10-5T-C	●	32	64	30	32	5T	10	16	ST-SC0257	ST-WRT08			
	42-M16-10-6T-C	●	42	67	35	42	6T	10	16	ST-SC0257	ST-WRT08			

MFRT

RT



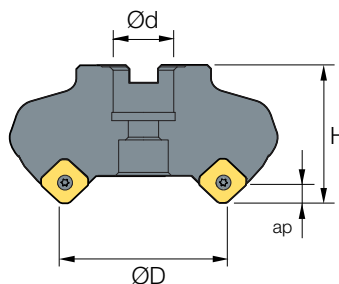
RT□□	DESCRIPTION	STOCK	DIMENSIONS									
			D	H	d	ap	Z					
RT□□10	MFRT 90040R-10-6T	●	40	40	16	10	6T	ST-SC0257	ST-WRT08			
	90040R-10-6T-C	●	40	40	16	10	6T	ST-SC0257	ST-WRT08			
	90050R-10-7T	●	50	40	22	10	7T	ST-SC0257	ST-WRT08			
	90050R-10-7T-C	●	50	40	22	10	7T	ST-SC0257	ST-WRT08			
	90063R-10-9T	●	63	40	27	10	9T	ST-SC0257	ST-WRT08			
	90063R-10-9T-C	●	63	40	27	10	9T	ST-SC0257	ST-WRT08			

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MFSE

SE□□12



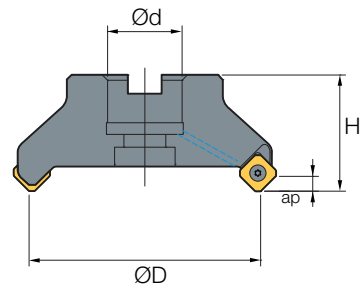
SE□□	DESCRIPTION	STOCK	DIMENSIONS								
			D	H	d	ap	Z				
SE□□12	MFSE 45050R-4T	●	40	40	22	6	4T	ST-SC0359	ST-WRT15		
	45050R-4T-C	●	40	40	22	6	4T	ST-SC0359	ST-WRT15		
	45063R-5T	●	63	40	22	6	5T	ST-SC0359	ST-WRT15		
	45063R-5T-C	●	63	40	22	6	5T	ST-SC0359	ST-WRT15		
	45080R-6T	●	80	50	27	6	6T	ST-SC0359	ST-WRT15		
	45080R-6T-C	●	80	50	27	6	6T	ST-SC0359	ST-WRT15		
	45100R-7T	●	100	50	32	6	7T	ST-SC0359	ST-WRT15		
	45100R-7T-C	●	100	50	32	6	7T	ST-SC0359	ST-WRT15		
	45125R-8T	●	125	63	40	6	8T	ST-SC0359	ST-WRT15		
	45160R-10T	●	160	63	40	6	10T	ST-SC0359	ST-WRT15		


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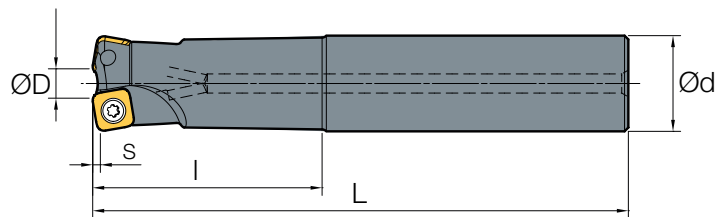


SN□□	DESCRIPTION	STOCK	DIMENSIONS								
			D	H	d	ap	Z				
SN□□12	MFSN 45050R-5T	●	50	40	22	6	5T	ST-SC0411	ST-WRT15		
	45050R-5T-C	●	50	40	22	6	5T	ST-SC0411	ST-WRT15		
	45063R-7T	●	63	40	22	6	7T	ST-SC0411	ST-WRT15		
	45063R-7T-C	●	63	40	22	6	7T	ST-SC0411	ST-WRT15		
	45080R-8T	●	80	50	27	6	8T	ST-SC0411	ST-WRT15		
	45080R-8T-C	●	80	50	27	6	8T	ST-SC0411	ST-WRT15		
	45100R-10T	●	100	50	32	6	10T	ST-SC0411	ST-WRT15		
	45100R-10T-C	●	100	50	32	6	10T	ST-SC0411	ST-WRT15		
	45125R-11T	●	125	63	40	6	11T	ST-SC0411	ST-WRT15		
	45160R-12T	●	160	63	40	6	12T	ST-SC0411	ST-WRT15		
	45200R-14T	●	200	63	60	6	14T	ST-SC0411	ST-WRT15		

carbide  308

MSSO

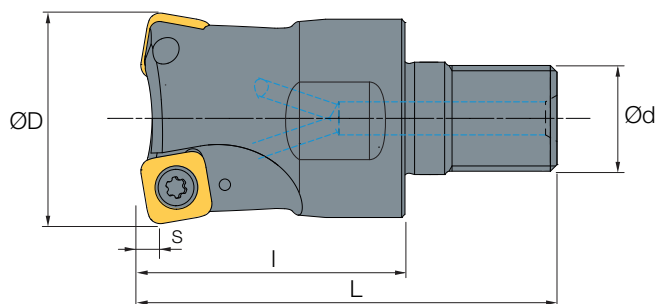
SOMW



SO□□	DESCRIPTION	STOCK	DIMENSIONS						PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
			D	L	l	d	Z	S				
SOMW08	MSSO 20-160-08-20-2T	●	20	160	40	20	2T	2	2,5	2°30'	ST-SC0309	ST-WRT15
	20-200-08-20-2T	●	20	200	50	20	2T	2	2,5	2°30'	ST-SC0309	ST-WRT15
	25-160-08-25-3T	●	25	160	40	25	3T	2	2,5	1°30'	ST-SC0309	ST-WRT15
	25-200-08-25-3T	●	25	200	50	25	3T	2	2,5	1°30'	ST-SC0309	ST-WRT15
	32-160-08-32-4T	●	32	160	40	32	4T	2	2,5	1°00'	ST-SC0309	ST-WRT15
	32-200-08-32-4T	●	32	200	50	32	4T	2	2,5	1°00'	ST-SC0309	ST-WRT15

MMSO

SOMW



SO□□	DESCRIPTION	STOCK	DIMENSIONS							PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
			D	L	l	d	Z	S	M				
SOMW08	MMSO 20-M10-08-2T-C	●	20	52	30	12,5	2T	2	10	2,5	2°30'	ST-SC0309	ST-WRT15
	25-M12-08-3T-C	●	25	52	35	12,5	3T	2	12	2,5	1°30'	ST-SC0309	ST-WRT15
	32-M16-08-4T-C	●	32	64	43	17	4T	2	16	2,5	1°00'	ST-SC0309	ST-WRT15
	40-M16-08-5T-C	●	40	67	43	17	5T	2	16	2,5	0°50'	ST-SC0309	ST-WRT15
	42-M16-08-5T-C	●	42	67	43	17	5T	2	16	2,5	0°40'	ST-SC0309	ST-WRT15

carbide

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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

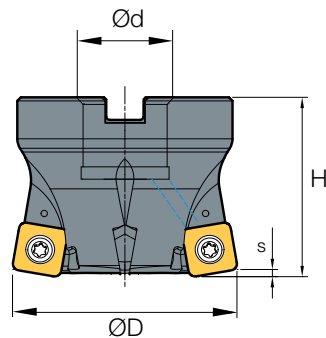
DRILLS

SPARE PARTS

INDEX

MFSO

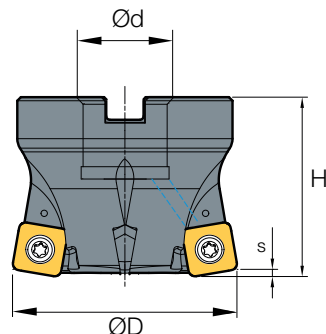
SOMW



SO□□	DESCRIPTION		STOCK	DIMENSIONS					PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
				D	H	d	S	Z				
SOMW08	MFSO	040R-08-5T-C	●	40	40	16	2	5T	2,5	0°50'	ST-SC0309	ST-WRT15
		050R-08-6T-C	●	50	40	22	2	6T	3,5	0°40'	ST-SC0309	ST-WRT15
		063R-08-7T-C	●	63	40	22	2	7T	3,5	0°30'	ST-SC0309	ST-WRT15

MFSP

SPMW



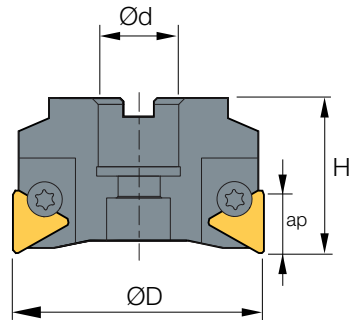
SO□□	DESCRIPTION		STOCK	DIMENSIONS					PROGRAM RADIUS	MAX. ANGLE FOR RAMPING		
				D	H	d	S	Z				
SPMW12	MFSP	050R-12-4T-C	●	50	40	22	3	4T	4,0	1°00'	ST-SC0410	ST-WRT15
		063R-12-6T-C	●	63	40	22	3	6T	4,5	0°40'	ST-SC0410	ST-WRT15

carbide

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MFTP

TP□□



TP□□	DESCRIPTION	STOCK	DIMENSIONS								
			D	H	d	ap	Z				
TP□□16	MFTP 90050R-16-4T	●	50	40	22	12	4T	ST-SC0610	ST-WR0040		
	90063R-16-5T	●	63	45	22	12	5T	ST-SC0610	ST-WR0040		
	90080R-16-6T	●	80	50	27	12	6T	ST-SC0610	ST-WR0040		
	90100R-16-7T	●	100	50	32	12	7T	ST-SC0610	ST-WR0040		
	90125R-16-8T	●	125	63	40	12	8T	ST-SC0610	ST-WR0040		
	90160R-16-9T	●	160	63	40	12	9T	ST-SC0610	ST-WR0040		
TP□□22	MFTP 90063R-22-3T	●	63	45	22	18	3T	ST-SC0810	ST-WR0050		
	90063R-22-4T	●	63	45	22	18	4T	ST-SC0810	ST-WR0050		
	90080R-22-5T	●	80	50	27	18	5T	ST-SC0810	ST-WR0050		
	90100R-22-6T	●	100	50	32	18	6T	ST-SC0810	ST-WR0050		
	90125R-22-7T	●	125	63	40	18	7T	ST-SC0810	ST-WR0050		
	90160R-22-8T	●	160	63	40	18	8T	ST-SC0810	ST-WR0050		
	90200R-22-11T	●	200	63	60	18	11T	ST-SC0810	ST-WR0050		

carbide 311

TURNING
 GROOVING
 THREADING
 MILLING
 DRILLING
 ENDMILLS
 DRILLS
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 INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

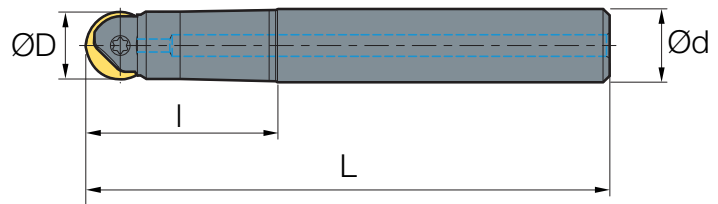
DRILLS

SPARE PARTS

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MSTW

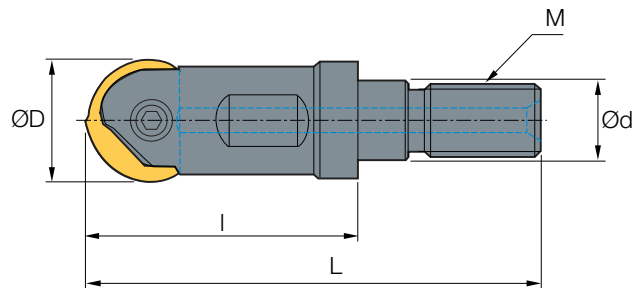
TW □□



TW□□	DESCRIPTION		STOCK	DIMENSIONS						
				D	L	l	d	Z		
TW08	MSTW	08-110-D10	●	08	110	25	08	1T	ST-TC170	ST-WRT08
TW10	MSTW	10-130-D12	●	10	130	30	10	1T	ST-TC172	ST-WRT15
TW12	MSTW	12-130-D12	●	12	130	32	12	1T	ST-TC174	ST-WRT20
TW16	MSTW	16-175-D16	●	16	175	60	16	1T	ST-TC176	ST-WRT20
TW20	MSTW	20-200-D20	●	20	200	100	20	1T	ST-TC178	ST-WRT20
TW25	MSTW	25-200-D25	●	25	200	100	25	1T	ST-TC181	ST-WR0030

MMTW

TW □□



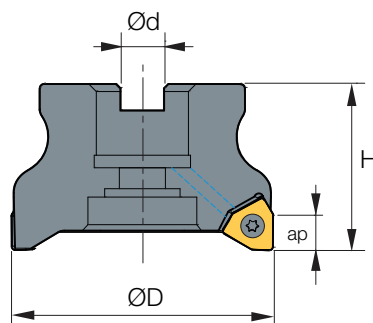
TW□□	DESCRIPTION		STOCK	DIMENSIONS							
				D	L	l	d	Z	M		
TW16	MMTW	16-M08-16	●	16	52	30	10,5	1T	8	ST-TC176	ST-WRT20
TW20	MMTW	20-M10-20	●	20	52	35	12,5	1T	10	ST-TC178	ST-WRT20
TW25	MMTW	25-M12-25	●	25	64	43	17	1T	12	ST-TC181	ST-WR0030



carbide

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MFWN

WNMU



WN□□	DESCRIPTION	STOCK	DIMENSIONS					 ← 			
			D	H	d	ap	Z				
WN□□08	MFWN 90050R-08-4T	●	50	40	22	8	4T	ST-SC0514	ST-WRT015		
	90063R-08-4T	●	63	45	22	8	4T	ST-SC0514	ST-WRT015		
	90063R-08-5T	●	63	45	22	8	5T	ST-SC0514	ST-WRT015		
	90080R-08-7T	●	80	50	27	8	7T	ST-SC0514	ST-WRT015		
	90100R-08-9T-C	●	100	50	32	8	9T	ST-SC0514	ST-WRT015		
	90125R-08-11T-C	●	125	63	40	8	11T	ST-SC0514	ST-WRT015		
	90125R-08-8T	●	125	63	40	8	8T	ST-SC0514	ST-WRT015		
	90160R-08-10T	●	160	63	40	8	10T	ST-SC0514	ST-WRT015		
	90200R-08-16T-C	●	200	63	60	8	16T	ST-SC0514	ST-WRT015		

carbide  313

- TURNING
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TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

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MAT

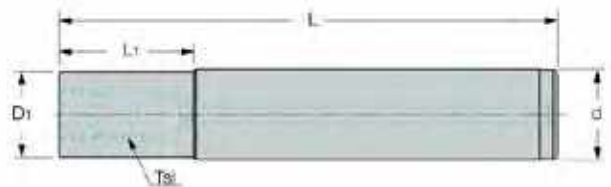
Steel Shaft



	DESCRIPTION	STOCK	DIMENSIONS								
			D	d	L	l	M				
MAT	M10-120-S18/20	●	18	20	120	60	10				
	M10-170-S18/20	●	18	20	170	90	10				
	M12-160-S24/25	●	24	25	160	80	12				
	M12-200-S24/25	●	24	25	200	100	12				
	M12-250-S24/25	●	24	25	250	150	12				
	M16-160-S31/32	●	31	32	160	80	16				
	M16-200-S31/32	●	31	32	200	100	16				
	M16-250-S31/32	●	31	32	250	150	16				

MFT

Carbide Shaft



	DESCRIPTION	STOCK	DIMENSIONS								
			D	d	L	l	M				
MFT	08-08-100-M4	●	8	8	100	-	M4				
	10-10-080-M5	●	10	10	80	-	M5				
	10-10-100-M5	●	10	10	100	-	M5				
	10-10-100-M6	●	10	10	100	-	M6				
	10-10-150-M5	●	10	10	150	-	M5				
	12-12-100-M6	●	12	12	100	-	M6				
	12-12-150-M6	●	12	12	150	-	M6				
	12-12-200-M6	●	12	12	200	-	M6				

MFT

Carbide Shaft



	DESCRIPTION	STOCK	DIMENSIONS								
			D	d	L	l	M				
MFT	16-15-100-M8	●	16	15	100	50	M8				
	16-15-150-M8	●	16	15	150	50	M8				
	16-15-200-M8	●	16	15	200	50	M8				
	17-16-100-M8	●	16	16	100	-	M8				
	17-16-150-M8	●	16	16	150	-	M8				
	17-16-200-M8	●	16	16	200	-	M8				
	17-16-250-M8	●	16	16	250	-	M8				
	17-16-300-M8	●	16	16	300	-	M8				
	20-19-150-M10	●	20	19	150	50	M10				
	20-19-250-M10	●	20	19	250	100	M10				
	21-20-100-M10	●	20	20	100	-	M10				
	21-20-150-M10	●	20	20	150	-	M10				
	21-20-200-M10	●	20	20	200	-	M10				
	21-20-250-M10	●	20	20	250	-	M10				
	21-20-300-M10	●	20	20	300	-	M10				
	25-24-150-M12	●	25	24	150	50	M12				
	25-24-200-M12	●	25	24	200	50	M12				
	25-24-250-M12	●	25	24	250	100	M12				
	25-24-300-M12	●	25	24	300	100	M12				
	26-25-150-M12	●	25	25	150	-	M12				
	26-25-200-M12	●	25	25	200	-	M12				
	26-25-250-M12	●	25	25	250	-	M12				
	26-25-300-M12	●	25	25	300	-	M12				
	35-32-150-M16	●	35	32	150	50	M16				
	35-32-200-M16	●	35	32	200	50	M16				
	35-32-250-M16	●	35	32	250	100	M16				
	35-32-300-M16	●	35	32	300	100	M16				
	35-32-350-M16	●	35	32	350	150	M16				
	35-32-400-M16	●	35	32	400	200	M16				

TURNING

GROOVING

THREADING

MILLING

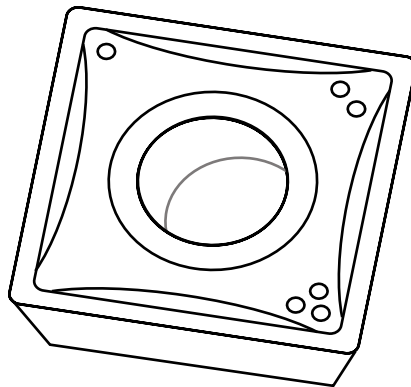
DRILLING

ENDMILLS

DRILLS

SPARE PARTS

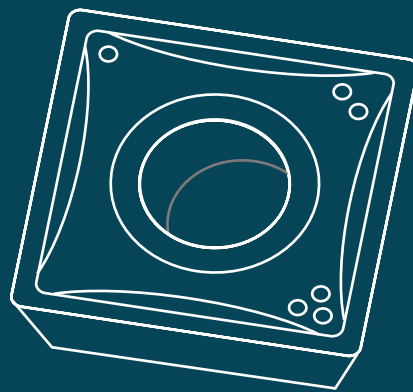
INDEX



DRILLING/

carbide /351
holders /355

DRILLING / carbide



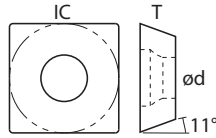
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- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
- DRILLS
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Grades

	ISO DIN 513																			
	K					P					M					N				
	K01	K10	K20	K30	K40	P01	P10	P20	P30	P40	M01	M10	M20	M30	M40	N01	N10	N20	N30	N40
CARBIDE CVD																				
CARBIDE PVD	PS5960					PS7120 PS5960					PS7120 PS5960									
CARBIDE UNCOATED																				
CERMET UNCOATED																				

