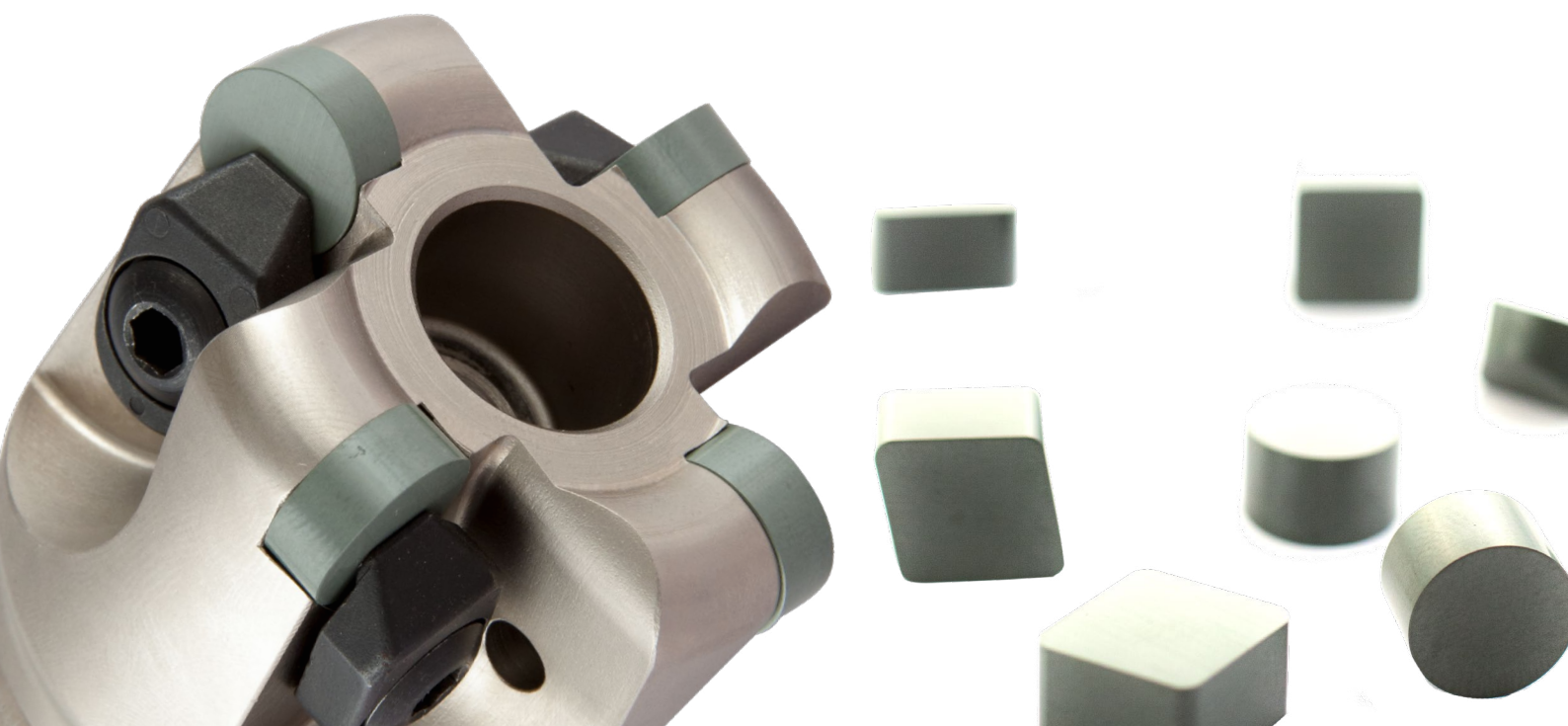


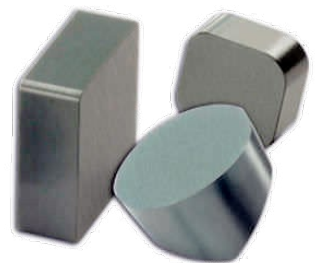
CERAMIC CERAMIKA

Whisker ZrO_2 Al_2O_3 SiAlON



CERAMIC INSERT

TIZ Ceramic Cutting Tool is an inorganic material, die-pressed and sintered using very fine and pure raw materials with fine microstructure. Since the TIZ ceramic inserts are prepared by HIP process to condense completely, it has high thermal shock resistance, excellent fracture toughness and distinguished wear resistance through HIP.



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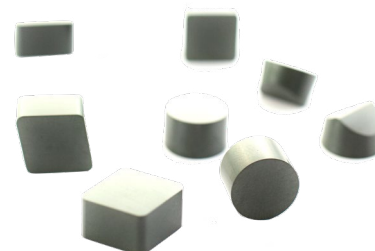
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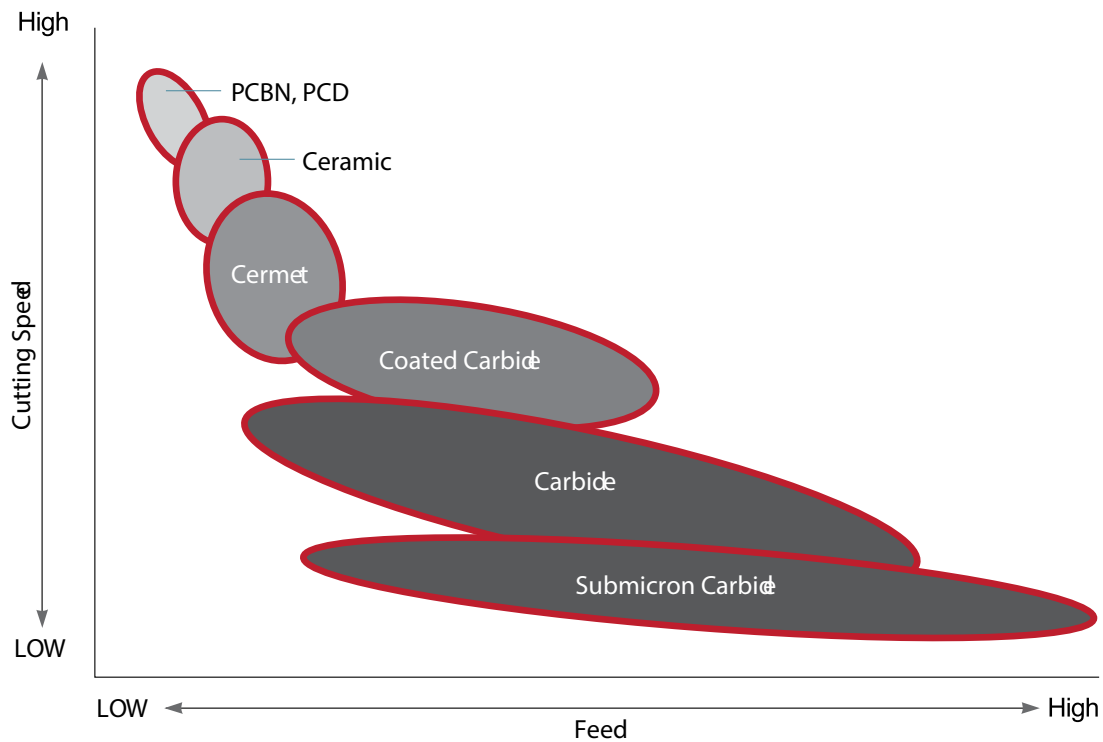
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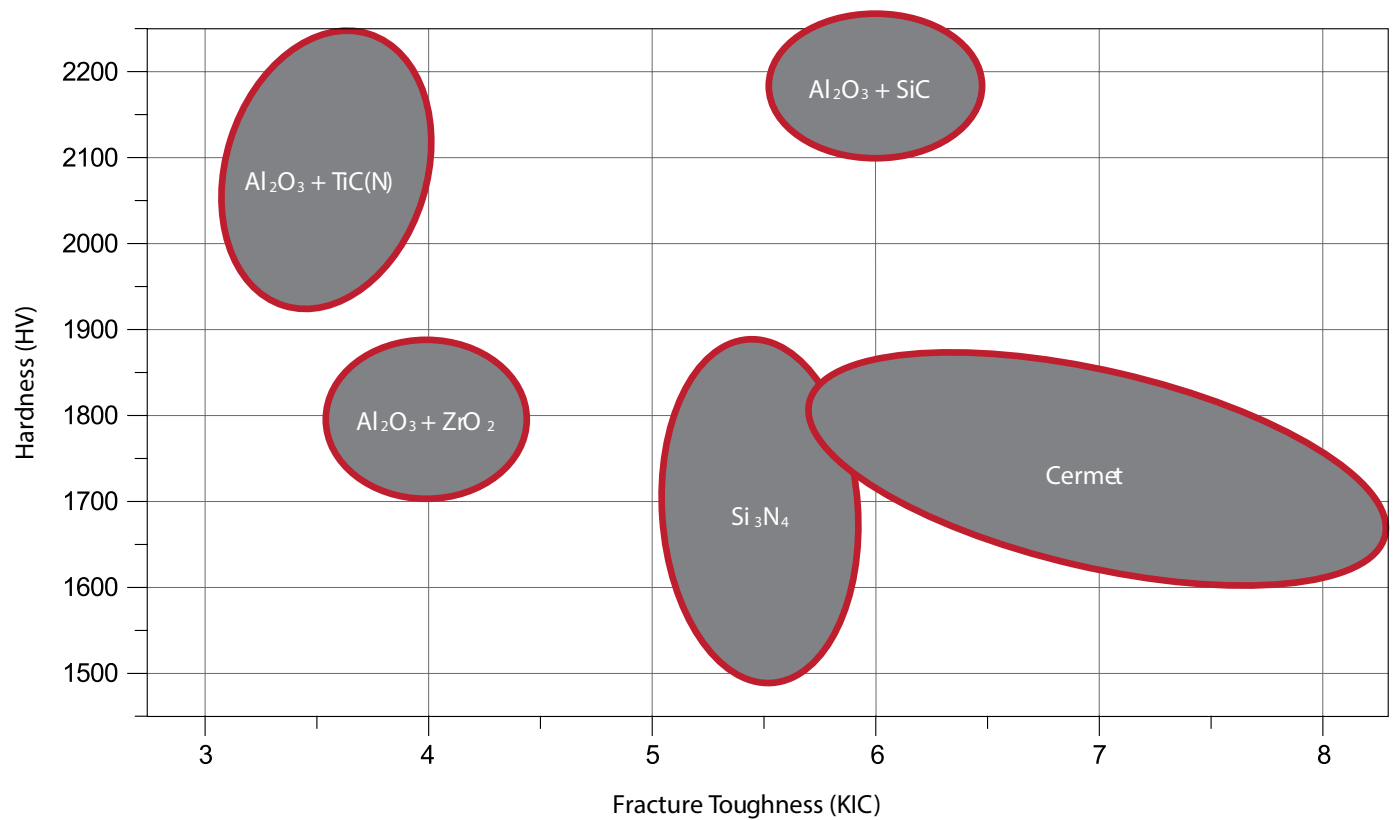
CERAMIC GRADES

