

# TURNING

2026 | CATALOG

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 **EUROLOY**  
CARBIDE TOOLS



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# TURNING INSERT CODE SYSTEM (ISO)

# C

# N

# M

# G

# 12

# 04

# 08

# PM1

1

2

3

4

5

6

7

8

Insert Shape

Relief Angle

Tolerance

Cross Section Type

Cutting Edge Length,  
Diameter Of  
Inscribed Circle

Height of  
Cutting Edge

Nose Radius  
(Nose R)

Chip Breaker for Turning

Turning

### 1 Insert Shape

C N M G 12 04 08 PM1

C D E K L  
R S T V W

### 2 Relief Angle

C N M G 12 04 08 PM1

B C D E  
F N P O

Special Type

### 4 Cross Section Type

C N M G 12 04 08 PM1

A B C  
F G H  
J M N  
Q R T  
U W X

Chamfer 70°-90°  
Chamfer 70°-90°  
Chamfer 70°-90°  
Chamfer 70°-90°  
Chamfer 40°-60°  
Chamfer 40°-60°  
Chamfer 40°-60°  
Chamfer 40°-60°  
Special Type

### 3 Tolerance

C N M G 12 04 08 PM1

d m t

Class	d	m	t
A	± 0.025	± 0.005	± 0.025
C	± 0.025	± 0.013	± 0.025
H	± 0.013	± 0.013	± 0.025
E	± 0.025	± 0.025	± 0.025
G	± 0.025	± 0.025	± 0.013
J *	± 0.05-±0.15	± 0.005	± 0.025
K *	± 0.05-±0.15	± 0.013	± 0.025
L *	± 0.05-±0.15	± 0.025	± 0.025
M *	± 0.05-±0.15	± 0.08-±0.20	± 0.13
N *	± 0.05-±0.15	± 0.08-±0.18	± 0.025
U *	± 0.08-±0.25	± 0.13-±0.38	± 0.13

\*Sides are based on unground insert

Tolerance on C,E,H,M,O,P,R,S,T,W Insert Shape (Exceptional Case)

d	Tolerance d		Tolerance m	
	J,K,L,M,N	U	M,N	U
6.35	± 0.05	± 0.08	± 0.08	± 0.13
9.525	± 0.05	± 0.08	± 0.08	± 0.13
12.7	± 0.08	± 0.13	± 0.13	± 0.20
15.875	± 0.10	± 0.18	± 0.15	± 0.27
19.05	± 0.10	± 0.18	± 0.15	± 0.27
25.4	± 0.13	± 0.25	± 0.18	± 0.38

Tolerance on D Insert Shape (Exceptional Case)

d	Tolerance d		Tolerance m	
6.35	± 0.05		± 0.11	
9.525	± 0.05		± 0.11	
12.7	± 0.08		± 0.15	
15.875	± 0.10		± 0.18	
19.05	± 0.10		± 0.18	

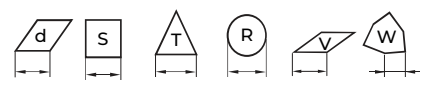
# TURNING INSERT CODE SYSTEM (ISO)

**C N M G 12 04 08 PM1**

1 **Insert Shape**    2 **Relief Angle**    3 **Tolerance**    4 **Cross Section Type**    5 **Cutting Edge Length, Diameter Of Inscribed Circle**    6 **Height of Cutting Edge**    7 **Nose Radius (Nose R)**    8 **Chip Breaker for Turning**

## 5 Cutting Edge Length, Diam. of Inscribed Circle

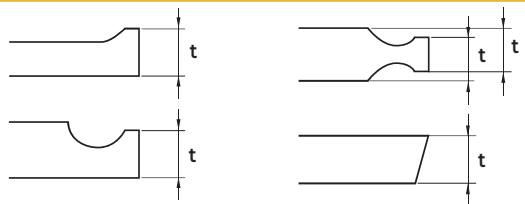
C N M G 12 04 08 PM1



Metric						Inch	d(mm)
04	03	06	03	-	02	1.2 (5)	3.97
05	04	08	04	08	S3	1.5 (6)	4.76
06	05	09	05	09	03	1.8 (7)	5.56
-	-	-	06	-	-	-	6.00
07	06	11	06	11	04	2	6.35
09	07	13	07	13	05	2.5	7.94
-	-	-	08	-	-	-	8.00
11	09	16	09	16	06	3	9.525
-	-	-	10	-	-	-	10.00
13	11	19	11	19	07	3.5	11.11
-	-	-	12	-	-	-	12.00
15	12	22	12	22	08	4	12.70
17	14	24	14	24	09	4.5	14.29
19	15	27	15	27	10	5	15.875
-	-	-	16	-	-	-	16.00
21	17	30	17	30	11	5.5	17.46
23	19	33	19	33	13	6	19.05
-	-	-	20	-	-	-	20.00
27	22	38	22	38	15	7	22.225
-	-	-	25	-	-	-	25.00
31	25	44	25	44	17	8	25.40
38	31	54	31	54	21	10	31.75
-	-	-	32	-	-	-	32.00

## 6 Height of Cutting Edge

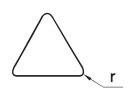
C N M G 12 04 08 PM1



Symbol	Height of Cutting Edge (t)	
	Metric	Inch
O1	1(2)	1.59
T0	1.125	1.79
T1	1.2	1.98
O2	1.5(3)	2.38
T2	1.75	2.78
O3	2	3.18
T3	2.5	3.97
O4	3	4.76
O5	3.5	5.56
O6	4	6.35
O7	5	7.94
O9	6	9.52
11	7	11.11
12	8	12.70

## 7 Nose Radius (Nose R)

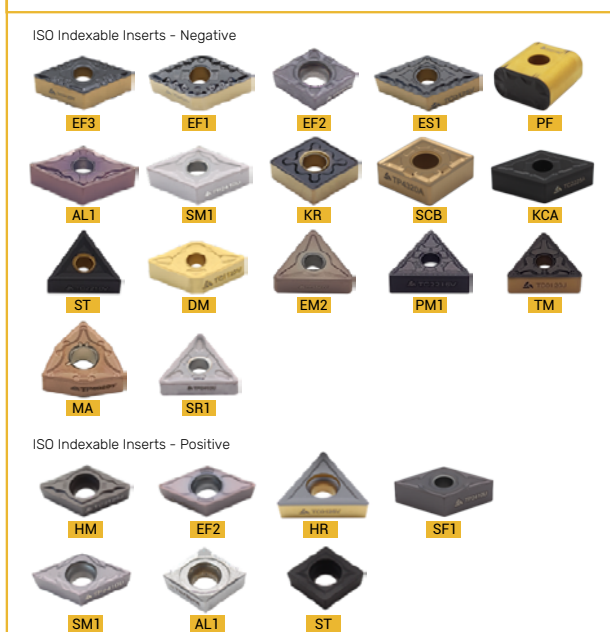
C N M G 12 04 08 PM1



Symbol		Corner Radius	
Metric	Inch	Metric	Inch
003	0.1	0.03	0.001
005	0.13	0.05	0.002
	0.2	0.1	0.004
	0.5	0.2	0.008
	1	0.04	1/64
	2	0.8	1/32
	3	1.2	3/64
M0	4	1.6	1/16
	5	2.0	5/64
	6	2.4	3/32
	7	2.8	7/64
	8	3.2	1/8
	-	-	-
	-	-	-

## 8 Chip Breaker for Turning

C N M G 12 04 08 PM1



Turning

# NEGATIVE CHIPBREAKERS

Turning

Geometry	Properties	Material Group						View of Cutting Edge	Basic cutting data diagram	Available Geometries
		P	M	K	N	S	H			
<b>PBI</b>	Chipbreaker for steel finishing to semi-finishing. Low cutting forces, ideal for slender or thin-walled parts.	●								CNMG DNMG SNMG TNMG VNMG WNMG
<b>P83</b>	Chipbreaker for steel semi-finishing. Positive rake design reduces cutting forces and provides good chip control in profile and shoulder turning.	●								CNMG DNMG WNMG
<b>EF1</b>	Suitable for finishing of steel, especially forged steel where small workpieces is machined and good chip control is needed.	●								DNMG VNMG
<b>EF2</b>	Suitable for finishing and semi finishing of stainless steel. Provides stable cutting performance and effective chip control.		●							SNMG TNMG VNMG
<b>EF3</b>	First choice for finishing mild steel. Provides effective chip control.	●								DNMG TNMG WNMG
<b>SF1</b>	Sharp cutting edge design reduces built-up edge formation. Ensures stable chip evacuation during machining.		●			●				CNMG DNMG SNMG TNMG VNMG WNMG
<b>MBZ</b>	Chipbreaker for stainless steel finishing. High positive rake prevents cutting force and built-up edge, providing good surface quality.		●				●			CNMG DNMG SNMG VNMG WNMG
<b>SCB</b>	Chipbreaker for medium turning of heat-resistant and titanium alloys. Large rake angle and small land width provide smooth cutting and low cutting forces.		●				●			CNMG DNMG SNMG TNMG VNMG WNMG

● 1st Choice    ○ 2nd Choice

# NEGATIVE CHIPBREAKERS

Geometry	Properties	Material Group						View of Cutting Edge	Basic cutting data diagram	Available Geometries
		P	M	K	N	S	H			
AL	Designed for continuous turning of aluminum. High rake angle ensures smooth cutting and long tool life. Suitable for finishing with high feed.	○	○	●						DNMG SNMG TNMG VNMG WNMG
ES1	Good chip control at various depths of cut. Suitable for facing operations.	●								DNMG TNMG VNMG CNMG
MA	First choice for medium machining of carbon and alloy steels. Positive land design ensures sharp and stable cutting.	●	●			○				CNMG TNMG VNMG WNMG
ST	First choice for medium machining of cast iron. Also suitable for medium machining of steel.	○		●						CNMG DNMG SNMG TNMG VNMG WNMG
PM1	Suitable for medium machining of steel and cast iron. Provides stable cutting performance.	●		●						CNMG DNMG SNMG TNMG WNMG
TM	Chipbreaker for medium to rough machining. Designed for stable chip control at medium to high feed rates.	●								CNMG DNMG SNMG TNMG VNMG WNMG
PD	Chipbreaker for steel medium turning. Double rake design provides sharp cutting edges, low cutting forces, and reliable chip control.	●	○							CNMG DNMG SNMG TNMG VNMG WNMG
SM1	Ensures stable chip evacuation. Variable land design improves crater wear resistance and tool life.		●			●				CNMG DNMG SNMG TNMG VNMG WNMG

Turning

● 1st Choice    ○ 2nd Choice

# NEGATIVE CHIPBREAKERS

Turning

Geometry	Properties	Material Group						View of Cutting Edge	Basic cutting data diagram	Available Geometries
		P	M	K	N	S	H			
<b>EM2</b>	Recommended chipbreaker for semi-finishing of M-type materials. Double-sided design improves chip control and reduces adhesion when machining stainless steel.		●							SNMG TNMG
<b>KR</b>	Alternative chipbreaker for rough machining of carbon steel, alloy steel and cast iron. Suitable for interrupted cutting and high feed rates.		○	●						CNMG DNMG SNMG TNMG VNMG WNMG
<b>KCA</b>	Chipbreaker for cast iron turning. Strong cutting edge ensures stable and reliable machining performance.			●						CNMG DNMG SNMG TNMG VNMG WNMG
<b>SR1</b>	High cutting edge strength for demanding applications. Designed for deep depth-of-cut machining.		●			●				CNMG DNMG SNMG TNMG WNMG
<b>MCA</b>	Alternative chipbreaker for rough turning of stainless steel and heat-resistant alloys. Large chipbreaker geometry ensures good chip evacuation and high metal removal.		●				●			CNMG DNMG SNMG TNMG WNMG
<b>PDS</b>	Alternative chipbreaker for steel rough turning. Strong cutting edge with low cutting force and good chip control.		●							CNMG DNMG WNMG
<b>PR</b>	Chipbreaker for medium to rough machining. Designed for stable cutting at higher feed rates and deeper depths of cut, providing reliable chip control.		●	○						CNMG LNMX SNMG
<b>PF</b>	Positive geometry ensures low cutting forces and stable machining performance. Provides reliable chip control and good surface finish in medium machining applications.		○							LNMX

● 1st Choice    ○ 2nd Choice

































# POSITIVE CHIPBREAKERS

Geometry	Properties	Material Group						View of Cutting Edge	Basic cutting data diagram	Available Geometries
		P	M	K	N	S	H			
UF	First choice for turning heat-resistant alloys. Ground edges provide precise positioning and high machining accuracy.	○	●			●				CCGT DCGT TCGT VBGT
AL1	Designed for aluminum continuous turning. High rake angle ensures smooth cutting and long tool life. Suitable for finishing with high feed.		●		●					CCGT DCGT RCGT SCGT TCGT VBGT VCVT
PBI	Ideal for steel finishing. Positive rake reduces cutting forces and built-up edge, improving surface finish and tool life. Also suitable for stainless steel turning.	●	●			●				CCMT DCMT SCMT TCMT VBMT VCMT
EF2	Suitable for finishing operations on stainless steel.		●			○				CCMT DCMT SCMT TCMT VBMT
SF1	Sharp edge design reduces built-up edge and ensures stable chip evacuation.		●			●				CCMT DCMT SCMT TCMT VBMT VCMT
PCZ	First choice for semi-finishing of steel and stainless steel. Sharp geometry ensures low cutting forces and reliable chip control.	●	●			●				CCMT DCMT SCMT TCMT VBMT VCMT
HM	Suitable for medium machining of steel and cast iron.	●		●						CCMT DCMT SCMT TCMT VBMT
SM1	Provides stable chip evacuation. Variable land design improves resistance to crater wear.		●			●				CCMT DCMT SCMT TCMT VBMT
KCZ	General-purpose chipbreaker for turning steel, stainless steel and cast iron. Suitable for medium to rough machining with wide application range.	●	●	●						CCMT DCMT SCMT TCMT VBMT

● 1st Choice    ○ 2nd Choice

# POSITIVE CHIPBREAKERS

Turning

Geometry	Properties	Material Group						View of Cutting Edge	Basic cutting data diagram	Available Geometries
		P	M	K	N	S	H			
<b>ST</b>	First choice for medium turning of cast iron. Provides stable cutting performance and effective chip control.	○	●	●	●	●	●			CCMT DCMT SCMT TCMT
<b>VM</b>	Alternative chipbreaker for medium machining of steel and stainless steel. Positive geometry ensures sharp cutting and good chip control.	●	●	○	○	○	○			DCMT
<b>HR</b>	Suitable for rough machining of steel. Provides stable cutting performance in heavy cutting conditions.	●	○	○	○	○	○			TCMT

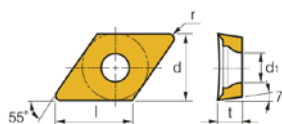
● 1st Choice    ○ 2nd Choice







# DCMT...



Dimension	Size		
	d	t	d <sub>1</sub>
07	6.35	2.38	2.8
11	9.525	3.97	4.4

Turning

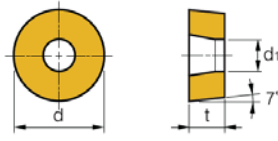
Insert Shape	CB	Insert Code	ISO		P						M					K				N	S				U																		
			ap (mm)	Vc (m/min)	350(100-600)	300(220-400)	300(220-400)	240(200-320)	240(200-320)	145(45-250)	190(130-250)	180(120-250)	160(120-200)	150(110-200)	130(100-160)	90(70-110)	300(220-360)	300(220-360)	240(180-300)	240(180-300)	600(450-750)	50(30-90)	45(30-60)	45(30-60)	45(30-60)																		
					TC01 05	TC01 15	TC21 15	TC01 25	TC21 25	TC21 35	TC13 10	TC13 20	TP43 10	TP43 20	TP43 30	TP43 40	TC22 10	TC02 10	TC22 15	TC02 15	TN75 01	TP24 05	TP24 10	TP44 10	TP24 30	TP26 20	TP36 20	TP26 30	TP36 30	TP46 30													
	PCZ	DCMT 070204	0.35-2.1	0.05-0.16	○																																						
		DCMT 070208	0.70-2.1	0.10-0.32		○		○																																			
		DCMT 11T304	0.35-3.1	0.05-0.16	○	○		○																																			
		DCMT 11T308	0.70-3.1	0.10-0.32		○		○																																			
		DCMT 11T312	1.05-3.1	0.16-0.48		○																																					
	HM	DCMT 070204	0.20-2.25	0.06-0.17																																		●	●				
		DCMT 070208	0.38-2.25	0.08-0.23																																			●	●			
		DCMT 11T304	0.25-3.0	0.08-0.23																																				●	●		
		DCMT 11T308	0.5-3.0	0.1-0.3																																				●	●		
		DCMT 11T312	0.6-3.0	0.12-0.36																																					●	●	
	SM1	DCMT 070204	0.23-1.2	0.07-0.15																																							
		DCMT 11T302	0.40-1.2	0.10-0.20																																							
		DCMT 11T304	0.35-2.2	0.10-0.20																																							
		DCMT 11T308	0.60-2.5	0.12-0.25																																							
		DCMT 11T312	0.72-2.2	0.14-0.28																																							
	VM	DCMT 070202	0.6-1.8	0.06-0.11																																							
		DCMT 070204	0.8-2.0	0.08-0.30																																							
		DCMT 070208	0.8-3.0	0.11-0.40																																							
		DCMT 11T304	0.8-2.2	0.14-0.28																																							
		DCMT 11T308	0.8-3.0	0.11-0.40																																							
	KCZ	DCMT 070204	0.40-2.3	0.06-0.18																																							
		DCMT 070208	0.80-2.3	0.12-0.35																																							
		DCMT 11T304	0.40-3.5	0.06-0.18																																							
		DCMT 11T308	0.80-3.5	0.12-0.35																																							
		DCMT 11T312	1.20-3.5	0.18-0.55																																							
	ST	DCMT 070204	0.15-2.25	0.06-0.17																																							
		DCMT 070208	0.35-2.25	0.08-0.23																																							
		DCMT 11T304	0.25-3.0	0.08-0.23																																							
		DCMT 11T308	0.5-3.0	0.1-0.3																																							

● Stock item

○ Non Stock item

△ Special order

# RC...

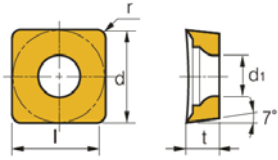


Dimension	Size		
	d	t	d <sub>1</sub>
8	8.0	3.18	3.35
10	10.0	3.18	3.6
12	12.0	4.76	4.2
16	16.0	6.35	5.2

Insert Shape	CB	Insert Code	ISO		P						M				K			N	S				U							
			ap (mm)	Vc (m/min)	350(100-600)	300(220-400)	300(220-400)	240(200-320)	240(200-320)	145(45-250)	190(130-250)	180(120-250)	160(120-200)	150(110-200)	130(100-160)	90(70-110)	300(220-360)	300(220-360)	240(180-300)	240(180-300)	600(450-750)	50(30-90)	45(30-60)	45(30-60)	45(30-60)					
					fn(mm/rev)	TC0105	TC0115	TC2115	TC0125	TC1125	TC2135	TC1310	TC1320	TP4310	TP4320	TP4330	TP4340	TC2210	TC0210	TC2215	TC0215	TN7501	TP2405	TP2410	TP4410	TP2430	TP2620	TP3620	TP2630	TP3630
	AL1	RCGT 0602M0	0.50-2.0	0.05-0.20															○											
		RCGT 0803M0	0.5-2.5	0.05-0.25																●										
		RCGT 1003M0	1.0-3.0	0.10-0.30																●										
		RCGT 1204M0	1.0-3.50	0.10-0.35																○										
	I	RCMX 0803M0	0.80-3.0	0.05-0.30															○	○										
		RCMX 1003M0	1.50-4.0	0.25-0.50																○										
		RCMX 1204M0	2.50-5.0	0.30-0.60																○										
		RCMX 1606M0	3.00-7.0	0.40-0.75																○										
		RCMX 2006M0	3.50-9.0	0.48-0.90				●	●											○										
		RCMX 2507M0	4.0-12.0	0.55-1.20				○	○											○										
RCMX 3209M0	5.0-15.0	0.65-1.50				○	○											○												