POSITIVE 11°
with hole

SP □ □



SP □ □	0502 □ □	0602 □ □	07T3 □ □	0904 □ □	1104 □ □	1405 □ □
IC	5,56	6,00	7,94	9,80	11,50	14,30
T	2,38	2,38	3,97	4,30	4,76	5,56
ød	2,50	2,80	2,80	4,10	4,40	5,50
holders	356	356	356	356	356	356

DESCRIPTION		CARBIDE PVD													
		PS5960	PS7120												
	SPMG050204-V	●	●												
	SPMG060204-V	●	●												
	SPMG07T308-V	●	●												
	SPMG090408-V	●	●												
	SPMG110408-V	●	●												
	SPMG140512-V	●	●												

- TURNING
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TURNING

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THREADING

MILLING

DRILLING

ENDMILLS

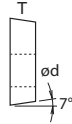
DRILLS

SPARE PARTS

INDEX

POSITIVE 7°
with hole

WC □ □



WC □ □ 0302 □ □ 0402 □ □ 0503 □ □ 06T3 □ □ 0804 □ □

IC 5,56 6,35 7,94 9,525 12,70

T 2,38 2,38 3,18 3,97 4,76

Ød 2,80 3,00 3,40 3,70 4,30

 363 363 363 363 363

DESCRIPTION

CARBIDE PVD

PS5960

PS7120



WCMX030208-S

●

WCMX040208-S

●

WCMX050308-S

●

WCMX06T308-S

●

●

WCMX080412-S

●

●

DRILLING / holders



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

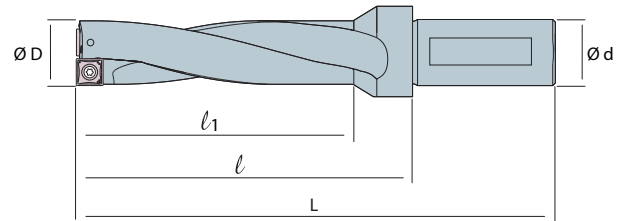
SPARE PARTS



INDEX

SS2D

2xD

SP □□

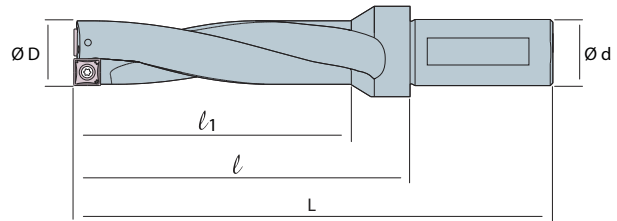



SP□□	DESCRIPTION		STOCK	DIMENSIONS					 			
				$\varnothing D$	$\varnothing d$	L	l	l_1				
SPMG0502	SS2D	125-05	●	12.5	20	107	37	44	ST-SC0206	ST-WRT06		
		130-05	●	13	20	107	39	44	ST-SC0206	ST-WRT06		
		135-05	●	13.5	20	110	40.5	46	ST-SC0206	ST-WRT06		
		140-05	●	14	20	110	42	46	ST-SC0206	ST-WRT06		
		145-05	●	14.5	20	113	43.5	49	ST-SC0206	ST-WRT06		
		150-05	●	15	20	113	45	49	ST-SC0206	ST-WRT06		
SPMG0602	SS2D	155-06	●	15.5	20	124	46.5	52	ST-SC0226	ST-WRT07		
		160-06	●	16	25	124	48	52	ST-SC0226	ST-WRT07		
		165-06	●	16.5	25	127	49.5	54	ST-SC0226	ST-WRT07		
		170-06	●	17	25	127	51	54	ST-SC0226	ST-WRT07		
		175-06	●	17.5	25	130	52.5	57	ST-SC0226	ST-WRT07		
		180-06	●	18	25	130	54	57	ST-SC0226	ST-WRT07		
		185-06	●	18.5	25	134	55.5	59	ST-SC0226	ST-WRT07		
		190-06	●	19	25	134	57	59	ST-SC0226	ST-WRT07		
		195-06	●	19.5	25	139	58.5	63	ST-SC0226	ST-WRT07		
		200-06	●	20	25	139	60	63	ST-SC0226	ST-WRT07		
		205-06	●	20.5	25	142	61.5	65	ST-SC0226	ST-WRT07		
		210-06	●	21	25	142	63	65	ST-SC0226	ST-WRT07		
SPMG07T3	SS2D	220-07	●	22	25	145	66	67	ST-SC0257	ST-WRT08		
		225-07	●	22.5	25	150	67.5	71	ST-SC0257	ST-WRT08		
		230-07	●	23	25	150	69	71	ST-SC0257	ST-WRT08		
		235-07	●	23.5	25	154	70.5	74	ST-SC0257	ST-WRT08		
		240-07	●	24	25	158	72	74	ST-SC0257	ST-WRT08		
		245-07	●	24.5	25	158	73.5	77	ST-SC0257	ST-WRT08		
		250-07	●	25	25	161	75	77	ST-SC0257	ST-WRT08		
		255-07	●	25.5	25	161	76.5	79	ST-SC0257	ST-WRT08		
	260-07	●	26	25	164	78	79	ST-SC0257	ST-WRT08			

SS2D

2xD

SP



SP <input type="checkbox"/> <input type="checkbox"/>	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
SPMG07T3	SS2D	265-07	●	26.5	25	137	53	81	ST-SC0257	ST-WRT08		
		270-07	●	27	25	137	54	81	ST-SC0257	ST-WRT08		
		275-07	●	27.5	25	140	55	84	ST-SC0257	ST-WRT08		
SPMG0904	SS2D	280-09	●	28	25	140	56	84	ST-SC3511	ST-WRT15		
		285-09	●	28.5	25	142	57	86	ST-SC3511	ST-WRT15		
		290-09	●	29	25	142	58	86	ST-SC3511	ST-WRT15		
		295-09	●	29.5	25	147	59	91	ST-SC3511	ST-WRT15		
		300-09	●	30	32	151	60	91	ST-SC3511	ST-WRT15		
		310-09	●	31	32	154	62	94	ST-SC3511	ST-WRT15		
		320-09	●	32	32	156	64	96	ST-SC3511	ST-WRT15		
		330-09	●	33	32	159	66	99	ST-SC3511	ST-WRT15		
SPMG1104	SS2D	340-11	●	34	32	161	68	101	ST-SC0411	ST-WRT15		
		350-11	●	35	32	164	70	104	ST-SC0411	ST-WRT15		
		360-11	●	36	32	167	72	107	ST-SC0411	ST-WRT15		
		370-11	●	37	32	170	74	110	ST-SC0411	ST-WRT15		
		380-11	●	38	32	173	76	113	ST-SC0411	ST-WRT15		
		390-11	●	39	32	175	78	115	ST-SC0411	ST-WRT15		
		400-11	●	40	32	178	80	118	ST-SC0411	ST-WRT15		
		410-11	●	41	32	181	82	121	ST-SC0411	ST-WRT15		
SPMG1405	SS2D	420-14	●	42	32	183	84	123	ST-SC0511	ST-WRT20		
		430-14	●	43	32	186	86	126	ST-SC0511	ST-WRT20		
		440-14	●	44	32	188	88	128	ST-SC0511	ST-WRT20		
		450-14	●	45	40	202	90	132	ST-SC0511	ST-WRT20		
		460-14	●	46	40	205	92	135	ST-SC0511	ST-WRT20		
		470-14	●	47	40	207	94	137	ST-SC0511	ST-WRT20		
		480-14	●	48	40	210	96	140	ST-SC0511	ST-WRT20		
		490-14	●	49	40	212	98	142	ST-SC0511	ST-WRT20		
	500-14	●	50	40	215	140	145	ST-SC0511	ST-WRT20			

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

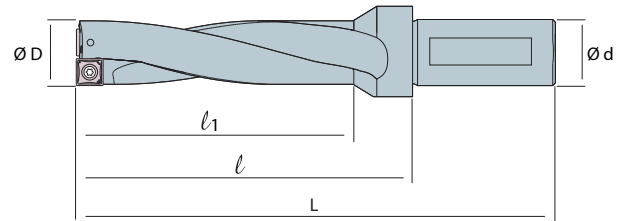
SPARE PARTS



INDEX

SS3D

3xD

SP □□

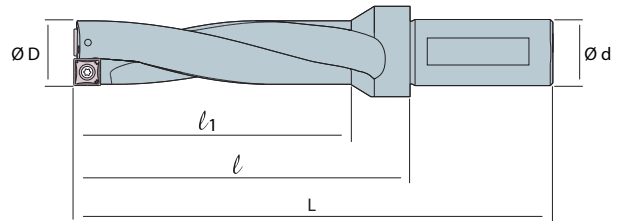



SP□□	DESCRIPTION		STOCK	DIMENSIONS					 ← 			
				ØD	Ød	L	l	l ₁				
SPMG0502	SS3D	125-05	●	12.5	20	94	25	57	ST-SC0206	ST-WRT06		
		130-05	●	13	20	94	26	57	ST-SC0206	ST-WRT06		
		135-05	●	13.5	20	96	27	60	ST-SC0206	ST-WRT06		
		140-05	●	14	20	96	28	60	ST-SC0206	ST-WRT06		
		145-05	●	14.5	20	99	29	63	ST-SC0206	ST-WRT06		
		150-05	●	15	20	99	30	63	ST-SC0206	ST-WRT06		
SPMG0602	SS3D	155-06	●	15.5	20	102	31	68	ST-SC0226	ST-WRT07		
		160-06	●	16	25	108	32	68	ST-SC0226	ST-WRT07		
		165-06	●	16.5	25	110	33	71	ST-SC0226	ST-WRT07		
		170-06	●	17	25	110	34	71	ST-SC0226	ST-WRT07		
		175-06	●	17.5	25	113	35	75	ST-SC0226	ST-WRT07		
		180-06	●	18	25	113	36	75	ST-SC0226	ST-WRT07		
		185-06	●	18.5	25	115	37	78	ST-SC0226	ST-WRT07		
		190-06	●	19	25	115	38	78	ST-SC0226	ST-WRT07		
		195-06	●	19.5	25	119	39	83	ST-SC0226	ST-WRT07		
		200-06	●	20	25	119	40	83	ST-SC0226	ST-WRT07		
		205-06	●	20.5	25	121	41	86	ST-SC0226	ST-WRT07		
		210-06	●	21	25	121	42	86	ST-SC0226	ST-WRT07		
SPMG07T3	SS3D	215-06	●	21.5	25	125	43	89	ST-SC0257	ST-WRT07		
		220-07	●	22	25	123	44	89	ST-SC0257	ST-WRT08		
		225-07	●	22.5	25	127	45	94	ST-SC0257	ST-WRT08		
		230-07	●	23	25	127	46	94	ST-SC0257	ST-WRT08		
		235-07	●	23.5	25	130	47	98	ST-SC0257	ST-WRT08		
		240-07	●	24	25	130	48	98	ST-SC0257	ST-WRT08		
		245-07	●	24.5	25	133	49	102	ST-SC0257	ST-WRT08		
		250-07	●	25	25	133	50	102	ST-SC0257	ST-WRT08		
	255-07	●	25.5	25	135	51	105	ST-SC0257	ST-WRT08			
	260-07	●	26	25	135	52	105	ST-SC0257	ST-WRT08			

SS3D

3xD

SP



SP <input type="checkbox"/> <input type="checkbox"/>	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
SPMG07T3	SS3D	265-07	●	26.5	25	164	79.5	108	ST-SC0257	ST-WRT08		
		270-07	●	27	25	164	81	108	ST-SC0257	ST-WRT08		
		275-07	●	27.5	25	168	82.5	112	ST-SC0257	ST-WRT08		
SPMG0904	SS3D	280-09	●	28	25	168	84	112	ST-SC3511	ST-WRT15		
		285-09	●	28.5	25	171	85.5	115	ST-SC3511	ST-WRT15		
		290-09	●	29	25	171	87	115	ST-SC3511	ST-WRT15		
		295-09	●	29.5	25	177	88.5	121	ST-SC3511	ST-WRT15		
		300-09	●	30	32	181	90	121	ST-SC3511	ST-WRT15		
		310-09	●	31	32	185	93	125	ST-SC3511	ST-WRT15		
		320-09	●	32	32	188	96	128	ST-SC3511	ST-WRT15		
		330-09	●	33	32	192	99	132	ST-SC3511	ST-WRT15		
SPMG1104	SS3D	340-11	●	34	32	195	102	135	ST-SC0411	ST-WRT15		
		350-11	●	35	32	199	105	139	ST-SC0411	ST-WRT15		
		360-11	●	36	32	203	108	143	ST-SC0411	ST-WRT15		
		370-11	●	37	32	207	111	147	ST-SC0411	ST-WRT15		
		380-11	●	38	32	211	114	151	ST-SC0411	ST-WRT15		
		390-11	●	39	32	214	117	154	ST-SC0411	ST-WRT15		
		400-11	●	40	32	218	120	158	ST-SC0411	ST-WRT15		
		410-11	●	41	32	222	123	162	ST-SC0411	ST-WRT15		
SPMG1405	SS3D	420-14	●	42	32	225	126	165	ST-SC0511	ST-WRT20		
		430-14	●	43	32	229	129	169	ST-SC0511	ST-WRT20		
		440-14	●	44	32	232	132	172	ST-SC0511	ST-WRT20		
		450-14	●	45	40	247	135	177	ST-SC0511	ST-WRT20		
		460-14	●	46	40	251	138	181	ST-SC0511	ST-WRT20		
		470-14	●	47	40	254	141	184	ST-SC0511	ST-WRT20		
		480-14	●	48	40	258	144	188	ST-SC0511	ST-WRT20		
		490-14	●	49	40	261	147	191	ST-SC0511	ST-WRT20		
		500-14	●	50	40	265	150	195	ST-SC0511	ST-WRT20		
		510-14	●	51	40	268	153	198	ST-SC0511	ST-WRT20		
		520-14	●	52	40	271	156	201	ST-SC0511	ST-WRT20		
		530-14	●	53	40	274	159	204	ST-SC0511	ST-WRT20		
	540-14	●	54	40	277	162	207	ST-SC0511	ST-WRT20			

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

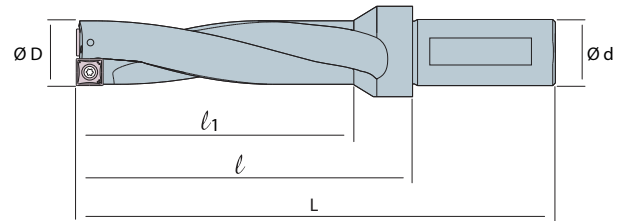
SPARE PARTS



INDEX

SS4D

4xD

SP □□

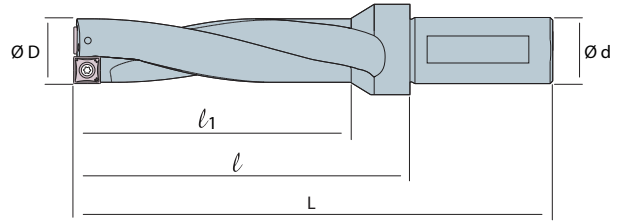


SP□□	DESCRIPTION		STOCK	DIMENSIONS					 ← 			
				ØD	Ød	L	l	l ₁				
SPMG0502	SS4D	125-05	●	12.5	20	120	52	70	ST-SC0206	ST-WRT06		
		130-05	●	13	20	120	52	70	ST-SC0206	ST-WRT06		
		135-05	●	13.5	20	120	52	70	ST-SC0206	ST-WRT06		
		140-05	●	14	20	124	56	76	ST-SC0206	ST-WRT06		
		145-05	●	14.5	20	124	56	76	ST-SC0206	ST-WRT06		
		150-05	●	15	20	128	60	80	ST-SC0206	ST-WRT06		
SPMG0602	SS4D	155-06	●	15.5	20	128	60	80	ST-SC0226	ST-WRT07		
		160-06	●	16	25	140	64	84	ST-SC0226	ST-WRT07		
		165-06	●	16.5	25	140	64	84	ST-SC0226	ST-WRT07		
		170-06	●	17	25	144	68	88	ST-SC0226	ST-WRT07		
		175-06	●	17.5	25	144	68	88	ST-SC0226	ST-WRT07		
		180-06	●	18	25	149	72	92	ST-SC0226	ST-WRT07		
		185-06	●	18.5	25	149	72	92	ST-SC0226	ST-WRT07		
		190-06	●	19	25	153	76	97	ST-SC0226	ST-WRT07		
		195-06	●	19.5	25	153	76	97	ST-SC0226	ST-WRT07		
		200-06	●	20	25	159	80	103	ST-SC0226	ST-WRT07		
		205-06	●	20.5	25	159	80	103	ST-SC0226	ST-WRT07		
		210-06	●	21	25	163	84	107	ST-SC0226	ST-WRT07		
SPMG07T3	SS4D	220-07	●	22	25	167	88	111	ST-SC0257	ST-WRT08		
		225-07	●	22.5	25	167	88	111	ST-SC0257	ST-WRT08		
		230-07	●	23	25	173	92	117	ST-SC0257	ST-WRT08		
		235-07	●	23.5	25	173	92	117	ST-SC0257	ST-WRT08		
		240-07	●	24	25	178	96	122	ST-SC0257	ST-WRT08		
		245-07	●	24.5	25	178	96	122	ST-SC0257	ST-WRT08		
		250-07	●	25	25	183	100	127	ST-SC0257	ST-WRT08		
		255-07	●	25.5	25	183	100	127	ST-SC0257	ST-WRT08		
		260-07	●	26	25	187	104	131	ST-SC0257	ST-WRT08		
		265-07	●	26.5	25	187	104	131	ST-SC0257	ST-WRT08		
		270-07	●	27	25	191	108	135	ST-SC0257	ST-WRT08		
	275-07	●	27.5	25	191	108	135	ST-SC0257	ST-WRT08			

SS4D

4xD

SP



TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

INDEX

SP <input type="checkbox"/> <input type="checkbox"/>	DESCRIPTION		STOCK	DIMENSIONS					←			
				ØD	Ød	L	l	l ₁				
SPMG0904	SS4D	280-09	●	28	25	196	112	140	ST-SC3511	ST-WRT15		
		285-09	●	28.5	25	196	112	140	ST-SC3511	ST-WRT15		
		290-09	●	29	25	200	116	144	ST-SC3511	ST-WRT15		
		295-09	●	29.5	25	200	116	144	ST-SC3511	ST-WRT15		
		300-09	●	30	32	211	120	151	ST-SC3511	ST-WRT15		
		310-09	●	31	32	216	124	156	ST-SC3511	ST-WRT15		
		320-09	●	32	32	220	128	160	ST-SC3511	ST-WRT15		
		330-09	●	33	32	225	132	165	ST-SC3511	ST-WRT15		
		335-09	●	33.5	32	227	134	137	ST-SC0411	ST-WRT15		
SPMG1104	SS4D	340-11	●	34	32	229	136	169	ST-SC0411	ST-WRT15		
		350-11	●	35	32	234	140	174	ST-SC0411	ST-WRT15		
		360-11	●	36	32	239	144	179	ST-SC0411	ST-WRT15		
		370-11	●	37	32	244	148	184	ST-SC0411	ST-WRT15		
		380-11	●	38	32	249	152	189	ST-SC0411	ST-WRT15		
		385-11	●	38.5	32	251	154	191	ST-SC0411	ST-WRT15		
		390-11	●	39	32	253	156	193	ST-SC0411	ST-WRT15		
		400-11	●	40	32	258	160	198	ST-SC0411	ST-WRT15		
		410-11	●	41	32	263	164	203	ST-SC0411	ST-WRT15		
SPMG1405	SS4D	420-14	●	42	32	267	168	207	ST-SC0511	ST-WRT20		
		430-14	●	43	32	272	172	212	ST-SC0511	ST-WRT20		
		440-14	●	44	32	276	176	216	ST-SC0511	ST-WRT20		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

