

# 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	

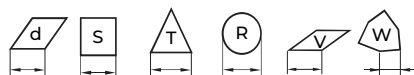
# TURNING INSERT CODE SYSTEM (ISO)

**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

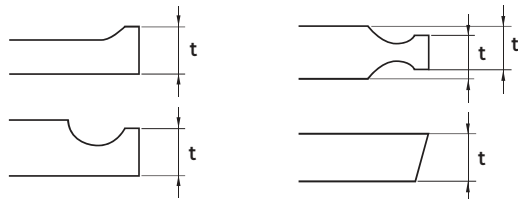
C N M G 12 04 08 PM1



Metric						Inch	IC 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	1/16
T0	1.125	1.79	9/128
T1	1.2	1.98	5/64
O2	1.5(3)	2.38	3/32
T2	1.75	2.78	7/64
O3	2	3.18	1/8
T3	2.5	3.97	5/32
O4	3	4.76	3/16
O5	3.5	5.56	7/32
O6	4	6.35	1/4
O7	5	7.94	5/16
O9	6	9.52	3/8
11	7	11.11	7/16
12	8	12.70	1/2

## 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
	-	-	-
	-	-	-

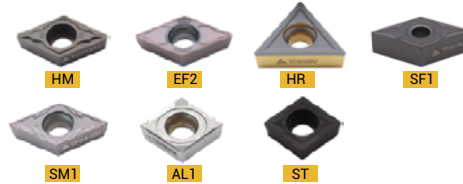
## 8 Chip Breaker for Turning

C N M G 12 04 08 PM1

ISO Indexable Inserts - Negative



ISO Indexable Inserts - Positive



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			
<b>AL</b>	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
<b>ES1</b>	Good chip control at various depths of cut. Suitable for facing operations.	●								DNMG TNMG VNMG CNMG
<b>MA</b>	First choice for medium machining of carbon and alloy steels. Positive land design ensures sharp and stable cutting.	●	●			○				CNMG TNMG VNMG WNMG
<b>ST</b>	First choice for medium machining of cast iron. Also suitable for medium machining of steel.	○		●						CNMG DNMG SNMG TNMG VNMG WNMG
<b>PM1</b>	Suitable for medium machining of steel and cast iron. Provides stable cutting performance.	●		●						CNMG DNMG SNMG TNMG WNMG
<b>TM</b>	Chipbreaker for medium to rough machining. Designed for stable chip control at medium to high feed rates.	●								CNMG DNMG SNMG TNMG VNMG WNMG
<b>PD</b>	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
<b>SM1</b>	Ensures stable chip evacuation. Variable land design improves crater wear resistance and tool life.		●			●				CNMG DNMG SNMG TNMG VNMG WNMG

● 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			
<b>UF</b>	First choice for turning heat-resistant alloys. Ground edges provide precise positioning and high machining accuracy.	○	●			●				CCGT DCGT TCGT VBGT
<b>AL1</b>	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 VCGT
<b>PBI</b>	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
<b>EF2</b>	Suitable for finishing operations on stainless steel.		●			○				CCMT DCMT SCMT TCMT VBMT
<b>SF1</b>	Sharp edge design reduces built-up edge and ensures stable chip evacuation.		●			●				CCMT DCMT SCMT TCMT VBMT VCMT
<b>PCZ</b>	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
<b>HM</b>	Suitable for medium machining of steel and cast iron.	●		●						CCMT DCMT SCMT TCMT VBMT
<b>SM1</b>	Provides stable chip evacuation. Variable land design improves resistance to crater wear.		●			●				CCMT DCMT SCMT TCMT VBMT
<b>KCZ</b>	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

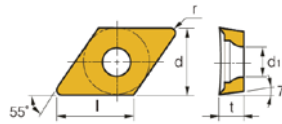
Geometry	Properties	Material Group						View of Cutting Edge	Basic cutting data diagram	Available Geometries
		P	M	K	N	S	H			
<b>ST</b>	First choice for medium turning of cast iron. Provides stable cutting performance and effective chip control.	○	●	●	●	●	●			CCMT DCMT SCMT TCMT
<b>VM</b>	Alternative 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





# DCGT...

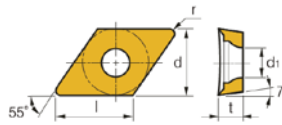


Dimension	Size		
	d	t	d <sub>1</sub>
07	6.35	2.38	2.8
11	9.525	3.97	4.4

Insert Shape	CB	Insert Code	ISO		P						M				K		N	S				U											
			ap (mm)	Vc (m/min)	TC0105	TC0115	TC02115	TC0125	TC02125	TC02135	TC1310	TC1320	TP4310	TP4320	TP4330	TP4340	TC2210	TC0210	TC02215	TC0215	TN7501	TP2405	TP2410	TP4410	TP2430	TP2620	TP3620	TP2630	TP3630	TP4630			
																															fn (mm/rev)		
	AL1	DCGT 070202	0.05-3.0	0.01-0.20																●													
		DCGT 070204	0.10-4.0	0.02-0.30																	●												
		DCGT 070208	0.10-4.0	0.03-0.40																	●												
		DCGT 11T302	0.05-4.0	0.02-0.30																	●												
		DCGT 11T304	0.10-5.0	0.03-0.50																	●												
		DCGT 11T308	0.10-5.0	0.03-0.50																	●												
	UF	DCGT 070202	0.10-1.40	0.02-0.15																												Δ	
		DCGT 070204	0.10-1.40	0.03-0.20																												Δ	
		DCGT 11T302	0.10-2.40	0.02-0.15																												Δ	
		DCGT 11T304	0.10-2.40	0.03-0.20																												Δ	

Turning

# DCMT...



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

Insert Shape	CB	Insert Code	ISO		P						M				K		N	S				U											
			ap (mm)	Vc (m/min)	TC0105	TC0115	TC02115	TC0125	TC02125	TC02135	TC1310	TC1320	TP4310	TP4320	TP4330	TP4340	TC2210	TC0210	TC02215	TC0215	TN7501	TP2405	TP2410	TP4410	TP2430	TP2620	TP3620	TP2630	TP3630	TP4630			
																															fn (mm/rev)		
	PBI	DCMT 070202	0.15-1.5	0.02-0.07							○	○																				○	
		DCMT 070204	0.15-1.5	0.02-0.07		○		○				○	○																				○
		DCMT 11T302	0.15-2.3	0.02-0.07								○	○																				○
		DCMT 11T304	0.30-2.3	0.04-0.14		○	○		○			○	○																				○
		DCMT 11T308	0.60-2.3	0.09-0.28		○		○				○	○																				○
	EF2	DCMT 070202	0.06-1.50	0.03-0.11																												●	
		DCMT 070204	0.08-1.50	0.05-0.17																												●	
		DCMT 070208	0.08-2.0	0.04-0.15																												●	
		DCMT 11T304	0.11-2.0	0.06-0.23																												●	
		DCMT 11T308	0.15-2.0	0.08-0.30																												●	
	SF1	DCMT 070202	0.08-1.2	0.04-0.10																			○		○								
		DCMT 070204	0.10-1.2	0.06-0.15																				○		○							
		DCMT 11T302	0.10-1.6	0.05-0.12																				○		○							
		DCMT 11T304	0.13-1.8	0.10-0.20																				○		○							
		DCMT 11T308	0.18-1.8	0.10-0.24																				○		○							

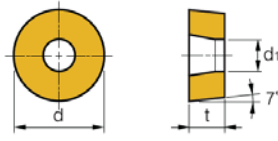
● Stock item

○ Non Stock item

△ Special order



# RC...

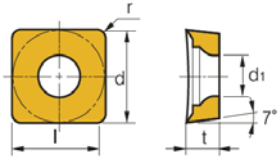


Dimension	Size		
	d	t	d <sub>1</sub>
8	8.0	3.18	3.35
10	10.0	3.18	3.6
12	12.0	4.76	4.2
16	16.0	6.35	5.2

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	TC0215	TN7501	TP2405	TP2410	TP4410	TP2430	TP2620	TP3620	TP2630
	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	TC0215	TN7501	TP2405	TP2410	TP4410	TP2430	TP2620	TP3620	TP2630
	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							○	○										○								







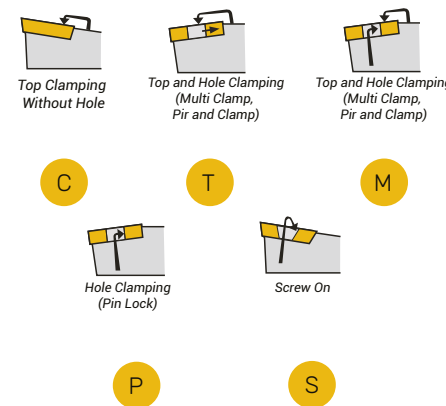




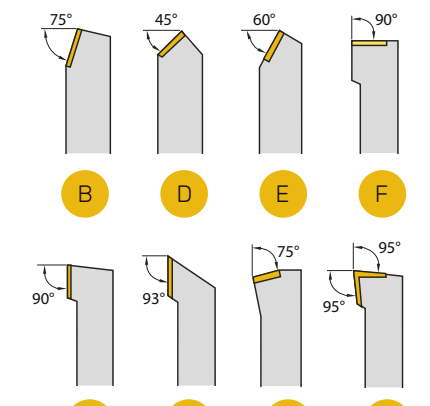
# EXTERNAL TURNING TOOL HOLDER CODE SYSTEM