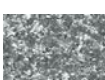
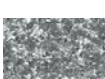
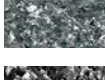
SiC-Whisker	S400	High Speed Steel, High Chrome Steel in medium or low speed cutting. Roughing and medium cutting with heavy interruption
	S800	Nickel Base Alloy, Cobalt Base Alloy in high speed cutting. Roughing and finishing with continuous or light interruption
Al ₂ O ₃ +TiC(N)	S300	Finishing for hardened steel and cast iron
	S310	General machining for hardened steel and cast iron
	S320	Fine finishing for hardened steel and cast iron
	S340	Fine finishing for hardened steel and cast iron in high speed
TiN Coating	S610	TiN coated on S300 grade
	S620	TiN coated on S310 grade
AlTiN Coating	S622	AlTiN coated on S310 grade
TiC+Al ₂ O ₃	S100	Turning & Milling for ductile cast iron in finish
Al ₂ O ₃ +ZrO ₂	S410	Medium cutting for high hardness cast iron
	S420	Medium cutting for cast iron
Si ₃ N ₄	S025	Roughing and interrupted cutting for cast iron
	S200	Roughing and heavy interrupted cutting for cast iron
	S210	General machining for cast iron
	S220	Roughing for hard material in high speed
	S230	Roughing for hard material with interrupted in high speed
	S250	General machining for Ni-based alloy and cast iron (Dry)
	S1000	General machining for Ni-based alloy and Cobalt-based alloy
Multi Coating	N400	AlTiN/TiN coated on S210 grade

Application Range



Mechanical Properties



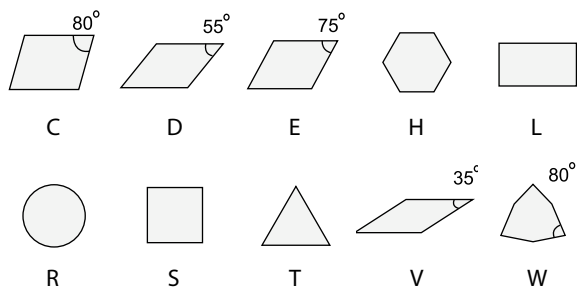
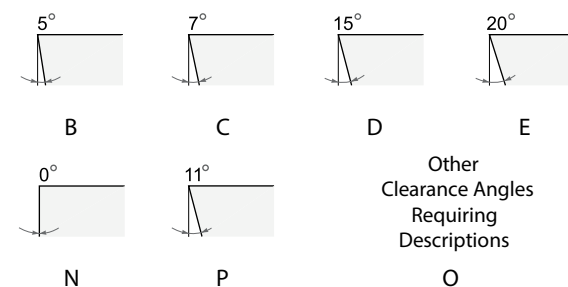
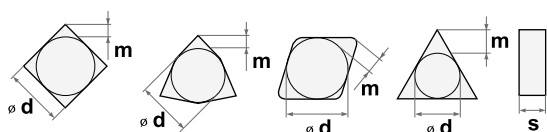
	Whisker	S400	Excellent flank & notch wear in high speed cutting Al ₂ O ₃ +SiC. High Speed Steel, High Chrome Steel in medium or low speed cutting Roughing and medium cutting with heavy interruption	Tougher  Harder
		S800	Excellent flank & notch wear in high speed cutting Al ₂ O ₃ +SiC. Nickel Base Alloy, Cobalt Base Alloy in high speed cutting Roughing and finishing with continuous or light interruption	
	Al₂O₃	S300	Tougher alternative to S310 High thermal shock resistance Al ₂ O ₃ +TiC Universal grade for machining cast iron and hardened steel	Tougher  Harder
		S310	Excellent wear resistance Al ₂ O ₃ +TCN A basic choice for machining hardened steel and alloy steel	
		S320	Alternative to PCBN fine microstructure Al ₂ O ₃ +TCN Fine finishing for hardened steel and cast iron	
		S340	Excellent wear and thermal shock resistance Al ₂ O ₃ +TCN Fine finishing for hardened steel and cast iron in high speed	
		S610	Wfear resistance improved TiN coated Finishing for hardened steel and cast iron	
		S620	Excellent wear resistance TiN coated Finishing for hardened steel and cast iron	
		S622	Excellent wear resistance & thermal shock resistance Finishing for hardened steel and cast iron	
		S100	High thermal shock resistance Usable with coolant TiC+Al ₂ O ₃ Machining ductile cast iron Finishing for ductile cast iron and hard materials	Finishing for ductile cast iron
	ZrO₂	S420	Toughened by zirconia High chemical stability Al ₂ O ₃ +ZrO ₂ Finishing, semi-finishing of cast iron and steel	Tougher  Harder
		S410	Harder alternative to S420 Al ₂ O ₃ +ZrO ₂ Finishing, semi-finishing of cast iron and steel	
	Si₃N₄	S025	Good toughness and thermal shock resistance Well balanced wear resistance and toughness Si ₃ N ₄ . First choice for roughing with interrupted cuts Roll turning and milling of cast iron and steel	Roughing in lower speed
		S200	Tougher alternative to S210 Thermal shock resistance and good toughness Si ₃ N ₄ Roughing and high speed cutting with interruption	Tougher  Harder
		S210	Excellent wear resistance in high speed cutting Si ₃ N ₄ First choice for roughing of cast iron High speed machining with interrupted cuts	
		S220	Harder alternative to S210 Improved wear resistance at high cutting speed Si ₃ N ₄ High speed roughing for cast iron	
		S230	Excellent wear resistance in interrupted cutting Si ₃ N ₄ Roughing for hard material with interruption and high speed	
		S250	Advanced grade with SiAlON contained superior edge strength SiAlON. Great performance against notch wear High speed roughing of high temperature alloy and inconel	Harder  Tougher
		S260	Excellent thermal shock resistance and thermal conductivity SiAlON Tough machining in Heat Resistance Super Alloy (HRSA)	
		S1000	Excellent thermal shock resistance and thermal conductivity SiAlON Ni-based Alloy, Cobalt-based Alloy in medium or low speed cutting Roughing and Medium cutting with heavy interruption	
		N400	Excellent wear resistance & thermal shock resistance Cast Iron in roughing and semi-finishing cutting	

Grade	Composition	Color	Density (g/cm ³)	Hardness (HV)	Toughness (MPa ^{1/2})	Thermal Conductivity (cal/cm. sec. °C)
S400	Al ₂ O ₃ +SiC	Green	3.8	2,100	7.0	-
S800	Al ₂ O ₃ +SiC	Green	3.7	2,100	7.0	-
S300	Al ₂ O ₃ +TiC	Black	4.20	2,100	4.00	0.08
S310	Al ₂ O ₃ +TCN	Black	4.40	2,150	4.50	0.08
S320	Al ₂ O ₃ +TCN	Black	4.30	2,200	4.50	0.08
S340	Al ₂ O ₃ +TCN	Black	4.30	2,250	4.70	0.08
S610	S300+TiN PVD	Gold	4.20	2,150	4.00	-
S620	S310+TiN PVD	Gold	4.40	2,200	4.50	-
S622	S310+AlTiN PVD	Black	4.40	2,250	4.50	
S100	TC+Al ₂ O ₃	Black	4.60	2,200	4.50	0.07
S420	Al ₂ O ₃ +ZrO ₂	White	4.00	1,800	4.50	0.07
S410	Al ₂ O ₃ +ZrO ₂	Pink	4.10	1,850	4.50	0.07
S025	Si ₃ N ₄	Black	3.30	1,600	5.00	0.06
S200	Si ₃ N ₄	Gray	3.20	1,600	6.00	0.05
S210	Si ₃ N ₄	Gray	3.20	1,650	6.00	0.05
S220	Si ₃ N ₄	Gray	3.20	1,700	6.00	0.05
S230	Si ₃ N ₄	Black	3.20	1,700	6.50	0.07
S250	Si ₃ N ₄	Black	3.20	1,900	6.00	0.04
S1000	Si ₃ N ₄ +Al ₂ O ₃	Black	3.3	1,800	7.00	
N400	S210+PVD (AlTiN/TiN)	Gold	3.2	1,650	6.00	

Composition	S300 S320 S610 S340 S620 S622	S100	S420 S410	S025 S210 S220 S230 N400	S250 S1000	S400	S800
Gray Cast Iron	EXCELENT	GOOD	EXCELENT	EXCELENT	GOOD		
Chilled Cast Iron	EXCELENT		EXCELENT	EXCELENT	EXCELENT		
Ductile Cast Iron	GOOD	EXCELENT		GOOD	GOOD		GOOD
Mild Steel			GOOD				
Carbon Steel			GOOD				
Alloy Steel	EXCELENT		GOOD		EXCELENT	GOOD	GOOD
Forged Steel	EXCELENT						
Heat Treated Steel	EXCELENT						
High Speed Steel	EXCELENT					EXCELENT	
High Manganese Steel	GOOD			GOOD	GOOD	EXCELENT	GOOD
Stainless Steel							
Heat Resistant Steel	GOOD			GOOD	GOOD	GOOD	GOOD
Super Alloy Steel	GOOD			GOOD	EXCELENT	GOOD	EXCELENT
Inconel					EXCELENT	GOOD	EXCELENT