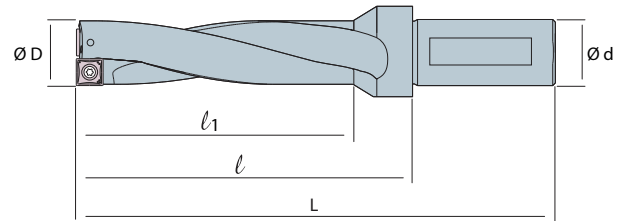
SPARE PARTS



INDEX

SS5D

5xD

SP □□

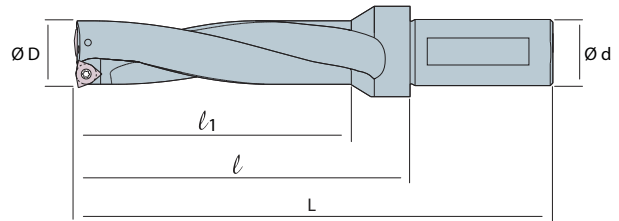


SP□□	DESCRIPTION		STOCK	DIMENSIONS					 ← 			
				ØD	Ød	L	l	l ₁				
SPMG0502	SS5D	130-05	●	13	20	135	65	85	ST-SC0206	ST-WRT06		
		140-05	●	14	20	140	70	90	ST-SC0206	ST-WRT06		
		150-05	●	15	20	145	75	95	ST-SC0206	ST-WRT06		
SPMG0602	SS5D	160-06	●	16	25	156	80	100	ST-SC0226	ST-WRT07		
		170-06	●	17	25	161	85	105	ST-SC0226	ST-WRT07		
		180-06	●	18	25	167	90	111	ST-SC0226	ST-WRT07		
		190-06	●	19	25	172	95	116	ST-SC0226	ST-WRT07		
		200-06	●	20	25	179	100	123	ST-SC0226	ST-WRT07		
		210-06	●	21	25	184	105	128	ST-SC0226	ST-WRT07		
SPMG07T3	SS5D	220-07	●	22	25	189	110	133	ST-SC0257	ST-WRT08		
		230-07	●	23	25	193	115	137	ST-SC0257	ST-WRT08		
		240-07	●	24	25	198	120	142	ST-SC0257	ST-WRT08		
		250-07	●	25	25	203	125	147	ST-SC0257	ST-WRT08		
		260-07	●	26	25	207	130	151	ST-SC0257	ST-WRT08		
		270-07	●	27	25	212	135	156	ST-SC0257	ST-WRT08		
SPMG0904	SS5D	280-09	●	28	25	218	140	162	ST-SC3511	ST-WRT15		
		290-09	●	29	25	222	145	166	ST-SC3511	ST-WRT15		
		300-09	●	30	32	227	150	171	ST-SC3511	ST-WRT15		
		310-09		31	32	245	155	185	ST-SC3511	ST-WRT15		
		320-09		32	32	250	160	190	ST-SC3511	ST-WRT15		
		330-09		33	32	255	165	195	ST-SC3511	ST-WRT15		
SPMG1104	SS5D	340-11		34	32	260	170	200	ST-SC0411	ST-WRT15		
		350-11		35	32	265	175	205	ST-SC0411	ST-WRT15		
		360-11		36	32	270	180	210	ST-SC0411	ST-WRT15		
		370-11		37	32	275	185	215	ST-SC0411	ST-WRT15		
		380-11		38	32	280	190	220	ST-SC0411	ST-WRT15		
		390-11		39	32	285	195	225	ST-SC0411	ST-WRT15		
		400-11		40	32	290	200	230	ST-SC0411	ST-WRT15		

SW2D

2xD

WC□□



WC□□	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
WCMX030208	SW2D	160-03	●	16	25	108	32	52	ST-SC0257	ST-WRT08		
		165-03	●	16.5	25	110	33	54	ST-SC0257	ST-WRT08		
		170-03	●	17	25	110	34	54	ST-SC0257	ST-WRT08		
		175-03	●	17.5	25	113	35	57	ST-SC0257	ST-WRT08		
		180-03	●	18	25	113	36	57	ST-SC0257	ST-WRT08		
		185-03	●	18.5	25	115	37	59	ST-SC0257	ST-WRT08		
		190-03	●	19	25	115	38	59	ST-SC0257	ST-WRT08		
		195-03	●	19.5	25	119	39	63	ST-SC0257	ST-WRT08		
WCMX040208	SW2D	200-04	●	20	25	119	40	63	ST-SC0257	ST-WRT08		
		205-04	●	20.5	25	121	41	65	ST-SC0257	ST-WRT08		
		210-04	●	21	25	121	42	65	ST-SC0257	ST-WRT08		
		215-04	●	21.5	25	123	43	67	ST-SC0257	ST-WRT08		
		220-04	●	22	25	123	44	67	ST-SC0257	ST-WRT08		
		225-04	●	22.5	25	127	45	71	ST-SC0257	ST-WRT08		
		230-04	●	23	25	127	46	71	ST-SC0257	ST-WRT08		
		235-04	●	23.5	25	130	47	74	ST-SC0257	ST-WRT08		
WCMX050308	SW2D	240-05	●	24	25	130	48	74	ST-SC0309	ST-WRT15		
		245-05	●	24.5	25	133	49	77	ST-SC0309	ST-WRT15		
		250-05	●	25	25	133	50	77	ST-SC0309	ST-WRT15		
		255-05	●	25.5	25	135	51	79	ST-SC0309	ST-WRT15		
		260-05	●	26	25	135	52	79	ST-SC0309	ST-WRT15		
		265-05	●	26.5	25	137	53	81	ST-SC0309	ST-WRT15		
		270-05	●	27	25	137	54	81	ST-SC0309	ST-WRT15		
		275-05	●	27.5	25	140	55	84	ST-SC0309	ST-WRT15		
		280-05	●	28	25	140	56	84	ST-SC0309	ST-WRT15		
		285-05	●	28.5	25	142	57	86	ST-SC0309	ST-WRT15		
		290-05	●	29	25	142	58	86	ST-SC0309	ST-WRT15		
WCMX06T308	SW2D	300-06	●	30	32	151	60	91	ST-SC3511	ST-WRT15		
		310-06	●	31	32	154	62	94	ST-SC3511	ST-WRT15		

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

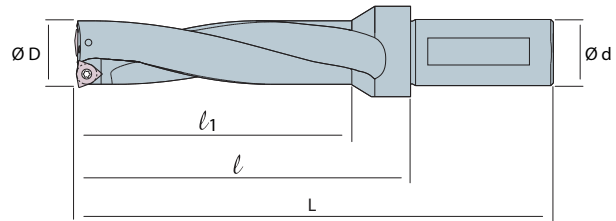
SPARE PARTS

INDEX

SW2D

2xD

WC□□



TURNING

GROOVING

THREADING

MILLING


DRILLING

ENDMILLS

DRILLS

SPARE PARTS

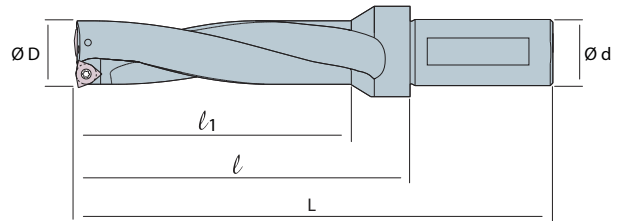
INDEX



WC□□	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
WCMX06T308	SW2D	320-06	●	32	32	156	64	96	ST-SC3511	ST-WRT15		
		330-06	●	33	32	159	66	99	ST-SC3511	ST-WRT15		
		340-06	●	34	32	161	68	101	ST-SC3511	ST-WRT15		
		350-06	●	35	32	164	70	104	ST-SC3511	ST-WRT15		
		360-06	●	36	32	167	72	107	ST-SC3511	ST-WRT15		
		370-06	●	37	32	170	74	110	ST-SC3511	ST-WRT15		
		380-06	●	38	32	173	76	113	ST-SC0411	ST-WRT15		
		390-06	●	39	32	175	78	115	ST-SC3511	ST-WRT15		
		400-06	●	40	32	178	80	118	ST-SC3511	ST-WRT15		
		410-06	●	41	32	181	82	121	ST-SC3511	ST-WRT15		
		420-06	●	42	32	183	84	123	ST-SC3511	ST-WRT15		
		430-06	●	43	32	186	86	126	ST-SC3511	ST-WRT15		
		440-06	●	44	32	188	88	128	ST-SC3511	ST-WRT15		
WCMX080412	SW2D	450-08	●	45	40	202	90	132	ST-SC0411	ST-WRT15		
		460-08	●	46	40	205	92	135	ST-SC0411	ST-WRT15		
		470-08	●	47	40	207	94	137	ST-SC0411	ST-WRT15		
		480-08	●	48	40	210	96	140	ST-SC0411	ST-WRT15		
		490-08	●	49	40	212	98	142	ST-SC0411	ST-WRT15		
		500-08	●	50	40	215	100	145	ST-SC0411	ST-WRT15		
		510-08	●	51	40	217	102	147	ST-SC0411	ST-WRT15		
		520-08	●	52	40	220	104	150	ST-SC0411	ST-WRT15		
		530-08	●	53	40	222	106	152	ST-SC0411	ST-WRT15		
		540-08	●	54	40	225	108	155	ST-SC0411	ST-WRT15		
		550-08	●	55	40	227	110	157	ST-SC0411	ST-WRT15		
		560-08	●	56	40	230	112	160	ST-SC0411	ST-WRT15		
		570-08	●	57	40	232	114	162	ST-SC0411	ST-WRT15		
		580-08	●	58	40	235	116	165	ST-SC0411	ST-WRT15		
		590-08	●	59	40	237	118	167	ST-SC0411	ST-WRT15		
		600-08	●	60	40	240	120	170	ST-SC0411	ST-WRT15		

SW3D

3xD

WC□□



WC□□	DESCRIPTION		STOCK	DIMENSIONS					 ← 			
				ØD	Ød	L	l	l ₁				
WCMX030208	SW3D	160-03	●	16	25	108	32	68	ST-SC0257	ST-WRT08		
		165-03	●	16.5	25	110	33	71	ST-SC0257	ST-WRT08		
		170-03	●	17	25	110	34	71	ST-SC0257	ST-WRT08		
		175-03	●	17.5	25	113	35	75	ST-SC0257	ST-WRT08		
		180-03	●	18	25	113	36	75	ST-SC0257	ST-WRT08		
		185-03	●	18.5	25	115	37	78	ST-SC0257	ST-WRT08		
		190-03	●	19	25	115	38	78	ST-SC0257	ST-WRT08		
		195-03	●	19.5	25	119	39	83	ST-SC0257	ST-WRT08		
WCMX040208	SW3D	200-04	●	20	25	119	40	83	ST-SC0257	ST-WRT08		
		205-04	●	20.5	25	121	41	86	ST-SC0257	ST-WRT08		
		210-04	●	21	25	121	42	86	ST-SC0257	ST-WRT08		
		215-04	●	21.5	25	123	43	89	ST-SC0257	ST-WRT08		
		220-04	●	22	25	123	44	89	ST-SC0257	ST-WRT08		
		225-04	●	22.5	25	127	45	94	ST-SC0257	ST-WRT08		
		230-04	●	23	25	127	46	94	ST-SC0257	ST-WRT08		
		235-04	●	23.5	25	130	47	98	ST-SC0309	ST-WRT15		
WCMX050308	SW3D	240-05	●	24	25	130	48	98	ST-SC0309	ST-WRT15		
		245-05	●	24.5	25	133	49	102	ST-SC0309	ST-WRT15		
		250-05	●	25	25	133	50	102	ST-SC0309	ST-WRT15		
		255-05	●	25.5	25	135	51	105	ST-SC0309	ST-WRT15		
		260-05	●	26	25	135	52	105	ST-SC0309	ST-WRT15		
		265-05	●	26.5	25	137	79.5	108	ST-SC0309	ST-WRT15		
		270-05	●	27	25	137	81	108	ST-SC0309	ST-WRT15		
		275-05	●	27.5	25	140	82.5	112	ST-SC0309	ST-WRT15		
		280-05	●	28	25	140	84	112	ST-SC0309	ST-WRT15		
		285-05	●	28.5	25	142	85.5	115	ST-SC0309	ST-WRT15		
		290-05	●	29	25	142	87	115	ST-SC0309	ST-WRT15		
	295-05	●	29.5	25	151	88.5	121	ST-SC3511	ST-WRT08			
WCMX06T308	SW3D	300-06	●	30	32	151	90	121	ST-SC3511	ST-WRT15		

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THREADING

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DRILLING

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DRILLS

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ENDMILLS

DRILLS

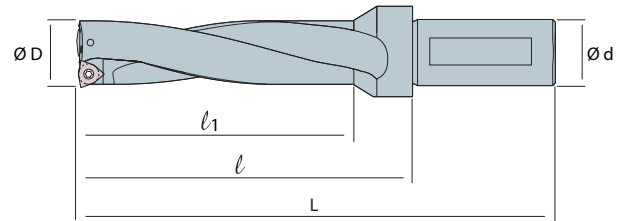
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SW3D

3xD

WC□□

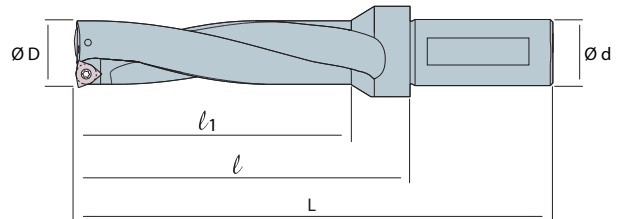


WC□□	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
WCMX06T308	SW3D	310-06	●	31	32	154	93	125	ST-SC3511	ST-WRT15		
		320-06	●	32	32	156	96	128	ST-SC3511	ST-WRT15		
		330-06	●	33	32	159	99	132	ST-SC3511	ST-WRT15		
		340-06	●	34	32	161	102	135	ST-SC3511	ST-WRT15		
		350-06	●	35	32	164	105	139	ST-SC3511	ST-WRT15		
		360-06	●	36	32	167	108	143	ST-SC3511	ST-WRT15		
		370-06	●	37	32	170	111	147	ST-SC3511	ST-WRT15		
		380-06	●	38	32	173	114	151	ST-SC0411	ST-WRT15		
		390-06	●	39	32	175	117	154	ST-SC3511	ST-WRT15		
		400-06	●	40	32	178	120	158	ST-SC3511	ST-WRT15		
		410-06	●	41	32	181	123	162	ST-SC3511	ST-WRT15		
		420-06	●	42	32	183	126	165	ST-SC3511	ST-WRT15		
		430-06	●	43	32	186	129	169	ST-SC3511	ST-WRT15		
	440-06	●	44	32	188	132	172	ST-SC3511	ST-WRT15			
WCMX080412	SW3D	450-08	●	45	40	202	135	177	ST-SC0411	ST-WRT15		
		460-08	●	46	40	205	138	181	ST-SC0411	ST-WRT15		
		470-08	●	47	40	207	141	184	ST-SC0411	ST-WRT15		
		480-08	●	48	40	210	144	188	ST-SC0411	ST-WRT15		
		490-08	●	49	40	212	147	191	ST-SC0411	ST-WRT15		
		500-08	●	50	40	215	150	195	ST-SC0411	ST-WRT15		
		510-08	●	51	40	217	153	198	ST-SC0411	ST-WRT15		
		520-08	●	52	40	220	156	201	ST-SC0411	ST-WRT15		
		530-08	●	53	40	222	159	204	ST-SC0411	ST-WRT15		
		540-08	●	54	40	225	162	207	ST-SC0411	ST-WRT15		
		550-08	●	55	40	227	165	210	ST-SC0411	ST-WRT15		
		560-08	●	56	40	230	168	213	ST-SC0411	ST-WRT15		
		570-08	●	57	40	232	171	216	ST-SC0411	ST-WRT15		
		580-08	●	58	40	235	174	219	ST-SC0411	ST-WRT15		
		590-08	●	59	40	237	177	222	ST-SC0411	ST-WRT15		
		600-08	●	60	40	240	180	225	ST-SC0411	ST-WRT15		

SW4D

4xD

WC□□



WC□□	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
WCMX030208	SW4D	160-03	●	16	25	140	64	84	ST-SC0257	ST-WRT08		
		165-03	●	16.5	25	140	64	84	ST-SC0257	ST-WRT08		
		170-03	●	17	25	144	68	88	ST-SC0257	ST-WRT08		
		175-03	●	17.5	25	144	68	88	ST-SC0257	ST-WRT08		
		180-03	●	18	25	149	72	92	ST-SC0257	ST-WRT08		
		185-03	●	18.5	25	149	72	92	ST-SC0257	ST-WRT08		
		190-03	●	19	25	153	76	97	ST-SC0257	ST-WRT08		
		195-03	●	19.5	25	153	76	97	ST-SC0257	ST-WRT08		
WCMX040208	SW4D	200-04	●	20	25	159	80	103	ST-SC0257	ST-WRT08		
		205-04	●	20.5	25	159	80	103	ST-SC0257	ST-WRT08		
		210-04	●	21	25	163	84	107	ST-SC0257	ST-WRT08		
		215-04	●	21.5	25	163	84	107	ST-SC0257	ST-WRT08		
		220-04	●	22	25	167	88	111	ST-SC0257	ST-WRT08		
		225-04	●	22.5	25	167	88	111	ST-SC0257	ST-WRT08		
		230-04	●	23	25	173	92	117	ST-SC0257	ST-WRT08		
		235-04	●	23.5	25	173	92	117	ST-SC0309	ST-WRT08		
WCMX050308	SW4D	240-05	●	24	25	178	96	122	ST-SC0309	ST-WRT08		
		245-05	●	24.5	25	178	96	122	ST-SC0309	ST-WRT08		
		250-05	●	25	25	183	100	127	ST-SC0309	ST-WRT08		
		255-05	●	25.5	25	183	100	127	ST-SC0309	ST-WRT08		
		260-05	●	26	25	187	104	131	ST-SC0309	ST-WRT08		
		265-05	●	26.5	25	187	104	131	ST-SC0309	ST-WRT08		
		270-05	●	27	25	191	108	135	ST-SC0309	ST-WRT08		
		275-05	●	27.5	25	191	108	135	ST-SC0309	ST-WRT08		
		280-05	●	28	25	196	112	140	ST-SC0309	ST-WRT08		
		285-05	●	28.5	25	196	112	140	ST-SC0309	ST-WRT08		
		290-05	●	29	25	200	116	144	ST-SC0309	ST-WRT08		
	295-05	●	29.5	25	200	116	144	ST-SC0309	ST-WRT08			

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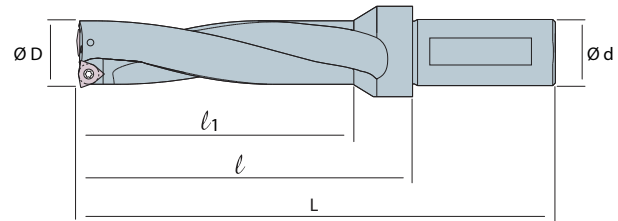
SPARE PARTS