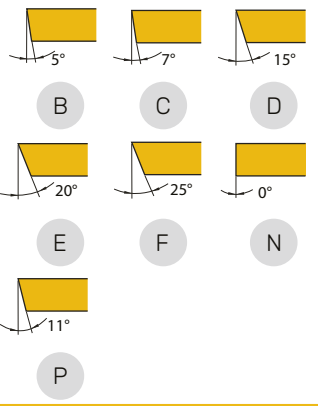
**1 Clamping Method of Inserts**  
P C L N R 20 20 - K 12



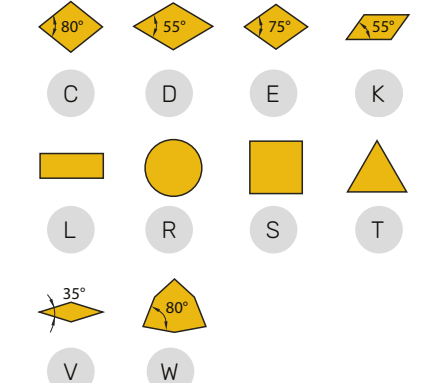
**3 Holder Style**  
P C L N R 20 20 - K 12



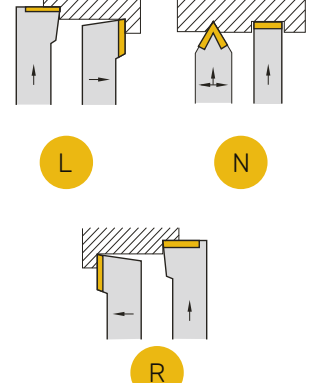
**4 Clearance Angle of Insert**  
P C L N R 20 20 - K 12



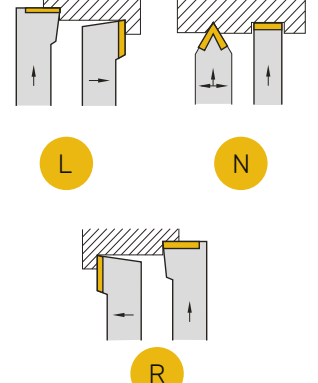
**2 Insert Shape**  
P C L N R 20 20 - K 12



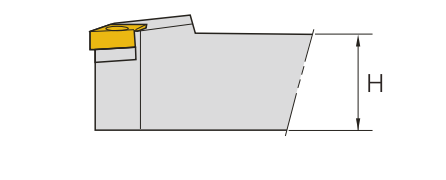
**5 Hand of Holder**  
P C L N R 20 20 - K 12



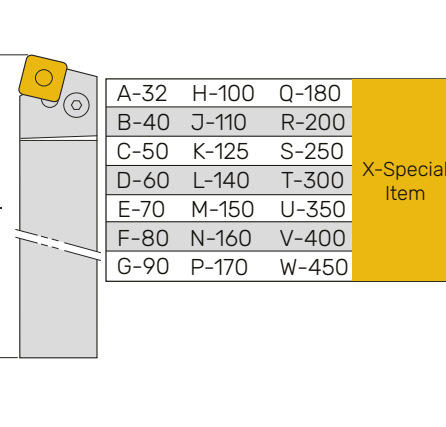
**8 Length of Holder**  
P C L N R 20 20 - K 12



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



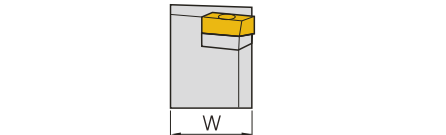
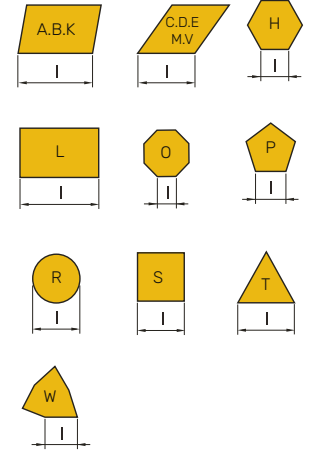
**9 Length of Insert Cutting Edge**  
P C L N R 20 20 - K 12



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


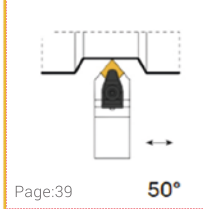
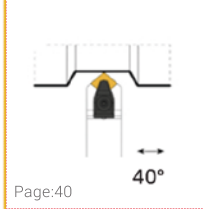

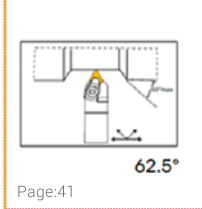

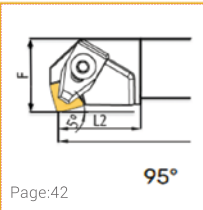
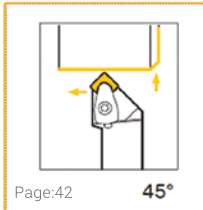
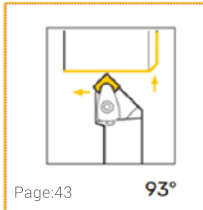
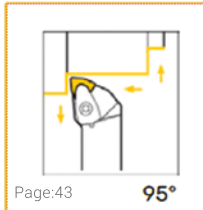

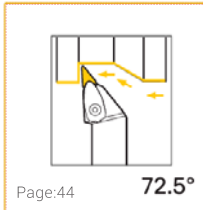

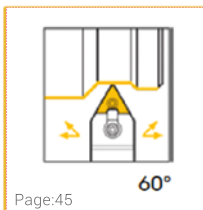
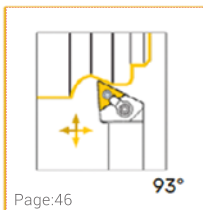
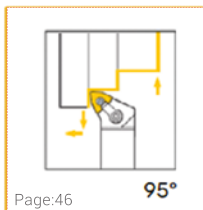
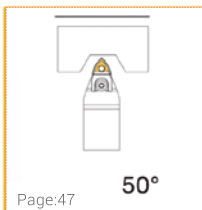
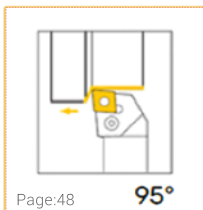


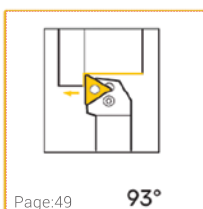
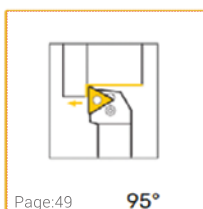
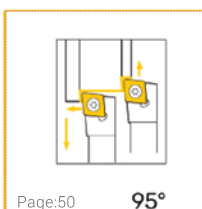
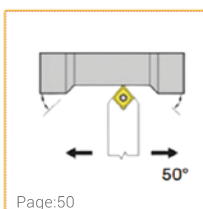


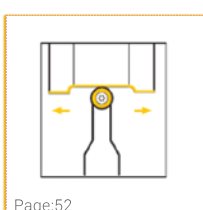
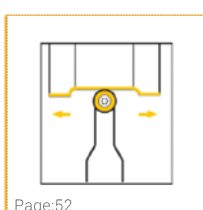
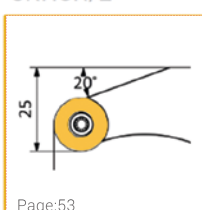
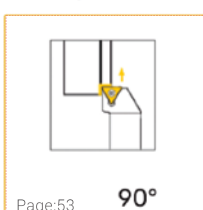
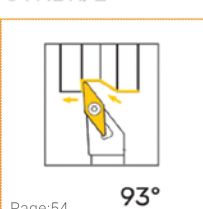
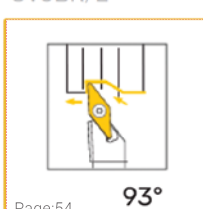
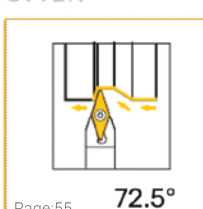
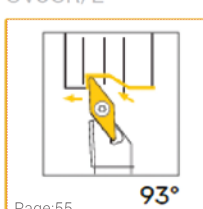
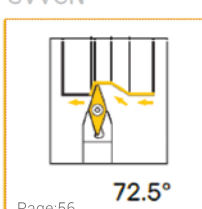
**7 Width of Shank**  
P C L N R 20 20 - K 12