Turning

# SC...



Dimension	Size		
	d	t	d <sub>1</sub>
09	9.525	3.97	4.4
12	12.7	4.76	5.5

Insert Shape	CB	Insert Code	ISO		P						M				K			N	S				U							
			ap (mm)	Vc (m/min)	350(100-600)	300(220-400)	300(220-400)	240(200-320)	240(200-320)	145(45-250)	190(130-250)	180(120-250)	160(120-200)	150(110-200)	130(100-160)	90(70-110)	300(220-360)	300(220-360)	240(180-300)	240(180-300)	600(450-750)	50(30-90)	45(30-60)	45(30-60)	45(30-60)					
					fn(mm/rev)	TC0105	TC0115	TC2115	TC0125	TC1125	TC2135	TC1310	TC1320	TP4310	TP4320	TP4330	TP4340	TC2210	TC0210	TC2215	TC0215	TN7501	TP2405	TP2410	TP4410	TP2430	TP2620	TP3620	TP2630	TP3630
	AL1	SCGT 09T302	0.10-4.00	0.02-0.30															○											
		SCGT 09T304	0.10-5.00	0.04-0.40																●										
		SCGT 09T308	0.10-5.00	0.03-0.40																●										
		SCGT 120404	0.05-3.00	0.01-0.12																●										
		SCGT 120408	0.10-3.00	0.02-0.15																●										
	PBI	SCMT 09T304	0.30-2.4	0.04-0.14																				○						
		SCMT 09T308	0.60-2.4	0.09-0.28																					○					
		SCMT 120404	0.30-3.2	0.04-0.14																					○					
	EF2	SCMT 09T304	0.10-2.0	0.06-0.23																										
		SCMT 09T308	0.15-2.0	0.08-0.30																					●				●	
	SF1	SCMT 09T304	0.13-1.6	0.07-0.18																○										
		SCMT 09T308	0.18-1.6	0.10-0.24																		○								







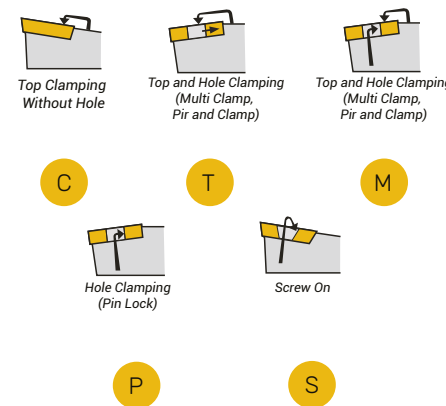




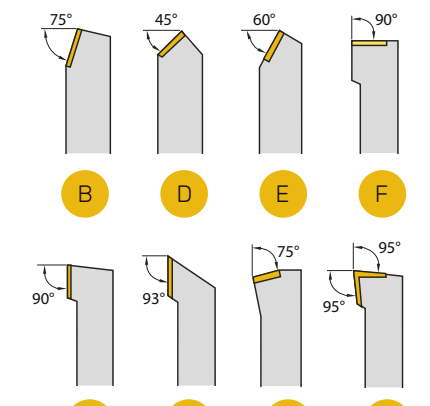
# EXTERNAL TURNING TOOL HOLDER CODE SYSTEM



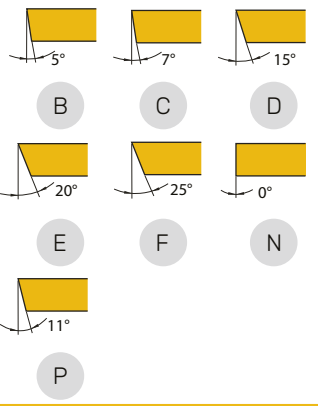
**1 Clamping Method of Inserts**  
P C L N R 20 20 - K 12



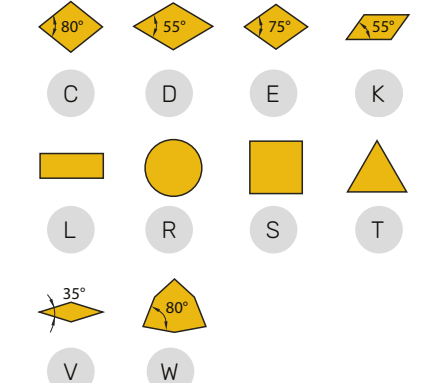
**3 Holder Style**  
P C L N R 20 20 - K 12



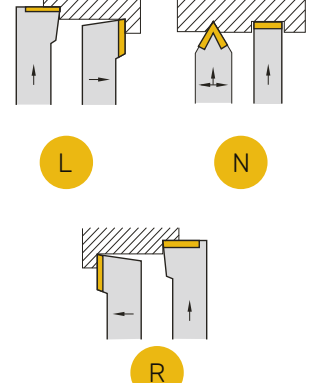
**4 Clearance Angle of Insert**  
P C L N R 20 20 - K 12



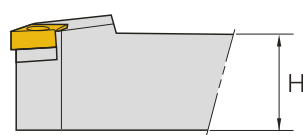
**2 Insert Shape**  
P C L N R 20 20 - K 12



**5 Hand of Holder**  
P C L N R 20 20 - K 12



**6 Height of Shank**  
P C L N R 20 20 - K 12

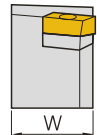


**8 Length of Holder**  
P C L N R 20 20 - K 12

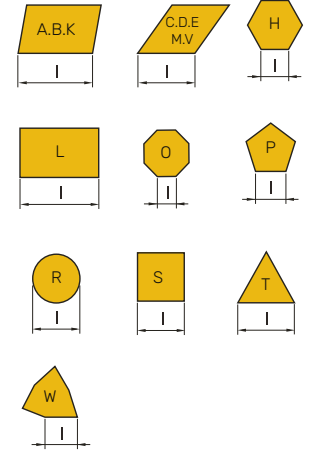
A-32	H-100	Q-180
B-40	J-110	R-200
C-50	K-125	S-250
D-60	L-140	T-300
E-70	M-150	U-350
F-80	N-160	V-400
G-90	P-170	W-450

X-Special Item

**7 Width of Shank**  
P C L N R 20 20 - K 12




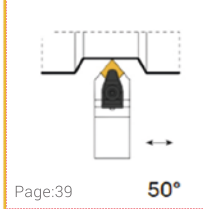
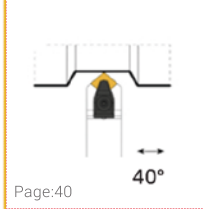

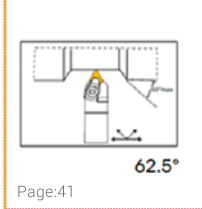

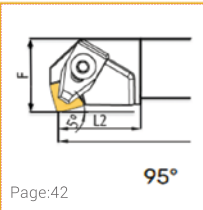
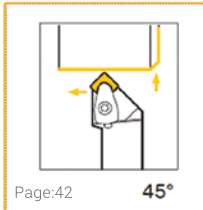
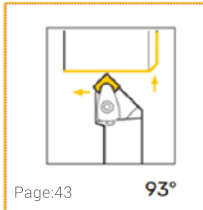
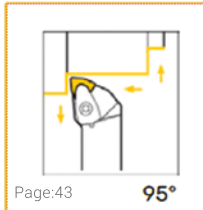

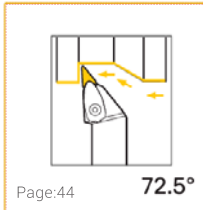

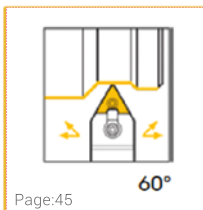
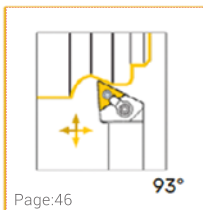
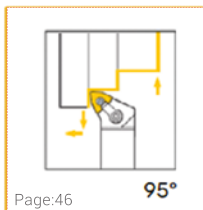
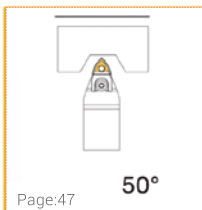
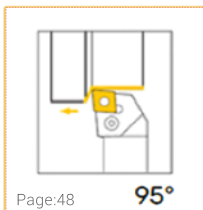


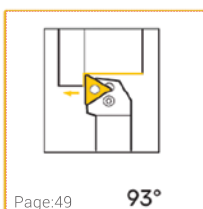
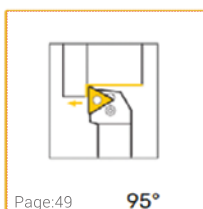
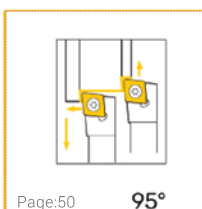
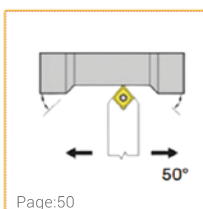


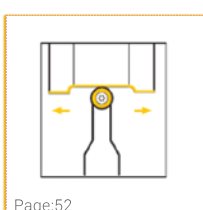
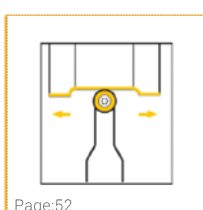
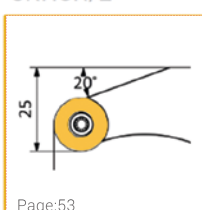
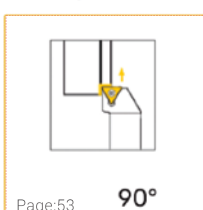
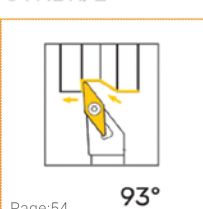
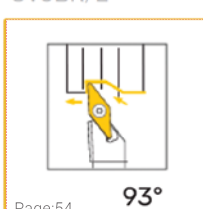
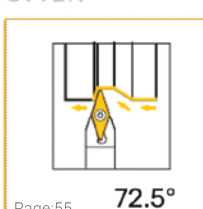
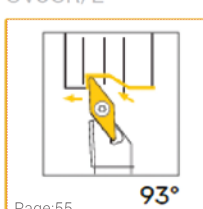
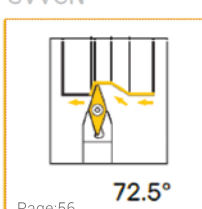
**9 Length of Insert Cutting Edge**  
P C L N R 20 20 - K 12



Turning

# OVERVIEW - EXTERNAL TURNING

Turning

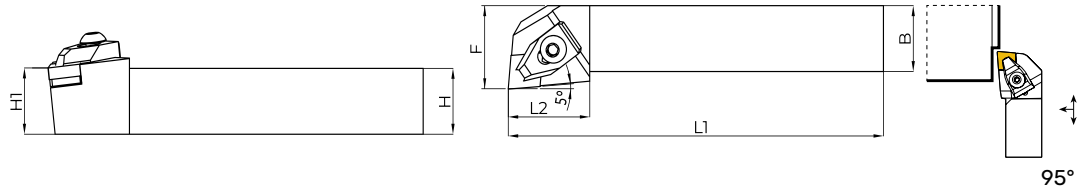
<p>TCLNR/L</p>  <p>Page:39 <b>95°</b></p>	<p>TCMNN</p>  <p>Page:39 <b>50°</b></p>	<p>TCZNN</p>  <p>Page:40 <b>40°</b></p>	<p>TDJNR/L</p>  <p>Page:40 <b>93°</b></p>	<p>TDNNN</p>  <p>Page:41 <b>62.5°</b></p>	<p>TSDNN</p>  <p>Page:41 <b>45°</b></p>
<p>TSLNR/L</p>  <p>Page:42 <b>95°</b></p>	<p>TSSNR/L</p>  <p>Page:42 <b>45°</b></p>	<p>TTJNR/L</p>  <p>Page:43 <b>93°</b></p>	<p>TWLNRL/L</p>  <p>Page:43 <b>95°</b></p>	<p>TVJNR/L</p>  <p>Page:44 <b>93°</b></p>	<p>TVNNN</p>  <p>Page:44 <b>72.5°</b></p>
<p>CKJNR/L</p>  <p>Page:45 <b>93°</b></p>	<p>MTENN</p>  <p>Page:45 <b>60°</b></p>	<p>MTJNR</p>  <p>Page:46 <b>93°</b></p>	<p>MWLNRL/L</p>  <p>Page:46 <b>95°</b></p>	<p>MWDNN</p>  <p>Page:47 <b>50°</b></p>	<p>PCLNR/L</p>  <p>Page:48 <b>95°</b></p>
<p>PDNNN</p>  <p>Page:48 <b>62.5°</b></p>	<p>PDJNR/L</p>  <p>Page:49 <b>93°</b></p>	<p>PTJNR/L</p>  <p>Page:49 <b>93°</b></p>	<p>PWLNRL/L</p>  <p>Page:49 <b>95°</b></p>	<p>SCLCR/L</p>  <p>Page:50 <b>95°</b></p>	<p>SCNCN</p>  <p>Page:50 <b>50°</b></p>
<p>SDJCR/L</p>  <p>Page:51 <b>93°</b></p>	<p>SDNCN</p>  <p>Page:51 <b>62.5°</b></p>	<p>SRDCN</p>  <p>Page:52</p>	<p>SRGCR/L</p>  <p>Page:52</p>	<p>SRHCR/L</p>  <p>Page:53 <b>20°</b></p>	<p>STFCR/L</p>  <p>Page:53 <b>90°</b></p>
<p>SVHBR/L</p>  <p>Page:54 <b>93°</b></p>	<p>SVJBR/L</p>  <p>Page:54 <b>93°</b></p>	<p>SVVBN</p>  <p>Page:55 <b>72.5°</b></p>	<p>SVJCR/L</p>  <p>Page:55 <b>93°</b></p>	<p>SVVCN</p>  <p>Page:56 <b>72.5°</b></p>	

## T TYPE TOOL HOLDER



CN\*\*

## TCLNR/L



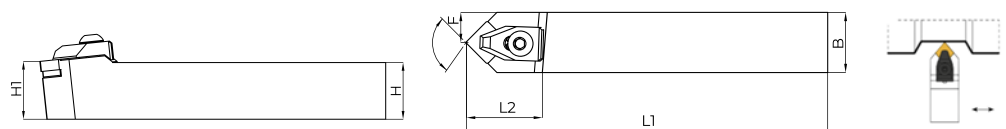
95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TCLNR/L 1616-H12	•	•	16	16	25	100	35	CNM. 1204..	SCN12TM	SS0410M	CT0012M	CS0627M	A3
TCLNR/L 2020-K12	•	•	20	20	25	125	35						
TCLNR/L 2525-M12	•	•	25	25	32	150	40						
TCLNR/L 3232-P12	•	•	32	32	40	170	40	CNM. 1606..	SCN16TM	SS0510M	CT0016M	CS0627M	
TCLNR/L 2525-M16	•	•	25	25	32	150	40						
TCLNR/L 3232-P16	•	•	32	32	40	170	40	CNM. 1906..	SCN19TM	SS0510M	CT0019M	CS0825M	
TCLNR/L 3232-P19	•	•	32	32	40	170	40						
TCLNR/L 4040-R19	•	•	40	40	50	200	45						



CN\*\*

## TCMNN



50°

Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TCMNN 2020-K12	•	20	20	10	125	35	CNM. 1204	SCN12TM	SS0410M	CT0012M	CS0627M	A3
TCMNN 2525-M12	•	25	25	12,5	150	40						
TCMNN 3232-P12	•	32	32	16	170	40						
TCMNN 3232-P16	•	32	32	16	170	40	CNM. 1606	SCN16TM	SS0510M	CT0016M	CS0825M	
TCMNN 3232-P19	•	32	32	16	170	40	CNM. 1906	SCN19TM		CT0019M		
TCMNN 4040-S19	•	40	40	20	250	40						

● Stock item

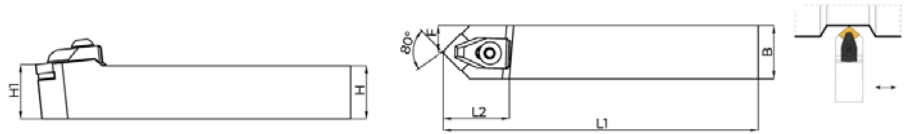
○ Non Stock item

△ Special order

T TYPE TOOL HOLDER



CN\*\*



40°

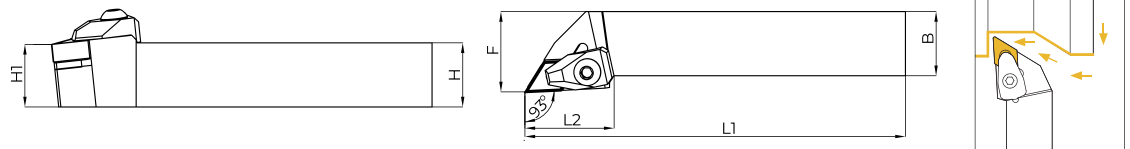
TCZNN

Turning

Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TCZNN 2020-K12	●	20	20	10	125	35	CNM. 1204..	SCN12TM	SS0410M	CT0012M	CS0627M	A3
TCZNN 2525-M12	●	25	25	12,5	150	40						
TCZNN 3232-P12	●	32	32	16	170	40	CNM. 1606	SCN16TM	SS0510M	CT0016TM	CS0825M	A5
TCZNN 3232-P16	●	32	32	16	170	40				CT0019TM		
TCZNN 3232-P19	●	32	32	16	170	40	CNM. 1906	SCN19TM	SS0510M	CT0019TM	CS0825M	A5
TCZNN 4040-R19	●	40	40	20	200	40						



DN\*\*



93°

TDJNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TDJNR/L 1616-K11	●	●	16	16	21	125	30	DNM. 1104..	SDN11TM	SS0411M	CT0011M	CS0523M	A3
TDJNR/L 2020-K11	●	●	20	20	25	125	35						
TDJNR/L 2525-M11	●	●	25	25	32	150	40	DNM. 1506..	SDN15TM	SS0410M	CT0015M	CS0627M	
TDJNR 1616-K15	●	●	16	16	21	125	30						
TDJNR/L 2020-K15	●	●	20	20	25	125	35	DNM. 1506..	SDN15TM	SS0410M	CT0015M	CS0627M	
TDJNR/L 2525-M15	●	●	25	25	32	150	40						
TDJNR/L 3232-P15	●	●	32	32	40	170	40	DNM. 1506..	SDN15TM	SS0410M	CT0015M	CS0627M	
TDJNR/L 4040-R15	●	●	40	40	50	200	45						