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SW4D

4xD

WC□□

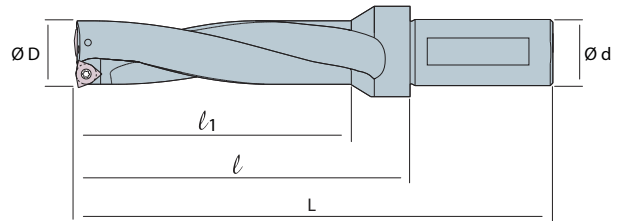




WC□□	DESCRIPTION		STOCK	DIMENSIONS								
				ØD	Ød	L	l	l ₁				
WCMX06T308	SW4D	300-06	●	30	32	211	120	151	ST-SC3511	ST-WRT15		
		310-06	●	31	32	216	124	156	ST-SC3511	ST-WRT15		
		320-06	●	32	32	220	128	160	ST-SC3511	ST-WRT15		
		330-06	●	33	32	225	132	165	ST-SC3511	ST-WRT15		
		335-06	●	33.5	32	227	134	167	ST-SC3511	ST-WRT15		
		340-06	●	34	32	229	136	169	ST-SC3511	ST-WRT15		
		350-06	●	35	32	234	140	174	ST-SC3511	ST-WRT15		
		360-06	●	36	32	239	144	179	ST-SC3511	ST-WRT15		
		370-06	●	37	32	244	148	184	ST-SC3511	ST-WRT15		
		380-06	●	38	32	251	152	189	ST-SC3511	ST-WRT15		
		385-06	●	38.5	32	253	154	191	ST-SC3511	ST-WRT15		
		390-06	●	39	32	258	156	193	ST-SC3511	ST-WRT15		
		400-06	●	40	32	263	160	198	ST-SC3511	ST-WRT15		
	410-06	●	41	32	267	164	203	ST-SC3511	ST-WRT15			
WCMX080412	SW4D	420-08	●	42	32	272	168	207	ST-SC3511	ST-WRT15		
		430-08	●	43	32	276	172	212	ST-SC3511	ST-WRT15		
		440-08	●	44	32	292	176	216	ST-SC0411	ST-WRT15		
		450-08	●	45	32	297	180	222	ST-SC0411	ST-WRT20		
		460-08	●	46	32	301	184	227	ST-SC0411	ST-WRT20		
		470-08	●	47	32	306	188	231	ST-SC0411	ST-WRT20		
		480-08	●	48	32	310	192	236	ST-SC0411	ST-WRT20		
		490-08	●	49	32	315	196	240	ST-SC0411	ST-WRT20		
	500-08	●	50	32	310	200	245	ST-SC0411	ST-WRT20			

SW5D

5xD

WC□□



WC□□	DESCRIPTION		STOCK	DIMENSIONS					 ← 			
				ØD	Ød	L	l	l ₁				
WCMX030208	SW5D	160-03	●	16	25	156	80	100	ST-SC0257	ST-WRT08		
		170-03	●	17	25	161	85	105	ST-SC0257	ST-WRT08		
		180-03	●	18	25	167	90	111	ST-SC0257	ST-WRT08		
		190-03	●	19	25	172	95	116	ST-SC0257	ST-WRT08		
WCMX040208	SW5D	200-04	●	20	25	179	100	123	ST-SC0257	ST-WRT08		
		210-04	●	21	25	184	105	128	ST-SC0257	ST-WRT08		
		220-04	●	22	25	189	110	133	ST-SC0257	ST-WRT08		
		230-04	●	23	25	193	115	137	ST-SC0257	ST-WRT08		
WCMX050308	SW5D	240-05	●	24	25	198	120	142	ST-SC0309	ST-WRT08		
		250-05	●	25	25	203	125	147	ST-SC0309	ST-WRT08		
		260-05	●	26	25	207	130	151	ST-SC0309	ST-WRT08		
		270-05	●	27	25	212	135	156	ST-SC0309	ST-WRT08		
		280-05	●	28	25	218	140	162	ST-SC0309	ST-WRT08		
		290-05	●	29	25	222	145	166	ST-SC0309	ST-WRT08		
WCMX06T308	SW5D	300-06		30	32	227	150	171	ST-SC3511	ST-WRT15		
		310-06		31	32	245	155	185	ST-SC3511	ST-WRT15		
		320-06		32	32	250	160	190	ST-SC3511	ST-WRT15		
		330-06		33	32	255	165	195	ST-SC3511	ST-WRT15		
		340-06		34	32	260	170	200	ST-SC3511	ST-WRT15		
		350-06		35	32	265	175	205	ST-SC3511	ST-WRT15		
		360-06		36	32	270	180	210	ST-SC3511	ST-WRT15		
		370-06		37	32	275	185	215	ST-SC3511	ST-WRT15		
		380-06		38	32	280	190	220	ST-SC3511	ST-WRT15		
		390-06		39	32	285	195	225	ST-SC3511	ST-WRT15		
	400-06		40	32	290	200	230	ST-SC3511	ST-WRT15			

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MILLING

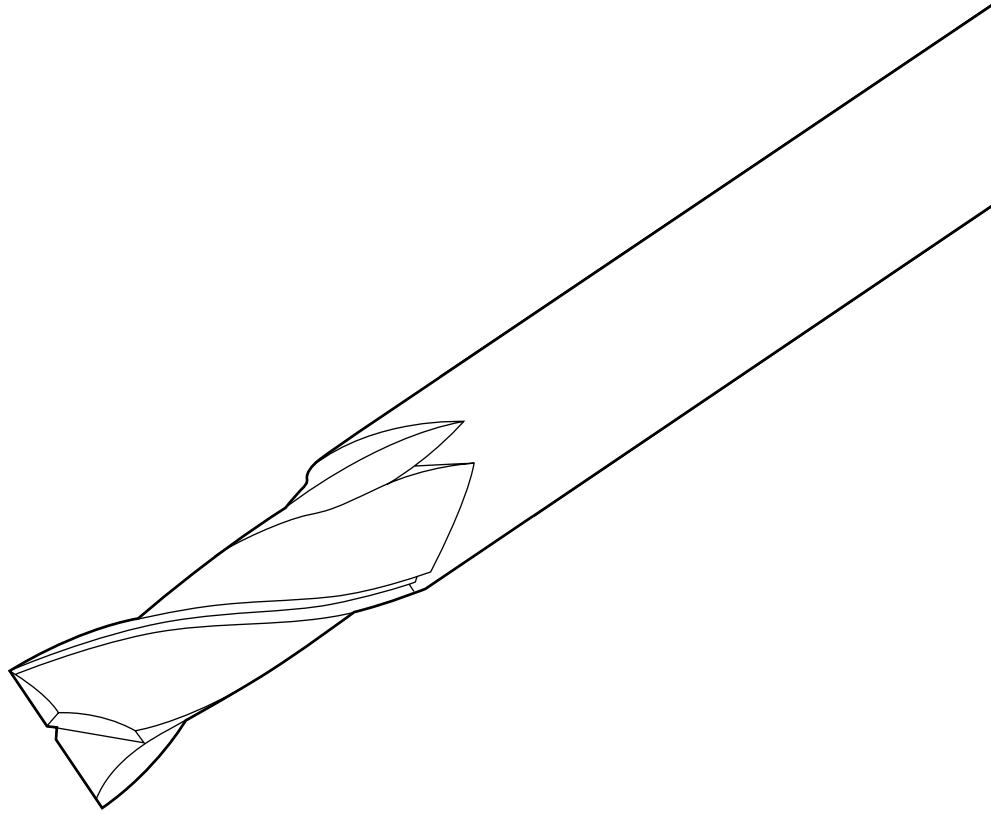
DRILLING

ENDMILLS

DRILLS

SPARE PARTS

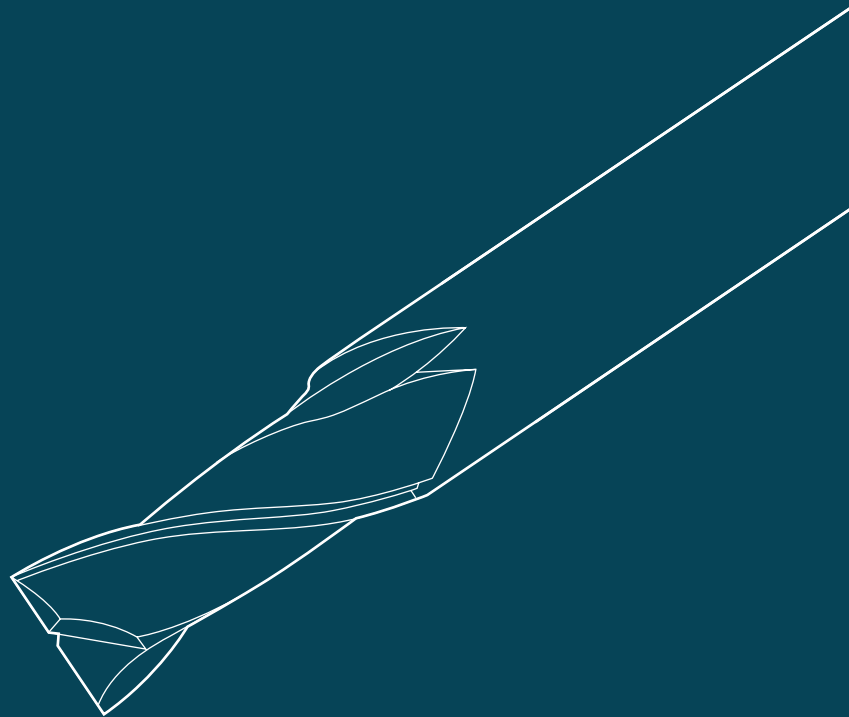
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ENDMILLS/

carbide /373

ENDMILLS / carbide



- TURNING
- GROOVING
- THREADING
- MILLING
- DRILLING
- ENDMILLS
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D X C 4 080 - 050 - 08 - R1

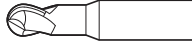
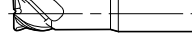

1 Endmill Series

D	Dream
U	Ultra





2 Hardness

G	General (HRC45)
X	Extreme (HRC55)
W	Wrath (HRC68)


3 Type

B	
C	
F	

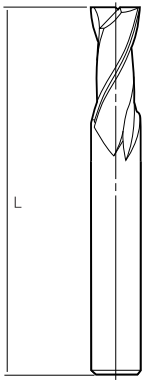
4 Flute

2	
3	
4	
6	

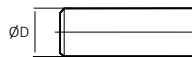
5 Cutting Dia.

...	
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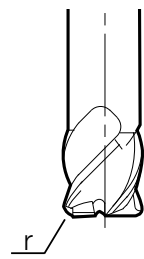
6 Length(mm)

...	
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7 Shaft Dia.

...	
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8 Radius

R..	
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PVD Turning Grades

MATERIAL	GRADE	Color	Operation
P/M/K	Dream General	DARK GRAY	General milling for steel up to 45HrC
			Ultra fine substrate, PVD coating
	Dream Extreme	COPPER	High cutting on hardened steel up to 55HrC
			Ultra fine substrate, PVD coating
	Dream Wraith	DARK BLUE	High cutting on hardened steel up to 68HrC
			Ultra fine substrate, PVD coating
N	Dream Aluminium	GRAY	General milling for aluminium and brass
			Ultra fine substrate

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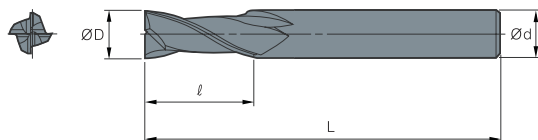
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DGF

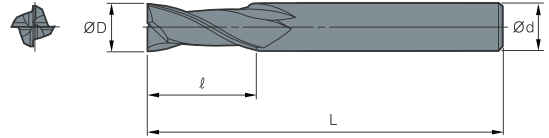
UP TO HRC45



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGF	4010-050-04	●	1	4	3	50	-
	4010-050-06	●	1	6	3	50	-
	4015-050-04	●	1,5	4	4	50	-
	4015-050-06	●	1,5	6	4	50	-
	4020-050-04	●	2	4	6	50	-
	4020-050-06	●	2	6	6	50	-
	4025-050-04	●	2,5	4	8	50	-
	4025-050-06	●	2,5	6	8	50	-
	4030-050-03	●	3	3	8	50	-
	4030-050-04	●	3	4	8	50	-
	4030-050-06	●	3	6	8	50	-
	4035-050-04	●	3,5	4	11	50	-
	4035-050-06	●	3,5	6	11	50	-
	4040-050-04	●	4	4	11	50	-
	4040-050-06	●	4	6	11	50	-
	4040-075-04	●	4	4	20	75	-
	4040-100-04	●	4	4	20	100	-
	4050-050-05	●	5	5	13	50	-
	4050-050-06	●	5	6	13	50	-
	4050-075-05	●	5	5	20	75	-
	4050-100-05	●	5	5	20	100	-
	4060-050-06	●	6	6	15	50	-
	4060-075-06	●	6	6	20	75	-

DGF

UP TO HRC45



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGF	4060-100-06	●	6	6	25	100	-
	4060-150-06	●	6	6	40	150	-
	4070-060-08	●	7	8	20	60	-
	4080-060-08	●	8	8	20	60	-
	4080-075-08	●	8	8	25	75	-
	4080-100-08	●	8	8	40	100	-
	4080-150-08	●	8	8	40	150	-
	4090-075-10	●	9	10	25	75	-
	4100-075-10	●	10	10	25	75	-
	4100-100-10	●	10	10	40	100	-
	4100-150-10	●	10	10	50	150	-
	4120-075-12	●	12	12	30	75	-
	4120-100-12	●	12	12	45	100	-
	4120-150-12	●	12	12	50	150	-
	4140-080-14	●	14	14	40	80	-
	4140-100-14	●	14	14	50	100	-
	4140-150-14	●	14	14	50	150	-
	4160-100-16	●	16	16	45	100	-
	4160-150-16	●	16	16	50	150	-
	4180-100-18	●	18	18	45	100	-
	4180-150-18	●	18	18	50	150	-
	4200-100-20	●	20	20	45	100	-
	4200-150-20	●	20	20	75	150	-

TURNING

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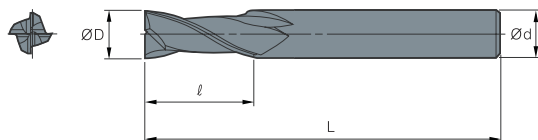
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DXF

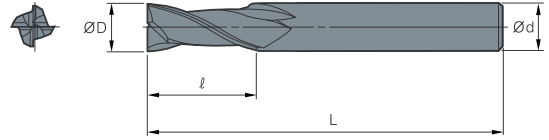
UP TO HRC55



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DXF	4010-050-04	●	1	4	3	50	-
	4010-050-06	●	1	6	3	50	-
	4015-050-04	●	1,5	4	4	50	-
	4015-050-06	●	1,5	6	4	50	-
	4020-050-04	●	2	4	6	50	-
	4020-050-06	●	2	6	6	50	-
	4025-050-04	●	2,5	4	8	50	-
	4025-050-06	●	2,5	6	8	50	-
	4030-050-03	●	3	3	8	50	-
	4030-050-04	●	3	4	8	50	-
	4030-050-06	●	3	6	8	50	-
	4035-050-04	●	3,5	4	11	50	-
	4035-050-06	●	3,5	6	11	50	-
	4040-050-04	●	4	4	11	50	-
	4040-050-06	●	4	6	11	50	-
	4040-075-04	●	4	4	20	75	-
	4040-100-04	●	4	4	20	100	-
	4050-050-05	●	5	5	13	50	-
	4050-050-06	●	5	6	13	50	-
	4050-075-05	●	5	5	20	75	-
	4050-100-05	●	5	5	20	100	-
	4060-050-06	●	6	6	15	50	-
	4060-075-06	●	6	6	20	75	-

DXF

UP TO HRC55



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DXF	4060-100-06	●	6	6	25	100	-
	4060-150-06	●	6	6	40	150	-
	4070-060-08	●	7	8	20	60	-
	4080-060-08	●	8	8	20	60	-
	4080-075-08	●	8	8	25	75	-
	4080-100-08	●	8	8	40	100	-
	4080-150-08	●	8	8	40	150	-
	4090-075-10	●	9	10	25	75	-
	4100-075-10	●	10	10	25	75	-
	4100-100-10	●	10	10	40	100	-
	4100-150-10	●	10	10	50	150	-
	4120-075-12	●	12	12	30	75	-
	4120-100-12	●	12	12	45	100	-
	4120-150-12	●	12	12	50	150	-
	4140-080-14	●	14	14	40	80	-
	4140-100-14	●	14	14	50	100	-
	4140-150-14	●	14	14	50	150	-
	4160-100-16	●	16	16	45	100	-
	4160-150-16	●	16	16	50	150	-
	4180-100-18	●	18	18	45	100	-
4180-150-18	●	18	18	50	150	-	
4200-100-20	●	20	20	45	100	-	
4200-150-20	●	20	20	75	150	-	

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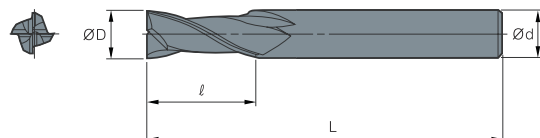
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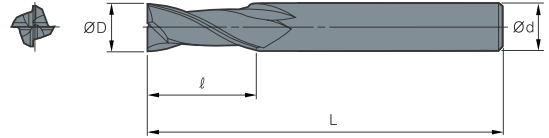
UP TO HRC68



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DWF	4010-050-04	●	1	4	3	50	-
	4010-050-06	●	1	6	3	50	-
	4015-050-04	●	1,5	4	4	50	-
	4015-050-06	●	1,5	6	4	50	-
	4020-050-04	●	2	4	6	50	-
	4020-050-06	●	2	6	6	50	-
	4025-050-04	●	2,5	4	8	50	-
	4025-050-06	●	2,5	6	8	50	-
	4030-050-03	●	3	3	8	50	-
	4030-050-04	●	3	4	8	50	-
	4030-050-06	●	3	6	8	50	-
	4035-050-04	●	3,5	4	11	50	-
	4035-050-06	●	3,5	6	11	50	-
	4040-050-04	●	4	4	11	50	-
	4040-050-06	●	4	6	11	50	-
	4040-075-04	●	4	4	20	75	-
	4040-100-04	●	4	4	20	100	-
	4050-050-05	●	5	5	13	50	-
	4050-050-06	●	5	6	13	50	-
	4050-075-05	●	5	5	20	75	-
	4050-100-05	●	5	5	20	100	-
	4060-050-06	●	6	6	15	50	-
	4060-075-06	●	6	6	20	75	-

DWF

UP TO HRC68



	DESCRIPTION	STOCK	DIMENSIONS				
			øD	ød	l	L	r
DWF	4060-100-06	●	6	6	25	100	-
	4060-150-06	●	6	6	40	150	-
	4070-060-08	●	7	8	20	60	-
	4080-060-08	●	8	8	20	60	-
	4080-075-08	●	8	8	25	75	-
	4080-100-08	●	8	8	40	100	-
	4080-150-08	●	8	8	40	150	-
	4090-075-10	●	9	10	25	75	-
	4100-075-10	●	10	10	25	75	-
	4100-100-10	●	10	10	40	100	-
	4100-150-10	●	10	10	50	150	-
	4120-075-12	●	12	12	30	75	-
	4120-100-12	●	12	12	45	100	-
	4120-150-12	●	12	12	50	150	-
	4140-080-14	●	14	14	40	80	-
	4140-100-14	●	14	14	50	100	-
	4140-150-14	●	14	14	50	150	-
	4160-100-16	●	16	16	45	100	-
	4160-150-16	●	16	16	50	150	-
	4180-100-18	●	18	18	45	100	-
4180-150-18	●	18	18	50	150	-	
4200-100-20	●	20	20	45	100	-	
4200-150-20	●	20	20	75	150	-	

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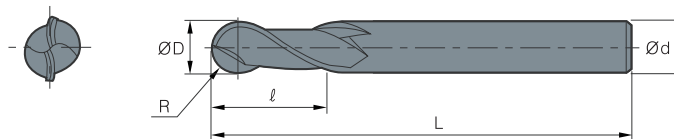
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DGB

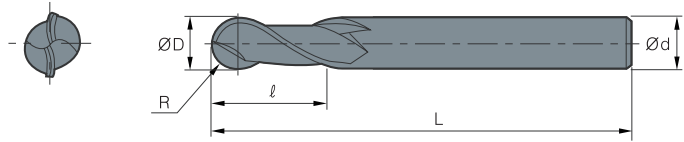
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	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGB	2010-050-04	●	1	4	3	50	-
	2010-050-06	●	1	6	3	50	-
	2015-050-04	●	1,5	4	4	50	-
	2015-050-06	●	1,5	6	4	50	-
	2020-050-04	●	2	4	6	50	-
	2020-050-06	●	2	6	6	50	-
	2025-050-04	●	2,5	4	8	50	-
	2025-050-06	●	2,5	6	8	50	-
	2030-050-03	●	3	3	8	50	-
	2030-050-04	●	3	4	8	50	-
	2030-050-06	●	3	6	8	50	-
	2035-050-04	●	3,5	4	11	50	-
	2035-050-06	●	3,5	6	11	50	-
	2040-050-04	●	4	4	11	50	-
	2040-050-06	●	4	6	11	50	-
	2040-075-04	●	4	4	20	75	-
	2040-100-04	●	4	4	20	100	-
	2050-050-05	●	5	5	13	50	-
	2050-050-06	●	5	6	13	50	-
	2050-075-05	●	5	5	20	75	-
2050-100-05	●	5	5	20	100	-	
2060-050-06	●	6	6	15	50	-	
2060-075-06	●	6	6	20	75	-	