Turning

# OVERVIEW - EXTERNAL TURNING

Turning

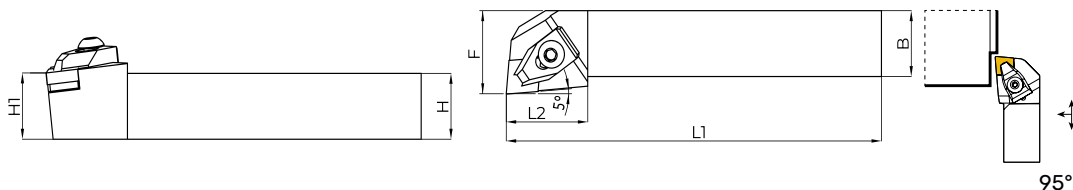
<p>TCLNR/L</p>  <p>Page:39 <b>95°</b></p>	<p>TCMNN</p>  <p>Page:39 <b>50°</b></p>	<p>TCZNN</p>  <p>Page:40 <b>40°</b></p>	<p>TDJNR/L</p>  <p>Page:40 <b>93°</b></p>	<p>TDNNN</p>  <p>Page:41 <b>62.5°</b></p>	<p>TSDNN</p>  <p>Page:41 <b>45°</b></p>
<p>TSLNR/L</p>  <p>Page:42 <b>95°</b></p>	<p>TSSNR/L</p>  <p>Page:42 <b>45°</b></p>	<p>TTJNR/L</p>  <p>Page:43 <b>93°</b></p>	<p>TWLNLR/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>MWLNLR/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>PWLNLR/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



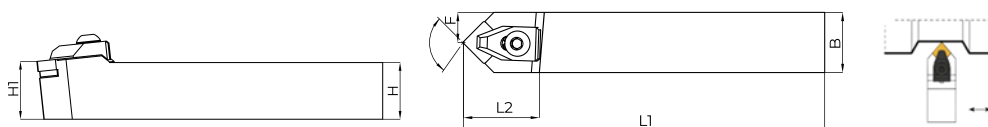
95°

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°

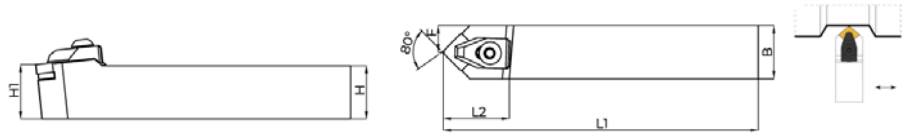
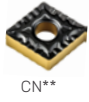
Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Clamp Screw
TCMNN 2020-K12	•	20	20	10	125	35	CNM. 1204	SCN12TM	SS0410M	CT0012M	CS0627M	A3
TCMNN 2525-M12	•	25	25	12,5	150	40						
TCMNN 3232-P12	•	32	32	16	170	40						
TCMNN 3232-P16	•	32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

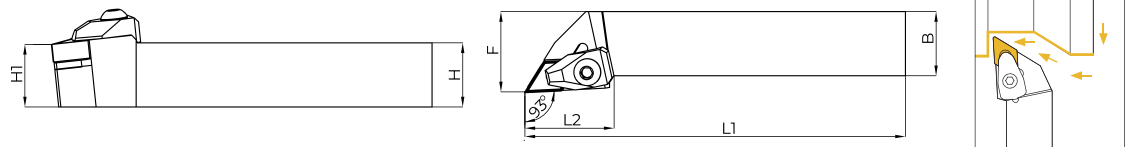


40°

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				CT0019TM		



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

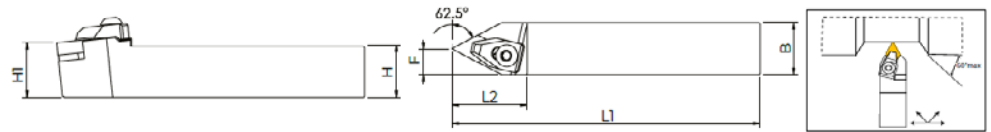
△ Special order

## T TYPE TOOL HOLDER



DN\*\*

## TDNNN



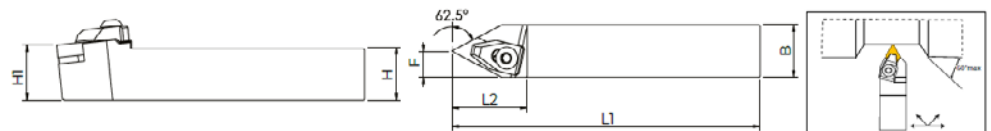
62.5°

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



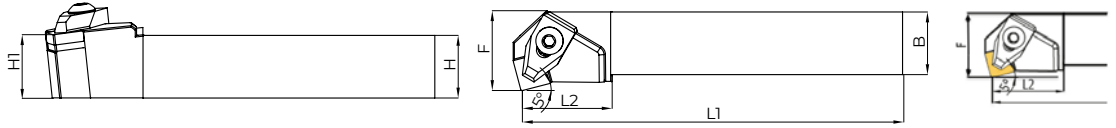
45°

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						

T TYPE TOOL HOLDER



SN\*\*



95°

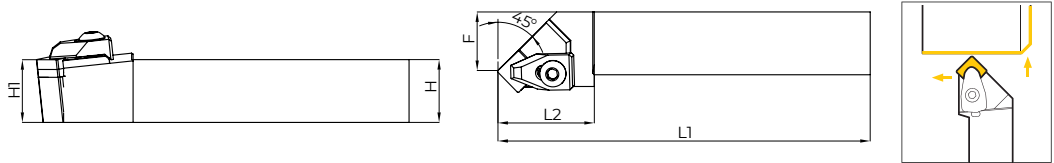
TSLNR/L

Turning

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						
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	SNMG 1506	SSN15TM	SS0410M	CT0015M	CS0627M	A3
TSSNR/L 3232-P15	•	•	32	32	30	170	40						
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

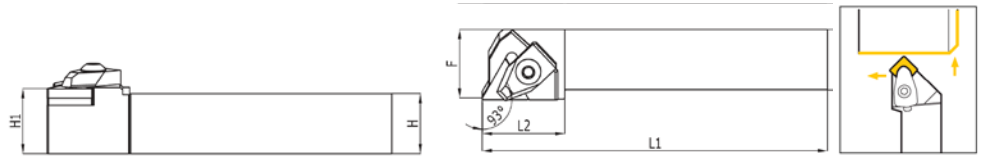
△ Special order

## T TYPE TOOL HOLDER



TN\*\*

## TTJNR/L



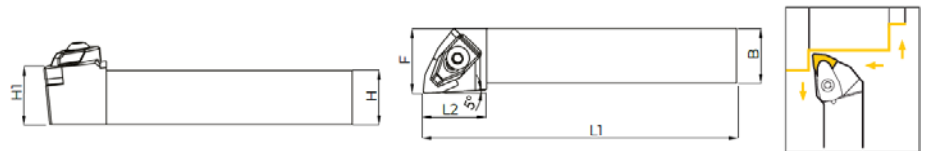
93°

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



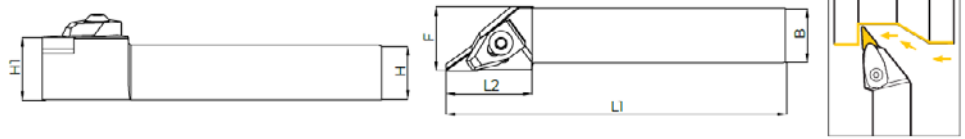
95°

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\*\*



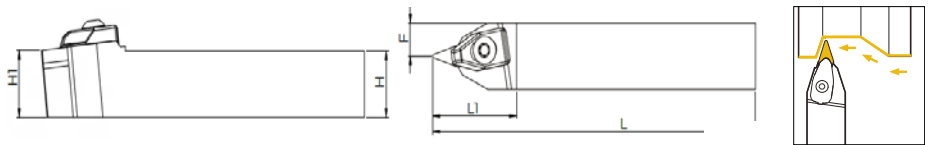
93°

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°

TVNNS

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

● Stock item

○ Non Stock item

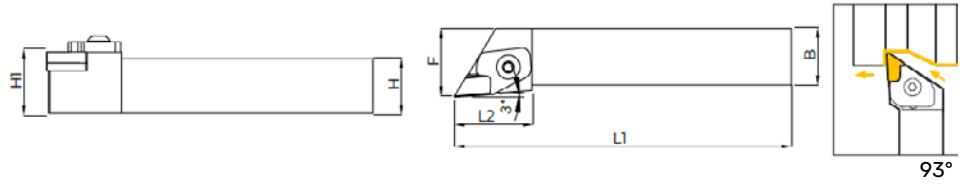
△ Special order

## C TYPE TOOL HOLDER



KN\*\*

CKJNR/L



93°

Turning

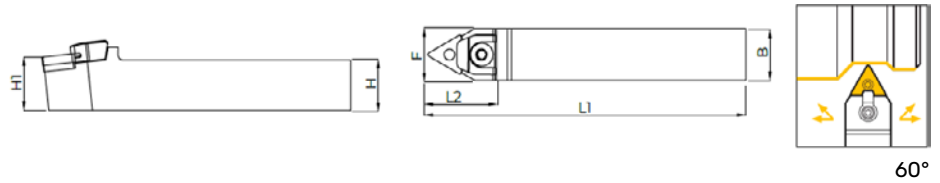
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Screw	Clamp	Screw
CKJNR/L 2020-K16	●	●	20	20	25	125	35	KNUX 1604..	SK16RCM	SS0310M	CC0016M	CS0622M	A5
CKJNR/L 2525-M16	●	●	25	25	32	150	40						
CKJNR/L 3232-P16	●	●	32	32	40	170	40						
CKJNR/L 4040-R16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