● Stock item

○ Non Stock item

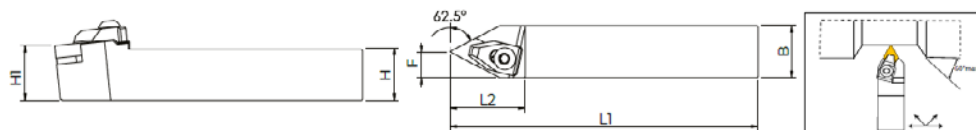
△ Special order

## T TYPE TOOL HOLDER



DN\*\*

## TDNNN



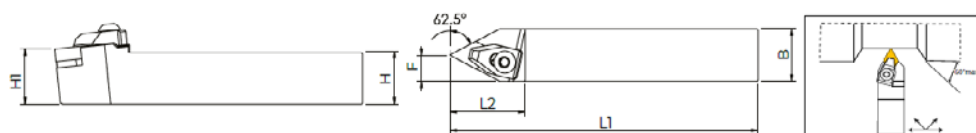
62.5°

Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TDNNN 1616-H11	●	16	16	8	100	30	DNM. 1104..	SDN11TM	SS0411M	CT0011M	CS0523M	A3
TDNNN 2020-K11	●	20	20	10	125	35						
TDNNN 2525-M11	●	25	25	12.5	150	40						
TDNNN 2020-K15	●	20	20	10	125	35						
TDNNN 2525-M15	●	25	25	12.5	150	40	DNM. 1506..	SDN15TM	SS0410M	CT0015M	CS0627M	
TDNNN 3232-P15	●	32	32	16	170	40						
TDNNN 4040-R15	●	40	40	20	200	45						



SN\*\*

## TSDNN



45°

Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TSDNN 2020-K12	●	20	20	10	125	35	SNMG 1204..	SSN12TM	SS0410M	CT0012M	CS0627M	A3
TSDNN 2525-M12	●	25	25	12.5	150	40						
TSDNN 3232-P15	●	32	32	16	170	40	SNMG 1506	SSN15TM	SS0510M	CT0015M	CS0627M	A3
TSDNN 4040-R15	●	40	40	20	200	45						
TSDNN 3232-P19	●	32	32	16	170	40	SNMG 1906	SSN19TM	SS0510M	CT0019M	CS0825M	A5
TSDNN 4040-R19	●	40	40	20	200	45						

● Stock item

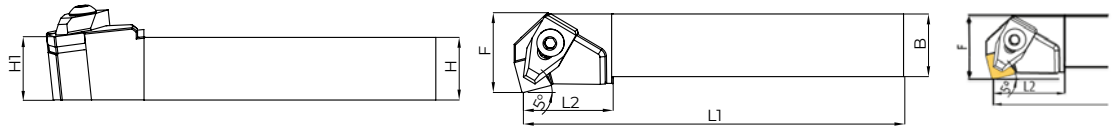
○ Non Stock item

△ Special order

T TYPE TOOL HOLDER



SN\*\*



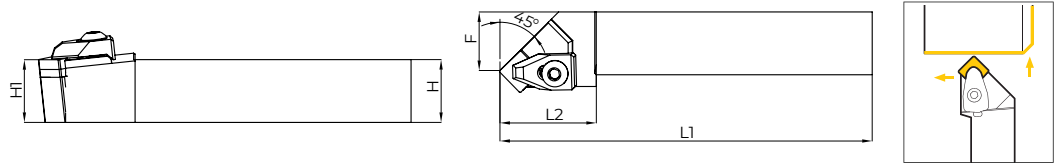
95°

TSLNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TSLNR/L 2020-K12	●	●	20	20	25	125	35	SNMG 1204	SSN12TM	SS0410M	CT0012M	CS0627M	A3
TSLNR/L 2525-M12	●	●	25	25	32	150	40	SNMG 1204	SSN12TM	SS0410M	CT0012M	CS0627M	A3
TSLNR/L 3232-P12	●	●	32	32	40	170	40	SNMG 1204	SSN12TM	SS0410M	CT0012M	CS0627M	A3
TSLNR/L 3232-P15	●	●	32	32	40	170	40	SNMG 1506	SSN15TM	SS0510M	CT0015M	CS0627M	A3
TSLNR/L 3232-P19	●	●	32	32	40	170	40	SNMG 1906	SSN19TM	SS0510M	CT0019M	CS0815M	A5
TSLNR/L 4040-P15	●	●	40	40	50	170	40	SNMG 1506	SSN15TM	SS0510M	CT0015M	CS0627M	A3
TSLNR/L 4040-R19	●	●	40	40	50	200	45	SNMG 1906	SSN19TM	SS0510M	CT0019M	CS0825M	A5



SN\*\*



45°

TSSNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TSSNR/L 2020-K12	●	●	20	20	19	125	35	SNMG 1204	SSN12TM	SS0410M	CT0012M	CS0627M	A3
TSSNR/L 2525-M12	●	●	25	25	24	150	40						
TSSNR/L 3232-P12	●	●	32	32	30	170	40						
TSSNR/L 3232-P15	●	●	32	32	30	170	40	SNMG 1506	SSN15TM	SS0410M	CT0015M	CS0627M	A3
TSSNR/L 3232-P19	●	●	32	32	30	170	40	SNMG 1906	SSN19TM	SS0510M	CT0019M	CS0825M	A5
TSSNR/L 4040-R19	●	●	40	40	38	200	45						

● Stock item

○ Non Stock item

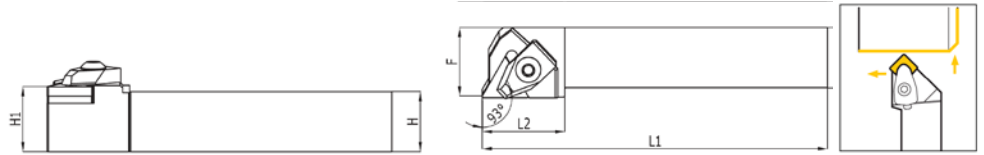
△ Special order

## T TYPE TOOL HOLDER



TN\*\*

## TTJNR/L



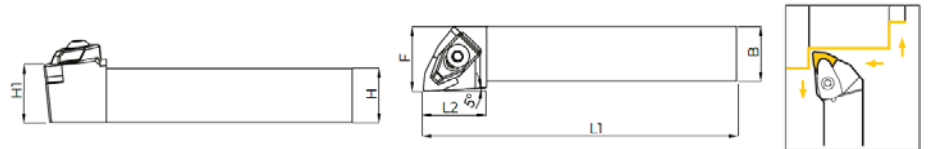
93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TTJNR/L 1616-H16	●	●	16	16	21	100	30	TNMG 1604	STN16TMM	SS0410M	CT0016M	CS0523M	A3
TTJNR/L 2020-K16	●	●	20	20	25	125	35						
TTJNR/L 2525-M16	●	●	25	25	32	150	40						
TTJNR/L 2020-K22	●	●	20	20	25	125	35	TNMG 2204	STN22TMM	SS0410M	CT0022M	CS0627M	
TTJNR/L 2525-M22	●	●	25	25	32	150	40						
TTJNR/L 3232-P22	●	●	32	32	40	170	40						
TTJNR/L 4040-R22	●	●	40	40	50	200	45	TNMG 2204	STN22TMM	SS0410M	CT0022M	CS0627M	A3



WN\*\*

## TWLNR/L



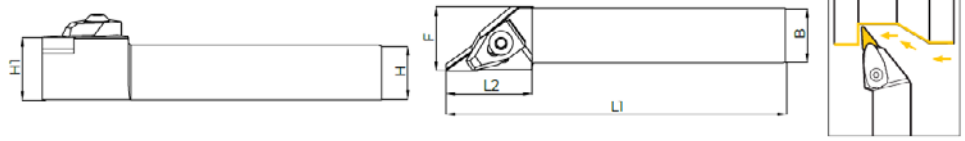
95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S20R TWLNR/L-06	●	●	20	25	13	200	40	WNM. 0602..	-	-	CT06105M	CS0520M	A3
A20R TWLNR/L-06	●	●	20	25	13	200	40						
S25S TWLNR/L-08	●	●	25	32	17	250	50	WNM. 0804..	SWN08TMM	SS0410M	CT080105M	CS0627M	
A25S TWLNR/L-08	●	●	25	32	17	250	50						
S32T TWLNR/L-08	●	●	32	40	22	300	60						
S40V TWLNR/L-08	●	●	40	50	27	400	70						
S50W TWLNR/L-08	●	●	50	63	35	450	75						
S60W TWLNR/L-08	●	●	60	75	40	450	75						

T TYPE TOOL HOLDER



VN\*\*



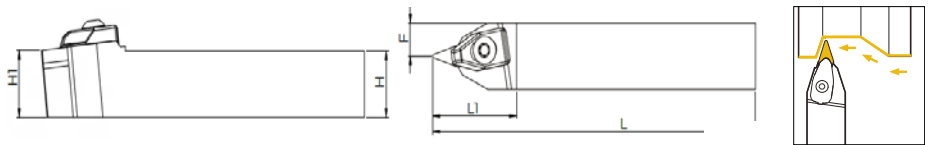
93°

TVJNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TVJNR/L 1616-K16	●	●	16	16	25	125	35	VNMG 1604	SVN16TM	SS0411M	CT0016M	CS0627M	A3
TVJNR/L 2020-K16	●	●	20	20	25	125	35						
TVJNR/L 2525-M16	●	●	25	25	32	150	40						
TVJNR/L 3232-P16	●	●	32	32	40	170	40						
TVJNR/L 4040-R16	●	●	40	40	50	200	45						



VN\*\*



72.5°

TVNNN

Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TVNNN 2020-K16	●	20	20	10	125	30	VNMG 1604	SVN16TM	SS0411M	CT0116M	CS0627M	A3
TVNNN 2525-M16	●	25	25	12.5	150	35						
TVNNN 3232-P16	●	32	32	16	170	40						
TVNNN 4040-P16	●	40	40	16	170	40						

● Stock item

○ Non Stock item

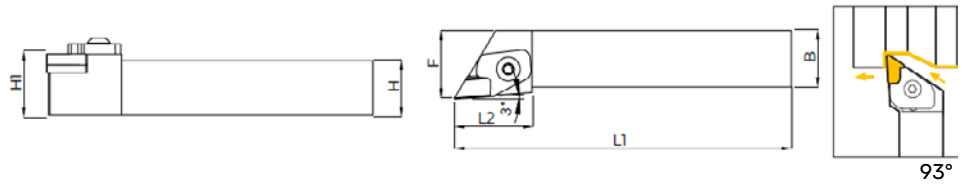
△ Special order

## C TYPE TOOL HOLDER



KN\*\*

CKJNR/L



Turning

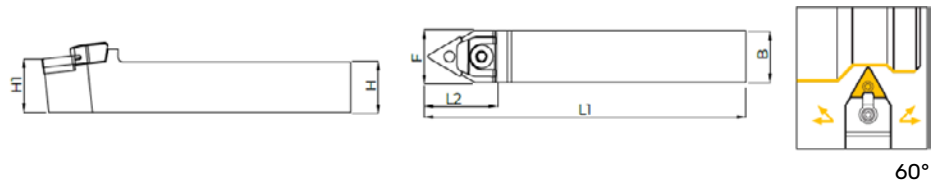
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Screw	Clamp	Screw
CKJNR/L 2020-K16	●	●	20	20	25	125	35	KNUX 1604..	SK16RCM	SS0310M	CC0016M	CS0622M	A5
CKJNR/L 2525-M16	●	●	25	25	32	150	40						
CKJNR/L 3232-P16	●	●	32	32	40	170	40						
CKJNR/L 4040-R16	●	●	40	40	50	200	45						

## M TYPE TOOL HOLDER



TN\*\*

MTENN



60°

Order Code	Stock Availability	Dimensions (mm)						Insert	Spare Parts				
		H1	H	B	F	L1	L2		Shim	Shim Pin	Clamp	Screw	Allen Key
MTENN 1616-K16	●	16	16	8	125	30	TNMG 1604	STN16TMM	SP053615M	CM0016M	CS0627M	A3	
MTENN 2020-K16	●	20	20	10	125	35							
MTENN 2525-M16	●	25	25	12,5	150	40							
MTENN 3232-P16	●	32	32	16	170	35							
MTENN 2525-M22	●	25	25	12,5	150	40	TNMG 2204	STN22TMM	SPTN22M	CM0022M			
MTENN 3232-P22	●	32	32	16	170	40							
MTENN 4040-R22	●	40	40	20	200	45							

● Stock item

○ Non Stock item

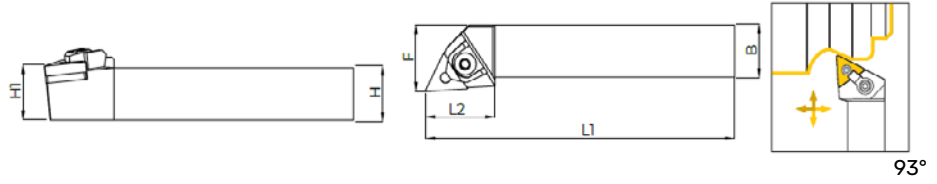
△ Special order

M TYPE TOOL HOLDER



TN\*\*

MTJNR/L



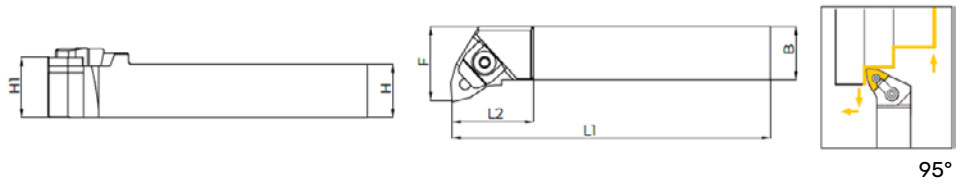
93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
			H1	H	B	F	L1		L2	Shim	Shim Pin	Clamp	Screw
MTJNR/L 1616-K16	●	●	16	16	20	125	35	TNMG 1604	STN16TMM	SPO53615M	CM0016M	CS0627M	A3
MTJNR/L 2020-K16	●	●	20	20	25	125	35						
MTJNR/L 2525-M16	●	●	25	25	32	150	40						
MTJNR/L 3232-P16	●	●	32	32	40	170	40	TNMG 2204	STN22TMM	SPTN22M	CM022M	CS0627M	A3
MTJNR/L 2525-M22	●	●	25	25	32	150	40						
MTJNR/L 3232-P22	●	●	32	32	40	170	40						
MTJNR/L 4040-R22	●	●	40	40	50	200	45						



WN\*\*

MWLNRL



95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
			H1	H	B	F	L1		L2	Shim	Shim Pin	Clamp	Screw
MWLNRL/L 1616-H06	●	●	16	16	30	100	35	WNM.0602..	SWN06MM	SP053615M	CM0006M	CS0523M	A3
MWLNRL/L 2020-K06	●	●	20	20	25	125	35						
MWLNRL/L 2525-M06	●	●	25	25	32	150	40						
MWLNRL/L 2020-K08	●	●	20	20	25	125	35	WNM.0804..	SWN08MM	SPTN22M	CM0008M	CS0627M	A3
MWLNRL/L 2525-M08	●	●	25	25	32	150	40						
MWLNRL/L 3232-P08	●	●	32	32	40	170	40						
MWLNRL/L 4040-R08	●	●	40	40	50	200	45						

● Stock item

○ Non Stock item

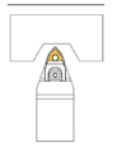
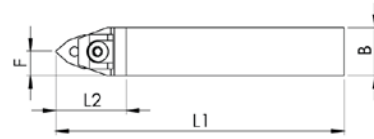
△ Special order

## M TYPE TOOL HOLDER



WN\*\*

MWDNN



50°

Turning

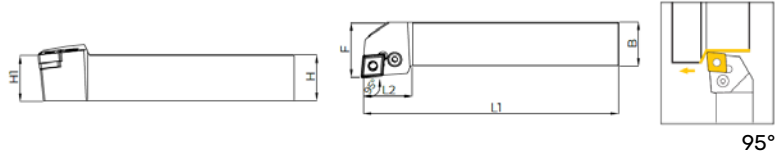
Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Pin	Clamp	Screw
MWDNN 1616-K06	●	16	16	8	125	35	WNM.0604	SWN06MM	SP053615M	CM0006M	CS0523M	A3
MWDNN 2020-K06	●	20	20	10	125	35						
MWDNN 2020-K08	●	20	20	10	125	40	WNM.0804..	SWN08MM	SP0658M	CM0008M	CS0627M	
MWDNN 2525-M08	●	25	25	12,5	150	40						
MWDNN 3232-P08	●	32	32	16	170	40						
MWDNN 4040-R08	●	40	40	20	200	45						

● Stock item

○ Non Stock item

△ Special order

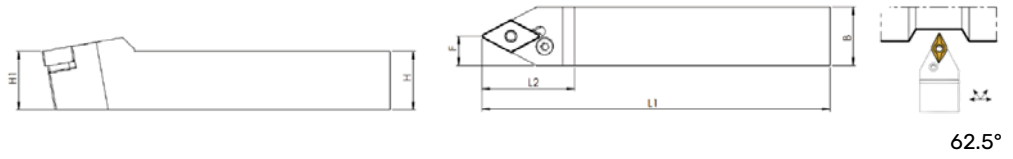
P TYPE TOOL HOLDER



PCLNR/L

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Crowbar	Metal Sheet
PCLNR/L 2020-K12	•	•	20	20	25	125	35	CNM. 1204..	SCN12PM	SM8KM	CPL012M	SSP012M	A3
PCLNR/L 2525-M12	•	•	25	25	32	150	35						
PCLNR/L 3232-P12	•	•	32	32	40	170	40						
PCLNR/L 4040-R12	•	•	40	40	50	200	40	CNM. 1606..	SCN16PM	SM8UM	CPL016M	SSP016M	A4
PCLNR/L 2525-M16	•	•	25	25	32	150	40						
PCLNR/L 3232-P16	•	•	32	32	40	170	40						
PCLNR 4040-R16		•	40	40	50	200	45	CNM. 1906..	SCN19PM		CPL019M	SSP019M	
PCLNR/L 3232-P19	•	•	32	32	40	170	40						
PCLNR 4040-R19		•	40	40	50	200	45						



PDNNN

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts					
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Crowbar	Metal Sheet	Allen Key
PDNNN 2020-K16		•	20	20	25	125	35	DNM1606	SDN16PM	SM8KM	CPL015M	SSP015M	A3	
PDNNN 2525-M16		•	25	25	32	150	40							
PDNNN 3232-P16		•	32	32	40	170	40			SM8UM				A4
PDNNN 4040-R16		•	40	40	45	200	45							

● Stock item

○ Non Stock item

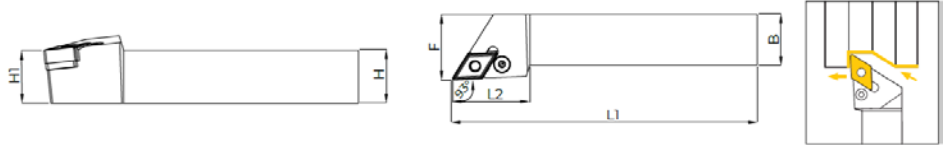
△ Special order

## P TYPE TOOL HOLDER



DN\*\*

## PDJNR/L



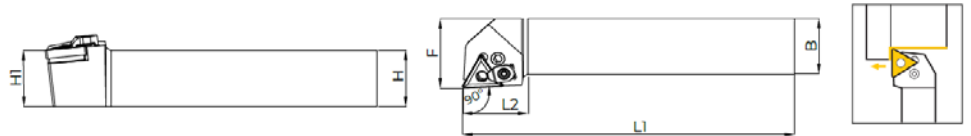
93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Crowbar	Metal Sheet
PDJNR/L 2020-K15	•	•	20	20	25	125	35	DNM. 1506..	SDN15PM	SM8KM	CPL015M	SSP015M	A3
PDJNR/L 2525-M15	•	•	25	25	32	150	40						
PDJNR/L 3232-P15	•	•	32	32	40	170	40						
PDJNR/L 4040-R15	•	•	40	40	45	200	45						