DGB

UP TO HRC45



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
DGB		2060-100-06	●	6	6	25	100	-
		2060-150-06	●	6	6	40	150	-
		2070-060-08	●	7	8	20	60	-
		2080-060-08	●	8	8	20	60	-
		2080-075-08	●	8	8	25	75	-
		2080-150-08	●	8	8	40	150	-
		2090-075-10	●	9	10	25	75	-
		2100-075-10	●	10	10	25	75	-
		2100-100-10	●	10	10	40	100	-
		2100-150-10	●	10	10	50	150	-
		2120-075-12	●	12	12	30	75	-
		2120-100-12	●	12	12	45	100	-
		2120-150-12	●	12	12	50	150	-
		2140-080-14	●	14	14	40	80	-
		2140-100-14	●	14	14	50	100	-
		2140-150-14	●	14	14	50	150	-
		2160-100-16	●	16	16	45	100	-
		2160-150-16	●	16	16	50	150	-
		2180-100-18	●	18	18	45	100	-
		2180-150-18	●	18	18	50	150	-
	2200-100-20	●	20	20	45	100	-	
	2200-150-20	●	20	20	75	150	-	

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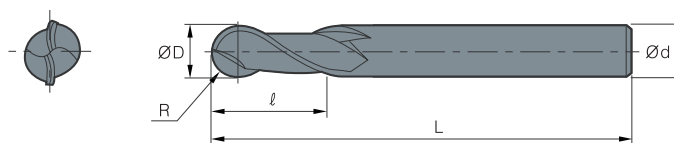
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DXB

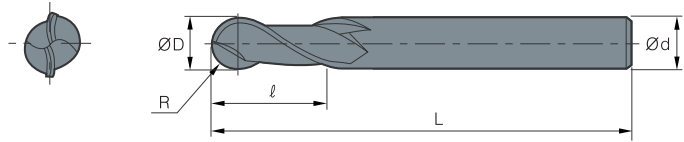
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	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DXB	2010-050-04	●	1	4	3	50	-
	2010-050-06	●	1	6	3	50	-
	2015-050-04	●	1,5	4	4	50	-
	2015-050-06	●	1,5	6	4	50	-
	2020-050-04	●	2	4	6	50	-
	2020-050-06	●	2	6	6	50	-
	2025-050-04	●	2,5	4	8	50	-
	2025-050-06	●	2,5	6	8	50	-
	2030-050-03	●	3	3	8	50	-
	2030-050-04	●	3	4	8	50	-
	2030-050-06	●	3	6	8	50	-
	2035-050-04	●	3,5	4	11	50	-
	2035-050-06	●	3,5	6	11	50	-
	2040-050-04	●	4	4	11	50	-
	2040-050-06	●	4	6	11	50	-
	2040-075-04	●	4	4	20	75	-
	2040-100-04	●	4	4	20	100	-
	2050-050-05	●	5	5	13	50	-
	2050-050-06	●	5	6	13	50	-
	2050-075-05	●	5	5	20	75	-
2050-100-05	●	5	5	20	100	-	
2060-050-06	●	6	6	15	50	-	
2060-075-06	●	6	6	20	75	-	

DXB

UP TO HRC55



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DXB	2060-100-06	●	6	6	25	100	-
		2060-150-06	●	6	6	40	150	-
		2070-060-08	●	7	8	20	60	-
		2080-060-08	●	8	8	20	60	-
		2080-075-08	●	8	8	25	75	-
		2080-150-08	●	8	8	40	150	-
		2090-075-10	●	9	10	25	75	-
		2100-075-10	●	10	10	25	75	-
		2100-100-10	●	10	10	40	100	-
		2100-150-10	●	10	10	50	150	-
		2120-075-12	●	12	12	30	75	-
		2120-100-12	●	12	12	45	100	-
		2120-150-12	●	12	12	50	150	-
		2140-080-14	●	14	14	40	80	-
		2140-100-14	●	14	14	50	100	-
		2140-150-14	●	14	14	50	150	-
		2160-100-16	●	16	16	45	100	-
		2160-150-16	●	16	16	50	150	-
		2180-100-18	●	18	18	45	100	-
		2180-150-18	●	18	18	50	150	-
	2200-100-20	●	20	20	45	100	-	
	2200-150-20	●	20	20	75	150	-	

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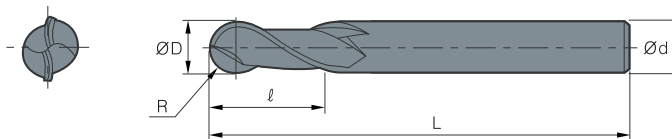
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DWB

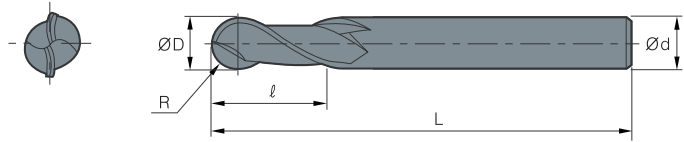
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	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
DWB	2010-050-04	•	1	4	3	50	-	
	2010-050-06	•	1	6	3	50	-	
	2015-050-04	•	1,5	4	4	50	-	
	2015-050-06	•	1,5	6	4	50	-	
	2020-050-04	•	2	4	6	50	-	
	2020-050-06	•	2	6	6	50	-	
	2025-050-04	•	2,5	4	8	50	-	
	2025-050-06	•	2,5	6	8	50	-	
	2030-050-03	•	3	3	8	50	-	
	2030-050-04	•	3	4	8	50	-	
	2030-050-06	•	3	6	8	50	-	
	2035-050-04	•	3,5	4	11	50	-	
	2035-050-06	•	3,5	6	11	50	-	
	2040-050-04	•	4	4	11	50	-	
	2040-050-06	•	4	6	11	50	-	
	2040-075-04	•	4	4	20	75	-	
	2040-100-04	•	4	4	20	100	-	
	2050-050-05	•	5	5	13	50	-	
	2050-050-06	•	5	6	13	50	-	
	2050-075-05	•	5	5	20	75	-	
2050-100-05	•	5	5	20	100	-		
2060-050-06	•	6	6	15	50	-		
2060-075-06	•	6	6	20	75	-		

DWB

UP TO HRC68



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
DWB		2060-100-06	●	6	6	25	100	-
		2060-150-06	●	6	6	40	150	-
		2070-060-08	●	7	8	20	60	-
		2080-060-08	●	8	8	20	60	-
		2080-075-08	●	8	8	25	75	-
		2080-150-08	●	8	8	40	150	-
		2090-075-10	●	9	10	25	75	-
		2100-075-10	●	10	10	25	75	-
		2100-100-10	●	10	10	40	100	-
		2100-150-10	●	10	10	50	150	-
		2120-075-12	●	12	12	30	75	-
		2120-100-12	●	12	12	45	100	-
		2120-150-12	●	12	12	50	150	-
		2140-080-14	●	14	14	40	80	-
		2140-100-14	●	14	14	50	100	-
		2140-150-14	●	14	14	50	150	-
		2160-100-16	●	16	16	45	100	-
		2160-150-16	●	16	16	50	150	-
		2180-100-18	●	18	18	45	100	-
		2180-150-18	●	18	18	50	150	-
	2200-100-20	●	20	20	45	100	-	
	2200-150-20	●	20	20	75	150	-	

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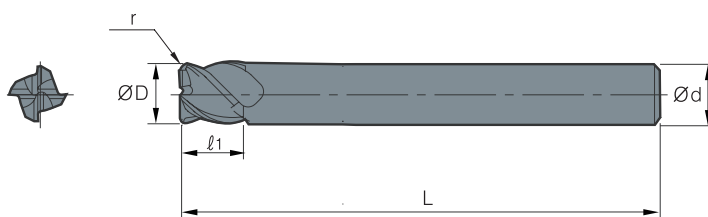
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DGC

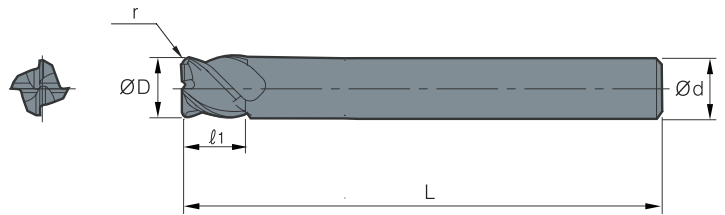
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	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGC	4020-050-04-R0.5	●	2	4	6	50	0.5
	4020-050-06-R0.5	●	2	6	6	50	0.5
	4030-050-03-R0.5	●	3	3	8	50	0.5
	4030-050-03-R1.0	●	3	3	8	50	1.0
	4030-050-04-R0.5	●	3	4	8	50	0.5
	4030-050-04-R1.0	●	3	4	8	50	1.0
	4030-050-06-R0.5	●	3	6	8	50	0.5
	4030-050-06-R1.0	●	3	6	8	50	1.0
	4040-050-04-R0.5	●	4	4	11	50	0.5
	4040-050-04-R1.0	●	4	4	11	50	1.0
	4040-050-06-R0.5	●	4	6	11	50	0.5
	4040-050-06-R1.0	●	4	6	11	50	1.0
	4040-075-04-R0.5	●	4	4	11	75	0.5
	4040-075-04-R1.0	●	4	4	11	75	1.0
	4040-100-04-R0.5	●	4	4	11	100	0.5
	4040-100-04-R1.0	●	4	4	11	100	1.0
	4050-050-05-R0.5	●	5	5	13	50	0.5
	4050-050-05-R1.0	●	5	5	13	50	1.0
	4050-050-06-R0.5	●	5	6	13	50	0.5
	4050-050-06-R1.0	●	5	6	13	50	1.0
	4050-075-05-R0.5	●	5	5	13	75	0.5
	4050-075-05-R1.0	●	5	5	13	75	1.0
	4050-100-05-R0.5	●	5	5	13	100	0.5
	4050-100-05-R1.0	●	5	5	13	100	1.0
	4060-050-06-R0.5	●	6	6	15	50	0.5

DGC

UP TO HRC45



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
	DGC 4060-050-06-R1.0	●	6	6	15	50	1.0
	4060-075-06-R0.5	●	6	6	15	75	0.5
	4060-075-06-R1.0	●	6	6	15	75	1.0
	4060-100-06-R0.5	●	6	6	15	100	0.5
	4060-100-06-R1.0	●	6	6	15	100	1.0
	4060-150-06-R0.5	●	6	6	15	150	0.5
	4060-150-06-R1.0	●	6	6	15	150	1.0
	4070-060-08-R0.5	●	7	8	20	60	0.5
	4070-060-08-R1.0	●	7	8	20	60	1.0
	4080-060-08-R0.5	●	8	8	20	60	0.5
	4080-060-08-R1.0	●	8	8	20	60	1.0
	4080-075-08-R0.5	●	8	8	20	75	0.5
	4080-075-08-R1.0	●	8	8	20	75	1.0
	4080-100-08-R0.5	●	8	8	20	100	0.5
	4080-100-08-R1.0	●	8	8	20	100	1.0
	4080-150-08-R0.5	●	8	8	20	150	0.5
	4080-150-08-R1.0	●	8	8	20	150	1.0
	4090-075-10-R0.5	●	9	10	25	75	0.5
	4090-075-10-R1.0	●	9	10	25	75	1.0
	4100-075-10-R0.5	●	10	10	25	75	0.5
	4100-075-10-R1.0	●	10	10	25	75	1.0
	4100-100-10-R0.5	●	10	10	25	100	0.5
	4100-100-10-R1.0	●	10	10	25	100	1.0
	4100-150-10-R0.5	●	10	10	25	150	0.5
	4100-150-10-R1.0	●	10	10	25	150	1.0

TURNING

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DRILLING

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DRILLS

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TURNING

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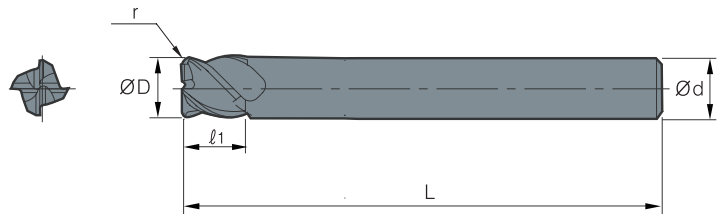
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DGC

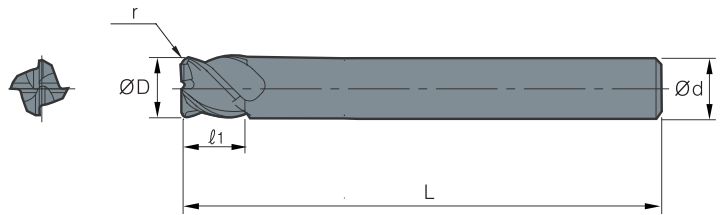
UP TO HRC45



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGC	4120-075-12-R0.5	●	12	12	30	75	0.5
	4120-075-12-R1.0	●	12	12	30	75	1.0
	4120-100-12-R0.5	●	12	12	30	100	0.5
	4120-100-12-R1.0	●	12	12	30	100	1.0
	4120-150-12-R0.5	●	12	12	30	150	0.5
	4120-150-12-R1.0	●	12	12	30	150	1.0
	4140-080-14-R0.5	●	14	14	30	80	0.5
	4140-080-14-R1.0	●	14	14	30	80	1.0
	4140-100-14-R0.5	●	14	14	30	100	0.5
	4140-100-14-R1.0	●	14	14	30	100	1.0
	4140-150-14-R0.5	●	14	14	30	150	0.5
	4140-150-14-R1.0	●	14	14	30	150	1.0
	4160-100-16-R0.5	●	16	16	30	100	0.5
	4160-100-16-R1.0	●	16	16	30	100	1.0
	4160-150-16-R0.5	●	16	16	30	150	0.5
	4160-150-16-R1.0	●	16	16	30	150	1.0
	4180-100-18-R0.5	●	18	18	30	100	0.5
	4180-100-18-R1.0	●	18	18	30	100	1.0
	4180-150-18-R0.5	●	18	18	30	150	0.5
	4180-150-18-R1.0	●	18	18	30	150	1.0
	4200-100-20-R0.5	●	20	20	30	100	0.5
	4200-100-20-R1.0	●	20	20	30	100	1.0
	4200-150-20-R0.5	●	20	20	30	150	0.5
	4200-150-20-R1.0	●	20	20	30	150	1.0

DXC

UP TO HRC55



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DXC	4020-050-04-R0.5	●	2	4	6	50	0.5
	4020-050-06-R0.5	●	2	6	6	50	0.5
	4030-050-03-R0.5	●	3	3	8	50	0.5
	4030-050-03-R1.0	●	3	3	8	50	1.0
	4030-050-04-R0.5	●	3	4	8	50	0.5
	4030-050-04-R1.0	●	3	4	8	50	1.0
	4030-050-06-R0.5	●	3	6	8	50	0.5
	4030-050-06-R1.0	●	3	6	8	50	1.0
	4040-050-04-R0.5	●	4	4	11	50	0.5
	4040-050-04-R1.0	●	4	4	11	50	1.0
	4040-050-06-R0.5	●	4	6	11	50	0.5
	4040-050-06-R1.0	●	4	6	11	50	1.0
	4040-075-04-R0.5	●	4	4	11	75	0.5
	4040-075-04-R1.0	●	4	4	11	75	1.0
	4040-100-04-R0.5	●	4	4	11	100	0.5
	4040-100-04-R1.0	●	4	4	11	100	1.0
	4050-050-05-R0.5	●	5	5	13	50	0.5
	4050-050-05-R1.0	●	5	5	13	50	1.0
	4050-050-06-R0.5	●	5	6	13	50	0.5
	4050-050-06-R1.0	●	5	6	13	50	1.0
	4050-075-05-R0.5	●	5	5	13	75	0.5
	4050-075-05-R1.0	●	5	5	13	75	1.0
	4050-100-05-R0.5	●	5	5	13	100	0.5
	4050-100-05-R1.0	●	5	5	13	100	1.0
4060-050-06-R0.5	●	6	6	15	50	0.5	

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THREADING

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ENDMILLS

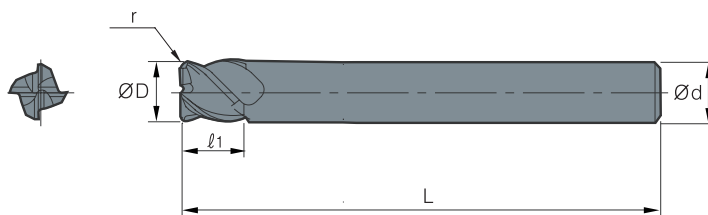
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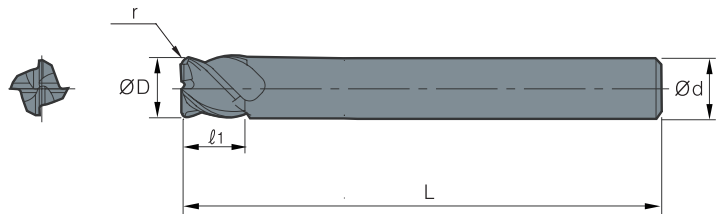


	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DXC	4060-050-06-R1.0	●	6	6	15	50	1.0
	4060-075-06-R0.5	●	6	6	15	75	0.5
	4060-075-06-R1.0	●	6	6	15	75	1.0
	4060-100-06-R0.5	●	6	6	15	100	0.5
	4060-100-06-R1.0	●	6	6	15	100	1.0
	4060-150-06-R0.5	●	6	6	15	150	0.5
	4060-150-06-R1.0	●	6	6	15	150	1.0
	4070-060-08-R0.5	●	7	8	20	60	0.5
	4070-060-08-R1.0	●	7	8	20	60	1.0
	4080-060-08-R0.5	●	8	8	20	60	0.5
	4080-060-08-R1.0	●	8	8	20	60	1.0
	4080-075-08-R0.5	●	8	8	20	75	0.5
	4080-075-08-R1.0	●	8	8	20	75	1.0
	4080-100-08-R0.5	●	8	8	20	100	0.5
	4080-100-08-R1.0	●	8	8	20	100	1.0
	4080-150-08-R0.5	●	8	8	20	150	0.5
	4080-150-08-R1.0	●	8	8	20	150	1.0
	4090-075-10-R0.5	●	9	10	25	75	0.5
	4090-075-10-R1.0	●	9	10	25	75	1.0
	4100-075-10-R0.5	●	10	10	25	75	0.5
4100-075-10-R1.0	●	10	10	25	75	1.0	
4100-100-10-R0.5	●	10	10	25	100	0.5	
4100-100-10-R1.0	●	10	10	25	100	1.0	
4100-150-10-R0.5	●	10	10	25	150	0.5	
4100-150-10-R1.0	●	10	10	25	150	1.0	