CHOICE OF CERAMIC GRADE FOR WORKPIECE

	Grade	Workpiece	Workpiece	Machining Type	Speed (V) (m/min)	Feed (f) (mm/rev)	Depth (DOC) (mm)
TURNING	S300 S310 S320 S340 S620 S610	Gray Cast Iron	Gray Cast Iron (FC) Malleable (FCMB)	Rough Finish	150~800 200 ~ 1200	0.2 ~ 0.5 0.3 ~ 0.5	3 ~ 6 0.1 ~ 0.5
			Chilled Cast Iron	Rough Finish	30 ~ 100 50 ~ 200	0.1 ~ 0.2 0.05 ~ 0.15	0.5 ~ 1.5 0.1 ~ 0.5
		Steel	Carbon Steel Alloy Steel Bearing Steel	Rough Finish	150~400 200 ~ 800	0.2 ~ 0.5 0.05 ~ 0.2	2 ~ 5 0.1 ~ 0.5
			Hard Steel (HRC 45≥)	Rough Finish	20 ~ 100 40 ~ 200	0.1 ~ 0.2 0.05 ~ 0.5	0.5 ~ 1.5 0.1 ~ 0.5
	S100	Ductile Cast Iron Nodular Cast Iron		Rough Finish	100~400 200 ~ 800	0.1 ~ 0.2 0.05 ~ 0.25	1 ~ 2 0.1 ~ 0.5
	S420 S410	Gray Cast Iron (FC) Steel (HRC 45≤)		Rough Finish	200 ~ 700 300 ~ 1200	0.2 ~ 0.4 0.05 ~ 0.3	2 ~ 5 0.1 ~ 0.5
	S025 S200 S210 S220 S230 N400	Gray Cast Iron	Gray Cast Iron (FC) Malleable (FCMB)	Rough Finish	150 ~ 1100 250 ~ 1200	0.3 ~ 0.8 0.15 ~ 0.4	<5 <1
			Chilled Cast Iron R	Rough Finish	20 ~ 100 60 ~ 200	1.0 ~ 2.0 0.5 ~ 1.0	<5 <1
	S250 S1000	Ni-Based Alloy Non-Ferrous Metal Inconel		Rough Finish	150~250 150~450	0.2 ~ 0.4 0.1 ~ 0.2	<5 <1
	S400 S800	High temperature alloys Inconel Stellite		Rough Finish	180~360 180~450	0.1 ~ 0.25 0.1 ~ 0.30	1 ~ 3 0.5 ~ 2.0
MILLING	S025 S200 S210 S220 S230 N400	Gray Cast Iron (FC)		Rough Finish	100 ~ 1200 150 ~ 1500	0.3 ~ 0.5 0.3 ~ 0.7	<5 <3
		Ductile Cast Iron Alloy Steel		Rough Finish	90 ~ 500 100~700	0.1 ~ 0.3 0.1 ~ 0.4	<5 <3
	S250 S1000	High temperature alloys Inconel Stellite		Finish	700 ~ 1000	0.05 ~ 0.15 / tooth	0.5 ~ 2.5
	S400 S800	High temperature alloys Inconel		Rough	150~400	0.05 ~ 0.1 / tooth	1 ~ 3

ISO
TURNING
S
N
G
N
S
N
G
N
S
P
K
N
1
2
3
4
MILLING
1 Shape

2 Clearance Angle

3 Tolerance


*See tables below

Symbol	d(mm)	m(mm)	s(mm)
A	±0.025	±0.005	±0.025
C	±0.025	±0.013	±0.025
E	±0.025	±0.025	±0.025
F	±0.013	±0.005	±0.025
G	±0.025	±0.025	±0.130
H	±0.013	±0.013	±0.025
J	*	±0.005	±0.025
K	*	±0.013	±0.025
L	*	±0.025	±0.025
M	*	*	±0.127
U	*	*	±0.127
N	*	*	±0.025

IC (mm)	D		C, E, H, O, S, T, R, W			
	d(mm)	m(mm)	d(mm)		m(mm)	
	M, N	M, N	J, K, L, M, N	U	M, N	U
5.56	±0.05	±0.11	±0.05	±0.08	±0.08	±0.13
6.35	±0.05	±0.11	±0.05	±0.08	±0.08	±0.13
7.94	±0.05	±0.11	±0.05	±0.08	±0.08	±0.13
9.52	±0.05	±0.11	±0.05	±0.08	±0.08	±0.13
12.70	±0.08	±0.15	±0.08	±0.13	±0.13	±0.20
15.87	±0.10	±0.18	±0.10	±0.18	±0.15	±0.27
19.05	±0.10	±0.18	±0.10	±0.18	±0.15	±0.27
25.40	-	-	±0.13	±0.25	±0.18	±0.38

4 Type

A	B (70°-90°)	C (70°-90°)	F	G	H (70°-90°)	J (70°-90°)	M
N	Q (40°-60°)	R	T (40°-60°)	U (40°-60°)	W (40°-60°)	X (Special design)	

12 04 08 T040

4 3 2

4 3 E D T R

5 6 7 8 9 10 11 12

5 Cutting Edge Length									
Diameter of inscribed circle	ASA		ISO						
	over 6.35 (IC)	over 5.56 (IC)							
3.969	-	5	03	02	-	04	03	03	06
4.762	-	6	04	03	-	05	04	04	08
5.556	-	7	05	03	09	06	05	05	09
6.350	2	(8)	06	04	11	07	06	06	11
7.938	-	0	07	05	13	09	08	07	13
9.525	3	-	09	06	16	11	09	09	16
12.700	4	-	12	08	22	15	12	12	22
15.875	5	-	15	10	27	19	16	15	27
19.050	6	-	19	13	33	23	19	19	33
22.225	7	-	22	-	38	27	22	22	38
25.400	8	-	25	-	44	31	25	25	44
31.750	0	-	31	-	54	38	32	31	55

6 Thickness			
			
Thickness(mm)	ISO	ASA	
		Over 6.35(IC)	Over 5.56(IC)
1.59	01	-	2
2.38	02	-	3
3.18	03	2	4
3.97	T3	-	5
4.76	04	3	6
5.56	05	-	-
6.35	06	4	-
7.94	07	5	-
9.52	09	6	-
12.70	12	8	-

7 Nose-Radius		
(mm)	ISO	ASA
Sharp	00	O
0.2	02	Y
0.4	04	1
0.8	08	2
1.2	12	3
1.6	16	4
2.0	20	5
2.4	24	6
2.8	28	7
3.2	32	8

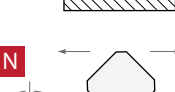
8 Shape and Corner

Detailed edge preparations refer to the next page.

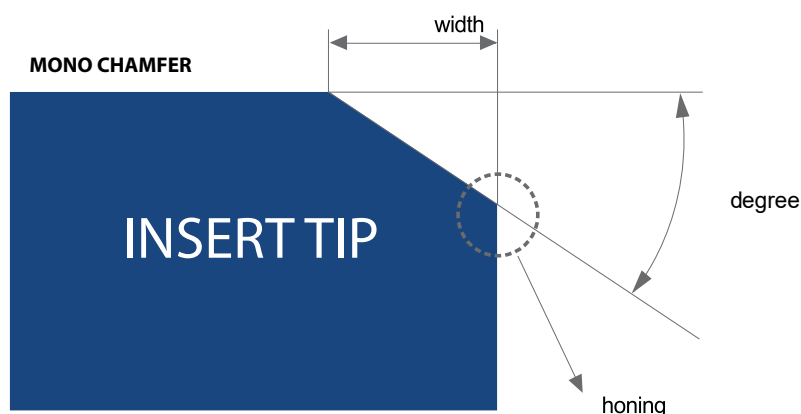
9 Land Angle	
	
A	45°
D	60°
E	75°
F	85°
P	90°

10 Relief Angle for Land	
	
A	3°
B	5°
C	7°
D	15°
E	20°
F	25°
G	30°
N	0°
P	11°

11 Edge	
F	Sharp
E	Honed
T	Chamfered
S	Chamfered + Honed

12 Cutting Direction	
R	
L	
N	

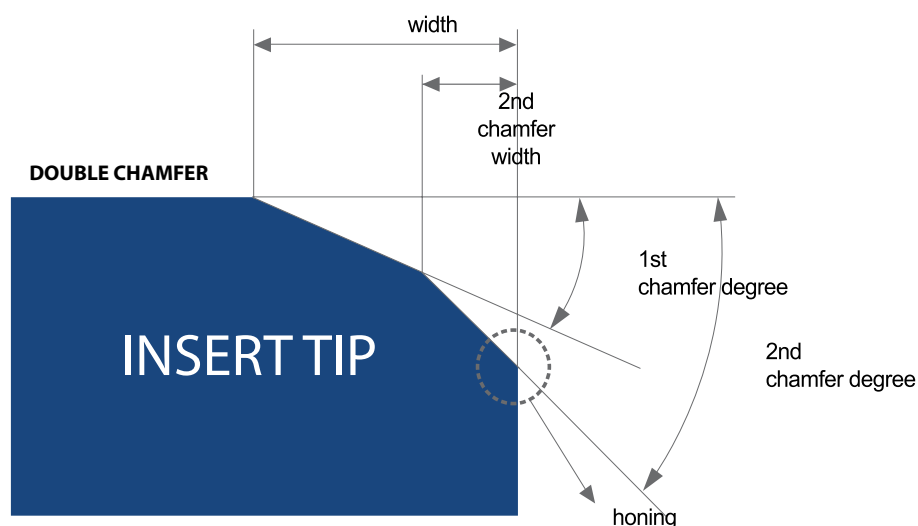
CHAMFER SPECIFICATION



ISO

SNGN 120408 T04 0

Chamfer Degree (°)	Chamfer Width (mm)		Honing (µm)
T : 20 F : 25 G : 30	01 : 0.05 02 : 0.10 03 : 0.15 04 : 0.20	10 : 0.50 20 : 1.00 40 : 2.00	0 : No Honing 1 : 10 2 : 20 3 : 30