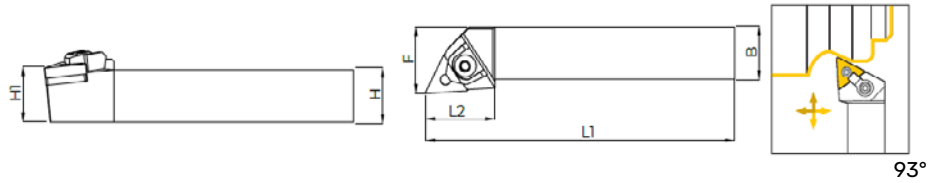
△ Special order

M TYPE TOOL HOLDER



TN\*\*

MTJNR/L



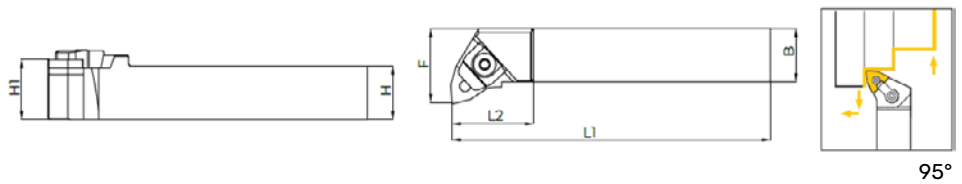
93°

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	SP053615M	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

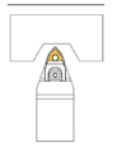
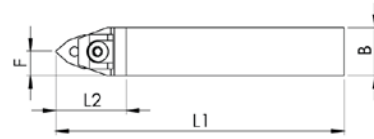
△ Special order

## M TYPE TOOL HOLDER



WN\*\*

MWDNN



50°

Turning

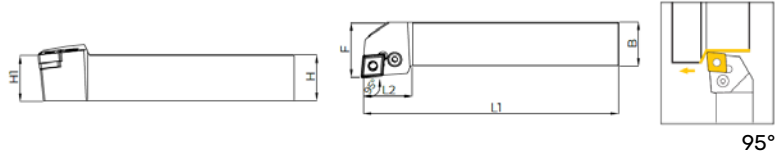
Order Code	Stock Availability	Dimensions (mm)					Insert	Spare Parts				
		H1	H	B	F	L1		L2	Shim	Shim Pin	Clamp	Screw
MWDNN 1616-K06	●	16	16	8	125	35	WNM.0604	SWN06MM	SP053615M	CM0006M	CS0523M	A3
MWDNN 2020-K06	●	20	20	10	125	35						
MWDNN 2020-K08	●	20	20	10	125	40	WNM.0804..	SWN08MM	SP0658M	CM0008M	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

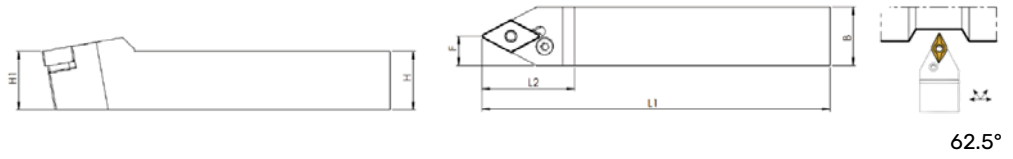
## P TYPE TOOL HOLDER



## 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

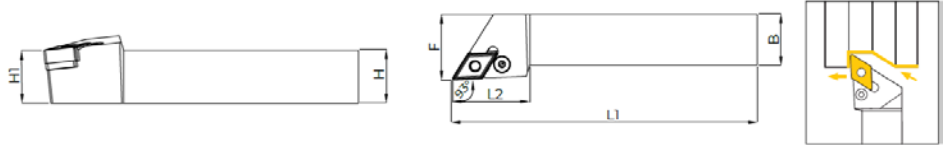
▲ Special order

## P TYPE TOOL HOLDER



DN\*\*

## PDJNR/L



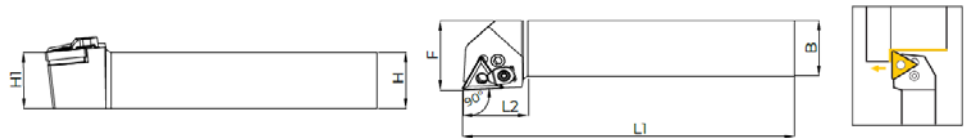
93°

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			SM8UM	A4		
PDJNR/L 4040-R15	•	•	40	40	45	200	45						



TN\*\*

## PTJNR/L



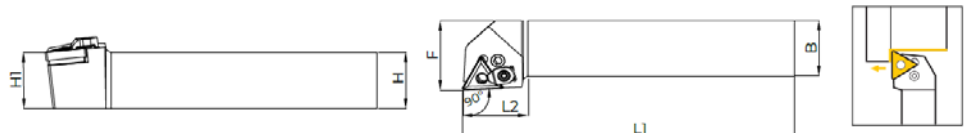
93°

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			SM8UM			



WN\*\*

## PWLNR/L



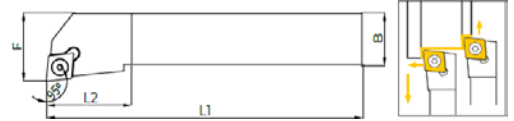
95°

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				
PWLNR/L 3232-P08	•	•	32	32	40	170	40			SM8UM				A4
PWLNR/L 4040-R08	•	•	40	40	50	200	45			SM8UM				

S TYPE TOOL HOLDER



CC\*\*



95°

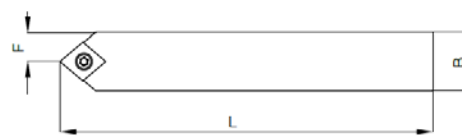
SCLCR/L

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	CC.T 09T3..	-	-	-	SM3,5X10	T15
SCLCR/L 1212-H09	●	●	12	12	15	100	20						
SCLCR/L 1616-H09	●	●	16	16	20	100	25						
SCLCR/L 2020-K09	●	●	20	20	25	125	35	CC.T 1204..	SCC12SM	SS0610M	-	SM4X16	T15
SCLCR/L 2525-M09	●	●	25	25	32	150	35						
SCLCR/L 1616-H12	●	●	16	16	20	100	25						
SCLCR/L 2020-K12	●	●	20	20	25	125	35	CC.T 1204..	SCC12SM	SS0610M	-	SM4X16	T15
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..	-	-	-	SM3,5X10	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

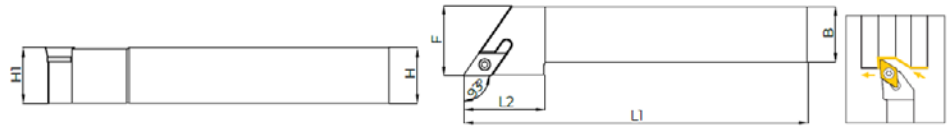
△ Special order

## S TYPE TOOL HOLDER



DC\*\*

## SDJCR/L



93°

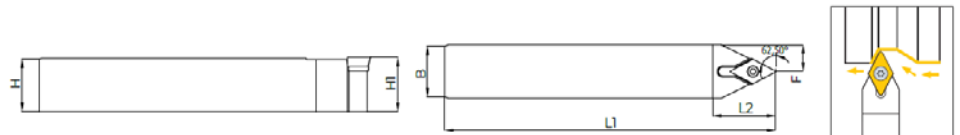
Turning

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\*\*



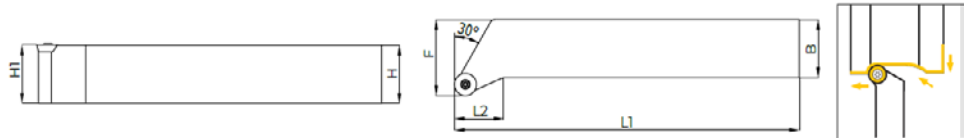
**SRDCN**

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\*\*



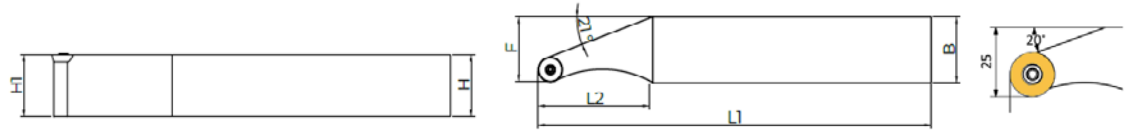
**SRGCR/L**

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



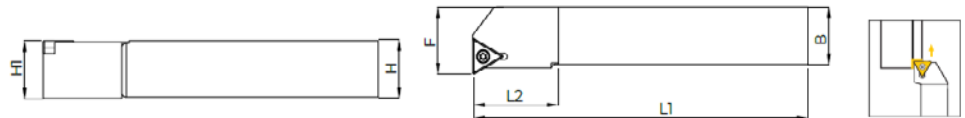
## SRHCR/L



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



## STFCR/L



90°

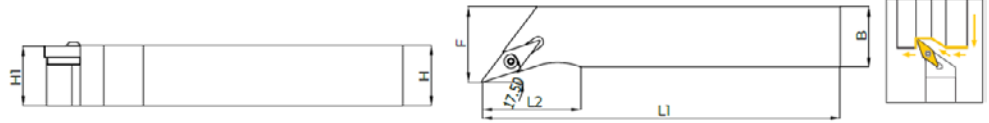
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
STFCR/L 1212-H11	●	●	12	12	16	100	25	TC.T 11..	-	-	-	SM2,5X7	T8
STFCR/L 1616-H11	●	●	16	16	20	100	25		-	-	-	SM2,5X7	T8
STFCR/L 1616-H16	●	●	16	16	20	100	25		-	-	-	SM2,5X7	T8
STFCR/L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