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DXC

UP TO HRC55



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DXC	4120-075-12-R0.5	●	12	12	30	75	0.5
	4120-075-12-R1.0	●	12	12	30	75	1.0
	4120-100-12-R0.5	●	12	12	30	100	0.5
	4120-100-12-R1.0	●	12	12	30	100	1.0
	4120-150-12-R0.5	●	12	12	30	150	0.5
	4120-150-12-R1.0	●	12	12	30	150	1.0
	4140-080-14-R0.5	●	14	14	30	80	0.5
	4140-080-14-R1.0	●	14	14	30	80	1.0
	4140-100-14-R0.5	●	14	14	30	100	0.5
	4140-100-14-R1.0	●	14	14	30	100	1.0
	4140-150-14-R0.5	●	14	14	30	150	0.5
	4140-150-14-R1.0	●	14	14	30	150	1.0
	4160-100-16-R0.5	●	16	16	30	100	0.5
	4160-100-16-R1.0	●	16	16	30	100	1.0
	4160-150-16-R0.5	●	16	16	30	150	0.5
	4160-150-16-R1.0	●	16	16	30	150	1.0
	4180-100-18-R0.5	●	18	18	30	100	0.5
	4180-100-18-R1.0	●	18	18	30	100	1.0
	4180-150-18-R0.5	●	18	18	30	150	0.5
	4180-150-18-R1.0	●	18	18	30	150	1.0
4200-100-20-R0.5	●	20	20	30	100	0.5	
4200-100-20-R1.0	●	20	20	30	100	1.0	
4200-150-20-R0.5	●	20	20	30	150	0.5	
4200-150-20-R1.0	●	20	20	30	150	1.0	

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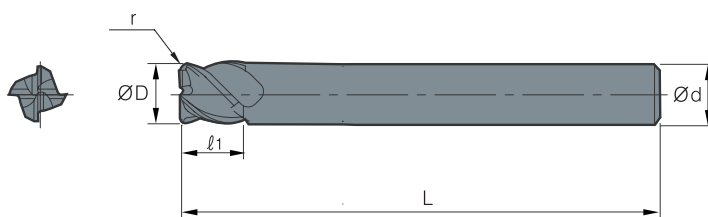
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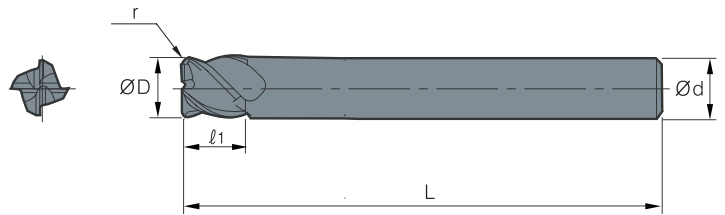
UP TO HRC68



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DWC	4020-050-04-R0.5	●	2	4	6	50	0.5
	4020-050-06-R0.5	●	2	6	6	50	0.5
	4030-050-03-R0.5	●	3	3	8	50	0.5
	4030-050-03-R1.0	●	3	3	8	50	1.0
	4030-050-04-R0.5	●	3	4	8	50	0.5
	4030-050-04-R1.0	●	3	4	8	50	1.0
	4030-050-06-R0.5	●	3	6	8	50	0.5
	4030-050-06-R1.0	●	3	6	8	50	1.0
	4040-050-04-R0.5	●	4	4	11	50	0.5
	4040-050-04-R1.0	●	4	4	11	50	1.0
	4040-050-06-R0.5	●	4	6	11	50	0.5
	4040-050-06-R1.0	●	4	6	11	50	1.0
	4040-075-04-R0.5	●	4	4	11	75	0.5
	4040-075-04-R1.0	●	4	4	11	75	1.0
	4040-100-04-R0.5	●	4	4	11	100	0.5
	4040-100-04-R1.0	●	4	4	11	100	1.0
	4050-050-05-R0.5	●	5	5	13	50	0.5
	4050-050-05-R1.0	●	5	5	13	50	1.0
	4050-050-06-R0.5	●	5	6	13	50	0.5
	4050-050-06-R1.0	●	5	6	13	50	1.0
	4050-075-05-R0.5	●	5	5	13	75	0.5
	4050-075-05-R1.0	●	5	5	13	75	1.0
	4050-100-05-R0.5	●	5	5	13	100	0.5
	4050-100-05-R1.0	●	5	5	13	100	1.0
	4060-050-06-R0.5	●	6	6	15	50	0.5

DWC

UP TO HRC68



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DWC	4060-050-06-R1.0	●	6	6	15	50	1.0
	4060-075-06-R0.5	●	6	6	15	75	0.5
	4060-075-06-R1.0	●	6	6	15	75	1.0
	4060-100-06-R0.5	●	6	6	15	100	0.5
	4060-100-06-R1.0	●	6	6	15	100	1.0
	4060-150-06-R0.5	●	6	6	15	150	0.5
	4060-150-06-R1.0	●	6	6	15	150	1.0
	4070-060-08-R0.5	●	7	8	20	60	0.5
	4070-060-08-R1.0	●	7	8	20	60	1.0
	4080-060-08-R0.5	●	8	8	20	60	0.5
	4080-060-08-R1.0	●	8	8	20	60	1.0
	4080-075-08-R0.5	●	8	8	20	75	0.5
	4080-075-08-R1.0	●	8	8	20	75	1.0
	4080-100-08-R0.5	●	8	8	20	100	0.5
	4080-100-08-R1.0	●	8	8	20	100	1.0
	4080-150-08-R0.5	●	8	8	20	150	0.5
	4080-150-08-R1.0	●	8	8	20	150	1.0
	4090-075-10-R0.5	●	9	10	25	75	0.5
	4090-075-10-R1.0	●	9	10	25	75	1.0
	4100-075-10-R0.5	●	10	10	25	75	0.5
4100-075-10-R1.0	●	10	10	25	75	1.0	
4100-100-10-R0.5	●	10	10	25	100	0.5	
4100-100-10-R1.0	●	10	10	25	100	1.0	
4100-150-10-R0.5	●	10	10	25	150	0.5	
4100-150-10-R1.0	●	10	10	25	150	1.0	

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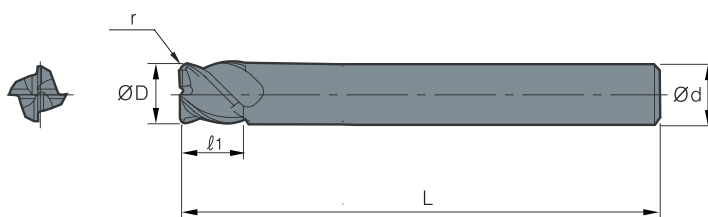
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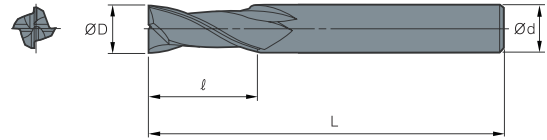


	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DWC	4120-075-12-R0.5	●	12	12	30	75	0.5
	4120-075-12-R1.0	●	12	12	30	75	1.0
	4120-100-12-R0.5	●	12	12	30	100	0.5
	4120-100-12-R1.0	●	12	12	30	100	1.0
	4120-150-12-R0.5	●	12	12	30	150	0.5
	4120-150-12-R1.0	●	12	12	30	150	1.0
	4140-080-14-R0.5	●	14	14	30	80	0.5
	4140-080-14-R1.0	●	14	14	30	80	1.0
	4140-100-14-R0.5	●	14	14	30	100	0.5
	4140-100-14-R1.0	●	14	14	30	100	1.0
	4140-150-14-R0.5	●	14	14	30	150	0.5
	4140-150-14-R1.0	●	14	14	30	150	1.0
	4160-100-16-R0.5	●	16	16	30	100	0.5
	4160-100-16-R1.0	●	16	16	30	100	1.0
	4160-150-16-R0.5	●	16	16	30	150	0.5
	4160-150-16-R1.0	●	16	16	30	150	1.0
	4180-100-18-R0.5	●	18	18	30	100	0.5
	4180-100-18-R1.0	●	18	18	30	100	1.0
	4180-150-18-R0.5	●	18	18	30	150	0.5
	4180-150-18-R1.0	●	18	18	30	150	1.0
	4200-100-20-R0.5	●	20	20	30	100	0.5
	4200-100-20-R1.0	●	20	20	30	100	1.0
	4200-150-20-R0.5	●	20	20	30	150	0.5
	4200-150-20-R1.0	●	20	20	30	150	1.0

DGA

2Z

Uncoated Carbide



	DESCRIPTION		STOCK	DIMENSIONS				
				ØD	Ød	l	L	r
	DGA	2010-050-04	●	1	4	3	50	-
		2010-050-06	●	1	6	3	50	-
		2020-050-04	●	2	4	6	50	-
		2020-050-06	●	2	6	6	50	-
		2030-050-03	●	3	3	8	50	-
		2030-050-04	●	3	4	8	50	-
		2030-050-06	●	3	6	8	50	-
		2040-050-04	●	4	4	11	50	-
		2040-050-06	●	4	6	11	50	-
		2040-075-04	●	4	4	20	75	-
		2040-100-04	●	4	4	20	100	-
		2050-050-05	●	5	5	13	50	-
		2050-050-06	●	5	6	13	50	-
		2050-075-05	●	5	5	20	75	-
		2050-100-05	●	5	5	20	100	-
		2060-050-06	●	6	6	15	50	-
		2060-075-06	●	6	6	20	75	-

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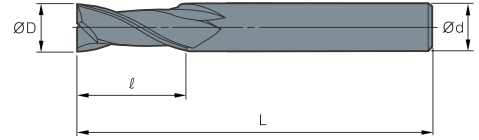
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Uncoated Carbide

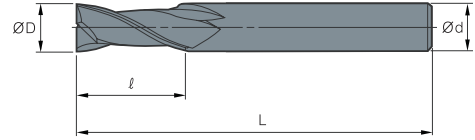



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGA	2060-100-06	•	6	6	25	100	-
	2060-150-06	•	6	6	40	150	-
	2080-060-08	•	8	8	20	60	-
	2080-075-08	•	8	8	25	75	-
	2080-100-08	•	8	8	40	100	-
	2080-150-08	•	8	8	40	150	-
	2100-075-10	•	10	10	25	75	-
	2100-100-10	•	10	10	40	100	-
	2120-075-12	•	12	12	30	75	-
	2120-100-12	•	12	12	45	100	-
	2120-150-12	•	12	12	50	150	-
	2140-080-14	•	14	14	40	80	-
	2140-100-14	•	14	14	50	100	-
	2160-100-16	•	16	16	45	100	-
	2180-100-18	•	18	18	45	100	-
	2200-100-20	•	20	20	45	100	-
2200-150-20	•	20	20	75	150	-	

DGA

3Z

Uncoated Carbide



	DESCRIPTION		STOCK	DIMENSIONS				
				øD	ød	l	L	r
	DGA	3010-050-04	•	1	4	3	50	-
		3010-050-06	•	1	6	3	50	-
		3020-050-04	•	2	4	6	50	-
		3020-050-06	•	2	6	6	50	-
		3030-050-03	•	3	3	8	50	-
		3030-050-04	•	3	4	8	50	-
		3030-050-06	•	3	6	8	50	-
		3040-050-04	•	4	4	11	50	-
		3040-050-06	•	4	6	11	50	-
		3040-075-04	•	4	4	20	75	-
		3040-100-04	•	4	4	20	100	-
		3050-050-05	•	5	5	13	50	-
		3050-050-06	•	5	6	13	50	-
		3050-075-05	•	5	5	20	75	-
		3050-100-05	•	5	5	20	100	-
		3060-050-06	•	6	6	15	50	-
		3060-075-06	•	6	6	20	75	-

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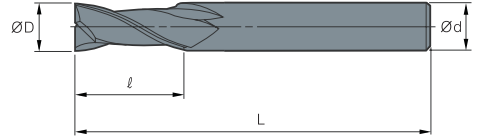
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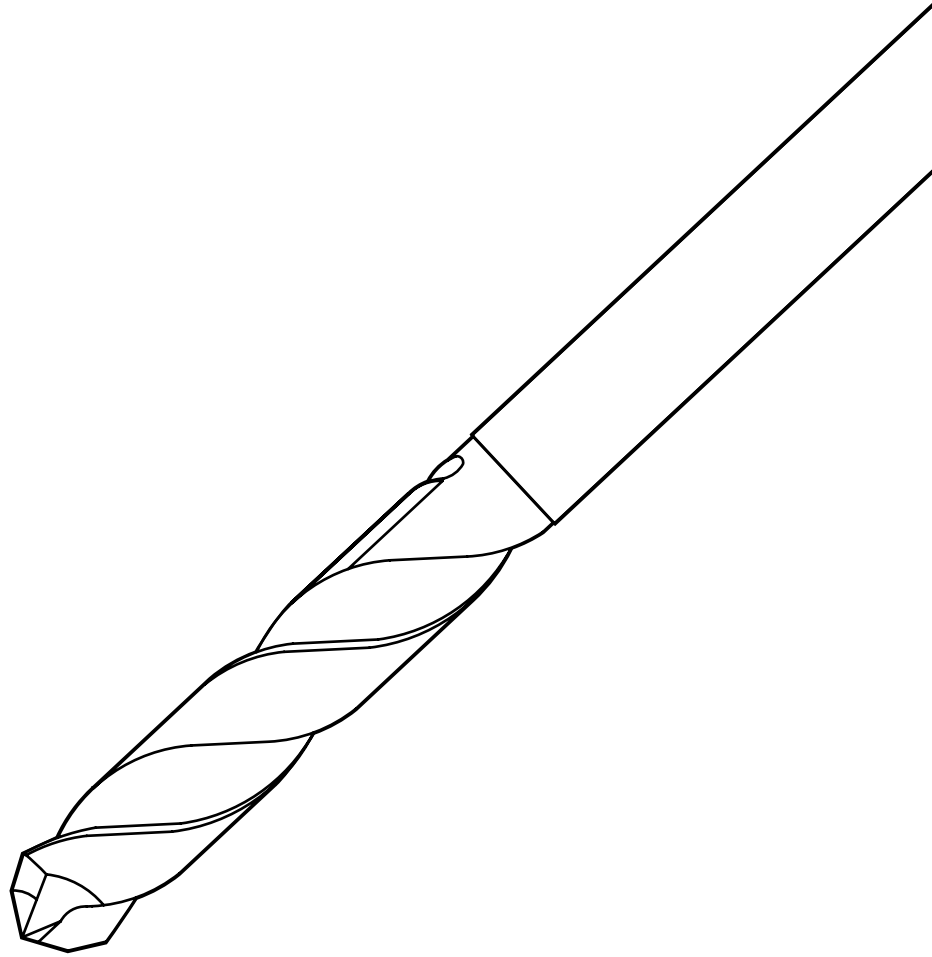
DGA

3Z

Uncoated Carbide



	DESCRIPTION	STOCK	DIMENSIONS				
			ØD	Ød	l	L	r
DGA	3060-100-06	●	6	6	25	100	-
	3060-150-06	●	6	6	40	150	-
	3080-060-08	●	8	8	20	60	-
	3080-075-08	●	8	8	25	75	-
	3080-100-08	●	8	8	40	100	-
	3080-150-08	●	8	8	40	150	-
	3100-075-10	●	10	10	25	75	-
	3100-100-10	●	10	10	40	100	-
	3120-075-12	●	12	12	30	75	-
	3120-100-12	●	12	12	45	100	-
	3120-150-12	●	12	12	50	150	-
	3140-080-14	●	14	14	40	80	-
	3140-100-14	●	14	14	50	100	-
	3160-100-16	●	16	16	45	100	-
	3180-100-18	●	18	18	45	100	-
	3200-100-20	●	20	20	45	100	-
	3200-150-20	●	20	20	75	150	-



DRILLS/

carbide /361

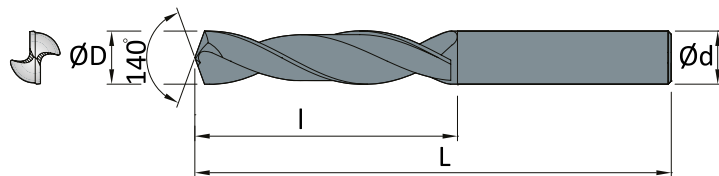
DRILLS / carbide



- TURNING
- GROOVING
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- DRILLS
- SPARE PARTS
- INDEX

DSD

3XD



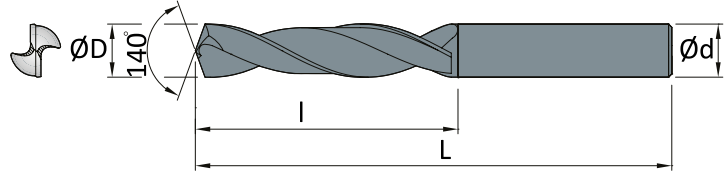
DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	Ød
DSD 2010-35-3	●	1.0	7	35	3
2011-35-3	●	1.1	7	35	3
2012-35-3	●	1.2	8	35	3
2013-35-3	●	1.3	8	35	3
2014-35-3	●	1.4	9	35	3
2015-40-3	●	1.5	9	40	3
2016-40-3	●	1.6	10	40	3
2017-40-3	●	1.7	10	40	3
2018-40-3	●	1.8	11	40	3
2019-40-3	●	1.9	11	40	3
2020-45-3	●	2.0	13	45	3
2021-45-3	●	2.1	13	45	3
2022-45-3	●	2.2	13	45	3
2023-45-3	●	2.3	13	45	3
2024-45-3	●	2.4	15	45	3
2025-50-3	●	2.5	15	50	3
2026-50-3	●	2.6	15	50	3
2027-50-3	●	2.7	17	50	3
2028-50-3	●	2.8	17	50	3
2029-50-3	●	2.9	17	50	3
2030-62-6	●	3.0	20	62	6
2031-62-6	●	3.1	20	62	6
2032-62-6	●	3.2	20	62	6
2033-62-6	●	3.3	20	62	6
2034-62-6	●	3.4	20	62	6
2035-62-6	●	3.5	20	62	6

DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	Ød
DSD 2036-62-6	●	3.6	20	62	6
2037-62-6	●	3.7	20	62	6
2038-66-6	●	3.8	24	66	6
2039-66-6	●	3.9	24	66	6
2040-66-6	●	4.0	24	66	6
2041-66-6	●	4.1	24	66	6
2042-66-6	●	4.2	24	66	6
2043-66-6	●	4.3	24	66	6
2044-66-6	●	4.4	24	66	6
2045-66-6	●	4.5	24	66	6
2046-66-6	●	4.6	24	66	6
2047-66-6	●	4.7	24	66	6
2048-66-6	●	4.8	28	66	6
2049-66-6	●	4.9	28	66	6
2050-66-6	●	5.0	28	66	6
2051-66-6	●	5.1	28	66	6
2052-66-6	●	5.2	28	66	6
2053-66-6	●	5.3	28	66	6
2054-66-6	●	5.4	28	66	6
2055-66-6	●	5.5	28	66	6
2056-66-6	●	5.6	28	66	6
2057-66-6	●	5.7	28	66	6
2058-66-6	●	5.8	28	66	6
2059-66-6	●	5.9	28	66	6
2060-66-6	●	6.0	28	66	6
2061-79-8	●	6.1	34	79	8

DRILLS

DSD

3XD



DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	ød
DSD 2062-79-8	●	6.2	34	79	8
2063-79-8	●	6.3	34	79	8
2064-79-8	●	6.4	34	79	8
2065-79-8	●	6.5	34	79	8
2066-79-8	●	6.6	34	79	8
2067-79-8	●	6.7	34	79	8
2068-79-8	●	6.8	34	79	8
2069-79-8	●	6.9	34	79	8
2070-79-8	●	7.0	34	79	8
2071-79-8	●	7.1	41	79	8
2072-79-8	●	7.2	41	79	8
2073-79-8	●	7.3	41	79	8
2074-79-8	●	7.4	41	79	8
2075-79-8	●	7.5	41	79	8
2076-79-8	●	7.6	41	79	8
2077-79-8	●	7.7	41	79	8
2078-79-8	●	7.8	41	79	8
2079-79-8	●	7.9	41	79	8
2080-79-8	●	8.0	41	79	8
2081-89-10	●	8.1	47	89	10
2082-89-10	●	8.2	47	89	10
2083-89-10	●	8.3	47	89	10
2084-89-10	●	8.4	47	89	10
2085-89-10	●	8.5	47	89	10
2086-89-10	●	8.6	47	89	10
2087-89-10	●	8.7	47	89	10

DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	ød
DSD 2088-89-10	●	8.8	47	89	10
2089-89-10	●	8.9	47	89	10
2090-89-10	●	9.0	47	89	10
2091-89-10	●	9.1	47	89	10
2092-89-10	●	9.2	47	89	10
2093-89-10	●	9.3	47	89	10
2094-89-10	●	9.4	47	89	10
2095-89-10	●	9.5	47	89	10
2096-89-10	●	9.6	47	89	10
2097-89-10	●	9.7	47	89	10
2098-89-10	●	9.8	47	89	10
2099-89-10	●	9.9	47	89	10
2100-89-10	●	10.0	47	89	10
2101-102-12	●	10.1	55	102	12
2102-102-12	●	10.2	55	102	12
2103-102-12	●	10.3	55	102	12
2104-102-12	●	10.4	55	102	12
2105-102-12	●	10.5	55	102	12
2106-102-12	●	10.6	55	102	12
2107-102-12	●	10.7	55	102	12
2108-102-12	●	10.8	55	102	12
2109-102-12	●	10.9	55	102	12
2110-102-12	●	11.0	55	102	12
2111-102-12	●	11.1	55	102	12
2112-102-12	●	11.2	55	102	12
2113-102-12	●	11.3	55	102	12

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

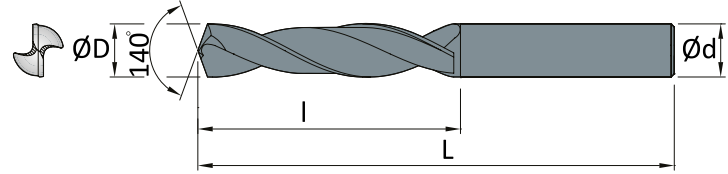
SPARE PARTS

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DSD

3XD



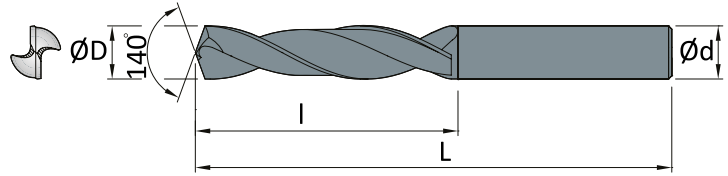
DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	Ød
DSD					
2114-102-12	•	11.4	55	102	12
2115-102-12	•	11.5	55	102	12
2116-102-12	•	11.6	55	102	12
2117-102-12	•	11.7	55	102	12
2118-102-12	•	11.8	55	102	12
2119-102-12	•	11.9	55	102	12
2120-102-12	•	12.0	55	102	12
2121-107-14	•	12.1	60	107	14
2122-107-14	•	12.2	60	107	14
2123-107-14	•	12.3	60	107	14
2124-107-14	•	12.4	60	107	14
2125-107-14	•	12.5	60	107	14
2126-107-14	•	12.6	60	107	14
2127-107-14	•	12.7	60	107	14
2128-107-14	•	12.8	60	107	14
2129-107-14	•	12.9	60	107	14
2130-107-14	•	13.0	60	107	14
2131-107-14	•	13.1	60	107	14
2132-107-14	•	13.2	60	107	14
2133-107-14	•	13.3	60	107	14
2134-107-14	•	13.4	60	107	14
2135-107-14	•	13.5	60	107	14
2140-107-14	•	14.0	60	107	14
2145-115-16	•	14.5	65	115	16
2150-115-16	•	15.0	65	115	16
2155-115-16	•	15.5	65	115	16

DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	Ød
DSD					
2160-115-16	•	16.0	65	115	16
2165-123-18	•	16.5	73	123	18
2170-123-18	•	17.0	73	123	18
2175-123-18	•	17.5	73	123	18
2180-123-18	•	18.0	73	123	18
2185-131-20	•	18.5	79	131	20
2190-131-20	•	19.0	79	131	20
2195-131-20	•	19.5	79	131	20
2200-131-20	•	20.0	79	131	20
2210-151-25	•	21.0	93	151	25
2220-151-25	•	22.0	93	151	25
2230-153-25	•	23.0	96	153	25
2240-153-25	•	24.0	96	153	25
2250-153-25	•	25.0	96	153	25

DRILLS

DLD

5XD



DESCRIPTION	STOCK	DIMENSIONS				
		ØD	l	L	Ød	
DLD	2010-38-3	•	1.0	9	38	3
	2011-38-3	•	1.1	9	38	3
	2012-38-3	•	1.2	11	38	3
	2013-38-3	•	1.3	11	38	3
	2014-38-3	•	1.4	12	38	3
	2015-45-3	•	1.5	12	45	3
	2016-45-3	•	1.6	14	45	3
	2017-45-3	•	1.7	14	45	3
	2018-45-3	•	1.8	16	45	3
	2019-45-3	•	1.9	16	45	3
	2020-50-3	•	2.0	18	50	3
	2021-50-3	•	2.1	18	50	3
	2022-52-3	•	2.2	20	52	3
	2023-52-3	•	2.3	20	52	3
	2024-52-3	•	2.4	22	52	3
	2025-56-3	•	2.5	22	56	3
	2026-56-3	•	2.6	22	56	3
	2027-56-3	•	2.7	23	56	3
	2028-56-3	•	2.8	23	56	3
	2029-56-3	•	2.9	23	56	3
	2030-66-6	•	3.0	28	66	6
	2031-66-6	•	3.1	28	66	6
	2032-66-6	•	3.2	28	66	6
	2033-66-6	•	3.3	28	66	6
	2034-66-6	•	3.4	28	66	6
	2035-66-6	•	3.5	28	66	6

DESCRIPTION	STOCK	DIMENSIONS				
		ØD	l	L	Ød	
DLD	2036-74-6	•	3.6	36	74	6
	2037-74-6	•	3.7	36	74	6
	2038-74-6	•	3.8	36	74	6
	2039-74-6	•	3.9	36	74	6
	2040-74-6	•	4.0	36	74	6
	2041-74-6	•	4.1	36	74	6
	2042-74-6	•	4.2	36	74	6
	2043-74-6	•	4.3	36	74	6
	2044-74-6	•	4.4	36	74	6
	2045-74-6	•	4.5	36	74	6
	2046-74-6	•	4.6	36	74	6
	2047-74-6	•	4.7	36	74	6
	2048-82-6	•	4.8	44	82	6
	2049-82-6	•	4.9	44	82	6
	2050-82-6	•	5.0	44	82	6
	2051-82-6	•	5.1	44	82	6
	2052-82-6	•	5.2	44	82	6
	2053-82-6	•	5.3	44	82	6
	2054-82-6	•	5.4	44	82	6
	2055-82-6	•	5.5	44	82	6
	2056-82-6	•	5.6	44	82	6
	2057-82-6	•	5.7	44	82	6
	2058-82-6	•	5.8	44	82	6
	2059-82-6	•	5.9	44	82	6
	2060-82-6	•	6.0	44	82	6
	2061-91-8	•	6.1	53	91	8

TURNING

GROOVING

THREADING

MILLING

DRILLING

ENDMILLS

DRILLS

SPARE PARTS

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TURNING

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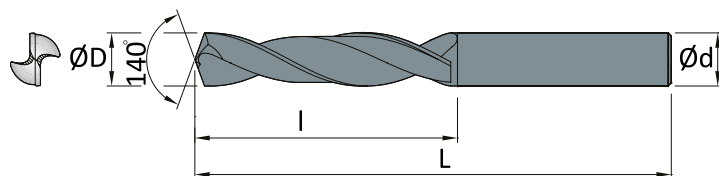
DRILLS

SPARE PARTS

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DLD

5XD



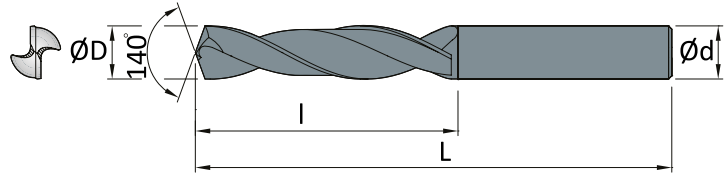
DESCRIPTION	STOCK	DIMENSIONS			
		ØD	L	L	Ød
DLD					
2062-91-8	●	6.2	53	91	8
2063-91-8	●	6.3	53	91	8
2064-91-8	●	6.4	53	91	8
2065-91-8	●	6.5	53	91	8
2066-91-8	●	6.6	53	91	8
2067-91-8	●	6.7	53	91	8
2068-91-8	●	6.8	53	91	8
2069-91-8	●	6.9	53	91	8
2070-91-8	●	7.0	53	91	8
2071-91-8	●	7.1	53	91	8
2072-91-8	●	7.2	53	91	8
2073-91-8	●	7.3	53	91	8
2074-91-8	●	7.4	53	91	8
2075-91-8	●	7.5	53	91	8
2076-91-8	●	7.6	53	91	8
2077-91-8	●	7.7	53	91	8
2078-91-8	●	7.8	53	91	8
2079-91-8	●	7.9	53	91	8
2080-91-8	●	8.0	53	91	8
2081-103-10	●	8.1	61	103	10
2082-103-10	●	8.2	61	103	10
2083-103-10	●	8.3	61	103	10
2084-103-10	●	8.4	61	103	10
2085-103-10	●	8.5	61	103	10
2086-103-10	●	8.6	61	103	10
2087-103-10	●	8.7	61	103	10

DESCRIPTION	STOCK	DIMENSIONS			
		ØD	L	L	Ød
DLD					
2088-103-10	●	8.8	61	103	10
2089-103-10	●	8.9	61	103	10
2090-103-10	●	9.0	61	103	10
2091-103-10	●	9.1	61	103	10
2092-103-10	●	9.2	61	103	10
2093-103-10	●	9.3	61	103	10
2094-103-10	●	9.4	61	103	10
2095-103-10	●	9.5	61	103	10
2096-103-10	●	9.6	61	103	10
2097-103-10	●	9.7	61	103	10
2098-103-10	●	9.8	61	103	10
2099-103-10	●	9.9	61	103	10
2100-103-10	●	10.0	61	103	10
2101-118-12	●	10.1	71	118	12
2102-118-12	●	10.2	71	118	12
2103-118-12	●	10.3	71	118	12
2104-118-12	●	10.4	71	118	12
2105-118-12	●	10.5	71	118	12
2106-118-12	●	10.6	71	118	12
2107-118-12	●	10.7	71	118	12
2108-118-12	●	10.8	71	118	12
2109-118-12	●	10.9	71	118	12
2110-118-12	●	11.0	71	118	12
2111-118-12	●	11.1	71	118	12
2112-118-12	●	11.2	71	118	12
2113-118-12	●	11.3	71	118	12

DRILLS

DLD

5XD



DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	Ød
DLD					
2114-118-12	●	11.4	71	118	12
2115-118-12	●	11.5	71	118	12
2116-118-12	●	11.6	71	118	12
2117-118-12	●	11.7	71	118	12
2118-118-12	●	11.8	71	118	12
2119-118-12	●	11.9	71	118	12
2120-118-12	●	12.0	71	118	12
2121-124-14	●	12.1	77	124	14
2122-124-14	●	12.2	77	124	14
2123-124-14	●	12.3	77	124	14
2124-124-14	●	12.4	77	124	14
2125-124-14	●	12.5	77	124	14
2126-124-14	●	12.6	77	124	14
2127-124-14	●	12.7	77	124	14
2128-124-14	●	12.8	77	124	14
2129-124-14	●	12.9	77	124	14
2130-124-14	●	13.0	77	124	14
2131-124-14	●	13.1	77	124	14
2132-124-14	●	13.2	77	124	14
2133-124-14	●	13.3	77	124	14
2134-124-14	●	13.4	77	124	14
2135-124-14	●	13.5	77	124	14
2140-124-14	●	14.0	77	124	14
2145-133-16	●	14.5	83	133	16
2150-133-16	●	15.0	83	133	16
2155-133-16	●	15.5	83	133	16

DESCRIPTION	STOCK	DIMENSIONS			
		ØD	I	L	Ød
DLD					
2160-133-16	●	16.0	83	133	16
2165-143-18	●	16.5	93	143	18
2170-143-18	●	17.0	93	143	18
2175-143-18	●	17.5	93	143	18
2180-143-18	●	18.0	93	143	18
2185-153-20	●	18.5	101	153	20
2190-153-20	●	19.0	101	153	20
2195-153-20	●	19.5	101	153	20
2200-153-20	●	20.0	101	153	20
2210-200-25	●	21.0	140	200	25
2220-200-25	●	22.0	140	200	25
2230-200-25	●	23.0	140	200	25
2240-200-25	●	24.0	140	200	25
2250-200-25	●	25.0	140	200	25

TURNING

GROOVING

THREADING

MILLING

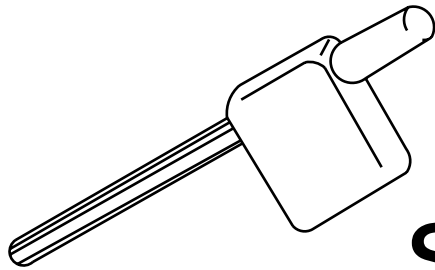
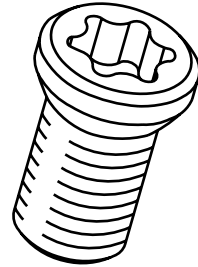
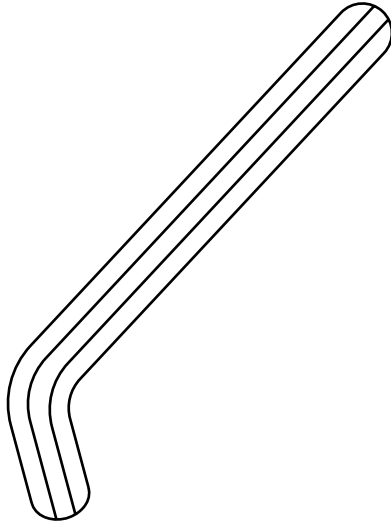
DRILLING

ENDMILLS

DRILLS

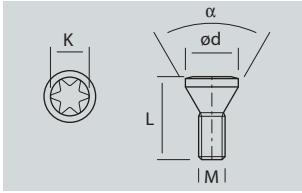
SPARE PARTS

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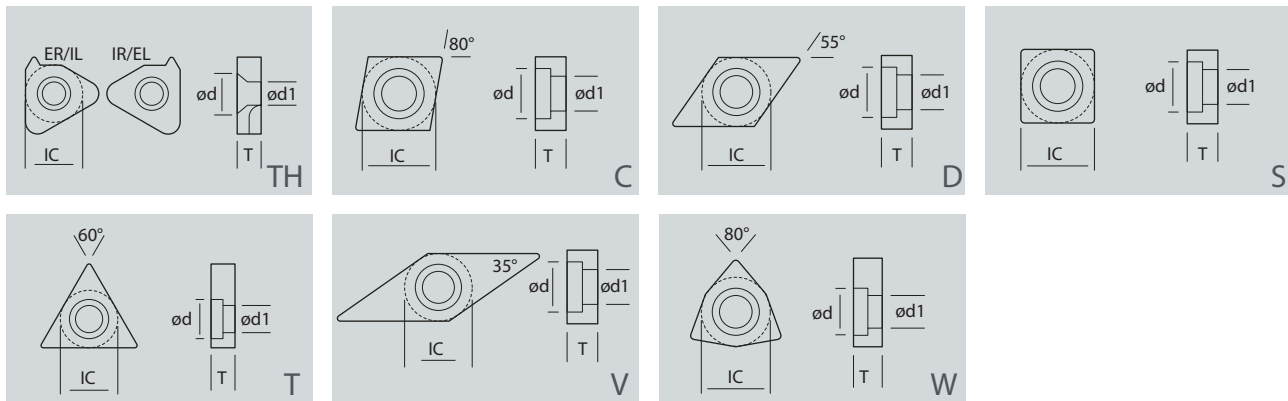
SPARE PARTS/

INSERTS CLAMPING SCREW



DESCRIPTION	d	M	L	α	K	TORQUE (Nm)
ST-SC1804	2.60	M1.8 x 0.40	4.00	60°	T6	0.50
ST-SC0206	2.70	M2.0 x 0.40	6.00	60°	T6	0.50
ST-SC0226	3.10	M2.2 x 0.45	6.00	60°	T7	0.80
ST-SC0257	3.10	M2.5 x 0.45	7.00	60°	T7	0.80
ST-SC0309	4.30	M3.0 x 0.50	9.00	90°	T10	1.40
ST-SC3511	5.30	M3.5 x 0.60	11.0	60°	T15	3.50
ST-SC3514	5.30	M3.5 x 0.60	14.0	60°	T15	3.50
ST-SC3507	5.30	M3.5 x 0.60	7.00	60°	T15	3.50
ST-SC0411	5.50	M4.0 x 0.70	11.0	60°	T15	3.50
ST-SC0416	5.50	M4.0 x 0.70	16.0	60°	T15	3.50
ST-SC0415	5.50	M4.0 x 0.70	15.0	60°	T15	3.50
ST-SC4516	6.20	M4.5 x 0.75	16.0	60°	T15	3.50
ST-SC0513	7.00	M5.0 x 0.80	13.0	60°	T20	4.50
ST-SC0511	7.00	M5.0 x 0.80	11.0	60°	T20	4.50
ST-SC0512	7.00	M5.0 x 0.80	12.0	60°	T20	4.50
ST-SC0616	8.00	M6.0 x 1.00	16.0	60°	T20	4.50
ST-SC0523	7.00	M5.0 x 0.80	23.0	60°	T20	4.50
ST-SC0525	7.00	M5.0 x 0.80	25.0	60°	T20	4.50
ST-SC0630	8.00	M6.0 x 1.00	30.0	60°	T20	4.50
ST-SC6307	8.00	M6.0 x 1.00	30.0	90°	T20	4.50
ST-SC0830	9.50	M8.0 x 1.25	30.0	60°	T20	5.50
ST-SC6301	8.00	M6.0 x 1.00	30.0	90°	T20	4.50
ST-SC420	5.50	M4.0 x 0.70	20.0	60°	T15	3.50
ST-SC512	7.00	M5.0 x 0.80	12.0	60°	T20	4.50
ST-SC625	8.00	M6.0 x 1.00	25.0	60°	T20	4.50
ST-SC8301	9.50	M8.0 x 1.25	30.0	90°	T20	5.50
ST-SC610	8.00	M6.0 x 1.00	10.0	90°	T20	4.50
ST-SC810	9.50	M8.0 x 1.25	10.0	60°	T20	5.50

SHIM



DESCRIPTION	IC	T	Ød	Ød1	INSERT	DRAWING
ST-SHDN11	8.50	3.20	6.60	5.20	DC 11, DN 11	ref. D
ST-SHDN15	12.50	3.20	8.40	6.70	DN 1506	ref. D
ST-SHCN12	12.50	3.20	8.40	6.70	CN 12	ref. C
ST-SHCN16	15.50	4.80	10.80	9.70	CN 16	ref. C
ST-SHCN19	18.70	4.80	13.10	11.20	CN 19	ref. C
ST-SHWN08	12.20	4.80	8.00	7.30	WN 08	ref. W
ST-SHSN12	12.30	4.80	8.00	7.30	SN 12	ref. S
ST-SHSN19	18.70	4.80	13.10	11.20	SN 19	ref. S
ST-SHTN16	9.30	3.20	6.60	5.80	TN 16	ref. T
ST-SHTN22	18.70	4.80	8.00	7.30	TN 22	ref. T
ST-SHVN16	9.20	3.20	6.60	5.80	VN 16	ref. V
ST-SHDC11	8.50	3.20	6.60	5.20	DC 11	ref. D
ST-SHSC09	12.20	4.80	8.00	7.30	SC 09	ref. S
ST-SHSC12	11.40	3.90	8.40	6.70	SC 12	ref. S
ST-SHCC09	8.50	3.20	6.60	5.20	CC 09	ref. C
ST-SHCC12	11.40	3.90	8.40	6.70	CC 12	ref. C
ST-SHVB16	8.20	3.20	6.60	5.40	VB 16	ref. V
ST-SHTC16	9.10	3.20	6.60	4.50	TC 16	ref. T
ST-SHVC16	8.20	3.20	6.60	5.40	VC 16	ref. V
ST-SHKNR/L	11.40	3.20	6.60	7.30	KN 16	ref. K
ST-SHEI16	9.50	3.20	6.00	4.20	16ER/16IR	ref. TH
ST-SHEI22	18.70	4.80	8.00	7.30	22ER/22IR	ref. TH