TN\*\*

## PTJNR/L



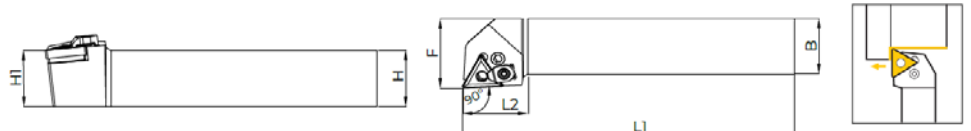
93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Crowbar	Metal Sheet
PTJNR 2020-K16		•	20	20	25	125	35	TNMG 1604	STN16PM	SM8KM	CPL016M	SSP016M	A3
PTJNR 2525-M16		•	25	25	32	150	40			SM8KM			
PTJNR 3232-P16		•	32	32	40	170	40			SM8UM			
PTJNR/L 2525-M22	•	•	25	25	32	150	40	TNMG 2204	STN22PM	SM8KM	CPL022M	SSP022M	A4
PTJNR/L 3232-P22	•	•	32	32	40	170	40			SM8UM			
PTJNR 4040-R22		•	40	40	50	200	45						



WN\*\*

## PWLNR/L



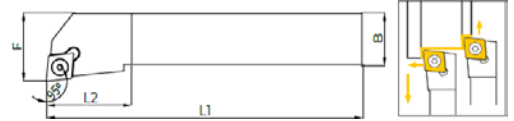
95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts					
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Crowbar	Metal Sheet	Allen Key
PWLNR/L 2020-K08	•	•	20	20	25	125	35	WNM.0804..	SWN08PM	SM8KM	CPL08M	SSP08M	A3	
PWLNR/L 2525-M08	•	•	25	25	32	150	40			SM8UM				A4
PWLNR/L 3232-P08	•	•	32	32	40	170	40							
PWLNR/L 4040-R08	•	•	40	40	50	200	45							

## S TYPE TOOL HOLDER



CC\*\*



95°

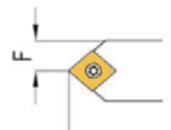
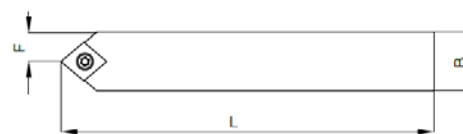
## SCLCR/L

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SCLCR/L 0808-H06	●	●	8	8	10	100	20	CC.T 0602..	-	-	-	SM2,5X7	T8
SCLCR/L 1010-H06	●	●	10	10	12	100	20						
SCLCR/L 1212-H06	●	●	12	12	15	100	20						
SCLCR/L 1616-H06	●	●	16	16	20	100	25						
SCLCR/L 1212-H09	●	●	12	12	15	100	20	CC.T 09T3..	-	-	-	T15	
SCLCR/L 1616-H09	●	●	16	16	20	100	25						
SCLCR/L 2020-K09	●	●	20	20	25	125	35						
SCLCR/L 2525-M09	●	●	25	25	32	150	35						
SCLCR/L 1616-H12	●	●	16	16	20	100	25	CC.T 1204..	SCC12SM	SS0610M	-	T15	
SCLCR/L 2020-K12	●	●	20	20	25	125	35						
SCLCR/L 2525-M12	●	●	25	25	32	150	35						
SCLCR/L 3232-P12	●	●	32	32	40	170	40						



CC\*\*



50°

## SCNCN

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SCNCN 0808-H06	●		8	8	4	100	16	CC.T 0602..	-	-	-	SM2,5X7	T8
SCNCN 1010-H06	●		10	10	5	100	16						
SCNCN 1212-H06	●		12	12	6	100	20						
SCNCN 1212-H09	●		12	12	6	100	20	CC.T 09T3..	-	-	-	T15	
SCNCN 1616-H09	●		16	16	8	100	25						
SCNCN 2020-K09	●		20	20	10	125	35						
SCNCN 2525-M12	●		25	25	12,5	150	40	CC.T 1204..	SCC12SM	SS0610M	-	SM4X16	

● Stock item

○ Non Stock item

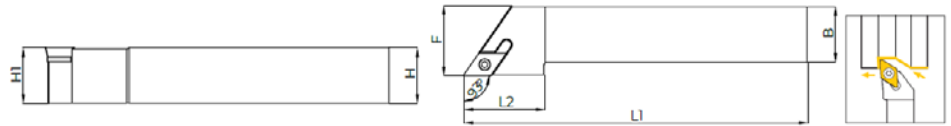
▲ Special order

## S TYPE TOOL HOLDER



DC\*\*

## SDJCR/L



93°

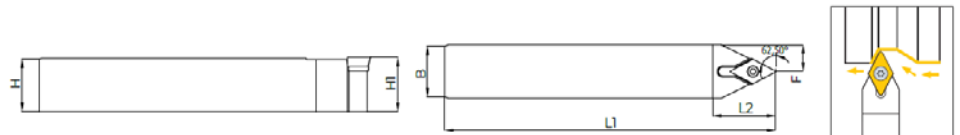
Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SDJCR/L 0808-H07	•	•	8	8	10	100	16	DC.T 0702..	-	-	-	SM2,5X7	T8
SDJCR/L 1010-H07	•	•	10	10	12	100	16						
SDJCR/L 1212-H07	•	•	12	12	16	100	20						
SDJCR/L 1616-H07	•	•	16	16	20	100	25						
SDJCR/L 1616-H11	•	•	16	16	20	100	25						
SDJCR/L 2020-K11	•	•	20	20	25	125	35	DC.T 11T3..	SDC11SM	SS050535M	-	SM3,5X14	T15
SDJCR/L 2525-M11	•	•	25	25	32	150	40						
SDJCR/L 3232-P11	•	•	32	32	40	170	40						



DC\*\*

## SDNCN



62.5°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SDNCN 0808-H07	•		8	8	4	100	16	DC.T 0702..	-	-	-	SM2,5X7	T8
SDNCN 1010-H07	•		10	10	5	100	16						
SDNCN 1212-H07	•		12	12	6	100	20						
SDNCN 1616-H07	•		16	16	8	100	25						
SDNCN 1212-M11	•		12	12	6	150	20	DC.T 11T3..	SDC11SM	SS050535M	-	SM3,5X14	T15
SDNCN 1616-H11	•		16	16	8	100	25						
SDNCN 2020-K11	•		20	20	10	125	35						
SDNCN 2525-M11	•		25	25	12,5	150	40						
SDNCN 3232-P11	•		32	32	16	170	45						

● Stock item

○ Non Stock item

△ Special order

S TYPE TOOL HOLDER



RC\*\*



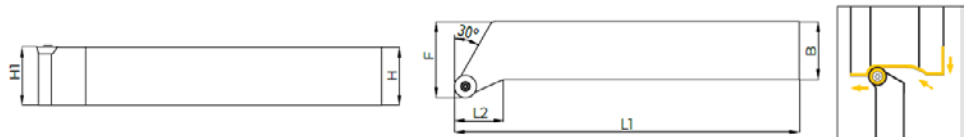
SRDCN

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SRDCN 1616-H08	•		16	16	8	100	20	RC.T 0803.	-	-	-	SM3X10	T10
SRDCN 2020-K08	•		20	20	10	125	30		-	-	-		
SRDCN 2525-M08	•		25	25	12,5	150	35		-	-	-		
SRDCN 1616-H10	•		16	16	8	100	20	RC.T 10T3..	-	-	-	SM4X12	T15
SRDCN 2020-K10	•		20	20	10	125	30		-	-			
SRDCN 2525-M10	•		25	25	12,5	150	35		-	-			
SRDCN 3232-P10	•		32	32	16	170	40	RC.T 1204..	-	-	-	SM4X12	T15
SRDCN 2020-K12	•		20	20	10	125	30		-	-			
SRDCN 2525-M12	•		25	25	12,5	150	35		-	-			
SRDCN 3232-P12	•		32	32	16	170	40	RC.T 1604..	-	-	-	SM5X12	T20
SRDCN 2525-M16	•		25	25	12,5	150	35		-	-			



RC\*\*



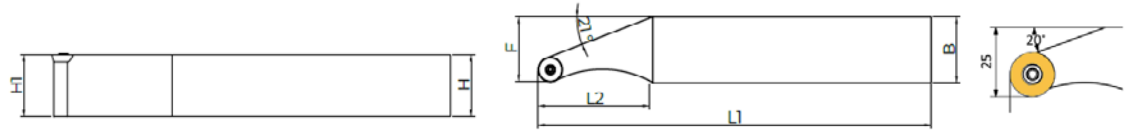
SRGCR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SRGCR/L 1616-K08	•	•	16	16	21	125	25	RC.T 0803..				SM3X10	T10
SRGCR/L 1616-H10	•	•	16	16	21	100	25	RC.T 10T3..				SM4X12	T15
SRGCR/L 2525-M08	•	•	20	20	25	125	35	RC.T 0803..	-	-	-	SM3X10	T10
SRGCR/L 2525-M08	•	•	25	25	32	150	40		-	-	-		
SRGCR/L 2020-K10	•	•	20	20	25	125	35	RC.T 10T3..	-	-	-	SM4X12	T15
SRGCR/L 2525-M10	•	•	25	25	32	150	40		-	-			
SRGCR/L 2020-K12	•	•	20	20	25	125	35	RC.T 1204..	-	-	-	SM4X12	T15
SRGCR/L 2525-M12	•	•	25	25	32	150	40		-	-			
SRGCR/L 3232-P10	•	•	32	32	40	170	40	RC.T 10T3..					
SRGCR/L 3232-P12	•	•	32	32	40	170	40	RC.T 1204..					

## S TYPE TOOL HOLDER



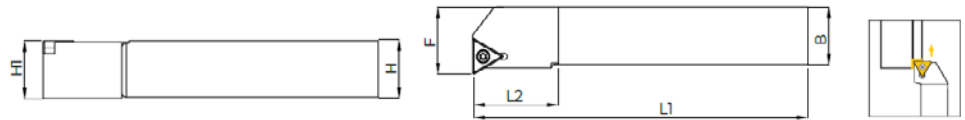
## SRHCR/L



Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts					
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw	Allen Key
SRHCR 1616-H08	●	●	16	16	16	16	100	20	RC.T 0803..	-	-	-	SM3X10	T10
SRHCR/L 2020-K08	●	●	20	20	20	20	125	35		-	-	-	SM3X10	T10
SRHCR/L 2525-M08	●	●	25	25	25	25	150	40	RC.T 10T3..	-	-	-	SM4X12	T15
SRHCR/L 2020-K10	●	●	20	20	20	20	125	35		-	-	-		
SRHCR/L 2525-M10	●	●	25	25	25	25	150	40	RC.T 1204..	-	-	-	SM4X12	T15
SRHCR 1616-K12	●	●	16	16	16	16	125	25		-	-	-		
SRHCR/L 2020-K12	●	●	20	20	20	20	125	35	RC.T 1204..	-	-	-	SM4X12	T15
SRHCR/L 2525-M12	●	●	25	25	25	25	150	40		-	-	-		
SRHCR/L 3232-K12	●	●	32	32	32	32	125	35	RC.T 1204..	-	-	-	SM4X12	T15



## STFCR/L



90°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts					
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw	Allen Key
STFCR/L 1212-H11	●	●	12	12	16	16	100	25	TC.T 11..	-	-	-	SM2,5X7	T8
STFCR/L 1616-H11	●	●	16	16	20	20	100	25		-	-	-	SM2,5X7	T8
STFCR/L 1616-H16	●	●	16	16	20	20	100	25	TC.T 16T3..	STC16SM	SS050535M	-	SM3,5X14	T15
STFCR/L 2020-K16	●	●	20	20	25	25	125	35		-	-	-	SM3,5X14	T15
STFCR/L 2525-M16	●	●	25	25	32	32	150	40		-	-	-	SM3,5X14	T15

● Stock item

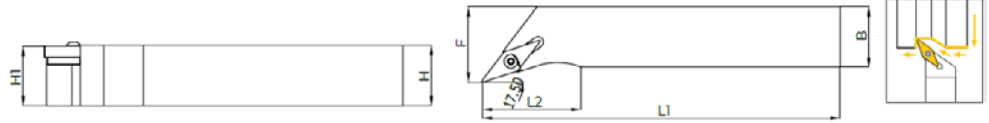
○ Non Stock item

△ Special order

S TYPE TOOL HOLDER



VB\*\*



107.5°

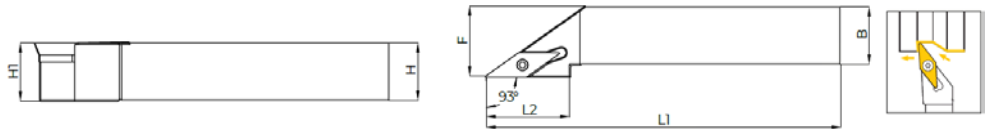
SVHBR/L

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVHBR/L 1616-H11	●	●	16	16	20	100	25	VBM. 1103..	-	-	-	SM2,5X7	T08
SVHBR/L 2020-K11	●	●	20	20	25	125	30		-	-	-	SM2,5X7	T08
SVHBR/L 2020-K16	●	●	20	20	25	125	35	VBM. 1604..	SVB16SM	SS050535M	-	SM3,5X14	T15
SVHBR/L 2525-M16	●	●	25	25	32	150	40						
SVHBR/L 3232-P16	●	●	32	32	40	170	40						



VB\*\*



93°

SVJBR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVJBR 1212-H11		●	12	12	20	100	20	VBM. 1103..	-	-	-	SM2,5X7	T08
SVJBR/L 1616-H11	●	●	16	16	20	100	25						
SVJBR/L 2020-K11	●	●	20	20	25	125	30						
SVJBR 2525-M11		●	25	25	32	150	40	VBM. 1604..	SVB16SM	SS050535M	-	SM3,5X14	T15
SVJBR/L 1616-H16	●	●	16	16	20	100	25						
SVJBR/L 2020-K16	●	●	20	20	25	125	35						
SVJBR/L 2525-M16	●	●	25	25	32	150	40						
SVJBR/L 3232-P16	●	●	32	32	40	170	40						

● Stock item

○ Non Stock item

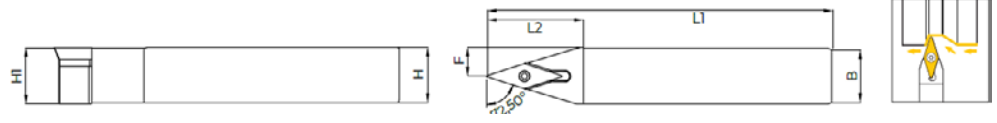
△ Special order

## S TYPE TOOL HOLDER



VB\*\*

## SVVBN



72.5°

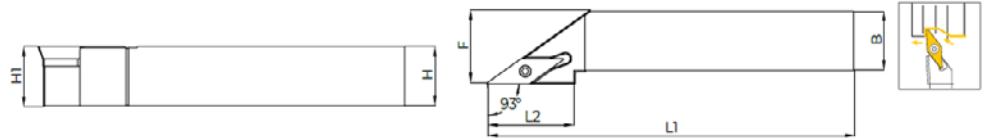
Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVVBN 1212-H11	•		12	12	6	100	20	VBM. 1103..	-	-	-	SM2,5X7	T08
SVVBN 1616-H11	•		16	16	8	100	25		-	-	-	SM2,5X7	T08
SVVBN 2020-K11	•		20	20	12,5	125	35		-	-	-	SM2,5X7	T08
SVVBN 1616-H16	•		16	16	8	100	25	VBM. 1604..	SVB16SM	SS050535M	-	SM3,5X14	T15
SVVBN 2020-K16	•		20	20	10	125	35						
SVVBN 2525-M16	•		25	25	12,5	150	40						
SVVBN 3232-P16	•		32	32	16	170	40						



VC\*\*

## SVJCR/L



93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVJCR/L 1212-H11	•	•	12	12	20	100	20	VCM. 1103..	-	-	-	SM2,5X7	T08
SVJCR/L 1616-H11	•	•	16	16	20	100	25		-	-	-	SM2,5X7	T08
SVJCR/L 2020-K11	•	•	20	20	25	125	35		-	-	-	SM2,5X7	T08
SVJCR/L 1616-H16	•	•	16	16	20	100	25	VCM. 1604..	SVC16SM	SS050535M	-	SM3,5X14	T15
SVJCR/L 2020-K16	•	•	20	20	25	125	35						
SVJCR/L 2525-M16	•	•	25	25	32	150	40						
SVJCR/L 3232-P16	•	•	32	32	40	170	40						

● Stock item

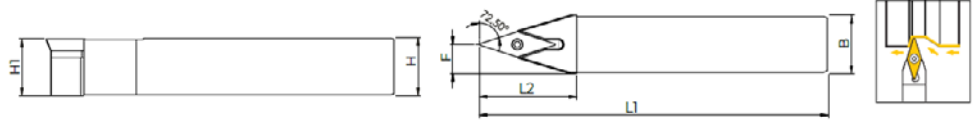
○ Non Stock item

△ Special order

S TYPE TOOL HOLDER



VC\*\*



SVVCN

72.5°

Turning

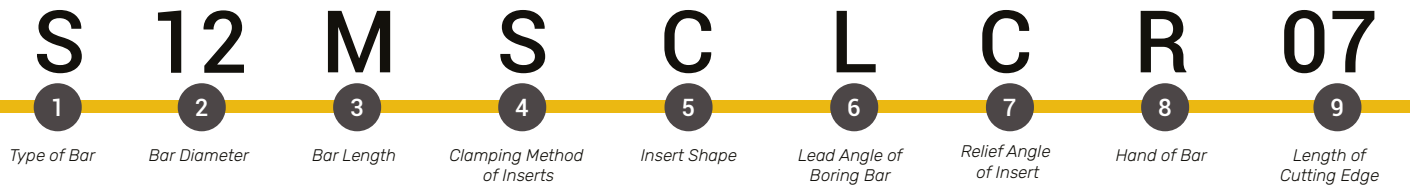
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVVCN 1212-H11		●	12	12	6	100	20	VCM. 1103..	-	-	-	SM2,5X7	T08
SVVCN 1616-H11		●	16	16	8	100	25						
SVVCN 2020-K11		●	20	20	12,5	125	35						
SVVCN 1616-H16		●	16	16	8	100	25	VCM. 1604..	SVC12SM	SS050535M	-	SM3,5X14	T15
SVVCN 2020-K16		●	20	20	10	125	35						
SVVCN 2525-M16		●	25	25	12,5	150	40						
SVVCN 3232-P16		●	32	32	16	170	40						

● Stock item

○ Non Stock item

△ Special order

# INTERNAL TURNING TOOL HOLDER CODE SYSTEM



**1** Type of Bar  
**S**12M - SCLCR - 07

- "A" Steel with coolant hole
- "E" Carbide bar with ficed steel head and coolant hole
- "C" Carbide Shank
- "S" Steel Shank
- "X" Special type