● Stock item

○ Non Stock item

△ Special order

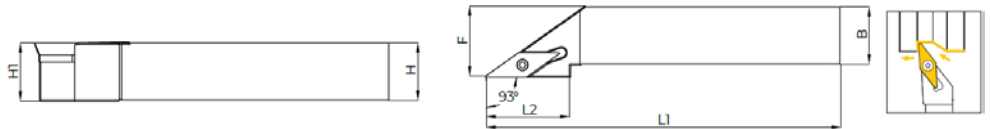
S TYPE TOOL HOLDER



107.5°

SVHBR/L

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						



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

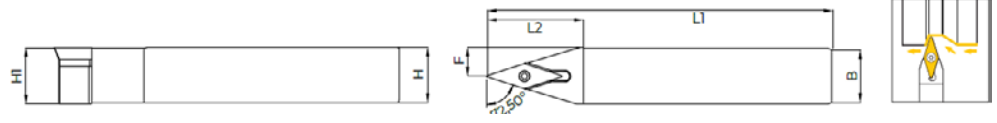
△ Special order

## S TYPE TOOL HOLDER



VB\*\*

## SVVBN



72.5°

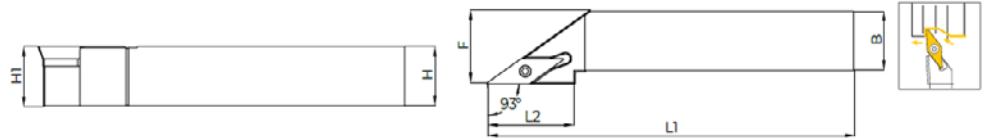
Turning

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°

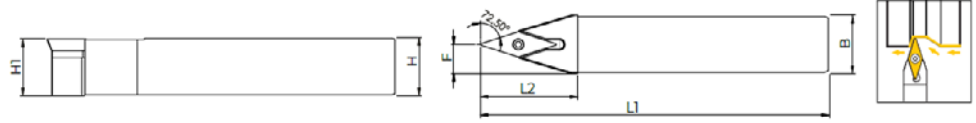
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVJCR/L 1212-H11	•	•	12	12	20	100	20	VCM. 1103..	-	-	-	SM2,5X7	T08
SVJCR/L 1616-H11	•	•	16	16	20	100	25		-	-	-	SM2,5X7	T08
SVJCR/L 2020-K11	•	•	20	20	25	125	35		-	-	-	SM2,5X7	T08
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



SVVCN

72.5°

Turning

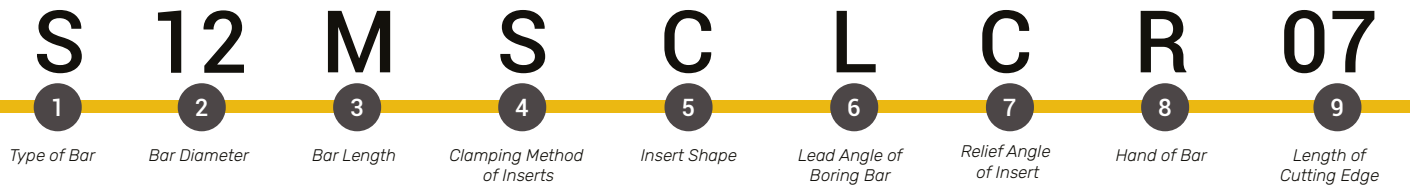
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	H1	H	B	F	L1		L2	Shim	Shim Screw	Clamp	Screw
SVVCN 1212-H11	•		12	12	6	100	20	VCM. 1103..	-	-	-	SM2,5X7	T08
SVVCN 1616-H11	•		16	16	8	100	25						
SVVCN 2020-K11	•		20	20	12,5	125	35						
SVVCN 1616-H16	•		16	16	8	100	25	VCM. 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** 12 M - S C L C R - 07

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

**2** Bar Diameter  
 S 12 M - S C L C R - 07

**3** Bar length  
 S 12 M - S C L C R - 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  
 S 12 M - S C L C R - 07

**5** Insert Shape  
 S 12 M - S C L C R - 07

**6** Lead Angle of Boring Bar  
 S 12 M - S C L C R - 07

**8** Hand of Bar  
 S 12 M - S C L C R - 07

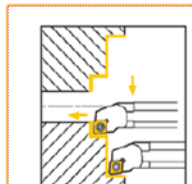
**7** Relief Angle of Insert  
 S 12 M - S C L C R - 07