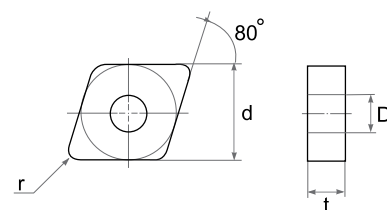
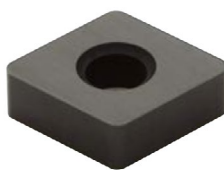
ISO

SNGN 190716 X54 2

1st Chamfer Degree (°)	1st Chamfer Width (mm)		2nd Chamfer Width (mm) × Degree(°)	Honing (µm)
T : 10 X : 15	3 : 1.00 4 : 1.20 5 : 1.50 6 : 2.00	A : 0.75 B : 1.25 D : 2.30	3 : 0.20×25 4 : 0.10×30 5 : 0.20×30 A : 0.15×30 B : 0.45×25	0 : No Honing 1 : 10 2 : 20 3 : 30 5 : 50

TURNING INSERT

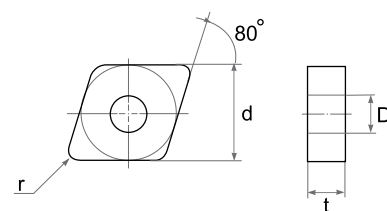
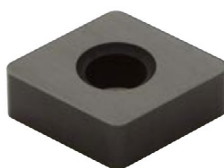
CNGA



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
CNGA120404	12,7	4,76	0,4	5,16	•	•	•	•		•	•			•					•	•			
CNGA120408	12,7	4,76	0,8	5,16	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
CNGA120412	12,7	4,76	1,2	5,16	•	•				•	•	•		•	•	•	•	•	•	•	•	•	•
CNGA120416	12,7	4,76	1,6	5,16	•	•					•			•	•	•			•	•	•	•	•
CNGA120704	12,7	7,94	0,4	5,16	•																		
CNGA120708	12,7	7,94	0,8	5,16	•	•						•		•	•								
CNGA120712	12,7	7,94	1,2	5,16	•	•	•					•		•	•				•	•		•	•
CNGA120716	12,7	7,94	1,6	5,16	•							•		•	•				•	•			
CNGA160608	15,87	6,35	0,8	6,35										•									
CNGA160612	15,87	6,35	1,2	6,35										•	•	•					•	•	•
CNGA160616	15,87	6,35	1,6	6,35	•											•					•		
CNGA160708	15,87	7,94	0,8	6,35	•	•																	
CNGA160712	15,87	7,94	1,2	6,35	•	•									•								
CNGA160716	15,87	7,94	1,6	6,35											•								
CNGA190608	19,05	6,35	0,8	7,93	•									•	•				•	•			
CNGA190612	19,05	6,35	1,2	7,93										•								•	•
CNGA190616	19,05	6,35	1,6	7,93	•	•																	
CNGA190712	19,05	7,94	1,2	7,93	•																		
CNGA190716	19,05	7,94	1,6	7,93	•																		

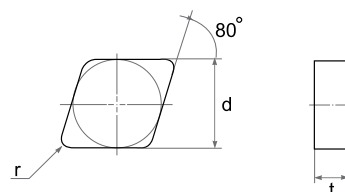
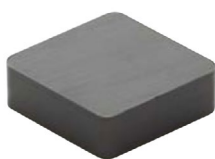
Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

CNMA



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
CNMA120408	12,7	4,76	0,8	5,16											•	•					•		
CNMA120412	12,7	4,76	1,2	5,16											•	•	•	•	•	•	•		
CNMA120416	12,7	4,76	1,6	5,16											•	•	•	•	•	•	•		
CNMA160612	15,87	6,35	1,2	6,35												•		•			•		
CNMA160616	15,87	6,35	1,6	6,35												•		•			•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

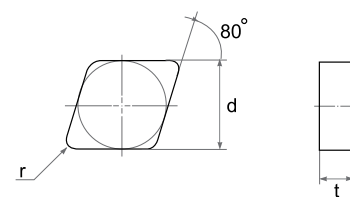
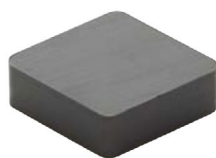
TURNING INSERT
CNGN


ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
CNGN090304	9,52	3,18	0,4	•															
CNGN090308	9,52	3,18	0,8		•												•	•	•
CNGN090312	9,52	3,18	1,2														•	•	•
CNGN120304	12,7	3,18	0,4	•															
CNGN120308	12,7	3,18	0,8	•															
CNGN120312	12,7	3,18	1,2	•															
CNGN120404	12,7	4,76	0,4	•	•					•	•								
CNGN120408	12,7	4,76	0,8	•	•	•	•	•	•	•	•	•	•		•	•		•	•
CNGN120412	12,7	4,76	1,2	•	•	•	•			•	•		•		•	•	•	•	•
CNGN120416	12,7	4,76	1,6	•	•	•				•			•		•	•	•	•	•
CNGN120704	12,7	7,94	0,4																•
CNGN120708	12,7	7,94	0,8										•	•				•	•
CNGN120712	12,7	7,94	1,2	•	•					•	•		•		•	•		•	•
CNGN120716	12,7	7,94	1,6	•	•					•	•		•		•	•		•	•
CNGN160608	15,87	6,35	0,8	•															
CNGN160612	15,87	6,35	1,2	•											•				•
CNGN160616	15,87	6,35	1,6	•															•
CNGN160708	15,87	7,94	0,8	•							•								
CNGN160712	15,87	7,94	1,2	•	•	•							•		•	•			•
CNGN160716	15,87	7,94	1,6	•	•	•				•		•	•	•	•				•
CNGN160720	15,87	7,94	2	•									•	•					
CNGN190612	19,05	6,35	1,2	•	•														
CNGN190616	19,05	6,35	1,6	•	•														
CNGN190712	19,05	7,94	1,2	•	•														
CNGN190716	19,05	7,94	1,6	•	•														
CNGN190720	19,05	7,94	2	•															
CNGN250724	25,4	7,94	2,4	•															
CNGN250924	25,4	9,52	2,4	•	•	•							•						

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

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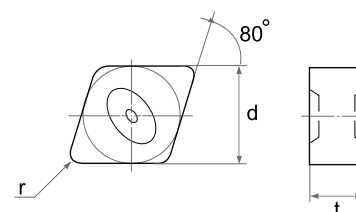
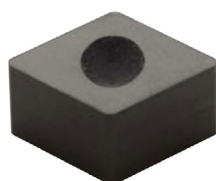
CNMN



ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
CNMN120412	12,7	4,76	1,2												•			•	•	•		
CNMN120416	12,7	4,76	1,6												•			•	•	•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

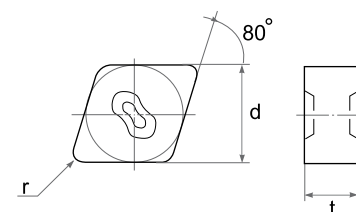
CNGX



ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
CNGX120412	12,7	4,76	1,2											•	•					•		
CNGX120416	12,7	4,76	1,6												•					•		
CNGX120708	12,7	7,94	0,8	•	•									•								
CNGX120712	12,7	7,94	1,2	•	•									•	•	•				•		
CNGX120716	12,7	7,94	1,6	•	•									•	•	•	•			•		
CNGX160708	15,87	7,94	0,8											•								
CNGX160712	15,87	7,94	1,2											•	•	•				•		
CNGX160716	15,87	7,94	1,6											•	•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

CNVX

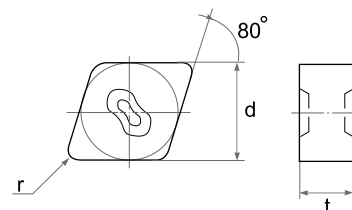


ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
CNVX120412	12,7	4,76	1,2												•					•		
CNVX120416	12,7	4,76	1,6												•					•		
CNVX120708	12,7	7,94	0,8	•							•			•								
CNVX120712	12,7	7,94	1,2	•	•						•			•	•	•	•	•	•	•		
CNVX120716	12,7	7,94	1,6		•		•				•			•	•	•	•	•	•	•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

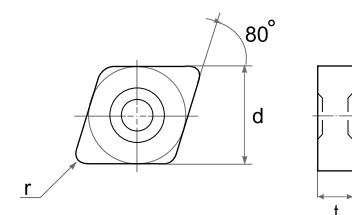
CNMX


Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
CNMX120712	12,7	7,94	1,2												•	•	•			•		
CNMX120716	12,7	7,94	1,6												•	•	•	•	•	•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

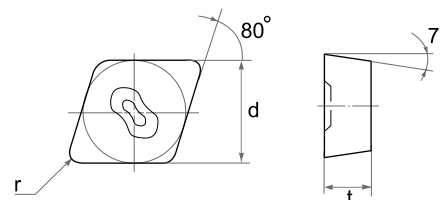
CNMX RD


Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
CNMX120716RD	12,7	7,94	1,6											•	•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

CCGX

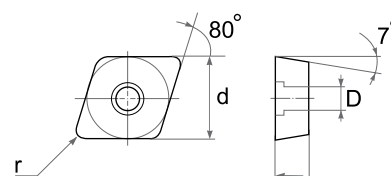

Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
CCGX120608	12,7	6,35	0,8												•					•		
CCGX120612	12,7	6,35	1,2												•	•	•	•	•	•		
CCGX120616	12,7	6,35	1,6												•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

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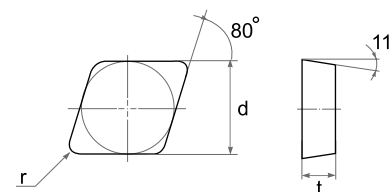
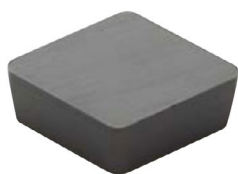
CCGW