**2** Bar Diameter  
 S**12**M - SCLCR - 07

**3** Bar length  
 S12**M** - SCLCR - 07

Length (L)	(mm)
H	100
J	110
K	125
M	150
N	160
Q	180
R	200
S	250
T	300
U	350
V	400
W	450
Y	500

**4** Clamping Method of Inserts  
 S12M - **S**CLCR - 07

**5** Insert Shape  
 S12M - S**C**LCR - 07

**6** Lead Angle of Boring Bar  
 S12M - SC**L**CR - 07

**8** Hand of Bar  
 S12M - SCLC**R** - 07

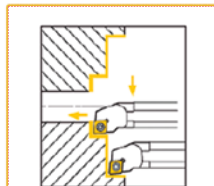
**7** Relief Angle of Insert  
 S12M - SCL**C**R - 07

**9** Length of Cutting Edge  
 S12M - SCLC**R** - 07

Turning

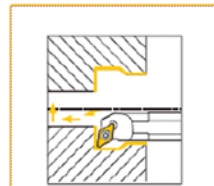
# OVERVIEW - INTERNAL TURNING

S.../A...SCLCR/L



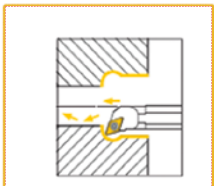
Page:59 95°

S.../A...SDUCR/L



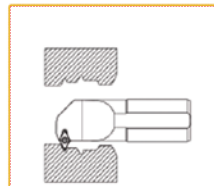
Page:60 93°

S.../A...SDQCR/L



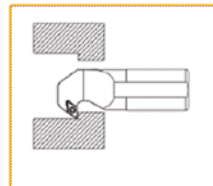
Page:61 107.5°

S...SD-CR/L



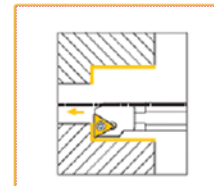
Page:62 62.5°

S...SDXCR/L



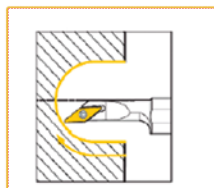
Page:62 62.5°

S...STFCR/L



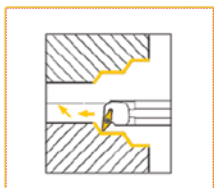
Page:63 90°

S...SVJBR/L



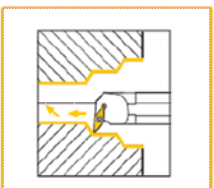
Page:61 93°

S...SVUBR/L



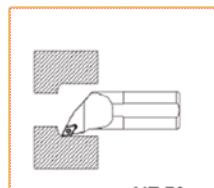
Page:63 93°

S...SVUCR/L



Page:64 93°

S...SDPCR/L



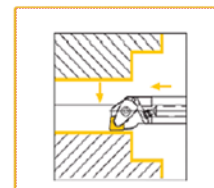
Page:64 117.5°

S...CKUNR/L



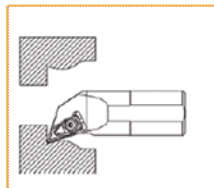
Page:65 93°

S...TCLNR/L



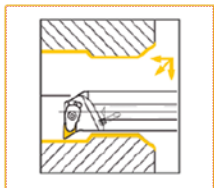
Page:65 95°

S...TDQNR/L



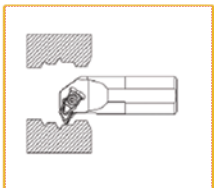
Page:64 107.5°

S...TDUNR/L



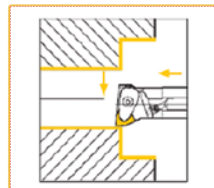
Page:66 93°

S...TD-NR/L



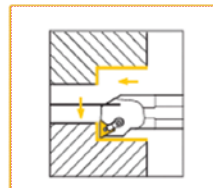
Page:67 62.5°

S...TWLNR/L



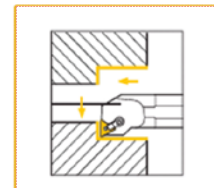
Page:67 95°

S...MTUNR/L



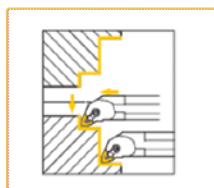
Page:68 93°

S...MT-NR/L



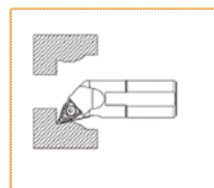
Page:68 60°

S...MWLNR/L



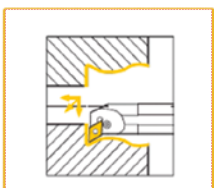
Page:69 95°

S...MTQNR/L



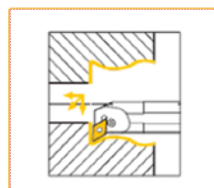
Page:69 107.5°

S...PCLNR/L



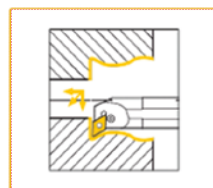
Page:70 95°

S...PDUNR/L



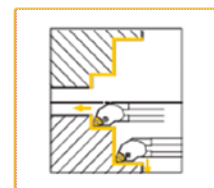
Page:70 93°

S...PTUNR



Page:71 93°

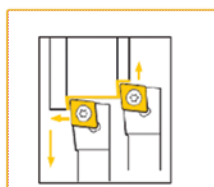
S...PWLNR/L



Page:71 95°

## ANTI-VIBRATION

SCLCR/L



Page:72 95°

SDUCR/L



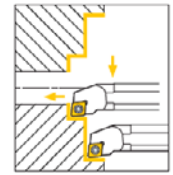
Page:72 93°

## S TYPE TOOL HOLDER



CC\*\*

S.../A...SCLCR/L



95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S06-08H SCLCR/L-06	●	●	8	10	6	100	30	CC.T 0602..	-	-	SM2,5X5	T08
A06-08H SCLCR/L-06	●	●	8	10	6	100	30					
S08H SCLCR/L-06	●	●	8	11	6	100	25					
A08H SCLCR/L-06	●	●	8	11	6	100	25					
S10K SCLCR/L-06	●	●	10	13	7	125	25					
A10K SCLCR/L-06	●	●	10	13	7	125	25					
S12K-SCLCR-06		●	12	12,5	7	125	25					
S12M SCLCR/L-06	●	●	12	16	9	150	30					
A12M SCLCR/L-06	●	●	12	16	9	150	30					
S16Q SCLCR/L-06	●	●	16	20	11	180	35					
A16Q SCLCR/L-06	●	●	16	20	11	180	35					
S12M SCLCR/L-09	●	●	12	16	9	150	30					
A12M SCLCR/L-09	●	●	12	16	9	150	30					
S16Q SCLCR/L-09	●	●	16	20	11	180	35					
A16Q SCLCR/L-09	●	●	16	20	11	180	35					
S20R SCLCR/L-09	●	●	20	25	13	200	40					
A20R SCLCR/L-09	●	●	20	25	13	200	40					
S25S SCLCR/L-09	●	●	25	32	17	250	50					
S32T SCLCR/L-09	●	●	32	40	23	300	60	CC.T 1204..	SCC125SM	SS060504M	SM4X11	
S25S SCLCR/L-12	●	●	25	32	17	250	50					
A25S SCLCR-12		●	25	32	17	250	50					
S32T SCLCR/L-12	●	●	32	40	23	300	60					
S40V SCLCR/L-12	●	●	40	50	27	400	70					

● Stock item

○ Non Stock item

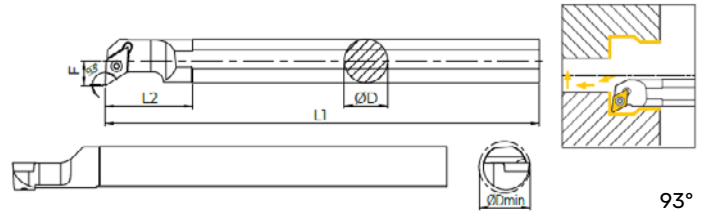
△ Special order

## S TYPE TOOL HOLDER



DC\*\*

S.../A...SDUCR/L



93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S10K SDUCR/L-07	●	●	10	13	7,5	125	25	DC.T 0702..	-	-	SM2,5X5	T08
A10K SDUCR/L-07	●	●	10	13	7,5	125	25					
S12M SDUCR/L-07	●	●	12	16	9	150	30					
A12M SDUCR/L-07	●	●	12	16	9	150	30					
S16Q SDUCR/L-07	●	●	16	20	11	180	35					
S20R SDUCR/L-07	●	●	20	25	13	200	40					
S25S SDUCR/L-07	●	●	25	32	17,5	250	50					
S16Q SDUCR/L-11	●	●	16	20	11	180	35	DC.T 11T3..	-	-	SM3,5X8	T15
A16Q SDUCR/L-11	●	●	16	20	11	180	35					
S20R SDUCR/L-11	●	●	20	25	13	200	40					
A20R SDUCR/L-11	●	●	20	25	13	200	40					
S25S SDUCR/L-11	●	●	25	32	17,5	250	50					
A25R SDUCR/L-11	●	●	25	32	17,5	200	50					
S32T SDUCR/L-11	●	●	32	40	23	300	60					
S40V SDUCR/L-11	●	●	40	50	27	400	60	SDC11SM	SS050535M			

● Stock item

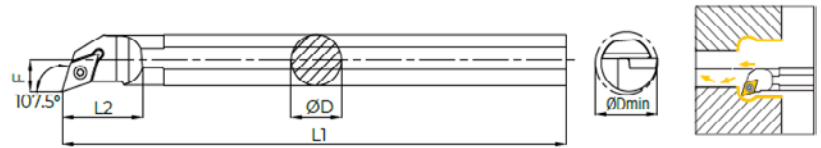
○ Non Stock item

▲ Special order

## S TYPE TOOL HOLDER



DC\*\*

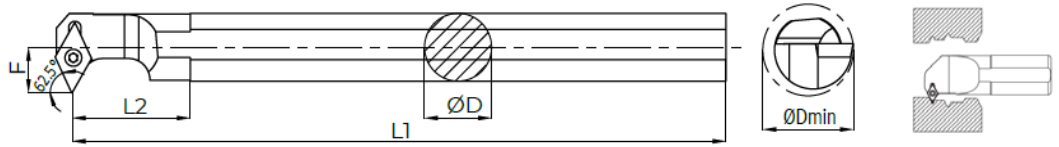


S.../A...SDQCR/L

107.5°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S10K SDQCR/L-07	•	•	10	13	7,5	125	25	DC.T 0702..	-	-	SM2,5X5	T08
A10K SDQCR-07		•	10	12	7,5	125	25					
S12M SDQCR/L-07	•	•	12	16	9	150	30					
A12M SDQCR-07		•	12	16	9	150	30					
S16Q SDQCR/L-07	•	•	16	20	11	180	35					
S20R SDQCR/L-07	•	•	20	25	13	200	40					
S25S SDQCR/L-07	•	•	25	32	17,5	250	50					
S16Q SDQCR/L-11	•	•	16	20	11	180	35	DC.T 11T3..	-	-	SM3,5X8	T15
A16Q SDQCR-11		•	16	20	11	180	35					
S20R SDQCR/L-11	•	•	20	25	13	200	40					
A20R SDQCR-11		•	20	25	13	200	40					
S25S SDQCR/L-11	•	•	25	32	17,5	250	50					
S32T SDQCR/L-11	•	•	32	40	23	300	60				SDC11SM	

S TYPE TOOL HOLDER

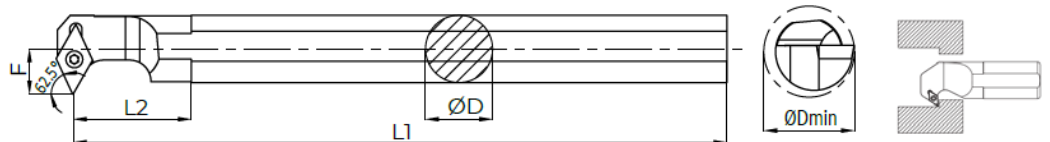


S...SD-CR/L

62.5°

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S10K SD-CR/L-07	•	•	10	14	8,5	125	28	DC.T 0702..	-	-	SM2,5X5	T08
S12M SD-CR/L-07	•	•	12	16	9	150	30				SM2,5X7	
S16Q SD-CR/L-07	•	•	16	23	14	180	40				SM3,5X8	
S16Q SD-CR/L-11	•	•	16	23	14	180	40	DC.T 11T3..	-	-	SM3,5X10	T15
S20R SD-CR/L-11	•	•	20	25	14,5	200	45				SM3,5X14	
S25S SD-CR/L-11	•	•	25	32	19	250	55				SDC11SM	
S32T SD-CR/L-11	•	•	32	40	23	300	60					
S40V SD-CR/L-11	•	•	40	50	27	400	70					



S...SDXCR/L

93°

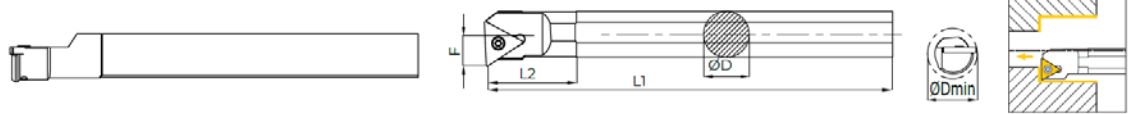
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S12M SDXCR/L-07	•	•	12	16	9	150	30	DC.T 0702..	-	-	M2,5X5	T08
S16Q SDXCR/L-07	•	•	16	22	12,5	180	40				M2,5X7	
S16Q SDXCR/L-11	•	•	16	22	12,5	180	40				M3,5X8	
S20R SDXCR/L-11	•	•	20	25	14	200	55	DC.T 11T3..	-	-	M3,5X10	T15
S25S SDXCR/L-11	•	•	25	32	17,5	250	65				M3,5X14	
S32T SDXCR/L-11	•	•	32	40	23	300	80				SDC11SM	
S40V SDXCR/L-11	•	•	40	50	27	400	80					

● Stock item

○ Non Stock item

△ Special order

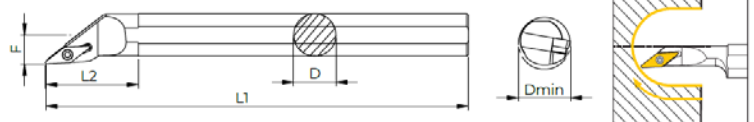
## S TYPE TOOL HOLDER



## S...STFCR/L

90°

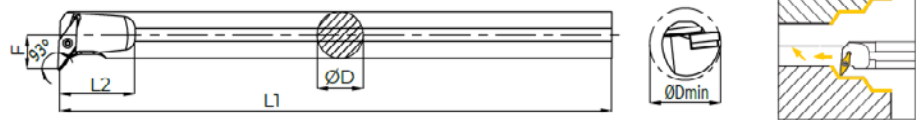
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S12M STFCR-11		•	12	15,5	9	150	30	TC.T 11	-	-	M2,5X6	T08
S16Q STFCR/L-16	•	•	16	20	11	180	35	TC.T 16T3..	-	-	SM3,5X8	T15
S20R STFCR/L-16	•	•	20	25	13	200	40		STC165M	SS050535M	SM3,5X11	
S25S STFCR/L-16	•	•	25	32	17,5	250	50					
S32T STFCR/L-16	•	•	32	40	23	300	60					



## S...SVJBR/L

93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S25S SVJBR/L-16	•	•	25	32	17	250	50	VBM. 1604..	SVC16SM	SS050535M	SM3,5X11	T15
S32T SVJBR/L-16	•	•	32	40	23	300	80					
S40V SVJBR-16		•	40	50	27	400	80					



## S...SVUBR/L

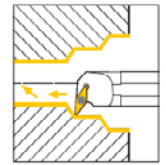
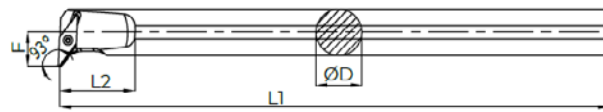
93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S16Q SVUBR/L-11	•	•	16	20	11	180	40	VBM. 1103..	-	-	SM2,5X7	T08
S20R SVUBR/L-11	•	•	20	25	13	200	40					
S25S SVUBR/L-16	•	•	25	32	17	250	50	VBM. 1604..	SVB16SM	SS050535M	SM3,5X11	T15
S32T SVUBR/L-16	•	•	32	40	22	300	60					
S40V SVUBR/L-16	•	•	40	50	27	400	70					

S TYPE TOOL HOLDER



VC\*\*



93°

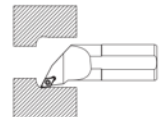
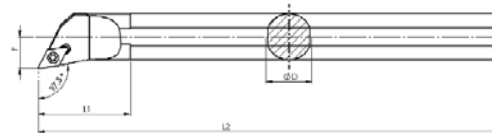
S...SVUCR/L

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S16Q SVUCR/L-11	•	•	16	20	11	180	40	VCM. 1103..	-	-	SM2,5X7	T08
S20R SVUCR/L-11	•	•	20	25	13	200	40		-	-	SM2,5X7	T08
S25S SVUCR/L-16	•	•	25	32	17	250	50	VCM. 1604..	SVC16SM	SS050535M	SM3,5X11	T15
S32T SVUCR/L-16	•	•	32	40	22	300	60					
S40V SVUCR/L-16	•	•	40	50	27	400	70					



DC\*\*



97.5°

S...SDPCR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S10K SDPCR/L-07	•	•	10	13	7,5	125	25	DC..T 0702	-	-	M2,5X5	T08
S12M SDPCR/L-07	•	•	12	16	9	150	30		-	-		
S16Q SDPCR/L-11	•	•	16	20	11	180	35	DC..T 11T3	-	-	M3,5X8	T15
S20R SDPCR/L-11	•	•	20	25	13	200	40		-	-		
S25S SDPCR/L-11	•	•	25	32	17,5	250	50		SDC11SM	SS050535M	M3,5X14	
S32T SDPCR/L-11	•	•	32	40	23	300	60					

● Stock item

○ Non Stock item

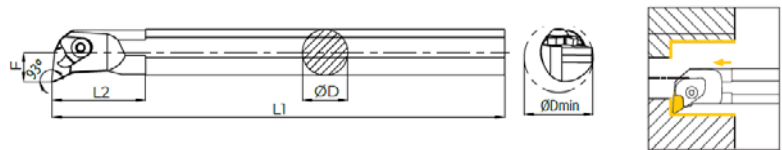
△ Special order

## C TYPE TOOL HOLDER



KN\*\*

S...CKUNR/L



93°

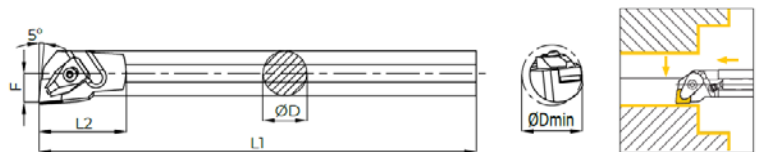
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S25S CKUNR/L-16	●	●	25	32	17	250	50	KNUX 1604	SKN16RCM SKN16LCM	SS0310M	CC0016M	CS0627M	A3
S32T CKUNR/L-16	●	●	32	40	22	300	60						
S40V CKUNR/L-16	●	●	40	50	27	400	65						
S50W CKUNR-16		●	50	63	35	450	70						
S50W CKUNR-16		●	60	75	40	450	70						