**9** Length of Cutting Edge  
 S 12 M - S C L C R - 07

Turning

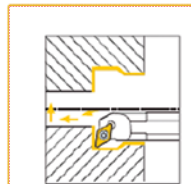
# OVERVIEW - INTERNAL TURNING

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



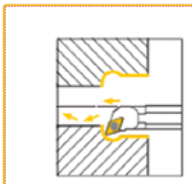
Page:59 95°

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



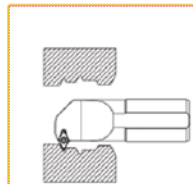
Page:60 93°

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



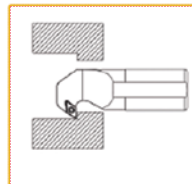
Page:61 107.5°

S...SD-CR/L



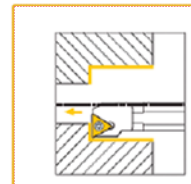
Page:62 62.5°

S...SDXCR/L



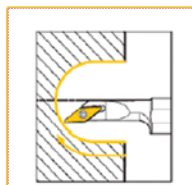
Page:62 62.5°

S...STFCR/L



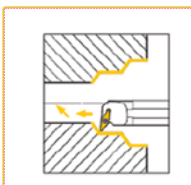
Page:63 90°

S...SVJBR/L



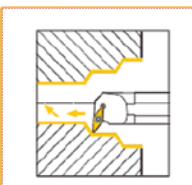
Page:61 93°

S...SVUBR/L



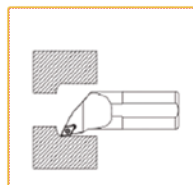
Page:63 93°

S...SVUCR/L



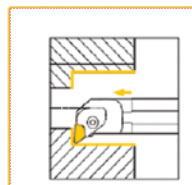
Page:64 93°

S...SDPCR/L



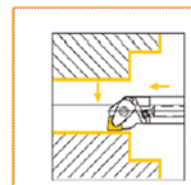
Page:64 117.5°

S...CKUNR/L



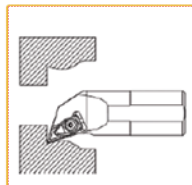
Page:65 93°

S...TCLNR/L



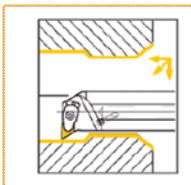
Page:65 95°

S...TDQNR/L



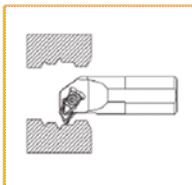
Page:64 107.5°

S...TDUNR/L



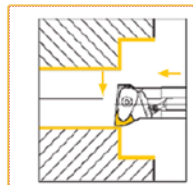
Page:66 93°

S...TD-NR/L



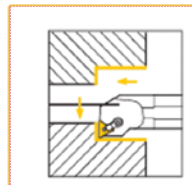
Page:67 62.5°

S...TWLNR/L



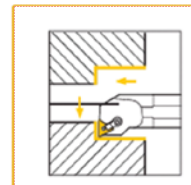
Page:67 95°

S...MTUNR/L



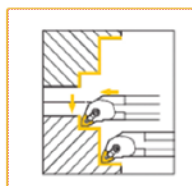
Page:68 93°

S...MT-NR/L



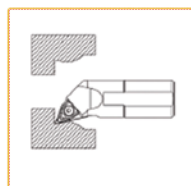
Page:68 60°

S...MWLNR/L



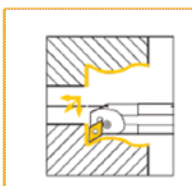
Page:69 95°

S...MTQNR/L



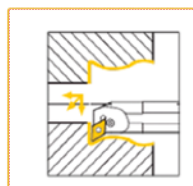
Page:69 107.5°

S...PCLNR/L



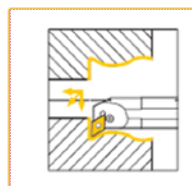
Page:70 95°

S...PDUNR/L



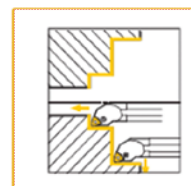
Page:70 93°

S...PTUNR



Page:71 93°

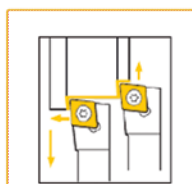
S...PWLNR/L



Page:71 95°

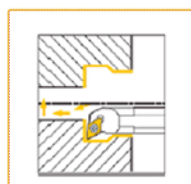
## ANTI-VIBRATION

SCLCR/L



Page:72 95°

SDUCR/L



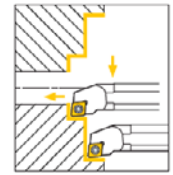
Page:72 93°

## 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

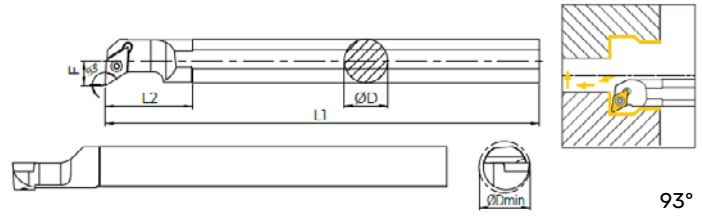
△ Special order

## S TYPE TOOL HOLDER



DC\*\*

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



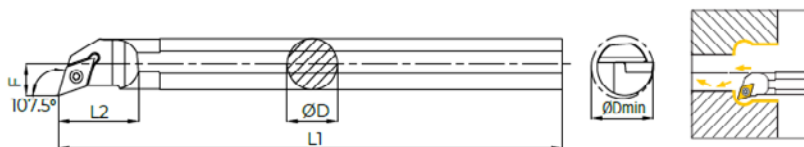
93°

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			

## S TYPE TOOL HOLDER



DC\*\*



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

107.5°

Turning

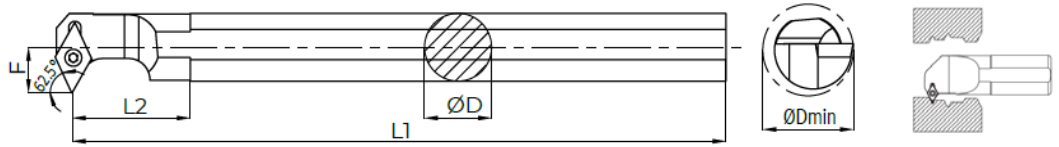
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts			
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Screw	Allen Key
S10K SDQCR/L-07	●	●	10	13	7,5	125	25	DC.T 0702..	-	-	SM2,5X5	T08
A10K SDQCR-07		●	10	12	7,5	125	25					
S12M SDQCR/L-07	●	●	12	16	9	150	30					
A12M SDQCR-07		●	12	16	9	150	30					
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	

● Stock item

○ Non Stock item

△ Special order

S TYPE TOOL HOLDER

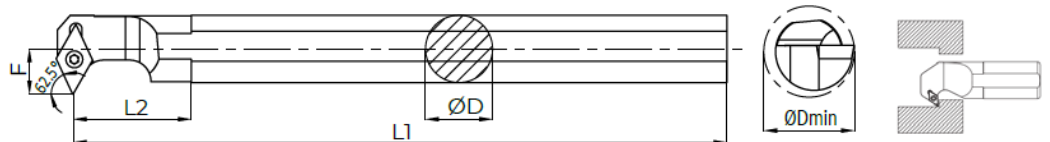


S...SD-CR/L

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

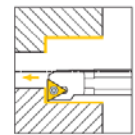
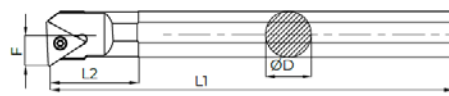
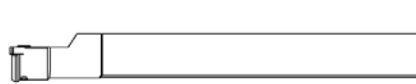
○ Non Stock item

△ Special order

## S TYPE TOOL HOLDER



TC\*\*



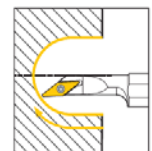
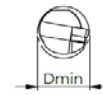
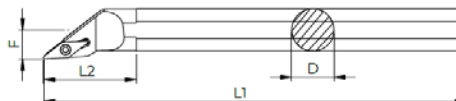
90°

## S...STFCR/L

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					



VB\*\*



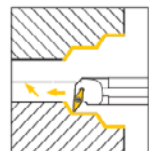
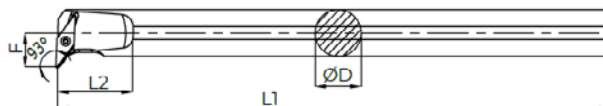
93°

## S...SVJBR/L

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					



VB\*\*



93°

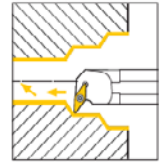
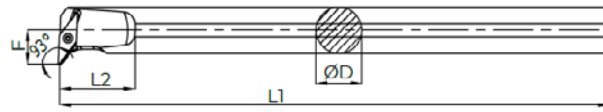
## S...SVUBR/L

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\*\*



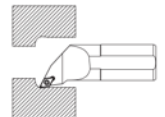
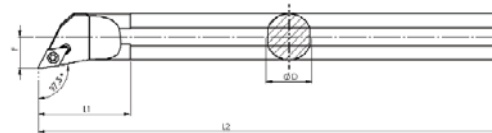
93°

S...SVUCR/L

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

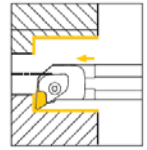
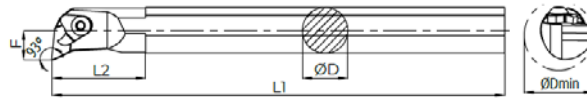
△ Special order

## C TYPE TOOL HOLDER



KN\*\*

S...CKUNR/L



93°

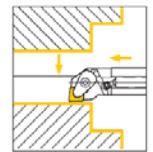
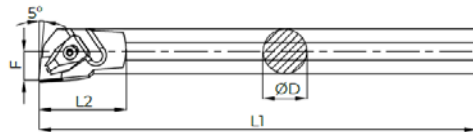
Order Code	Stock Availability		Dimensions (mm)					Insert	Spare Parts				
	L	R	D	Dmin	F	L1	L2		Shim	Screw	Clamp	Screw	Allen Key
S25S CKUNR/L-16	●	●	25	32	17	250	50	KNUX 1604	SKN16RCM SKN16LCM	SS0310M	CC0016M	CS0627M	A3
S32T CKUNR/L-16	●	●	32	40	22	300	60						
S40V CKUNR/L-16	●	●	40	50	27	400	65				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

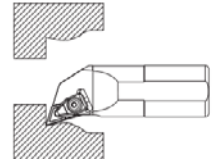
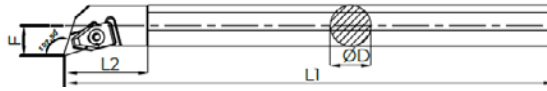
○ Non Stock item

△ Special order

T TYPE TOOL HOLDER



DN\*\*



S...TDQNR/L

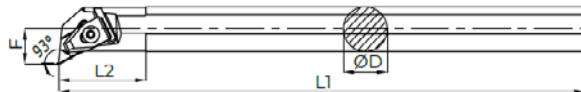
107.5°

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

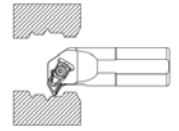
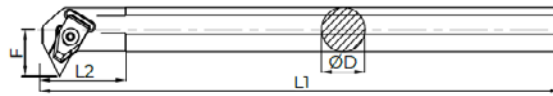
○ Non Stock item

△ Special order

## T TYPE TOOL HOLDER



DN\*\*



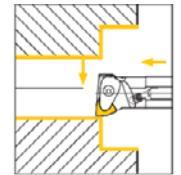
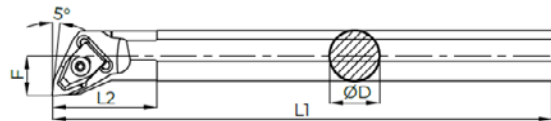
## S...TD-NR/L

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

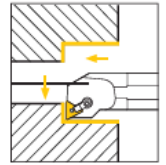
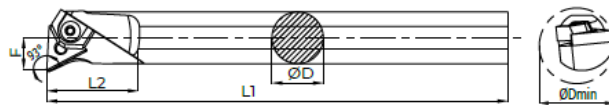
○ Non Stock item

△ Special order

M TYPE TOOL HOLDER



TN\*\*



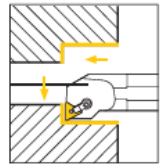
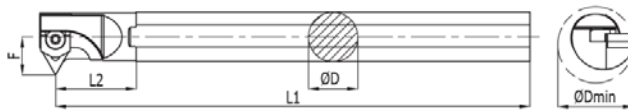
93°