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
CCGW09T304	9,52	3,97	0,4	4,4							•				•	•					•		
CCGW09T308	9,52	3,97	0,8	4,4							•				•	•		•			•		
CCGW09T312	9,52	3,97	1,2	4,4											•	•		•			•		
CCGW120408	12,7	4,76	0,8	5,5												•					•		
CCGW120412	12,7	4,76	1,2	5,5												•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

CPGN

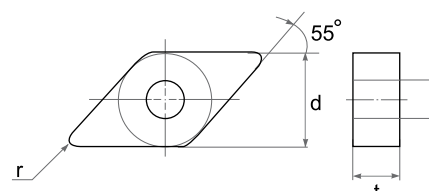
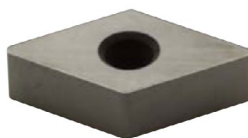


ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
CPGN090304	9,52	3,18	0,4																		•	•
CPGN090308	9,52	3,18	0,8																		•	•
CPGN120408	12,7	4,76	0,8	•																	•	•
CPGN120412	12,7	4,76	1,2	•																		
CPGN120416	12,7	4,76	1,6	•																		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

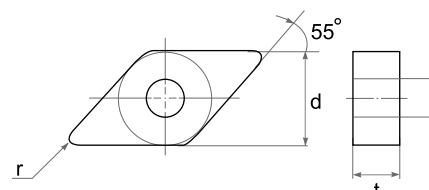
DNGA



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
DNGA150404	12,7	4,76	0,4	5,16	•	•		•		•													
DNGA150408	12,7	4,76	0,8	5,16	•	•	•	•	•	•				•	•	•					•	•	•
DNGA150412	12,7	4,76	1,2	5,16	•	•	•	•							•	•	•		•	•	•	•	•
DNGA150416	12,7	4,76	1,6	5,16	•									•								•	•
DNGA150604	12,7	6,35	0,4	5,16	•	•	•	•			•		•										
DNGA150608	12,7	6,35	0,8	5,16	•	•	•	•			•			•		•					•		
DNGA150612	12,7	6,35	1,2	5,16	•	•	•	•						•		•	•		•	•	•		
DNGA150616	12,7	6,35	1,6	5,16	•	•	•																
DNGA150704	12,7	7,94	0,4	5,16	•	•																	
DNGA150708	12,7	7,94	0,8	5,16	•	•							•	•	•	•					•		
DNGA150712	12,7	7,94	1,2	5,16	•	•							•		•	•	•		•	•	•		
DNGA150716	12,7	7,94	1,6	5,16	•																		
DNGA190608	15,87	6,35	0,8	6,35	•	•																	
DNGA190612	15,87	6,35	1,2	6,35	•	•							•	•		•			•	•	•		
DNGA190616	15,87	6,35	1,6	6,35	•																		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

DNMA

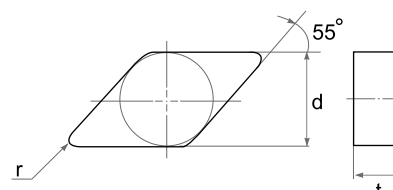


ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
DNMA150612	12,7	6,35	1,2	5,16											•	•					•		
DNMA150616	12,7	6,35	1,6	5,16												•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

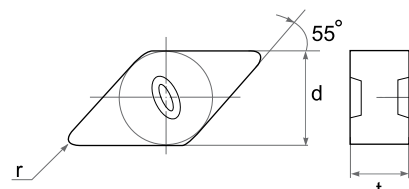
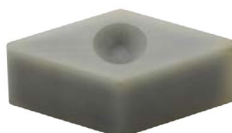
DNGN



ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
DNGN150404	12,7	4,76	0,4	•					•						•				•
DNGN150408	12,7	4,76	0,8	•					•						•				•
DNGN150412	12,7	4,76	1,2	•						•			•		•				•
DNGN150416	12,7	4,76	1,6																•
DNGN150604	12,7	6,35	0,4	•															
DNGN150608	12,7	6,35	0,8	•			•								•		•	•	•
DNGN150612	12,7	6,35	1,2	•	•		•								•		•	•	•
DNGN150616	12,7	6,35	1,6	•															
DNGN150704	12,7	7,94	0,4	•	•														
DNGN150708	12,7	7,94	0,8	•	•	•	•				•	•	•	•			•	•	
DNGN150712	12,7	7,94	1,2	•	•	•	•				•	•	•	•	•		•	•	•
DNGN150716	12,7	7,94	1,6	•	•						•	•	•	•			•	•	•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

DNGX

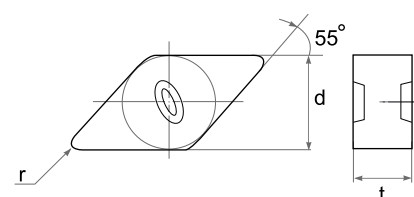
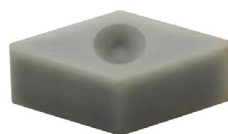


ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
DNGX120708	10	7,94	0,8								•				•				•
DNGX120712	10	7,94	1,2								•			•	•	•	•	•	•
DNGX120716	10	7,94	1,6								•			•	•	•			•
DNGX150708	12,7	7,94	0,8																
DNGX150712	12,7	7,94	1,2								•			•	•				•
DNGX150716	12,7	7,94	1,6											•	•	•	•	•	•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

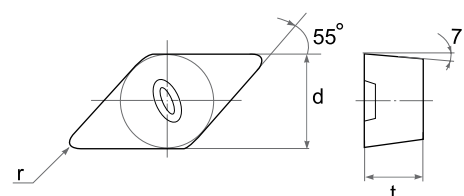
DNMX


Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
DNMX120708	10	7,94	0,8													•						
DNMX120712	10	7,94	1,2												•	•				•		
DNMX120716	10	7,94	1,6												•	•	•			•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

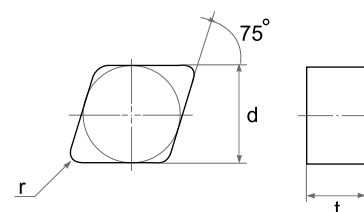
DCGX


Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
DCGX150612	12,7	6,35	1,2												•		•			•		
DCGX150616	12,7	6,35	1,6												•		•			•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

ENGN

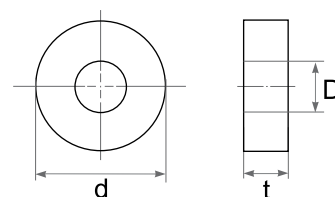

Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ENGN130404	12,7	4,76	0,4		•								•		•					•		
ENGN130408	12,7	4,76	0,8		•								•		•					•		
ENGN130412	12,7	4,76	1,2		•								•		•					•		
ENGN130704	12,7	7,94	0,4	•	•																	
ENGN130708	12,7	7,94	0,8	•	•	•	•				•	•	•	•	•					•		
ENGN130712	12,7	7,94	1,2	•	•	•	•						•	•	•			•	•	•	•	•
ENGN130716	12,7	7,94	1,6	•	•					•			•	•	•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

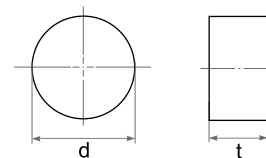
RNGA


Dimensions (mm)

ISO TYPE	d	t	D	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
RNGA120400	12,7	4,76	5,16	•	•																	
RNGA120700	12,7	7,94	5,16	•	•																•	•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

RNGN

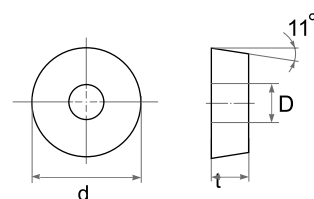

Dimensions (mm)

ISO TYPE	d	t	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
RNGN060300	6,35	3,18		•																	
RNGN060400	6,35	4,76	•		•																
RNGN090300	9,52	3,18	•		•							•	•								
RNGN090400	9,52	4,76	•	•	•				•			•					•	•		•	•
RNGN120300	12,7	3,18										•					•	•			
RNGN120400	12,7	4,76	•	•	•			•	•	•		•	•	•	•	•	•	•	•	•	•
RNGN120600	12,7	6,35	•																		
RNGN120700	12,7	7,94	•	•	•	•	•	•		•	•	•	•	•			•	•	•	•	•
RNGN150700	15,87	7,94	•									•	•								
RNGN190600	19,05	6,35	•	•								•					•	•			
RNGN190700	19,05	7,94	•	•	•					•			•				•	•		•	•
RNGN250700	25,4	7,94	•		•	•				•	•	•	•								
RNGN250900	25,4	9,52	•																		
RNGN320900	31,75	9,52	•																		
RNGN0807MO	8	7,94	•																		
RNGN1007MO	10	7,94	•																		
RNGN1207MO	12	7,94	•																		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

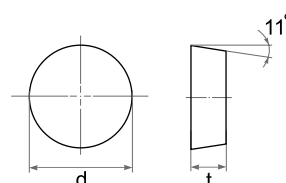
RPGA


Dimensions (mm)

ISO TYPE	d	t	D	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
RPGA120400	12,7	4,76	5,16	•																		
RPGA120700	12,7	7,94	5,16	•																		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

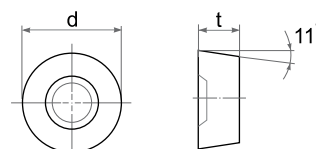
RPGN


Dimensions (mm)

ISO TYPE	d	t	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
RPGN090300	9,52	3,18	•	•													•	•			
RPGN090400	9,52	4,76	•	•	•												•	•			
RPGN120300	12,7	3,18	•																		
RPGN120400	12,7	4,76	•	•										•			•	•	•	•	•
RPGN120700	12,7	7,94	•	•													•	•			
RPGN150700	15,87	7,94	•																		
RPGN190700	19,05	7,94		•																	

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

RPGX DP

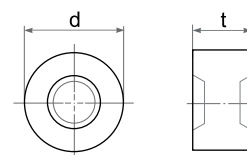

Dimensions (mm)

ISO TYPE	d	t	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
RPGX1204DP	12,7	4,76															•	•			
RPGX1207DP	12,7	7,94															•	•			