## T TYPE TOOL HOLDER



CN\*\*

S...TCLNR/L



95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S25S TCLNR/L-12	●	●	25	32	17	250	50	CNM. 1204..	SCN12TM	SS0410M	CT120105M	CS0620M	A3
S32T TCLNR/L-12	●	●	32	40	22	300	60						
S40V TCLNR/L-12	●	●	40	50	27	400	70						
S32T TCLNR/L-16	●	●	32	40	22	300	60	CNM. 1606..	SCN16TM	SS0508M	CT160105M	CS0627M	
S40V TCLNR/L-16	●	●	40	40	27	400	70						
S50W TCLNR/L-16	●	●	50	63	35	450	75						
S60W TCLNR/L-16	●	●	60	75	40	450	75						
S40V TCLNR/L-19	●	●	40	40	27	400	70	CNM. 1906..	SCN19TM	SS0508M	CT190105M	CS0825M	A5
S50W TCLNR-19		●	50	63	35	450	75						

● Stock item

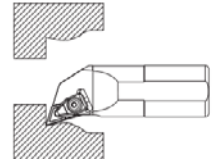
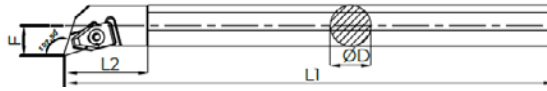
○ Non Stock item

△ Special order

T TYPE TOOL HOLDER



DN\*\*



S...TDQNR/L

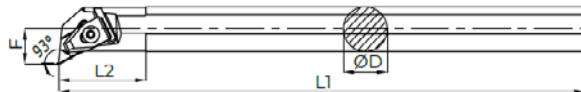
107.5°

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S25S TDQNR/L-15	●	●	25	32	17	250	50	DNM. 1506..	SDN15TM	SS0410M	CT150105M	CS0627M	A3
S32T TDQNR/L-15	●	●	32	40	22	300	60						
S40V TDQNR/L-15	●	●	40	50	27	400	70						
S50W TDQNR/L-15	●	●	50	63	35	450	75						



DN\*\*



S...TDUNR/L

93°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S20R TDUNR/L-11	●	●	20	25	13	200	40	DNM. 1104..	-	-	CT110105M	CS0523M	A3
S25S TDUNR/L-15	●	●	25	32	17	250	50	DNM. 1506..	SDN15TM	SS0410M	CT150105M	CS0627M	
S32T TDUNR/L-15	●	●	32	40	22	300	60						
S40V TDUNR/L-15	●	●	40	50	27	400	70						
S50W TDUNR/L-15	●	●	50	63	35	450	75						
S60W TDUNR/L-15	●	●	60	75	40	450	75						

● Stock item

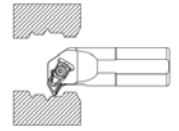
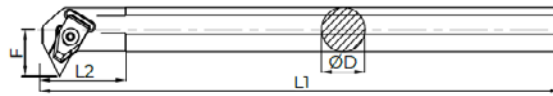
○ Non Stock item

△ Special order

## T TYPE TOOL HOLDER



DN\*\*



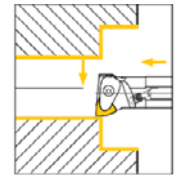
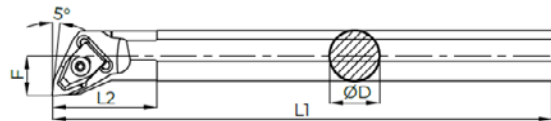
## S...TD-NR/L

62.5°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S32T TD-NR/L-15	●	●	32	43	26,5	300	60	DNM. 1506	SDN15TM	SS0410M	CT150105M	CS0627M	A3
S40V TD-NR/L-15	●	●	40	50	29,5	400	70						
S50W TD-NR-15		●	50	62	35	450	70						



WN\*\*



## S...TWLNR/L

95°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S20R TWLNR/L-06	●	●	20	25	13	200	40	W NM. 0602..	-	-	CT06105M	CS0520M	A3
A20R TWLNR/L-06	●	●	20	25	13	200	40						
S25S TWLNR/L-08	●	●	25	32	17	250	50	W NM. 0804..	SW N08TMM	SS0410M	CT080105M	CS0627M	
A25S TWLNR/L-08	●	●	25	32	17	250	50						
S32T TWLNR/L-08	●	●	32	40	22	300	60						
S40V TWLNR/L-08	●	●	40	50	27	400	70						
S50W TWLNR/L-08	●	●	50	63	35	450	75						
S60W TWLNR/L-08	●	●	60	75	40	450	75						

● Stock item

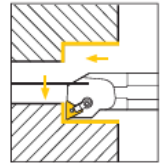
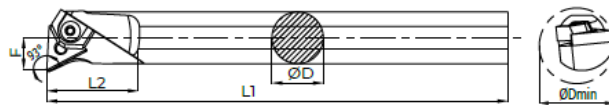
○ Non Stock item

△ Special order

M TYPE TOOL HOLDER



TN\*\*



93°

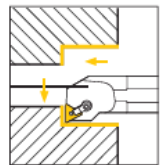
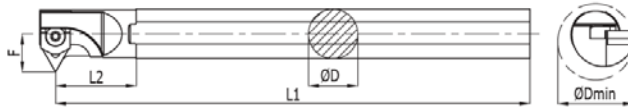
S...MTUNR/L

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Shim Pim	Clamp	Screw	Allen Key
S20R MTUNR/L-16	●	●	20	25	13	200	40	TNM. 1604..	-	-	CM0016M	CS0515M	A3
S25S MTUNR/L-16	●	●	25	32	17	250	50		STN16TMM	SP0536125M		CS0523M	
S32T MTUNR/L-16	●	●	32	40	22	300	60			SP053615M			
S40V MTUNR/L-16	●	●	40	50	27	400	70						
S32T MTUNR/L-22	●	●	32	40	22	300	60	TNM. 2204..	STN22TMM	SP060515M	CM0022M	CS0627M	
S40V MTUNR/L-22	●	●	40	50	27	400	70						
S50W MTUNR/L-22	●	●	50	63	35	450	75						



TN\*\*



60°

S...MT-NR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Shim Pim	Clamp	Screw	Allen Key
S20R MT-NR/L-16	●	●	20	25	16	200	40	TNM. 1604..	-	SP0536125M	CM0016M	CS0515M	A3
S25S MT-NR/L-16	●	●	25	32	19,5	250	50		STN16TMM	SP053615M		CS0523M	
S32T MT-NR/L-16	●	●	32	40	23	300	60						
S40V MT-NR/L-16	●	●	40	50	29,5	400	70						
S32T MT-NR-22		●	32	40	23	300	55	TNM. 2204..	STN22TMM	SPTN22M	CM0022M	CS0627M	
S40V MT-NR-22		●	40	50	29,5	400	70						
S50W MT-NR-22	●	●	50	32	35	450	70						

● Stock item

○ Non Stock item

△ Special order

## M TYPE TOOL HOLDER



WN\*\*



## S...MWLNR/L

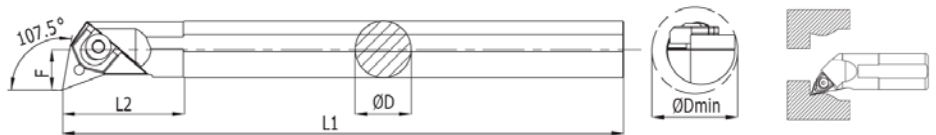
95°

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Shim Pim	Clamp	Screw	Allen Key
S16Q MWLNR/L-06	●	●	16	20	11	180	-5	WNM. 0604..	-	SP053615M	CM0006M	CS0515M	A3
S20R MWLNR/L-06	●	●	20	25	13	200	-5					CS06620M	
S25S MWLNR/L-08	●	●	25	32	17	250	-5	WNM. 0804..	SWN08TMM	SPWN08M	CM0008M	CS0627M	
S32T MWLNR/L-08	●	●	32	40	22	300	-5						
S40V MWLNR/L-08	●	●	40	50	27	400	-5						
S50W MWLNR/L-08	●	●	50	63	35	450	-5						



TN\*\*



## S...MTQNR/L

107.5°

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts						
	L	R	D	Dmin	F	L1	L2		Shim	Shim Pim	Clamp	Screw	Allen Key		
S20R MTQNR/L-16	●	●	20	25	13	200	40	TNMG 1604	-	SP0536125M	CM0016M	CS515M	A3		
S25S MTQNR/L-16	●	●	25	32	17	250	50					CS523M			
S232T MTQNR/L-16	●	●	32	40	22	300	60					STN16MM		SP053615M	CS523M
S40V MTQNR/L-16	●	●	40	50	27	400	70								CS523M
S32T MTQNR/L-22	●	●	32	40	22	300	60	TNMG 2204	STN22MM	SP06515M	CM0022M	CS627M			
S40V MTQNR/L-22	●	●	40	50	27	400	70					CS627M			

● Stock item

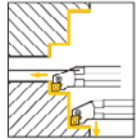
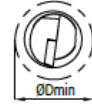
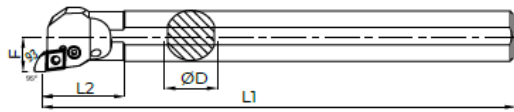
○ Non Stock item

△ Special order

P TYPE TOOL HOLDER



CN\*\*



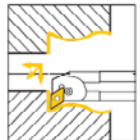
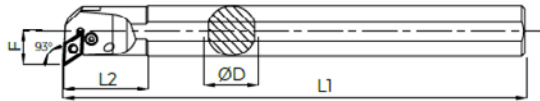
95°

S...PCLNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Metal Sheet	Screw	Lever	Allen Key
S25S PCLNR/L-12	●	●	25	32	17	250	50	CNM. 1204..	SCN12PM	SP012M	S00KM08M	LP012M	A3
S32T PCLNR/L-12	●	●	32	40	22	300	60						
S40V PCLNR/L-12	●	●	40	50	27	400	70						
S32T PCLNR-16		●	32	40	22	300	60	CNM. 1606..	SCN16PM	SP016M	S00KM08M	LP016M	A3
S40V PCLNR-16		●	40	50	27	400	70						
S40V PCLNR-19		●	40	50	27	400	70	CNM. 1906..	SCN19PM	SP019M	LP019M	A3	
S50W PCLNR-19		●	50	63	35	400	75						



DN\*\*



93°

S...PDUNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Metal Sheet	Screw	Lever	Allen Key
S25S PDUNR-15		●	25	32	17	250	50	DNM. 1506..	SDN15PM	SPM012M	S00KM8M	LP012M	A3
S32T PDUNR-15		●	32	40	22	300	60						
S40V PDUNR-15		●	40	50	27	400	70						
S50W PDUNR-15		●	50	63	35	450	75						

● Stock item

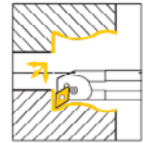
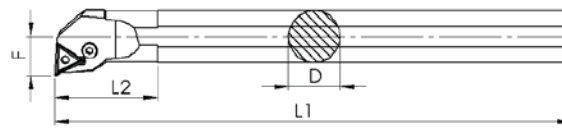
○ Non Stock item

△ Special order

## P TYPE TOOL HOLDER



TN\*\*



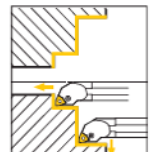
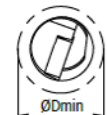
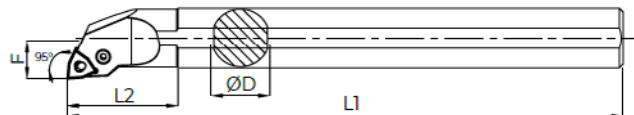
93°

## S...PTUNR

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts					
	L	R	D	Dmin	F	L1	L2		Shim	Metal Sheet	Screw	Lever	Allen Key	
S20R-PTUNR-16		●	20	25	13	200	40	TNMG 1604	-	SP016M	S00KM8M	LP016M	A3	
S25S-PTUNR-16		●	25	32	17	250	50	TNMG 1604	STN16PM					
S32T-PTUNR-16		●	32	40	22	300	60							
S32T-PTUNR-22		●	32	40	22	300	60							
S40V-PTUNR-22		●	40	50	27	400	70	TNM. 2204..	STN22PM	SP022M	S00KM8U	LP022M		
S50W-PTUNR-22		●	50	63	35	450	75							



WN\*\*



95°

## S...PWLNR/L

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Metal Sheet	Screw	Lever	Allen Key
S25M-PWLNR-08		●	25	32	17	250	50	WNM. 0804..	SWN08PM	SP008M	S00KM8M	LP012M	A3
S32P-PWLNR-08		●	32	40	22	300	60						
S40R-PWLNR-08		●	40	50	27	400	70						
S50W-PWLNR-08		●	50	63	35	450	75						

● Stock item

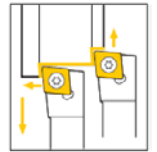
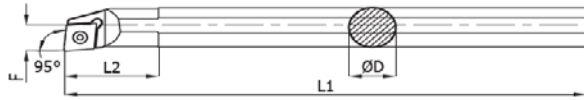
○ Non Stock item

△ Special order

ANTI-VIBRATION TOOLS



CC\*\*



95°

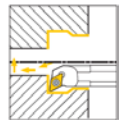
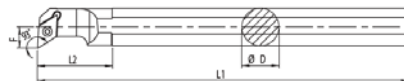
**SCLCR/L**

Turning

Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts		
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Allen Key
C8H SCLCR/L-06	•	•	8	11	6	100	30	CC.T 0602	-	SM2,5X5	T08
C8K SCLCR/L-06	•	•	8	11	6	125	25				
C10K SCLCR-06		•	10	13	7	125	25				
A10K SCLCR/L-06	•	•	10	13	7	125	25				
C12K SCLCR-06	•	•	12	16	9	125	30				
A12K SCLCR/L-06	•	•	12	16	9	125	30				
C16Q-SCLCR-09		•	16	20	11	180	35	CC.T 09T3	-	SM3,5X8	T15
C18Q SCLCR-/09	•	•	18	20	11	180	35				
C20M SCLCR-09		•	20	25	13	150	40				
C20Q SCLCR-09		•	20	25	13	180	40				
A20Q SCLCR-09		•	20	25	13	180	40				



DC\*\*



93°

**SDUCR/L**


Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts		
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Allen Key
C10K SDUCR-07		•	10	13	7,5	125	25	DC.T 0702	-	SM2,5X5	T08
A10K SDUCR/L-07	•	•	10	13	7,5	125	25				
C12K SDUCR/L-07	•	•	12	16	9	125	30				
A12K SDUCR/L-07	•	•	12	16	9	125	30				
C12M SDUCR-07		•	12	16	9	150	30				
C16K SDUCR-11		•	16	20	11	125	35	DC.T 11T3	-	SM3,5X8	T15
A16Q SDUCR/L-11	•	•	16	20	11	180	35				
C16Q SDUCR-11		•	16	20	11	180	35				
C18Q SDUCR-11		•	18	20	11	180	35				
C20K SDUCR-11		•	20	25	13	125	40				
C20Q SDUCR-11		•	20	25	13	180	40				
C20R SDUCR-11		•	20	25	13	200	40				

## CERMET INSERTS

## NEGATIVE INSERTS

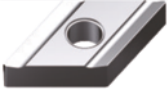
Dimension	Size		
	d	t	d <sub>1</sub>
12	12.7	4.76	5.16
16	15.875	6.35	6.35
19	19.05	6.35	7.93
25	25.4	9.52	9.12

## CNGG

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
			fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620		
	CPM1	CNGG 120402R/L	0.20-2.0	0.08-0.25	Δ	Δ					
		CNGG 120404R/L	0.24-2.4	0.10-0.25	Δ	Δ					
		CNGG 120408R/L	0.26-2.6	0.10-0.28	Δ	Δ					

Dimension	Size		
	d	t	d <sub>1</sub>
11	9.525	4.76	3.81
15	12.7	4.76 / 6.35	5.16

## DNGG

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
			fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620		
		DNGG 110402R/L	0.50-2.5	0.12-0.20	Δ	Δ					
		DNGG 110404R/L	0.80-3.0	0.13-0.30	Δ	Δ					
		DNGG 110408R/L	0.50-2.5	0.12-0.20	Δ	Δ					
		DNGG 150402R/L	0.80-3.0	0.13-0.30	Δ	Δ					
		DNGG 150404R/L	0.50-2.5	0.12-0.20	Δ	Δ					
		DNGG 150408R/L	0.80-3.0	0.13-0.30	Δ	Δ					

● Stock item

○ Non Stock item

△ Special order

CERMET INSERTS  
 NEGATIVE INSERTS

Dimension	Size		
	d	t	d <sub>1</sub>
9	9.525	3.18	3.81
12	12.7	4.76	5.16
15	15.875	6.35	6.35
19	19.05	4.76 / 6.35	6.35
25	25.4	6.35 / 9.52	9.12

## SNGG

Turning

Insert Shape	CB	Insert Code	ISO		Grades							
			ap (mm)	Vc (m/min)	220(150-300)		100(70-200)		250(150-310)		150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620	
		SNGG 090302R/L	0.20-2.0	0.08-0.25	Δ	Δ						
		SNGG 090304R/L	0.24-2.4	0.10-0.25	Δ	Δ						
		SNGG 090308R/L	0.26-2.6	0.10-0.28	Δ	Δ						
		SNGG 120402R/L	0.24-2.4	0.10-0.25	Δ	Δ						
		SNGG 120404R/L	0.26-2.6	0.10-0.28	Δ	Δ						
		SNGG 120408R/L	0.24-2.4	0.10-0.25	Δ	Δ						

Dimension	Size		
	d	t	d <sub>1</sub>
16	9.525	4.76	3.81
22	12.7	4.76	5.16

## TNGG

Insert Shape	CB	Insert Code	ISO		Grades							
			ap (mm)	Vc (m/min)	220(150-300)		100(70-200)		250(150-310)		150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620	
		TNGG 160402R/L	0.20-2.0	0.08-0.25	Δ	Δ						
		TNGG 160404R/L	0.24-2.4	0.10-0.25	Δ	Δ						
		TNGG 160408R/L	0.26-2.6	0.10-0.28	Δ	Δ						

● Stock item

○ Non Stock item

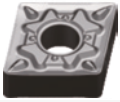
▲ Special order

## CERMET INSERTS

### NEGATIVE INSERTS



Dimension	Size		
	d	t	d <sub>1</sub>
12	12.7	4.76	5.16
16	15.875	6.35	6.35
19	19.05	6.35	7.93
25	25.4	9.52	9.12

## CNMG

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
	CES	CNMG 120404	0.50-2.50	0.12-0.25	○		○				
		CNMG 120408	0.50-2.50	0.15-0.30	○		○				

Dimension	Size		
	d	t	d <sub>1</sub>
15	12.7	4.76 / 6.35	5.16

## DNMG

Insert Shape	CB	Insert Code	ISO		Grades					
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)
	VF	DNMG 150404R/L	0.70-4.20	0.10-0.35	○		○	○		
		CES	DNMG 150404	0.05-0.30	0.80-3.50	○				○
	DNMG 150408		0.08-0.40	0.80-4.00	○					○
	DNMG 150604		0.05-0.30	0.80-4.00	○					●
	DNMG 150608		0.08-0.40	0.80-4.00	○					●