S...MTUNR/L

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			STN16TMM	SP053615M	CS0523M	
S40V MTUNR/L-16	●	●	40	50	27	400	70		TNM. 2204..		STN22TMM	SP060515M	
S32T MTUNR/L-22	●	●	32	40	22	300	60						
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			STN16TMM	SP053615M	CS0523M	
S40V MT-NR/L-16	●	●	40	50	29,5	400	70		TNM. 2204..		STN22TMM	SPTN22M	
S32T MT-NR-22		●	32	40	23	300	55						
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

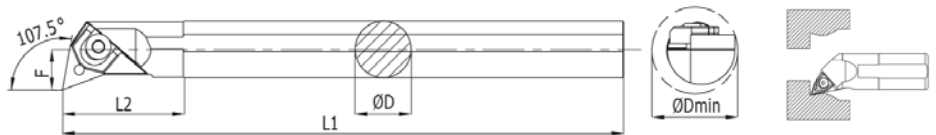
## M TYPE TOOL HOLDER



## S...MWLNR/L

95°

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						



## 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

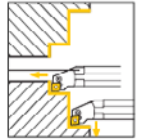
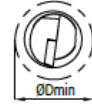
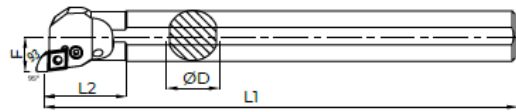
○ Non Stock item

△ Special order

P TYPE TOOL HOLDER



CN\*\*



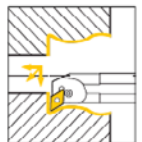
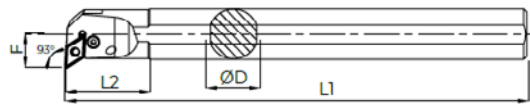
95°

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

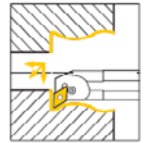
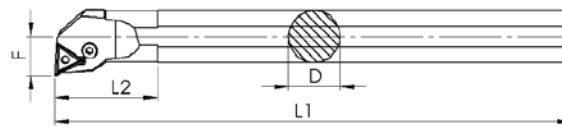
△ Special order

## P TYPE TOOL HOLDER



TN\*\*

## S...PTUNR



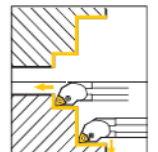
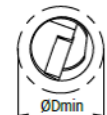
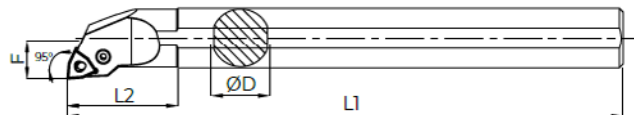
93°

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	TNM. 2204..	STN22PM	SP022M	S00KM8U	LP022M	
S32T-PTUNR-22		●	32	40	22	300	60						
S40V-PTUNR-22		●	40	50	27	400	70						
S50W-PTUNR-22		●	50	63	35	450	75						



WN\*\*

## S...PWLNR/L



95°

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

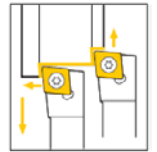
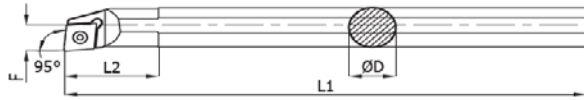
○ Non Stock item

△ Special order

ANTI-VIBRATION TOOLS



CC\*\*



95°

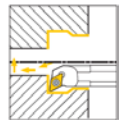
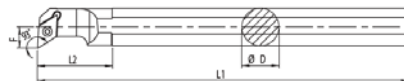
**SCLCR/L**

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	Δ	Δ	8	11	6	100	30	CC.T 0602	-	SM2,5X5	T08
C8K SCLCR/L-06	Δ	Δ	8	11	6	125	25				
C10K SCLCR-06		Δ	10	13	7	125	25				
A10K SCLCR/L-06	Δ	Δ	10	13	7	125	25				
C12K SCLCR-06	Δ	Δ	12	16	9	125	30				
A12K SCLCR/L-06	Δ	Δ	12	16	9	125	30				
C16Q-SCLCR-09		Δ	16	20	11	180	35	CC.T 09T3	-	SM3,5X8	T15
C18Q SCLCR-/09	Δ	Δ	18	20	11	180	35				
C20M SCLCR-09		Δ	20	25	13	150	40				
C20Q SCLCR-09		Δ	20	25	13	180	40				
A20Q SCLCR-09		Δ	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		Δ	10	13	7,5	125	25	DC.T 0702	-	SM2,5X5	T08
A10K SDUCR/L-07	Δ	Δ	10	13	7,5	125	25				
C12K SDUCR/L-07	Δ	Δ	12	16	9	125	30				
A12K SDUCR/L-07	Δ	Δ	12	16	9	125	30				
C12M SDUCR-07		Δ	12	16	9	150	30			SM2,5X7	
C16K SDUCR-11		Δ	16	20	11	125	35	DC.T 11T3	-	SM3,5X8	T15
A16Q SDUCR/L-11	Δ	Δ	16	20	11	180	35				
C16Q SDUCR-11		Δ	16	20	11	180	35				
C18Q SDUCR-11		Δ	18	20	11	180	35				
C20K SDUCR-11		Δ	20	25	13	125	40				
C20Q SDUCR-11		Δ	20	25	13	180	40				
C20R SDUCR-11		Δ	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					

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)	250(150-310)	150(100-280)	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)	250(150-310)	150(100-280)	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

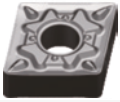
▲ Special order

## 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	○		○	○			
		DNMG 150404	0.05-0.30	0.80-3.50	○					○	
	CES	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)
		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)
	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

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

## TPGT

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	△		△				
				fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620	

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		○			○	
				fn (mm/rev)	CN7610	CN7620	CP1610	CP4610	CP1620	CP4620

● Stock item

○ Non Stock item

△ Special order

## CERMET INSERTS

## POSITIVE INSERTS

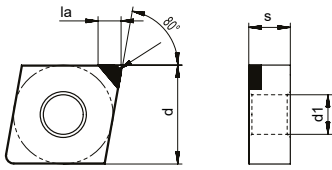
## VBMT

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

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)

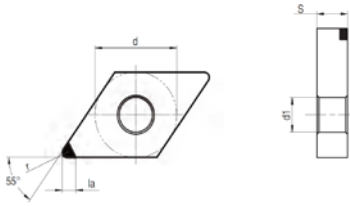


Dimensions (mm)				
Type	d	s	la	d1
CN_1204_	12,7	4,76	3,0	5,16

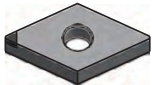
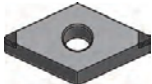
Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	CNGA 120402 S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	CNGA 120404 S01020	0,4	0.03-0.3	0.05-0.5	●	●	●
	CNGA 120408 S01020	0,8	0.03-0.3	0.05-0.5	●	●	●
	CNGA 120412 S01020	1,2	0.03-0.3	0.05-0.5	●	●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

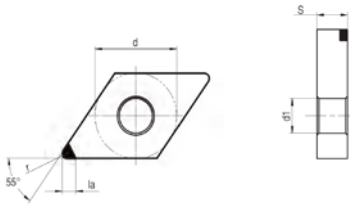


Dimensions (mm)				
Type	d	s	la	d1
DN_1504_	12,7	4,76	3,0	5,16
DN_1506_	12,7	6,35	3,0	5,16

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)

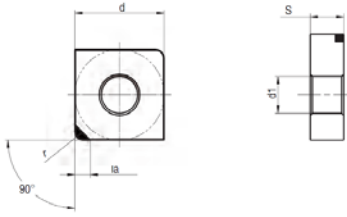


Dimensions (mm)				
Type	d	s	la	d1
DN_1504_	12,7	4,76	3,0	5,16
DN_1506_	12,7	6,35	3,0	5,16



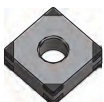
Inserts	Insert Code	r (mm)	Recommended Cutting Parameters		Grades		
			f (mm/rev)	ap (mm)	BN7405	BN7415	BN7208
	4C-DNGA 150402-S01020	0,2	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150404-S01020	0,4	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150408-S01020	0,8	0.03-0.3	0.05-0.5	○	○	○
	4C-DNGA 150412-S01020	1,2	0.03-0.3	0.05-0.5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

## CBN INSERTS

## Negative 90°(SN)

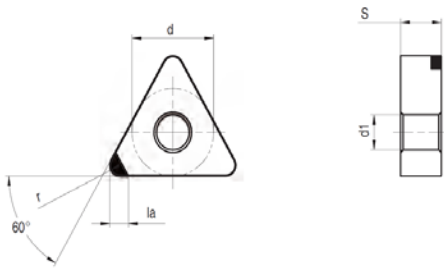


Dimensions (mm)				
Type	d	s	la	d1
SN_1204_	12,7	4,76	3,0	5,16

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)