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

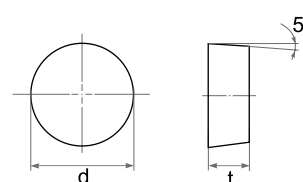
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RNGX DP



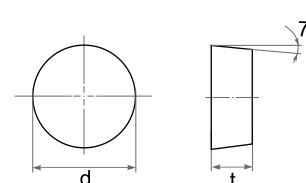
ISO TYPE	Dimensions (mm)																	
	d	t	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
RNGX1207DP	12,7	7,94														•	•	•

RBGN



ISO TYPE	Dimensions (mm)																	
	d	t	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
RBGN060300	6,35	3,18		•														
RBGN060400	6,35	4,76		•														
RBGN090300	9,52	3,18	•															
RBGN090400	9,52	4,76	•															
RBGN120400	12,7	4,76	•	•	•									•				•
RBGN120600	12,7	6,35	•															
RBGN120700	12,7	7,94	•	•									•	•		•	•	•
RBGN0604MO	6	4,76		•														
RBGN0804MO	8	4,76		•														
RBGN1007MO	10	7,94	•												•			
RBGN1207MO	12	7,94	•															
RBGN1607MO	16	7,94	•															

RCGN

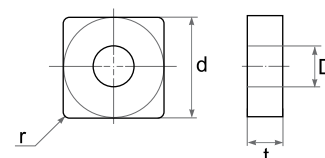
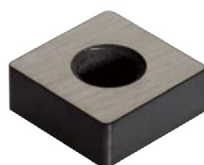


ISO TYPE	Dimensions (mm)																	
	d	t	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
RCGN060400	6,35	4,76	•	•													•	•
RCGN060600	6,35	6,35	•	•	•							•					•	•
RCGN060700	6,35	7,94	•	•	•					•							•	•
RCGN070400	7,94	4,76		•														
RCGN090700	9,52	7,94	•	•	•							•					•	•
RCGN120700	12,7	7,94	•	•	•					•		•					•	•
RCGN151000	15,87	10	•	•	•					•		•					•	•
RCGN191000	19,05	10	•	•	•					•		•					•	•
RCGN251200	25,4	12,7	•	•	•					•		•					•	•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

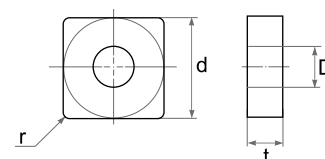
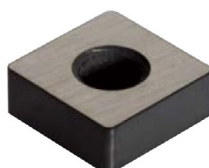
SNGA



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
SNGA090304	9,52	3,18	0,4	3,81	•	•																	
SNGA090308	9,52	3,18	0,8	3,81	•	•																	
SNGA090312	9,52	3,18	1,2	3,81	•	•																	
SNGA090404	9,52	4,76	0,4	3,81	•																		
SNGA090408	9,52	4,76	0,8	3,81	•																		
SNGA090412	9,52	4,76	1,2	3,81	•																		
SNGA090416	9,52	4,76	1,6	3,81												•					•		
SNGA120404	12,7	4,76	0,4	5,16	•		•				•			•									
SNGA120408	12,7	4,76	0,8	5,16	•	•	•			•	•			•	•		•		•	•		•	•
SNGA120412	12,7	4,76	1,2	5,16	•	•	•				•	•		•	•	•		•	•	•	•		
SNGA120416	12,7	4,76	1,6	5,16	•						•			•				•	•	•			
SNGA120708	12,7	7,94	0,8	5,16	•																		
SNGA120712	12,7	7,94	1,2	5,16	•									•	•								
SNGA120716	12,7	7,94	1,6	5,16	•							•		•	•				•	•			
SNGA150608	15,87	6,35	0,8	6,35		•																	
SNGA150612	15,87	6,35	1,2	6,35	•	•																	
SNGA150616	15,87	6,35	1,6	6,35		•																	
SNGA190612	19,05	6,35	1,2	7,94	•									•	•								
SNGA190616	19,05	6,35	1,6	7,94	•																		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

SNMA

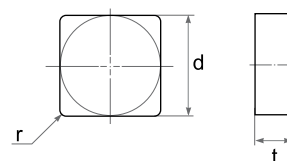


ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
SNMA120408	12,7	4,76	0,8	5,16												•		•			•		
SNMA120412	12,7	4,76	1,2	5,16											•	•		•	•	•	•		
SNMA120416	12,7	4,76	1,6	5,16											•	•					•		
SNMA150616	15,87	6,35	1,6	6,35											•	•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

SNGN

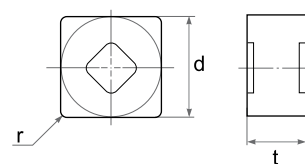

Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNGN090304	9,52	3,18	0,4	•	•																	
SNGN090308	9,52	3,18	0,8	•	•	•				•			•		•					•		
SNGN090312	9,52	3,18	1,2	•	•																	
SNGN090404	9,52	4,76	0,4	•																		
SNGN090408	9,52	4,76	0,8	•											•					•		
SNGN090412	9,52	4,76	1,2							•					•					•		
SNGN120404	12,7	4,76	0,4	•									•									
SNGN120408	12,7	4,76	0,8										•	•	•			•	•	•	•	•
SNGN120412	12,7	4,76	1,2	•																		
SNGN120416	12,7	4,76	1,6	•	•			•		•		•	•	•	•	•		•	•	•	•	•
SNGN120420	12,7	4,76	2	•									•	•	•	•				•		
SNGN120604	12,7	6,35	0,4	•																		
SNGN120608	12,7	6,35	0,8	•																		
SNGN120612	12,7	6,35	1,2	•																		
SNGN120616	12,7	6,35	1,6	•																		
SNGN120704	12,7	7,94	0,4		•										•					•		
SNGN120708	12,7	7,94	0,8	•	•	•	•			•		•	•	•				•	•	•	•	•
SNGN120712	12,7	7,94	1,2	•	•	•	•															
SNGN120716	12,7	7,94	1,6	•	•	•	•															
SNGN120720	12,7	7,94	2	•	•	•				•	•		•	•	•					•		
SNGN150404	15,87	4,76	0,4		•																	
SNGN150408	15,87	4,76	0,8		•																	
SNGN150412	15,87	4,76	1,2	•						•				•	•					•		
SNGN150416	15,87	4,76	1,6	•										•								
SNGN150708	15,87	7,94	0,8	•																		
SNGN150712	15,87	7,94	1,2	•	•					•	•		•	•	•					•		
SNGN150716	15,87	7,94	1,6	•																•		
SNGN190608	19,05	6,35	0,8	•																		
SNGN190612	19,05	6,35	1,2	•									•		•			•	•	•		
SNGN190616	19,05	6,35	1,6	•									•					•	•		•	•
SNGN190712	19,05	7,94	1,2	•																		
SNGN190716	19,05	7,94	1,6	•	•	•	•			•	•		•		•			•	•	•		
SNGN190720	19,05	7,94	2	•						•			•									
SNGN250720	25,4	7,94	2	•									•									
SNGN250724	25,4	7,94	2,4	•	•								•	•								
SNGN250924	25,4	9,52	2,4	•		•	•			•			•	•	•			•	•	•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

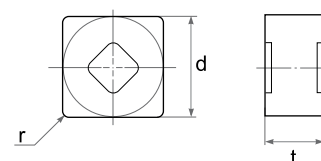
SNGX



ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
SNGX120408	12,7	4,76	0,8												•				•
SNGX120412	12,7	4,76	1,2												•				•
SNGX120416	12,7	4,76	1,6												•				•
SNGX120708	12,7	7,94	0,8	•										•		•			
SNGX120712	12,7	7,94	1,2	•	•									•	•	•		•	•
SNGX120716	12,7	7,94	1,6											•	•	•	•	•	•
SNGX150708	15,87	7,94	0,8	•	•									•		•			
SNGX150712	15,87	7,94	1,2	•	•									•		•		•	
SNGX150716	15,87	7,94	1,6											•	•	•			•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

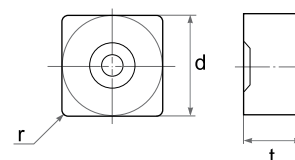
SNMX



ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
SNMX120712	12,7	7,94	1,2											•	•	•	•	•	•
SNMX120716	12,7	7,94	1,6												•				•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

SNMX RD

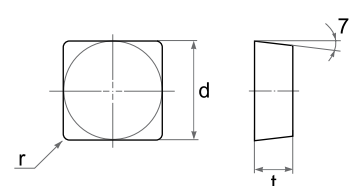


ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
SNMX120716RD	12,7	7,94	1,6											•			•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

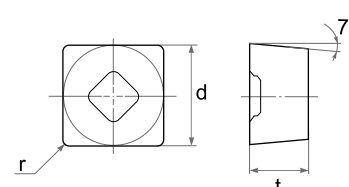
SCGN



Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r																			
SCGN090412	9,52	4,76	1,2	•											•					•		
SCGN090416	9,52	4,76	1,6	•																		
SCGN120404	12,7	4,76	0,4		•																	
SCGN120408	12,7	4,76	0,8	•	•																	
SCGN120412	12,7	4,76	1,2									•		•	•		•	•	•	•		
SCGN120416	12,7	4,76	1,6	•	•																	

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

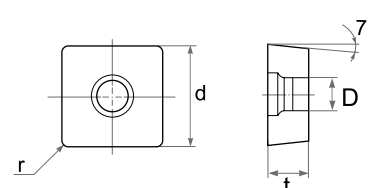
SCGX



Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r																			
SCGX120408	12,7	4,76	0,8														•					
SCGX120616	12,7	6,35	1,6														•					
SCGX120716	12,7	7,94	1,6														•					

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

SCGW

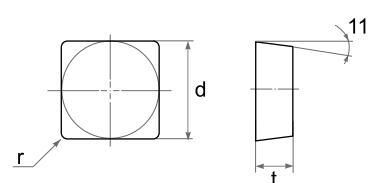


Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r	D																			
SCGW09T304	9,52	3,97	0,4	4,4												•					•		
SCGW09T308	9,52	3,97	0,8	4,4												•					•		
SCGW120408	12,7	4,76	0,8	5,5												•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