● Stock item

○ Non Stock item

△ Special order

CERMET INSERTS  
 NEGATIVE INSERTS

Dimension	Size		
	d	t	d <sub>1</sub>
12	12.7	4.76	5.16

## SNMG

Turning

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	CES	SNMG 120404	0.80-4.00	0.05-0.30	○		○	○			
		SNMG 120408	0.80-4.00	0.08-0.40	○		○	○			

Dimension	Size		
	d	t	d <sub>1</sub>
16	9.525	4.76	3.81

## TNMG

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	VF	TNMG 160404R/L	0.50-3.20	0.10-0.30	●					○	
		TNMG 160408R/L	0.50-4.0	0.10-0.30	○					○	
	CES	TNMG 160404	0.50-2.0	0.08-0.20	○					○	
		TNMG 160408	0.50-2.0	0.10-0.25	●					●	
	CMT	TNMG 160404	1.00-4.00	0.20-0.40	○					○	
		TNMG 160408	1.00-4.00	0.20-0.40	○					○	

● Stock item

○ Non Stock item



▲ Special order

## CERMET INSERTS

## NEGATIVE INSERTS



Dimension	Size		
	d	t	d <sub>1</sub>
16	9.525	4.76	3.81

## VNMG

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	CES	VNMG 160404	0.50-3.50	0.10-0.40	○	○					
		VNMG 160408	0.50-3.50	0.12-0.45	○	○					
	CMT	VNMG 160404	1.00-4.00	0.20-0.40	○	○					

Dimension	Size		
	d	t	d <sub>1</sub>
08	12.7	4.76	5.16

## WNMG

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	CES	WNMG 080404	0.50-2.50	0.12-0.25	○					○	
		WNMG 080408	0.50-2.50	0.12-0.25	○					○	
	CMT	WNMG 080404	1.00-4.00	0.20-0.40	○					○	
		WNMG 080408	1.00-4.00	0.20-0.40	○					○	

● Stock item

○ Non Stock item

△ Special order

## CERMET INSERTS

## POSITIVE INSERTS

Dimension	Size		
	d	t	d <sub>1</sub>
06	6.35	2.38	2.8
09	9.525	3.97	4.4

## CCGT

Turning

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
				fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620	
		CCGT 060202R/L	0.20-1.0	0.05-0.18		○					△
		CCGT 060204R/L	0.22-1.2	0.07-0.20		○					△
		CCGT 09T302R/L	0.25-1.5	0.10-0.22		○					△
		CCGT 09T304R/L	0.22-1.2	0.07-0.20		○					△

Dimension	Size		
	d	t	d <sub>1</sub>
06	6.35	2.38	2.8
09	9.525	3.97	4.4

## CCMT

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
				fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620	
	CFG	CCMT 060204	0.30-1.50	0.05-0.15	○			○			
		CCMT 09T304	0.60-1.50	0.10-0.25	○			●			
		CCMT 09T308	0.60-1.50	0.10-0.25	○			○			
	CF1	CCMT 060202	0.50-2.00	0.06-0.15	●			○			
		CCMT 060204	0.50-2.00	0.08-0.20	○			○			
		CCMT 09T302	0.50-2.00	0.06-0.15	○			○			
		CCMT 09T304	0.50-2.00	0.08-0.20	○			○			
		CCMT 09T308	0.50-2.00	0.10-0.25	○			○			

● Stock item

○ Non Stock item


△ Special order

## CERMET INSERTS

## POSITIVE INSERTS



Dimension	Size		
	d	t	d <sub>1</sub>
07	6.35	2.38	2.8
11	9.525	3.97	4.4

## DCGT

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
		DCGT 070202R/L	0.40-1.50	0.07-0.20	○				△		
		DCGT 070204R/L	0.40-1.50	0.07-0.20	○				△		
		DCGT 11T302R/L	0.40-1.50	0.07-0.20	○				△		
		DCGT 11T304R/L	0.60-1.50	0.10-0.25	○				△		
		DCGT 11T308R/L	0.60-1.50	0.10-0.25	○				△		

Dimension	Size		
	d	t	d <sub>1</sub>
07	6.35	2.38	2.8
11	9.525	3.97	4.4

## DCMT

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
					fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	CFG	DCMT 070204	0.20-1.6	0.10-0.16	○	○				○	
		DCMT 11T304	0.20-1.6	0.10-0.16	○	○				●	
		DCMT 11T308	0.22-2.0	0.12-0.20	○	○					○
	CF1	DCMT 070202	0.50-2.00	0.06-0.12	○	○					○
		DCMT 070204	0.50-2.00	0.08-0.22	○	○					○
		DCMT 11T302	0.50-2.00	0.06-0.12	○	●					●
		DCMT 11T304	0.50-2.00	0.08-0.22	○	○					○
		DCMT 11T308	0.50-2.00	0.10-0.25	●	○					○

● Stock item

○ Non Stock item

△ Special order


## CERMET INSERTS

## POSITIVE INSERTS

Dimension	Size		
	d	t	d <sub>1</sub>
09	9.525	3.97	4.4


## SCMT

Turning

Insert Shape	CB	Insert Code	ISO		Grades					
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)
			fn (mm/rev)		CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	CMT	SCMT 09T304	0.70-3.50	0.10-0.25	○		●			
		SCMT 09T308	0.70-3.50	0.10-0.25	○		○			

Dimension	Size		
	d	t	d <sub>1</sub>
06	3.97	1.59	2.16
11	6.35	3.22	3.3

## TBGT

Insert Shape	CB	Insert Code	ISO		Grades					
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)
			fn (mm/rev)		CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
		TBGT 060102R/L	0.20-1.0	0.05-0.18	Δ					Δ
		TBGT 060104R/L	0.22-1.2	0.07-0.20	Δ					Δ
		TBGH 110302R/L	0.10-1.5	0.08-0.15	Δ					Δ
		TBGH 110304R/L	0.20-1.6	0.10-0.16	Δ					Δ

● Stock item

○ Non Stock item

Δ Special order

## CERMET INSERTS

## POSITIVE INSERTS

Dimension	Size		
	d	t	d <sub>1</sub>
11	6.35	2.38	2.8

## TCGT

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
		TCGT 110202R/L	0.20-1.0	0.05-0.18	△	△					
		TCGT 110204R/L	0.22-1.2	0.07-0.20	△	△					
		TCGT 110302R/L	0.22-1.2	0.07-0.20	△	△					
		TCGT 110304R/L	0.25-1.5	0.10-0.22	△	△					

Dimension	Size		
	d	t	d <sub>1</sub>
09	5.56	2.38	2.5
11	6.35	2.38	2.8
16	9.525	3.77	4.4

## TCMT

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
	CF1	TCMT 090202	0.50-2.00	0.08-0.20		○					
		TCMT 090204	0.50-2.00	0.08-0.20		○					
		TCMT 110202	0.50-2.00	0.08-0.20	○		○				
		TCMT 110204	0.50-2.00	0.08-0.20	○		○				
		TCMT 110208	0.50-2.00	0.10-0.25	○		○				
		TCMT 16T304	0.50-2.00	0.10-0.25	○		○				
	CFG	TCMT 110204	0.40-1.50	0.07-0.20	○		○				
		TCMT 16T304	0.60-1.50	0.10-0.25	○		○				

● Stock item

○ Non Stock item

△ Special order

## CERMET INSERTS

## POSITIVE INSERTS

## TPGT

Dimension	Size		
	d	t	d <sub>1</sub>
09	5.56	2.38	3.0
11	6.35	2.38 / 3.18	3.4

Turning

Insert Shape	CB	Insert Code	ISO		Grades						
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)	
		TPGT 090202R/L	0.30-1.2	0.10-0.20	△		△				
		TPGT 090204R/L	0.30-1.2	0.10-0.20	△		△				
		TPGT 110302R/L	0.30-1.2	0.10-0.20	△		△				
		TPGT 110304R/L	0.30-1.2	0.10-0.20	△		△				
		TPGT 110308R/L	0.50-1.2	0.10-0.20	△		△				

Dimension	Size		
	d	t	d <sub>1</sub>
11	6.35	2.38 / 3.18	3.4

## TPMT

Insert Shape	CB	Insert Code	ISO		Grades					
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)
	CF1	TPMT 110304	0.20-1.60	0.10-0.16		○			●	
		TPMT 110308	0.22-2.00	0.12-0.20		○			○	

● Stock item

○ Non Stock item

△ Special order

## CERMET INSERTS

## POSITIVE INSERTS

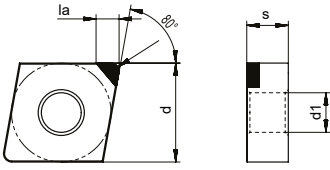
Dimension	Size		
	d	t	d <sub>1</sub>
11	6.35	3.18	2.8
16	9.525	4.76	4.4

## VBMT

Insert Shape	CB	Insert Code	ISO		Grades					
			ap (mm)	Vc (m/min)	220(150-300)	100(70-200)	250(150-310)	250(150-310)	150(100-280)	150(100-280)
				fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620
	CF1	VBMT 110304	0.50-2.00	0.08-0.20		○			○	
		VBMT 160404	0.50-2.00	0.08-0.20		○	●		○	

## CBN INSERTS

## Negative 80°(CN)

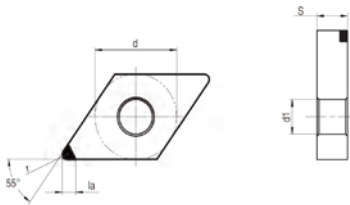


Dimensions (mm)				
Type	d	s	la	d1
CN_1204_	12,7	4,76	3,0	5,16

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	CNGA 120402 S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	CNGA 120404 S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	CNGA 120408 S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	CNGA 120412 S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	2C-CNGA 120402 S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-CNGA 120404 S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-CNGA 120408 S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-CNGA 120412 S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	4C-CNGA 120402 S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	4C-CNGA 120404 S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	4C-CNGA 120408 S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	4C-CNGA 120412 S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

## CBN INSERTS

## Negative 55°(DN)

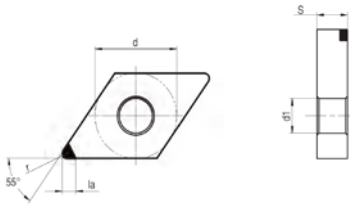


Dimensions (mm)				
Type	d	s	la	d1
DN_1504_	12,7	4,76	3,0	5,16
DN_1506_	12,7	6,35	3,0	5,16

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	DNGA 150402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	DNGA 150404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	DNGA 150408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	DNGA 150412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	DNGA 150602-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	DNGA 150604-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	DNGA 150608-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	DNGA 150612-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-DNGA 150404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150602-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150604-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150608-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150612-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●

## CBN INSERTS

## Negative 55°(DN)



Dimensions (mm)				
Type	d	s	la	d1
DN_1504_	12,7	4,76	3,0	5,16
DN_1506_	12,7	6,35	3,0	5,16

Turning

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	2C-DNGA 150402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-DNGA 150404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150602-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150604-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150608-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-DNGA 150612-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	4C-DNGA 150402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150602-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150604-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150608-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150612-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

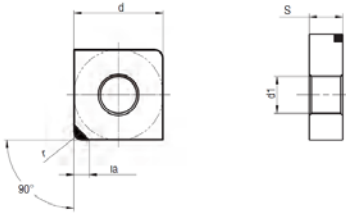
● Stock item

○ Non Stock item



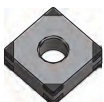
▲ Special order

## CBN INSERTS

## Negative 90°(SN)

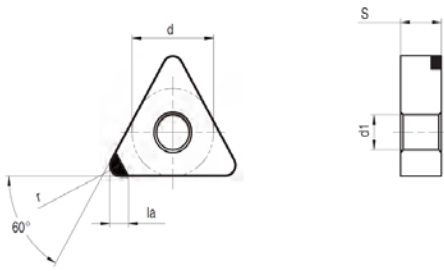


Dimensions (mm)				
Type	d	s	la	d1
SN_1204_	12,7	4,76	3,0	5,16

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	SNGA 120402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	SNGA 120404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	SNGA 120408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	SNGA 120412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	4C-SNGA 120402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	4C-SNGA 120404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	4C-SNGA 120408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	4C-SNGA 120412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	8C-SNGA 120402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	8C-SNGA 120404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	8C-SNGA 120408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	8C-SNGA 120412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

## CBN INSERTS

## Negative 60°(TN)

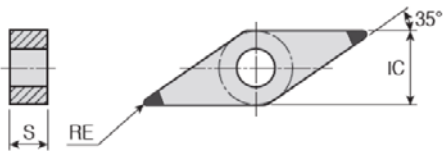


Dimensions (mm)				
Type	d	s	la	d1
TN_1604_	9,5	4,76	3,0	3,81




Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	TNGA 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	TNGA 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	TNGA 160408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	TNGA 160412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	3C-TNGA 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	3C-TNGA 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	3C-TNGA 160408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	3C-TNGA 160412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	6C-TNGA 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	6C-TNGA 160404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	6C-TNGA 160408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	6C-TNGA 160412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

## CBN INSERTS

## Negative 35°(VN)

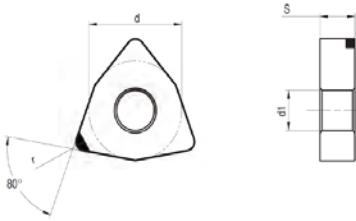


Dimensions (mm)				
Type	d	s	la	d1
VN_1604_	9,5	4,76	3,0	3,81

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	VNGA 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	VNGA 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	VNGA 160408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	VNGA 160412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	2C-VNGA 160402-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-VNGA 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-VNGA 160408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-VNGA 160412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○
	4C-VNGA 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	4C-VNGA 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	4C-VNGA 160408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	4C-VNGA 160412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

CBN INSERTS

Negative 80°(WN)



Dimensions (mm)				
Type	d	s	la	d1
W N_0804	12,7	4,76	3,0	5,16

Turning

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	W NGA 080402-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	W NGA 080404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	W NGA 080408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	W NGA 080412-S01020	1,2	0.03-0.3	0.05-0.5	●	●	●
	3C-W NGA 080402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	3C-W NGA 080404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	3C-W NGA 080408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	3C-W NGA 080412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○
	6C-W NGA 080402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	6C-W NGA 080404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	6C-W NGA 080408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	6C-W NGA 080412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

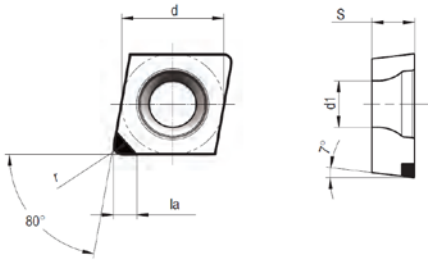
● Stock item

○ Non Stock item

△ Special order

## CBN INSERTS

## Positive 80°(CC)

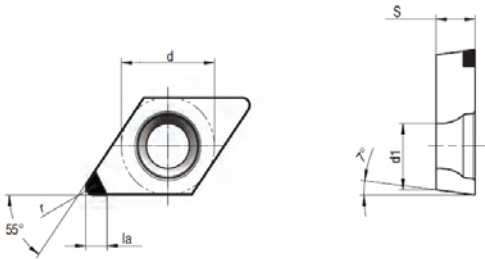


Dimensions (mm)				
Type	d	s	la	d1
CC_0602_	6,35	2,38	3,0	2,80
CC_09T3_	9,52	3,97	3,0	4,40
CC_1204_	12,7	4,76	3,0	5,50

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	CCGW 060202-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	CCGW 060204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	CCGW 060208-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	CCGW 09T302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	CCGW 09T304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	CCGW 09T308-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	CCGW 120402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	CCGW 120404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	CCGW 120408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	CCGW 120412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○
	2C-CCGW 060202-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-CCGW 060204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-CCGW 060208-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-CCGW 09T302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-CCGW 09T304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-CCGW 09T308-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-CCGW 120402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-CCGW 120404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	2C-CCGW 120408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	2C-CCGW 120412-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

## CBN INSERTS

## Positive 55°(DC)



Dimensions (mm)				
Type	d	s	la	d1
DC_0702_	6,35	2,38	3,0	2,80
DC_11T3_	9,52	3,97	3,0	4,40

Turning

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	DCGW 070202-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	DCGW 070204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	DCGW 070208-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	DCGW 11T302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	DCGW 11T304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	DCGW 11T308-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	DCGW 11T312-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○
	2C-DCGW 070202-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DCGW 070204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-DCGW 070208-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-DCGW 11T302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	2C-DCGW 11T304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	2C-DCGW 11T308-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-DCGW 11T312-S01020	1,2	0.03-0.3	0.05-0.5	○	○	○

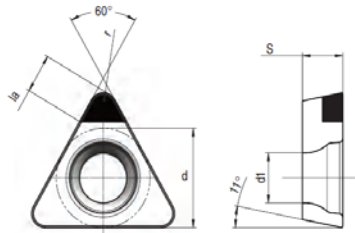
● Stock item

○ Non Stock item

△ Special order

## CBN INSERTS

## Positive 60°(TP)

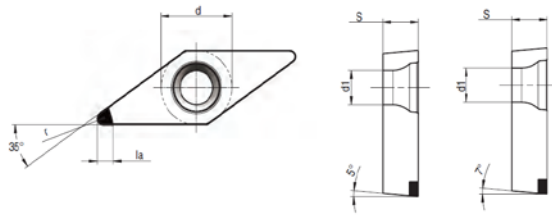


Type	Dimensions (mm)			
	d	s	la	d1
TP_0802_	4,76	2,38	3,0	2,40
TP_0902_	5,56	2,38	3,0	2,80
TP_1103_	6,35	3,18	3,0	3,30
TP_1604_	9,52	4,76	3,0	4,40

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	TPGW 080202-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	TPGW 080204-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	TPGW 090202-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	TPGW 090204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	TPGW 090208-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	TPGW 110302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	TPGW 110304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	TPGW 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	TPGW 160404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	TPGW 160408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	3C-TPGW 080202-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 080204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 090202-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 090204-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 090208-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 110302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 110304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	3C-TPGW 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	3C-TPGW 160404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	3C-TPGW 160408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○

## CBN INSERTS

## Positive 35°(V)



Dimensions (mm)				
Type	d	s	la	d1
VB_1103_	6,35	3,18	3,0	2,80
VC_1103_	6,35	3,18	3,0	2,80
VB_1604_	9,52	4,76	3,0	4,40
VC_1604_	9,52	4,76	3,0	4,40

Turning

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	VBGW 110302-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	VBGW 110304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	VBGW 110308-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	VBGW 160402-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	VBGW 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	VBGW 160408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-VBGW 110302-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-VBGW 110304-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	2C-VBGW 110308-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	2C-VBGW 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-VBGW 160404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	2C-VBGW 160408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○

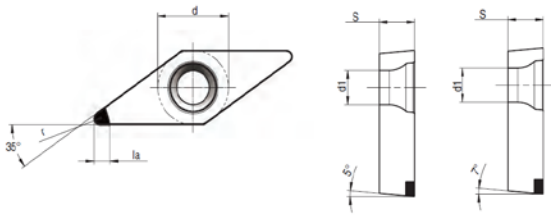
● Stock item

○ Non Stock item



▲ Special order

## CBN INSERTS

## Positive 35°(V)



Type	Dimensions (mm)			
	d	s	la	d1
VB_1103_	6,35	3,18	3,0	2,80
VC_1103_	6,35	3,18	3,0	2,80
VB_1604_	9,52	4,76	3,0	4,40
VC_1604_	9,52	4,76	3,0	4,40