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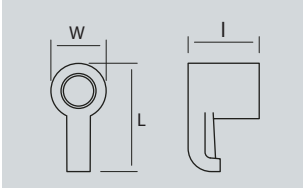
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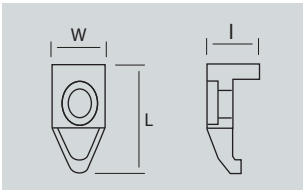
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CLAMPS (M-STYLE CLAMPING)



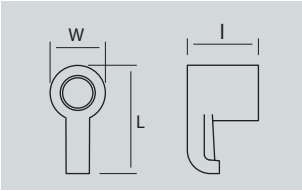
DESCRIPTION	W	L	I			
ST-CS006	9.40	18.20	13.50			
ST-CS007	7.90	16.90	7.90			
ST-CS008	7.75	14.90	10.95			
ST-CS009	9.40	18.20	13.50			

CLAMPS (D-STYLE CLAMPING)



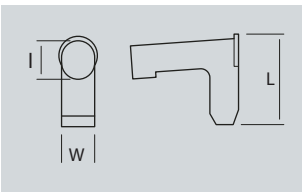
DESCRIPTION	∅d	M	L			
ST-CS001	9.70	M6x1	24.00			
ST-CS002	9.70	M6x1	24.00			
ST-CS003	9.70	M6x1	24.00			
ST-CS004	9.70	M6x1	24.00			
ST-CS004	9.70	M6x1	24.00			

CLAMPS (C-STYLE CLAMPING)



DESCRIPTION	W	L	I			
ST-CS010	9.40	18.20	13.50			
ST-CS011	7.90	16.90	7.90			
ST-CS012	9.40	18.20	13.50			
ST-CS013	7.90	16.90	7.90			

LEVER (P-STYLE CLAMPING)



DESCRIPTION	W	L	I			
ST-LV001	4.75	13.60	4.45			
ST-LV002	4.60	14.50	5.00			
ST-LV003	4.70	14.80	5.10			

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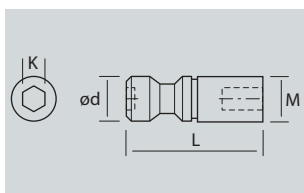
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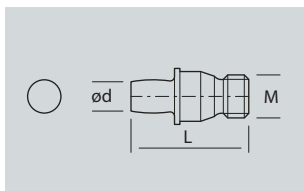
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LEVER LOCKING SYSTEM (P-STYLE CLAMPING)



DESCRIPTION	d	M	L	K		
ST-SC820	8.00	M8.0 x 1.00	20.0	HEXA 3		
ST-SC822	8.00	M8.0 x 1.00	22.0	HEXA 3		
ST-SC1020	10.00	M10.0 x 1.25	20.0	HEXA 4		
ST-SC1022	10.00	M10.0 x 1.25	22.0	HEXA 4		

ECCENTRIC LOCK PIN (M-STYLE CLAMPING)



DESCRIPTION	M	L	I			
ST-SP001	5.00	17.7	5.00			
ST-SP002	6.00	21.8	6.20			
ST-SP003	4.50	14.0	3.70			

DESCRIPTION		
08IR-A55	■ THREADING carbide	257
08IR-A60	■ THREADING carbide	255
11ER-000ISO	■ THREADING carbide	258
11ER-00BSPT	■ THREADING carbide	270
11ER-00NPT	■ THREADING carbide	272
11ER-00TR	■ THREADING carbide	276
11ER-00UN	■ THREADING carbide	266
11ER-00W	■ THREADING carbide	262
11ER-A55	■ THREADING carbide	256
11ER-A60	■ THREADING carbide	254
11ER-W00-T00	■ GROOVING carbide	214
11IR-W00-T00	■ GROOVING carbide	215
11IR-000ISO	■ THREADING carbide	260
11IR-00BSPT	■ THREADING carbide	271
11IR-00NPT	■ THREADING carbide	273
11IR-00TR	■ THREADING carbide	277
11IR-00UN	■ THREADING carbide	268
11IR-00W	■ THREADING carbide	264
11IR-A55	■ THREADING carbide	257
11IR-A60	■ THREADING carbide	255
11IR-000ISO	■ THREADING carbide	261
16ER-000ISO	■ THREADING carbide	258
16ER-00BSPT	■ THREADING carbide	270
16ER-00NPT	■ THREADING carbide	272
16ER-00RND	■ THREADING carbide	274
16ER-00TR	■ THREADING carbide	276
16ER-00UN	■ THREADING carbide	266
16ER-00UN	■ THREADING carbide	267
16ER-00W	■ THREADING carbide	262
16ER-00W	■ THREADING carbide	263
16ER-A55	■ THREADING carbide	256
16ER-A60	■ THREADING carbide	254
16ER-AG55	■ THREADING carbide	256
16ER-AG60	■ THREADING carbide	254
16ER-G55	■ THREADING carbide	256
16ER-G60	■ THREADING carbide	254
16ERM-000ISO	■ THREADING carbide	259
16ERM-00W	■ THREADING carbide	263
16ERM-AG55	■ THREADING carbide	256
16ERM-AG60	■ THREADING carbide	254
16ER-W00-T00	■ GROOVING carbide	214
16ER-W00-T00-R00	■ GROOVING carbide	216
16IR-W00-T00	■ GROOVING carbide	215
16IR-W00-T00-R00	■ GROOVING carbide	217
16IR-000ISO	■ THREADING carbide	260
16IR-00BSPT	■ THREADING carbide	271
16IR-00NPT	■ THREADING carbide	273
16IR-00RND	■ THREADING carbide	275
16IR-00TR	■ THREADING carbide	277
16IR-00UN	■ THREADING carbide	268

DESCRIPTION		
16IR-00UN	■ THREADING carbide	269
16IR-00W	■ THREADING carbide	264
16IR-00W	■ THREADING carbide	265
16IR-A55	■ THREADING carbide	257
16IR-A60	■ THREADING carbide	255
16IR-AG55	■ THREADING carbide	257
16IR-AG60	■ THREADING carbide	255
16IR-G55	■ THREADING carbide	257
16IR-G60	■ THREADING carbide	255
16IRM-000ISO	■ THREADING carbide	261
16IRM-00W	■ THREADING carbide	265
16IRM-AG55	■ THREADING carbide	257
16IRM-AG60	■ THREADING carbide	255
22ER-000ISO	■ THREADING carbide	259
22ER-00RND	■ THREADING carbide	274
22ER-00TR	■ THREADING carbide	276
22ER-00UN	■ THREADING carbide	267
22ER-00W	■ THREADING carbide	263
22ER-N55	■ THREADING carbide	256
22ER-N60	■ THREADING carbide	254
22IR-000ISO	■ THREADING carbide	261
22IR-00RND	■ THREADING carbide	275
22IR-00TR	■ THREADING carbide	277
22IR-00UN	■ THREADING carbide	269
22IR-00W	■ THREADING carbide	265
22IR-N55	■ THREADING carbide	257
22IR-N60	■ THREADING carbide	255
27ER-00RND	■ THREADING carbide	274
27ER-00TR	■ THREADING carbide	276
27ER-00UN	■ THREADING carbide	267
27ER-00W	■ THREADING carbide	263
27ER-Q55	■ THREADING carbide	256
27ER-Q60	■ THREADING carbide	254
27IR-00RND	■ THREADING carbide	275
27IR-00TR	■ THREADING carbide	277
27IR-00UN	■ THREADING carbide	269
27IR-00W	■ THREADING carbide	265
27IR-Q55	■ THREADING carbide	257
27IR-Q60	■ THREADING carbide	255
3PGX0000000R-M	■ MILLING carbide	314
6GR-000	■ GROOVING carbide	212
7GR-000	■ GROOVING carbide	212
8GR-000	■ GROOVING carbide	212
9GR-000	■ GROOVING carbide	212
APKT000000-ALU	■ MILLING carbide	304
APKT0000PDER-ALU	■ MILLING carbide	304
APKT0000PER-ST	■ MILLING carbide	304
APMT0000PDER-ALU	■ MILLING carbide	304
APMT0000PDER-RM	■ MILLING carbide	304
APMT0000PDSR-QM	■ MILLING carbide	304

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APMT0000PDSR-QX	■	MILLING carbide 304
C000SCLCR/L 03	■	TURNING holders 130
C000SCLCR/L 04	■	TURNING holders 130
C000SCLCR/L 06	■	TURNING holders 130
C000SCLCR/L 09	■	TURNING holders 130
C000SDQCR/L 07	■	TURNING holders 147
C000SDQCR/L 11	■	TURNING holders 147
C000STFCR/L 11	■	TURNING holders 177
C000STFPR/L 08	■	TURNING holders 177
C000STFPR/L 11	■	TURNING holders 177
CCGT0000001C	■	TURNING diamond 83
CCGT0000002C	■	TURNING diamond 83
CCGT000000ALU	■	TURNING carbide 18
CCGT000000ER/L-U	■	TURNING carbide 18
CCGT000000L-F	■	TURNING carbide 18
CCGT000000R/L-W15	■	TURNING carbide 18
CCGT000000R/L-W20	■	TURNING carbide 18
CCGW0000001C	■	TURNING PCBN 63
CCGW0000001C	■	TURNING diamond 83
CCGW0000002C	■	TURNING PCBN 63
CCGW0000002C	■	TURNING diamond 83
CCGX000000R/L-FE	■	TURNING diamond 83
CCMT000000CG	■	TURNING carbide 19
CCMT000000HF	■	TURNING carbide 19
CCMT000000HM	■	TURNING carbide 19
CCMT000000HQ	■	TURNING carbide 19
CCMT000000HR	■	TURNING carbide 19
CCMT000000TS	■	TURNING carbide 19
CCMT000000VM	■	TURNING carbide 20
CCMT000000VQ	■	TURNING carbide 20
CCMW000000	■	TURNING carbide 20
CDJNR/L00000015	■	TURNING holders 148
CKJNR/L00000016	■	TURNING holders 155
CNGA000000	■	TURNING ceramic 102
CNGA0000001C	■	TURNING PCBN 64
CNGA0000001C	■	TURNING diamond 84
CNGA0000002C	■	TURNING PCBN 64
CNGA0000002C	■	TURNING diamond 84
CNGA0000004C	■	TURNING PCBN 64
CNGN000000	■	TURNING ceramic 103
CNMA000000	■	TURNING carbide 21
CNMG000000	■	TURNING carbide 21
CNMG000000ALU	■	TURNING carbide 21
CNMG000000HQ	■	TURNING carbide 21
CNMG000000PM	■	TURNING carbide 22
CNMG000000TF	■	TURNING carbide 22
CNMG000000TK	■	TURNING carbide 22
CNMG000000TM	■	TURNING carbide 22
CNMG000000TS	■	TURNING carbide 22
CNMG000000UF	■	TURNING carbide 22

DESCRIPTION		
CNMG000000UM	■	TURNING carbide 22
CNMG000000UM	■	TURNING carbide 23
CNMG000000UR	■	TURNING carbide 23
CNMG000000US	■	TURNING carbide 23
CNMM000000UR	■	TURNING carbide 23
CNMX000000	■	TURNING ceramic 103
CRDCN00000006	■	TURNING holders 156
CRDCN00000009	■	TURNING holders 156
CRDCN00000012	■	TURNING holders 156
CRDCN00000015	■	TURNING holders 156
CRDCN00000019	■	TURNING holders 156
CRDCN00000025	■	TURNING holders 156
CSDNN00000012	■	TURNING holders 162
CSSNN00000012	■	TURNING holders 163
CTJNR/L00000016	■	TURNING holders 178
DCGT0000001C	■	TURNING diamond 85
DCGT0000002C	■	TURNING diamond 85
DCGT000000ALU	■	TURNING carbide 24
DCGT000000U	■	TURNING carbide 24
DCGW0000001C	■	TURNING PCBN 65
DCGW0000001C	■	TURNING diamond 85
DCGW0000002C	■	TURNING PCBN 65
DCGW0000002C	■	TURNING diamond 85
DCGX000000R/L-FE	■	TURNING diamond 85
DCLNR/L00000012	■	TURNING holders 131
DCLNR/L00000016	■	TURNING holders 131
DCLNR/L00000019	■	TURNING holders 131
DCMNN00000012	■	TURNING holders 132
DCMNN00000016	■	TURNING holders 132
DCMNN00000019	■	TURNING holders 132
DCMT000000CG	■	TURNING carbide 24
DCMT000000HF	■	TURNING carbide 24
DCMT000000HM	■	TURNING carbide 24
DCMT000000HQ	■	TURNING carbide 25
DCMT000000HR	■	TURNING carbide 25
DCMT000000TS	■	TURNING carbide 25
DCMT000000VM	■	TURNING carbide 25
DCMT000000VQ	■	TURNING carbide 25
DCMT000000VW	■	TURNING carbide 25
DCZNN00000012	■	TURNING holders 133
DCZNN00000016	■	TURNING holders 133
DCZNN00000019	■	TURNING holders 133
DDHNR/L00000015	■	TURNING holders 148
DDHNR/L0000001504	■	TURNING holders 148
DDJNR/L00000011	■	TURNING holders 149
DDJNR/L00000015	■	TURNING holders 149
DDJNR/L0000001504	■	TURNING holders 149
DDNNN00000011	■	TURNING holders 150
DDNNN00000015	■	TURNING holders 150
DDNNN0000001504	■	TURNING holders 150

DESCRIPTION		
DGA2000-000-00	■	ENDMILLS carbide 397
DGA2000-000-00	■	ENDMILLS carbide 398
DGA2000-000-00-000	■	ENDMILLS carbide 397
DGA3000-000-00	■	ENDMILLS carbide 399
DGA3000-000-00	■	ENDMILLS carbide 400
DGB2000-000-00	■	ENDMILLS carbide 382
DGB2000-000-00	■	ENDMILLS carbide 383
DGC4000-000-00-000	■	ENDMILLS carbide 388
DGC4000-000-00-000	■	ENDMILLS carbide 389
DGC4000-000-00-000	■	ENDMILLS carbide 390
DGF4000-000-00	■	ENDMILLS carbide 377
DL0000-00-0	■	DRILLS carbide 407
DL0000-00-0	■	DRILLS carbide 408
DL0000-00-0	■	DRILLS carbide 409
DNGA000000	■	TURNING ceramic 104
DNGA0000001C	■	TURNING PCBN 66
DNGA0000001C	■	TURNING diamond 86
DNGA0000002C	■	TURNING PCBN 66
DNGA0000002C	■	TURNING diamond 86
DNGA0000004C	■	TURNING PCBN 66
DNGN000000	■	TURNING ceramic 105
DNMA000000	■	TURNING carbide 26
DNMG000000	■	TURNING carbide 26
DNMG000000ALU	■	TURNING carbide 26
DNMG000000HA	■	TURNING carbide 26
DNMG000000HQ	■	TURNING carbide 26
DNMG000000R/L-ST	■	TURNING carbide 26
DNMG000000TK	■	TURNING carbide 27
DNMG000000TM	■	TURNING carbide 27
DNMG000000TS	■	TURNING carbide 27
DNMG000000UF	■	TURNING carbide 27
DNMG000000UM	■	TURNING carbide 27
DNMG000000UR	■	TURNING carbide 28
DNMG000000US	■	TURNING carbide 28
DSD0000-00-0	■	DRILLS carbide 404
DSD0000-00-0	■	DRILLS carbide 405
DSD0000-00-0	■	DRILLS carbide 406
DSDNN0000012	■	TURNING holders 163
DSDNN0000015	■	TURNING holders 163
DSKNR/L0000012	■	TURNING holders 164
DSKNR/L0000015	■	TURNING holders 164
DSSNR/L0000012	■	TURNING holders 164
DSSNR/L0000015	■	TURNING holders 164
DTENN0000016	■	TURNING holders 178
DTENN0000022	■	TURNING holders 178
DTJNR/L0000016	■	TURNING holders 179
DTJNR/L0000022	■	TURNING holders 179
DVHNR/L0000016	■	TURNING holders 191
DVJNR/L0000016	■	TURNING holders 191
DVNN0000016	■	TURNING holders 192

DESCRIPTION		
DWB2000-000-00	■	ENDMILLS carbide 386
DWB2000-000-00	■	ENDMILLS carbide 387
DWC4000-000-00-000	■	ENDMILLS carbide 394
DWC4000-000-00-000	■	ENDMILLS carbide 395
DWC4000-000-00-000	■	ENDMILLS carbide 396
DWF4000-000-00	■	ENDMILLS carbide 380
DWF4000-000-00	■	ENDMILLS carbide 381
DWLNRL0000006	■	TURNING holders 194
DWLNRL0000008	■	TURNING holders 194
DXB2000-000-00	■	ENDMILLS carbide 384
DXB2000-000-00	■	ENDMILLS carbide 385
DXC4000-000-00-000	■	ENDMILLS carbide 391
DXC4000-000-00-000	■	ENDMILLS carbide 392
DXC4000-000-00-000	■	ENDMILLS carbide 393
DXF4000-000-00	■	ENDMILLS carbide 378
DXF4000-000-00	■	ENDMILLS carbide 379
KNMX000000R/L-11	■	TURNING carbide 29
MAGC000	■	GROOVING carbide 204
MAGD000J-15D	■	GROOVING carbide 204
MAGJ000	■	GROOVING carbide 205
MAGN000	■	GROOVING PCBN 225
MAGN000	■	GROOVING diamond 229
MAGN000MA	■	GROOVING carbide 206
MAGN000WA	■	GROOVING carbide 206
MAGR000	■	GROOVING carbide 205
MAGS000	■	GROOVING carbide 206
MAT000-000-000/00	■	MILLING holders 346
MFAP750000-10-00	■	MILLING holders 326
MFAP750000-10-00-C	■	MILLING holders 326
MFAP750000-16-00	■	MILLING holders 330
MFAP750000-16-00-C	■	MILLING holders 330
MFAP900000-10-00	■	MILLING holders 325
MFAP900000-10-00-C	■	MILLING holders 325
MFAP900000-12-00	■	MILLING holders 327
MFAP900000-16-00	■	MILLING holders 331
MFAP900000-16-00-C	■	MILLING holders 331
MFAP900000-17-00-C	■	MILLING holders 332
MFRD0000-10-00	■	MILLING holders 336
MFRD0000-10-00-C	■	MILLING holders 336
MFRD0000-12-00	■	MILLING holders 336
MFRD0000-12-00-C	■	MILLING holders 336
MFRT000000-10-00	■	MILLING holders 338
MFRT000000-10-00-C	■	MILLING holders 338
MFSE450000-00	■	MILLING holders 339
MFSE450000-00-C	■	MILLING holders 339
MFSN450000-00	■	MILLING holders 340
MFSN450000-00-C	■	MILLING holders 340
MFSO0000-08-00-C	■	MILLING holders 342
MFSP0000-12-00-C	■	MILLING holders 342
MFT00-00-000-00	■	MILLING holders 346

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MFT00-000-000-00	■	MILLING holders 347
MFTP900000-16-00	■	MILLING holders 343
MFTP900000-22-00	■	MILLING holders 343
MFWN900000-08-00	■	MILLING holders 345
MFWN900000-08-00-C	■	MILLING holders 345
MMAP00-000-10-00	■	MILLING holders 324
MMAP00-000-10-00-C	■	MILLING holders 324
MMAP00-000-16-00-C	■	MILLING holders 330
MMRD00-000-08-00-C	■	MILLING holders 335
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