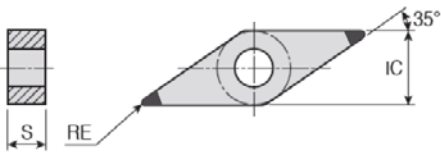


Dimensions (mm)				
Type	d	s	la	d1
TN_1604_	9,52	4,76	3,0	3,81




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)

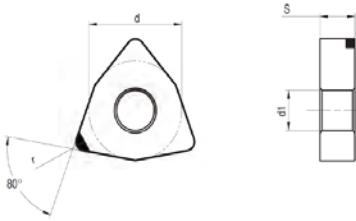


Dimensions (mm)				
Type	d	s	la	d1
VN_1604_	9,525	4,76	3,0	3,81

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)

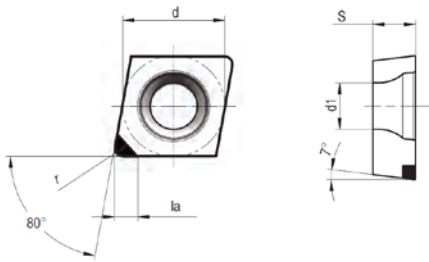


Dimensions (mm)				
Type	d	s	la	d1
VN_1604_	9,525	4,76	3,0	3,81

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	○	○	○

## 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

Turning

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	○	○	○

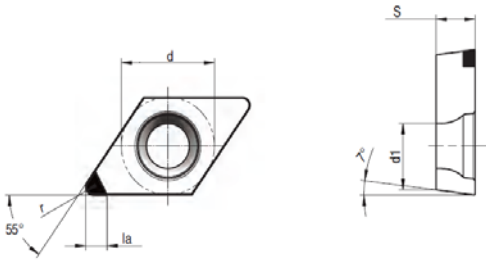
● Stock item

○ Non Stock item

△ Special order

## CBN INSERTS

## Positive 55°(DC)

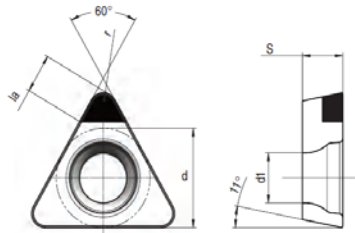


Dimensions (mm)				
Type	d	s	la	d1
DC_0702_	6,35	2,38	3,0	2,80
DC_11T3_	9,52	3,97	3,0	4,40

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	○	○	○

## CBN INSERTS

## Positive 60°(TP)

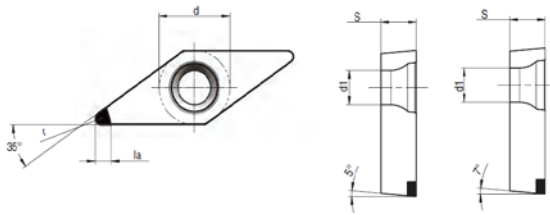


Type	Dimensions (mm)			
	d	s	la	d1
TP_0802_	4,76	2,38	3,0	2,40
TP_1102_	6,35	2,38	4,0	2,80
TP_1103_	6,35	3,18	4,0	3,40
TP_1604_	9,52	4,76	3,0	4,40

Inserts	Insert Code	r (mm)	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
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)	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	○	○	○

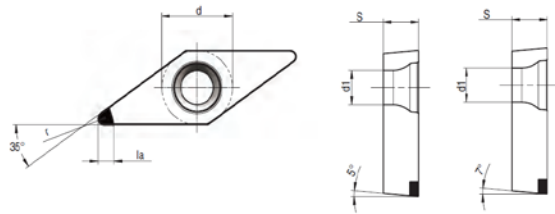
● Stock item

○ 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
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)	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°	○	○	○

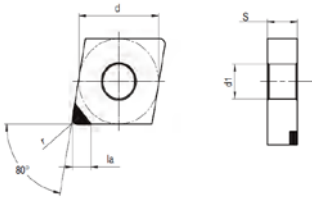
Full Face CBN

## 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

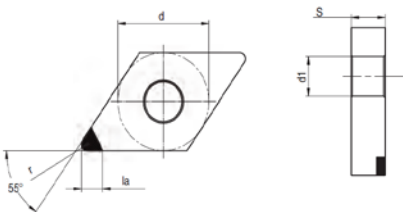
## Negative 80°(CN)



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)

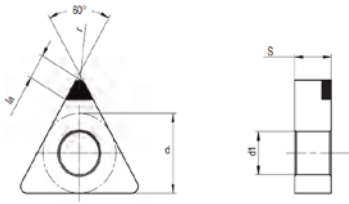


Dimensions (mm)				
Type	d	s	la	d1
DN_1504_	12,7	4,76	3,0	5,16

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

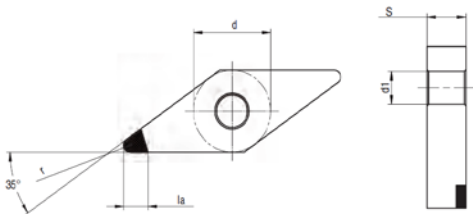
## Negative 60°(TN)



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)

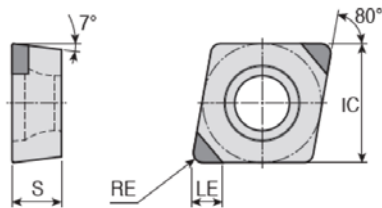


Dimensions (mm)				
Type	d	s	la	d1
VN_1604_	9,525	4,76	3,0	3,81

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)



Type	Dimensions (mm)			
	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

Turning

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	○

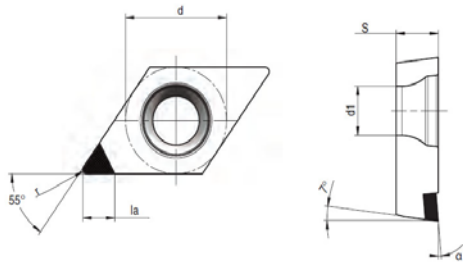
● Stock item

○ Non Stock item

▲ Special order

## PCD INSERTS

## Positive 55°(DC)

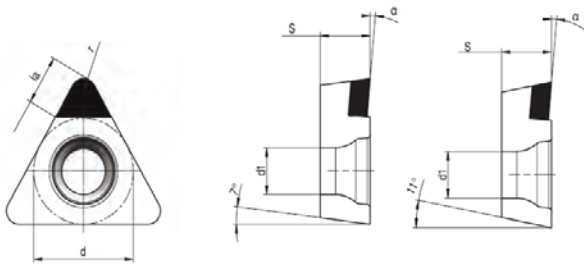


Dimensions (mm)				
Type	d	s	la	d1
DC_0702_	6,35	2,38	3,0	2,80
DC_11T3_	9,52	3,97	3,0	4,40

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)



Dimensions (mm)				
Type	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

Turning

Inserts	Insert Code	r (mm)	$\alpha$ (°)	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	○

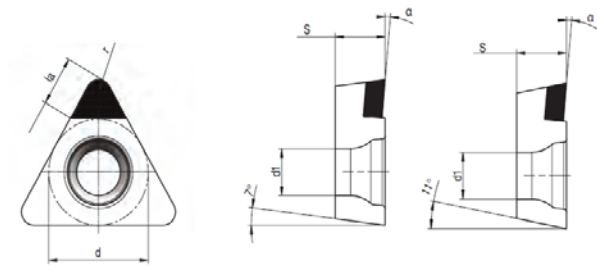
● Stock item

○ Non Stock item

▲ Special order

## PCD INSERTS

## Positive 60°(T)

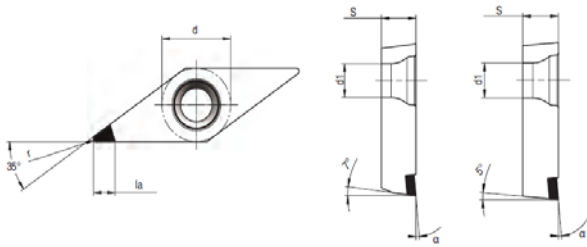


Type	Dimensions (mm)			
	d	s	la	d1
TC_0802_	4,76	2,38	3,0	2,40
TC_1103_	6,35	3,18	3,0	2,80
TC_16T3_	9,52	3,97	2,5	4,40
TP_0802_	4,76	2,38	3,0	2,40
TP_1102_	6,35	2,38	4,0	2,80
TP_1103_	6,35	3,18	4,0	3,40
TP_1604_	9,52	4,76	3,0	4,40

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)



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

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	●

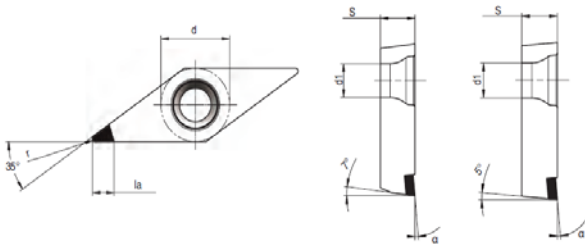
● Stock item

○ 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	●

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