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	VCGW 110302-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	VCGW 110304-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	VCGW 110308-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	VCGW 160402-S01020	0,2	0.03-0.3	0.05-0.5	●	●	●
	VCGW 160404-S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	VCGW 160408-S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	2C-VCGW 110302-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-VCGW 110304-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	2C-VCGW 110308-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	2C-VCGW 160402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	2C-VCGW 160404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	2C-VCGW 160408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○

## CBN INSERTS

## Solid CBN

## CNGN

Inserts	Insert Code	Dimensions (mm)			Grades	
		I.C.	T	r	BS7204	BP2204
	CNGN 120408	12,70	4,76	0,8	●	○
	CNGN 120412	12,70	4,76	1,2	●	○

## SNGN

Inserts	Insert Code	Dimensions (mm)			Grades	
		I.C.	T	r	BS7204	BP2204
	SNGN 090304	9,53	3,18	0,4	○	○
	SNGN 090308	9,53	3,18	0,8	○	○
	SNGN 120404	12,70	4,76	0,4	○	○
	SNGN 120408	12,76	4,76	0,8	●	○
	SNGN 120412	12,76	4,76	1,2	●	○

## TNGN

Inserts	Insert Code	Dimensions (mm)			Grades	
		I.C.	T	r	BS7204	BP2204
	TNGN 160408	9,53	4,76	0,8	●	○
	TNGN 160412	9,53	4,76	1,2	●	○

● Stock item

○ Non Stock item

▲ Special order

## CBN INSERTS

## Solid CBN

## RNGN

Inserts	Insert Code	Dimensions (mm)			Grades		
		I.C.	s	r	BS7404	BS7204	BP2204
	RNGN 060300	6,35	3,18		○	○	○
	RNGN 090300	9,53	3,18		○	○	○
	RNGN 090400	9,53	4,76		○	○	○
	RNGN 120300	12,70	3,18		○	○	○
	RNGN 120400	12,70	4,76		○	○	○

## RCGX

Inserts	Insert Code	Dimensions (mm)				Grades		
		I.C.	t	s	$\alpha$	BN7405	BN7415	BN7208
	RCGX 060300	6,35	3,18	3,32	140°	●	●	○
	RCGX 090300	9,525	3,18	3,32	140°	●	●	○
	RCGX 090700	9,53	7,7	7,94	120°	○	○	○
	RCGX 120400	12,700	4,76	4,94	140°	●	●	○
	RCGX 120700	12,70	7,7	7,94	140°	○	○	○
	RCGX 191000	19,050	9,77	10	120°	○	○	○

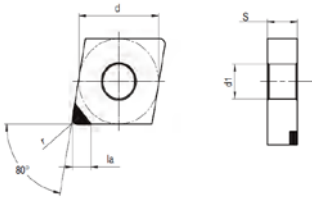
Full Face CBN

## RCGX

Inserts	Insert Code	Dimensions (mm)				Grades		
		I.C.	t	T	$\alpha$	BS7404	BS7204	BP2204
	RCGX 060300	6,35	3,18	3,32	140°	●	●	○
	RCGX 090300	9,525	3,18	3,32	140°	●	●	○
	RCGX 090700	9,53	7,7	7,94	120°	●	○	○
	RCGX 120400	12,700	4,76	4,94	140°	●	●	○
	RCGX 120700	12,70	7,7	7,94	140°	●	○	○
	RCGX 191000	19,050	9,77	10	120°	○	○	○

## PCD INSERTS

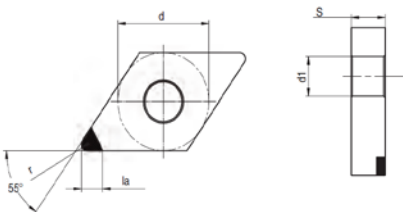
## Negative 80°(CN)



Dimensions (mm)				
Type	d	s	la	d1
CN_1204_	12,7	4,76	3,0	5,16

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grade
			f (mm/rev)	ap (mm)	DN7505
	CNGA 120402	0,2	0.03-0.2	0.05-0.5	○
	CNGA 120404	0,4	0.03-0.2	0.05-0.5	●
	CNGA 120408	0,8	0.03-0.2	0.05-0.5	●
	2C-CNGA 120402	0,2	0.03-0.2	0.05-0.5	○
	2C-CNGA 120404	0,4	0.03-0.2	0.05-0.5	●
	2C-CNGA 120408	0,8	0.03-0.2	0.05-0.5	●

## Negative 55°(DN)

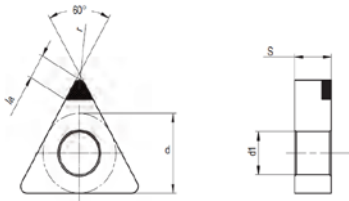


Dimensions (mm)				
Type	d	s	la	d1
DN_1504_	12,7	4,76	3,0	5,16

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grade
			f (mm/rev)	ap (mm)	DN7505
	DNGA 150402	0,2	0.03-0.2	0.05-0.5	●
	DNGA 150404	0,4	0.03-0.2	0.05-0.5	●
	DNGA 150408	0,8	0.03-0.2	0.05-0.5	●
	2C-DNGA 150402	0,2	0.03-0.2	0.05-0.5	○
	2C-DNGA 150404	0,4	0.03-0.2	0.05-0.5	○
	2C-DNGA 150408	0,8	0.03-0.2	0.05-0.5	○

## PCD INSERTS

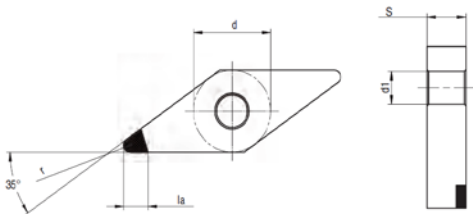
## Negative 60°(TN)



Dimensions (mm)				
Type	d	s	la	d1
TN_1604_	9,52	4,76	3,0	3,81

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grade
			f (mm/rev)	ap (mm)	
	TNGA 160402	0,2	0.03-0.2	0.05-0.5	●
	TNGA 160404	0,4	0.03-0.2	0.05-0.5	●
	TNGA 160408	0,8	0.03-0.2	0.05-0.5	●
	3C-TNGA 160402	0,2	0.03-0.2	0.05-0.5	○
	3C-TNGA 160404	0,4	0.03-0.2	0.05-0.5	○
	3C-TNGA 160408	0,8	0.03-0.2	0.05-0.5	○

## Negative 35°(VN)

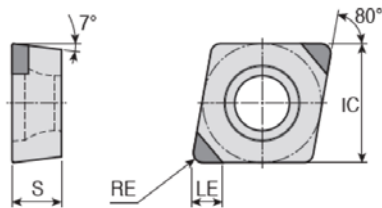


Dimensions (mm)				
Type	d	s	la	d1
VN_1604_	9,525	4,76	3,0	3,81

Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grade
			f (mm/rev)	ap (mm)	
	VNGA 160402	0,2	0.03-0.2	0.05-0.5	●
	VNGA 160404	0,4	0.03-0.2	0.05-0.5	●
	VNGA 160408	0,8	0.03-0.2	0.05-0.5	●
	2C-VNGA 160402	0,2	0.03-0.2	0.05-0.5	○
	2C-VNGA 160404	0,4	0.03-0.2	0.05-0.5	○
	2C-VNGA 160408	0,8	0.03-0.2	0.05-0.5	○

## PCD INSERTS

## Positive 80°(CC)

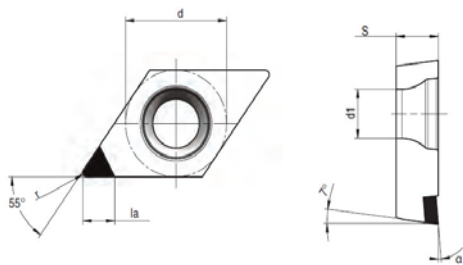


Dimensions (mm)				
Type	d	s	la	d1
CC_0602_	6,35	2,38	3,0	2,80
CC_09T3_	9,52	3,97	3,0	4,40
CC_1204_	12,7	4,76	3,0	5,50

Inserts	Insert Code	r (mm)	$\alpha$ (°)	Recommended Cutting Parameters		Grade
				f (mm/rev)	ap (mm)	DN7505
	CCGW 060202	0,2	7°	0.03-0.2	0.05-0.5	●
	CCGW 060204	0,4	7°	0.03-0.2	0.05-0.5	●
	CCGW 060208	0,8	7°	0.03-0.2	0.05-0.5	●
	CCGW 09T302	0,2	7°	0.03-0.2	0.05-0.5	●
	CCGW 09T304	0,4	7°	0.03-0.2	0.05-0.5	●
	CCGW 09T308	0,8	7°	0.03-0.2	0.05-0.5	●
	CCGW 120402	0,2	7°	0.03-0.2	0.05-0.5	○
	CCGW 120404	0,4	7°	0.03-0.2	0.05-0.5	○
	CCGW 120408	0,8	7°	0.03-0.2	0.05-0.5	○
	2C-CCGW 060202	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-CCGW 060204	0,4	7°	0.03-0.2	0.05-0.5	●
	2C-CCGW 060208	0,8	7°	0.03-0.2	0.05-0.5	●
	2C-CCGW 09T302	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-CCGW 09T304	0,4	7°	0.03-0.2	0.05-0.5	●
	2C-CCGW 09T308	0,8	7°	0.03-0.2	0.05-0.5	●
	2C-CCGW 120402	0,2	7°	0.03-0.2	0.05-0.5	○
	2C-CCGW 120404	0,4	7°	0.03-0.2	0.05-0.5	○
	2C-CCGW 120408	0,8	7°	0.03-0.2	0.05-0.5	○

## PCD INSERTS

## Positive 55°(DC)

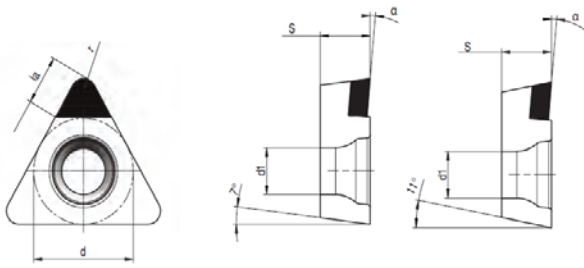


Dimensions (mm)				
Type	d	s	la	d1
DC_0702_	6,35	2,38	3,0	2,80
DC_11T3_	9,52	3,97	3,0	4,40

Inserts	Insert Code	r (mm)	$\alpha$ (°)	Recommended Cutting Parameters		Grade
				f (mm/rev)	ap (mm)	DN7505
	DCGW 070202	0,2	7°	0.03-0.2	0.05-0.5	●
	DCGW 070204	0,4	7°	0.03-0.2	0.05-0.5	●
	DCGW 070208	0,8	7°	0.03-0.2	0.05-0.5	●
	DCGW 11T302	0,2	7°	0.03-0.2	0.05-0.5	●
	DCGW 11T304	0,4	7°	0.03-0.2	0.05-0.5	●
	DCGW 11T308	0,8	7°	0.03-0.2	0.05-0.5	●
	2C-DCGW 070202	0,2	7°	0.03-0.2	0.05-0.5	○
	2C-DCGW 070204	0,4	7°	0.03-0.2	0.05-0.5	○
	2C-DCGW 070208	0,8	7°	0.03-0.2	0.05-0.5	○
	2C-DCGW 11T302	0,2	7°	0.03-0.2	0.05-0.5	○
	2C-DCGW 11T304	0,4	7°	0.03-0.2	0.05-0.5	○
	2C-DCGW 11T308	0,8	7°	0.03-0.2	0.05-0.5	○

## PCD INSERTS

## Positive 60°(T)



Type	Dimensions (mm)			
	d	s	la	d1
TC_0802_	4,76	2,38	3,0	2,40
TC_1103_	6,35	3,18	3,0	2,80
TC_16T3_	9,52	3,97	2,5	4,40
TP_0802_	4,76	2,38	3,0	2,40
TP_1102_	6,35	2,38	4,0	2,80
TP_1103_	6,35	3,18	4,0	3,40
TP_1604_	9,52	4,76	3,0	4,40

Inserts	Insert Code	r (mm)	α (°)	Recommended Cutting Parameters		Grade
				f (mm/rev)	ap (mm)	DN7505
	TCGW 080202	0,2	7°	0.03-0.2	0.05-0.5	○
	TCGW 080204	0,4	7°	0.03-0.2	0.05-0.5	○
	TCGW 080208	0,8	7°	0.03-0.2	0.05-0.5	○
	TCGW 110202	0,2	7°	0.03-0.2	0.05-0.5	●
	TCGW 110204	0,4	7°	0.03-0.2	0.05-0.5	●
	TCGW 110302	0,2	7°	0.03-0.2	0.05-0.5	●
	TCGW 110304	0,4	7°	0.03-0.2	0.05-0.5	●
	TCGW 110308	0,8	7°	0.03-0.2	0.05-0.5	●
	TCGW 16T302	0,2	7°	0.03-0.2	0.05-0.5	●
	TCGW 16T304	0,4	7°	0.03-0.2	0.05-0.5	●
	TCGW 16T308	0,8	7°	0.03-0.2	0.05-0.5	●
	3C-TCGW 080202	0,2	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 080204	0,4	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 080208	0,8	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 110302	0,2	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 110304	0,4	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 110308	0,8	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 16T302	0,2	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 16T304	0,4	7°	0.03-0.2	0.05-0.5	○
	3C-TCGW 16T308	0,8	7°	0.03-0.2	0.05-0.5	○

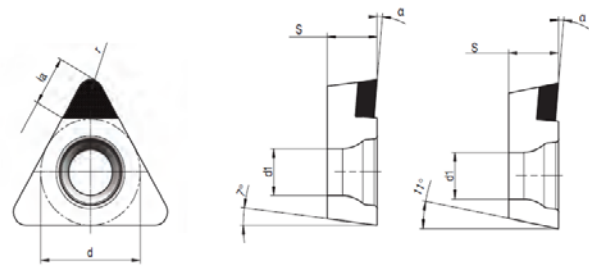
● Stock item

○ Non Stock item

▲ Special order

## PCD INSERTS

## Positive 60°(T)

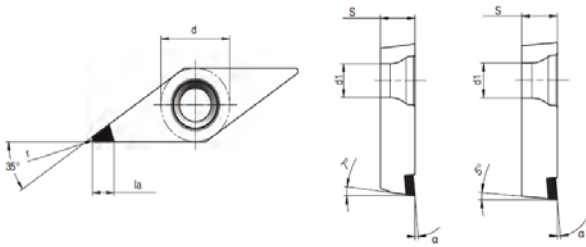


Type	Dimensions (mm)			
	d	s	la	d1
TC_0802_	4,76	2,38	3,0	2,40
TC_1103_	6,35	3,18	3,0	2,80
TC_16T3_	9,52	3,97	2,5	4,40
TP_0802_	4,76	2,38	3,0	2,40
TP_1102_	6,35	2,38	4,0	2,80
TP_1103_	6,35	3,18	4,0	3,40
TP_1604_	9,52	4,76	3,0	4,40

Inserts	Insert Code	r (mm)	$\alpha$ (°)	Recommended Cutting Parameters		Grade
				f (mm/rev)	ap (mm)	DN7505
	TPGW 080202	0,2	11°	0.03-0.2	0.05-0.5	●
	TPGW 080204	0,4	11°	0.03-0.2	0.05-0.5	●
	TPGW 110202	0,2	11°	0.03-0.2	0.05-0.5	●
	TPGW 110204	0,4	11°	0.03-0.2	0.05-0.5	●
	TPGW 110304	0,4	11°	0.03-0.2	0.05-0.5	●
	TPGW 110308	0,8	11°	0.03-0.2	0.05-0.5	●
	TPGW 160302	0,2	11°	0.03-0.2	0.05-0.5	●
	TPGW 160304	0,4	11°	0.03-0.2	0.05-0.5	●
	3C-TPGW 080202	0,2	11°	0.03-0.2	0.05-0.5	○
	3C-TPGW 080204	0,4	11°	0.03-0.2	0.05-0.5	○
	3C-TPGW 080208	0,8	11°	0.03-0.2	0.05-0.5	○
	3C-TPGW 160402	0,2	11°	0.03-0.2	0.05-0.5	○
	3C-TPGW 160404	0,4	11°	0.03-0.2	0.05-0.5	○
	3C-TPGW 160408	0,8	11°	0.03-0.2	0.05-0.5	○

## PCD INSERTS

## Positive 35°(V)



Dimensions (mm)				
Type	d	s	la	d1
VB_1103_	6,35	3,18	3,0	2,80
VB_1604_	9,52	4,76	3,0	4,40
VC_1103_	6,35	3,18	3,0	2,80
VC_1604_	9,52	4,76	3,0	4,40

Turning

Inserts	Insert Code	r (mm)	$\alpha$ (°)	Recommended Cutting Parameters		Grade
				f (mm/rev)	ap (mm)	DN7505
	VBGW 110302	0,2	5°	0.03-0.2	0.05-0.5	●
	VBGW 110304	0,4	5°	0.03-0.2	0.05-0.5	●
	VBGW 110308	0,8	5°	0.03-0.2	0.05-0.5	●
	VBGW 160402	0,2	5°	0.03-0.2	0.05-0.5	●
	VBGW 160404	0,4	5°	0.03-0.2	0.05-0.5	●
	VBGW 160408	0,8	5°	0.03-0.2	0.05-0.5	●
	2C-VBGW 110302	0,2	5°	0.03-0.2	0.05-0.5	○
	2C-VBGW 110304	0,4	5°	0.03-0.2	0.05-0.5	○
	2C-VBGW 110308	0,8	5°	0.03-0.2	0.05-0.5	○
	2C-VBGW 160402	0,2	5°	0.03-0.2	0.05-0.5	●
	2C-VBGW 160404	0,4	5°	0.03-0.2	0.05-0.5	●
	2C-VBGW 160408	0,8	5°	0.03-0.2	0.05-0.5	●

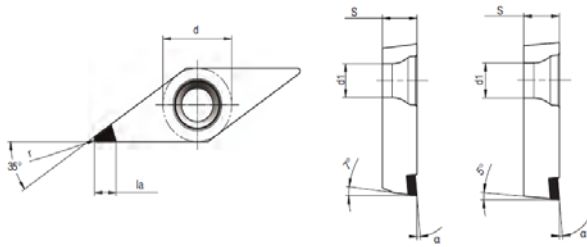
● Stock item

○ Non Stock item

▲ Special order

## PCD INSERTS

## Positive 35°(V)



Type	Dimensions (mm)			
	d	s	la	d1
VB_1103_	6,35	3,18	3,0	2,80
VB_1604_	9,52	4,76	3,0	4,40
VC_1103_	6,35	3,18	3,0	2,80
VC_1604_	9,52	4,76	3,0	4,40

Inserts	Insert Code	r (mm)	$\alpha$ (°)	Recommended Cutting Parameters		Grade
				f (mm/rev)	ap (mm)	DN7505
	VCGW 110302	0,2	7°	0.03-0.2	0.05-0.5	●
	VCGW 110304	0,4	7°	0.03-0.2	0.05-0.5	●
	VCGW 160404	0,4	7°	0.03-0.2	0.05-0.5	●
	VCGW 160408	0,8	7°	0.03-0.2	0.05-0.5	●
	VCGW 160412	1,2	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 110302	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 110304	0,4	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 110308	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 160402	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 160404	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 160408	0,2	7°	0.03-0.2	0.05-0.5	●
	2C-VCGW 160412	0,4	7°	0.03-0.2	0.05-0.5	●