SPGN

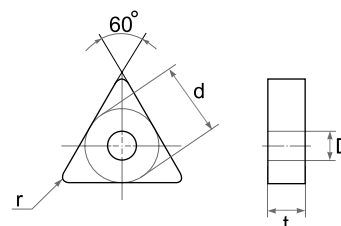


ISO TYPE	Dimensions (mm)																		
	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000
SPGN090304	9,52	3,18	0,4	•	•								•						
SPGN090308	9,52	3,18	0,8	•	•					•				•	•	•			•
SPGN090312	9,52	3,18	1,2	•															
SPGN120304	12,7	3,18	0,4	•	•														
SPGN120308	12,7	3,18	0,8	•	•				•		•		•		•				•
SPGN120312	12,7	3,18	1,2	•	•					•			•		•		•		•
SPGN120404	12,7	4,76	0,4	•															
SPGN120408	12,7	4,76	0,8	•	•	•							•		•				•
SPGN120412	12,7	4,76	1,2	•	•					•									
SPGN120416	12,7	4,76	1,6	•	•					•				•	•	•			•
SPGN150408	15,87	4,76	0,8	•															
SPGN150412	15,87	4,76	1,2		•									•					
SPGN190412	19,05	4,76	1,2	•															
SPGN190416	19,05	4,76	1,6	•	•										•	•			•

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

TNGA

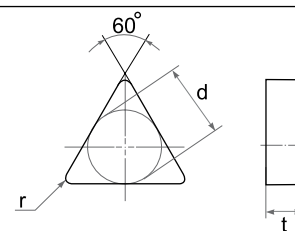


Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r	D																			
TNGA110304	6,35	3,18	0,4	2,26	•	•																	
TNGA110308	6,35	3,18	0,8	2,26	•	•																	
TNGA160304	9,52	3,18	0,4	3,81	•	•																	
TNGA160308	9,52	3,18	0,8	3,81	•	•						•		•									
TNGA160312	9,52	3,18	1,2	3,81	•	•																	
TNGA160404	9,52	4,76	0,4	3,81	•	•	•	•		•	•			•	•	•	•		•	•	•		
TNGA160408	9,52	4,76	0,8	3,81	•	•	•	•		•	•		•	•	•	•	•		•	•	•	•	•
TNGA160412	9,52	4,76	1,2	3,81	•	•	•	•			•		•	•	•	•	•		•	•	•		
TNGA160416	9,52	4,76	1,6	3,81	•	•	•					•		•	•	•	•		•	•	•		
TNGA220404	12,7	4,76	0,4	5,16	•	•								•									
TNGA220408	12,7	4,76	0,8	5,16	•	•								•		•			•	•	•		
TNGA220412	12,7	4,76	1,2	5,16	•	•								•		•			•	•	•		
TNGA220416	12,7	4,76	1,6	5,16	•	•						•		•		•					•		
TNGA220708	12,7	7,94	0,8	5,16	•	•																	
TNGA220712	12,7	7,94	1,2	5,16	•																		
TNGA270608	15,87	6,35	0,8	6,35		•																	
TNGA270612	15,87	6,35	1,2	6,35		•																	
TNGA330924	19,05	9,52	2,4	7,94		•																	

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

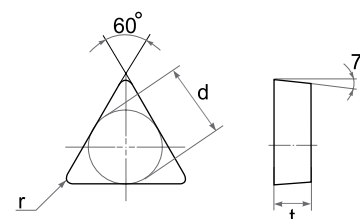
TNGN



Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r																			
TNGN110304	6.35	3.18	0.4	•	•								•									
TNGN110308	6.35	3.18	0.8	•	•						•		•	•								
TNGN160404	9.52	4.76	0.4	•	•					•	•		•									
TNGN160408	9.52	4.76	0.8	•	•	•	•	•	•	•	•		•	•	•		•			•		
TNGN160412	9.52	4.76	1.2	•	•	•	•	•					•	•	•					•	•	•
TNGN160416	9.52	4.76	1.6	•	•	•	•			•			•	•	•					•		
TNGN160704	9.52	7.94	0.4	•																		
TNGN160708	9.52	7.94	0.8	•	•					•				•								
TNGN160712	9.52	7.94	1.2	•	•						•		•	•								
TNGN160716	9.52	7.94	1.6	•	•								•									
TNGN220404	12.70	4.76	0.4	•																		
TNGN220408	12.70	4.76	0.8	•	•								•		•			•		•	•	•
TNGN220412	12.70	4.76	1.2	•	•								•		•			•		•	•	•
TNGN220416	12.70	4.76	1.6		•								•		•					•	•	•
TNGN220708	12.70	7.94	0.8	•																		
TNGN220712	12.70	7.94	1.2		•																	
TNGN220716	12.70	7.94	1.6		•																	
TNGN270608	15.87	6.35	0.8	•	•																	
TNGN270612	15.87	6.35	1.2	•	•																	
TNGN270616	15.87	6.35	1.6		•													•				
TNGN330924	19.05	9.52	2.4		•																	
TNGN440932	25.40	9.52	3.2	•	•								•									

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TCUN

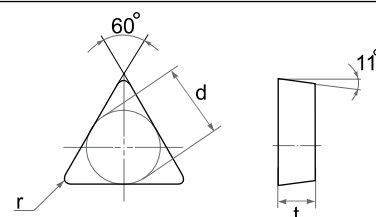


Dimensions (mm)																						
ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
TCUN160408	9,52	4,76	0,8		•									•	•						•	
TCUN160412	9,52	4,76	1,2		•									•	•						•	
TCUN160416	9,52	4,76	1,6		•									•								

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TURNING INSERT

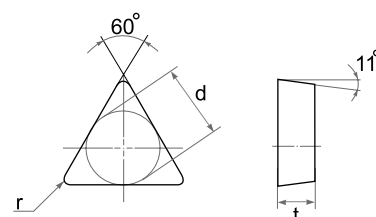
TPGN


Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
TPGN090204	5,56	2,38	0,4		•																	
TPGN090208	5,56	2,38	0,8		•																	
TPGN110304	6,35	3,18	0,4	•	•				•	•			•		•					•		
TPGN110308	6,35	3,18	0,8	•	•					•			•	•	•			•	•	•	•	•
TPGN160304	9,52	3,18	0,4	•	•	•			•	•	•		•		•					•		
TPGN160308	9,52	3,18	0,8	•	•				•	•	•		•	•	•	•		•	•	•	•	•
TPGN160312	9,52	3,18	1,2	•	•										•	•				•	•	•
TPGN160404	9,52	4,76	0,4	•		•																
TPGN160408	9,52	4,76	0,8	•	•													•	•			
TPGN160412	9,52	4,76	1,2	•														•	•			
TPGN160416	9,52	4,76	1,6	•																		
TPGN220404	12,7	4,76	0,4	•	•																	
TPGN220408	12,7	4,76	0,8	•	•								•								•	•
TPGN220412	12,7	4,76	1,2	•	•									•	•					•		
TPGN220416	12,7	4,76	1,6	•	•	•																
TPGN220712	12,7	7,94	1,2		•																	
TPGN220716	12,7	7,94	1,6		•																	
TPGN271232	15,87	12,7	3,2		•																	

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

TPGN

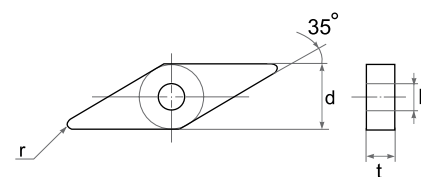
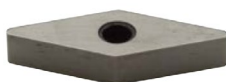

Dimensions (mm)

ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
TPUN110308	6,35	3,18	0,8												•					•		
TPUN110312	6,35	3,18	1,2												•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

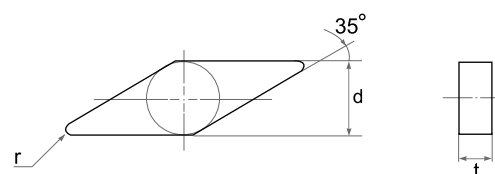
TURNING INSERT

VNGA



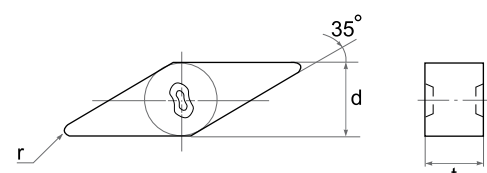
Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r	D																			
VNGA160404	9,52	4,76	0,4	3,81	•	•	•			•				•									
VNGA160408	9,52	4,76	0,8	3,81	•	•	•	•	•	•			•	•	•	•	•		•	•	•		
VNGA160412	9,52	4,76	1,2	3,81	•	•	•	•					•	•	•	•	•				•		
VNGA160604	9,52	6,35	0,4	3,81	•	•																	
VNGA160608	9,52	6,35	0,8	3,81	•	•																	
VNGA160612	9,52	6,35	1,2	3,81	•	•																	
VNGA220404	12,7	4,76	0,4	5,16	•	•																	
VNGA220408	12,7	4,76	0,8	5,16	•	•										•					•		
VNGA220412	12,7	4,76	1,2	5,16	•	•										•					•		
VNGA220424	12,7	4,76	2,4	5,16																		•	•

VNGN



Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r																			
VNGN160404	9,52	4,76	0,4		•																	
VNGN160408	9,52	4,76	0,8		•																	
VNGN160704	9,52	7,94	0,4		•																	
VNGN160708	9,52	7,94	0,8		•																	
VNGN160712	9,52	7,94	1,2		•																	
VNGN160716	9,52	7,94	1,6		•																	

VNGX

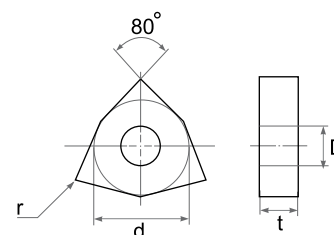
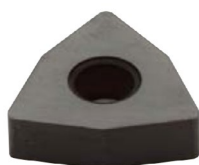


ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
VNGX160708	9,52	7,94	0,8		•						•				•					•		
VNGX160712	9,52	7,94	1,2		•						•				•		•			•		
VNGX160716	9,52	7,94	1,6												•					•		

Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

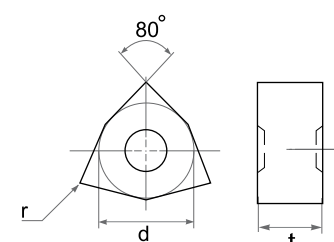
TURNING INSERT

WNGA



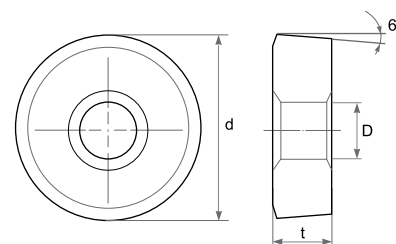
ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r	D																			
WNGA080404	12,7	4,76	0,4	5,16	●	●	●																
WNGA080408	12,7	4,76	0,8	5,16	●	●	●							●	●	●	●	●	●	●	●	●	●
WNGA080412	12,7	4,76	1,2	5,16	●	●	●							●	●	●	●	●	●	●	●		

WNGX



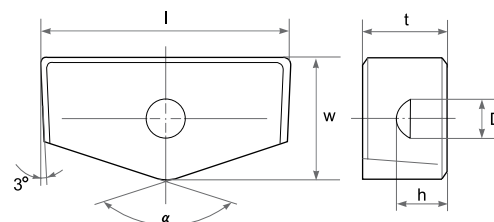
ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
WNGX080708	12,7	7,94	0,8												•					•		
WNGX080712	12,7	7,94	1,2										•		•	•	•	•	•	•		
WNGX080716	12,7	7,94	1,6												•					•		

CDH

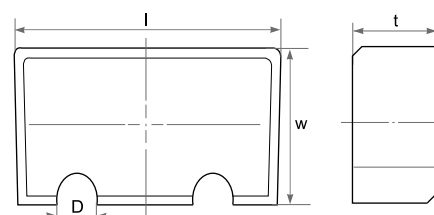


Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	r																			
CDH120600	12,7	6,35	3,18	•	•	•																
CDH120900	12,7	9,52	3,18	•																		
CDH190900	19,05	9,52	6,35	•	•	•	•						•									
CDH191200	19,05	12,7	6,35	•																		
CDH251200	25,4	12,7	6,75	•	•	•					•		•									
CDH251900	25,4	19,05	6,75	•							•		•									
CDH320900	31,75	9,52	10	•	•						•		•	•								
CDH321900	31,75	19,05	10	•	•	•	•				•		•	•								
CDH381100	38,1	11,11	9,93	•																		

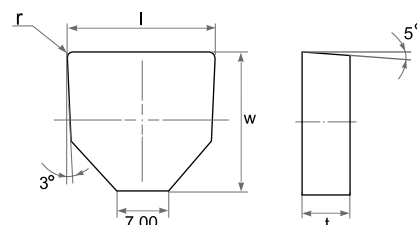
Sample order code CNGA120408 **T010 S800** (please choose chamfer and grade)

ROLL TURNING INSERT
F

Dimensions (mm)

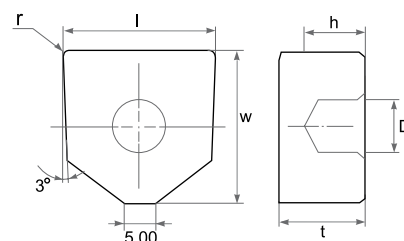
ISO TYPE	t	D	l	w	h	alfa	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
F13941	12	6,5	32	19,05	6	120°	•	•						•		•	•								
F10537	14,2	6,5	44,5	25,4	7	120°	•	•						•		•	•								

F

Dimensions (mm)

ISO TYPE	t	D	l	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
F10537V	15	5	44	26	•	•						•											

F

Dimensions (mm)

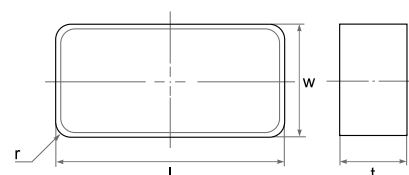
ISO TYPE	l	t	r	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
F250723	25	7,95	1,2	23		•																	

F

Dimensions (mm)

ISO TYPE	l	t	r	w	D	h	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
F251425	25	14,4	2,4	25,4	9,17	10							•			•									
F251425H65	25,4	14,4	2,4	25,4	6,5	10							•			•									

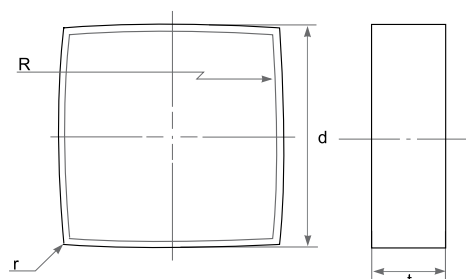
ROLL TURNING INSERT

LNJ



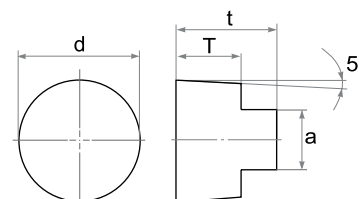
ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	t	r	l	w																			
LNJ5464	9,52	1,6	25,4	15,87	●	●																	
LNJ5568	9,52	3,2	31,75	15,87										●									
LNJ6588	12,7	3,2	31,75	19,05	●	●	●	●				●		●	●								
LNJ6688	12,7	3,2	38,1	19,05	●	●	●	●				●		●	●				●	●		●	
LNJ6898	12,7	3,2	48,1	21,05										●									

SNGN 3812R



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	R	r																			
SNGN3812R	38,1	12,7	0,4	114	•	•	•																

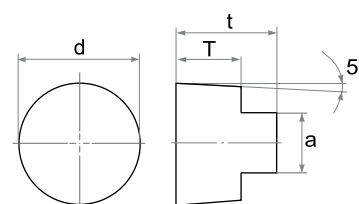
RBGX



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	T	a																			
RBGX06T	6	5	3	3	●	●																	
RBGX08T	8	6,5	4	4	●	●																	
RBGX10T	10	9	6	6		●																	
RBGX12T	12	9	6	6	●	●																	
RBGX16T	16	13	8	8	●	●																	
RBGX20T	20	15	10	10	●	●	●	●															
RBGX26T	26	15	10	14	●	●																	

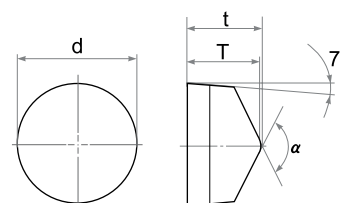
ROLL TURNING INSERT

RCGX



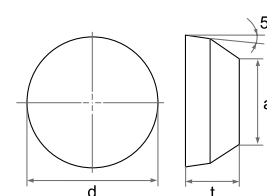
Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	d	t	T	alfa																			
RCGX060400	6,35	4,76	4,57	120°	•	•													•	•		•	•
RCGX060600	6,35	6,35	6,2	120°	•	•	•	•											•	•			
RCGX060700	6,35	7,94	7,7	120°	•	•	•	•						•					•	•			
RCGX090700	9,52	7,94	7,7	120°	•	•	•	•		•				•					•	•		•	•
RCGX120700	12,7	7,94	7,7	120°	•	•	•	•		•				•					•	•		•	•
RCGX151000	15,87	10	9,77	120°	•	•	•	•						•					•	•			
RCGX191000	19,05	10	9,77	120°	•	•	•	•						•					•	•			
RCGX251200	25,4	12	11,85	140°	•	•	•	•						•					•	•			

RPGX



ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	T	alfa																			
RPGX060400	6,35	4,76	4,57	120°																		●	●
RPGX090700	9,52	7,94	7,7	120°															●	●		●	●
RPGX120700	12,7	7,94	7,7	120°															●	●		●	●

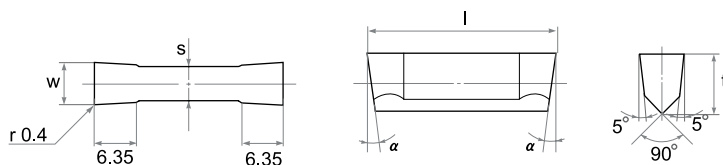
RXGX



ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	a																			
RXGX1207MO	12	7,94	6,9		•																	
RXGX1608MO	16	8	9,5		•						•											
RXGX2508MO	25	8	18,2	•							•											

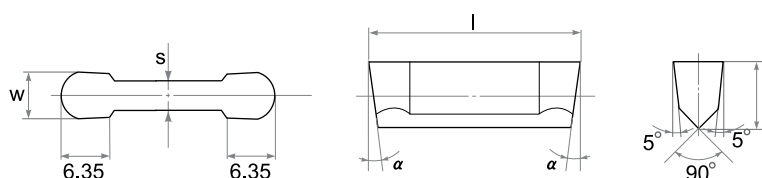
GROOVING INSERT

SYBF



ISO TYPE	Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	t	s	l	w	alfa																			
SYBF3228	6,35	2,69	28,58	3,18	5.0°	●	●																	
SYBF4828	6,35	3,66	28,58	4,78	5.0°	●	●																	
SYBF5528	6,35	3,66	28,58	5,54	5.0°	●																		
SYBF6428	8,56	5,13	28,58	6,35	7.0°	●	●																	
SYBF7928	8,56	5,13	28,58	7,93	7.0°	●	●																	
SYBF9528	8,56	6,99	28,58	9,53	7.0°	●																		

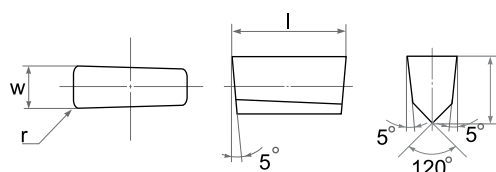
SYBR



ISO TYPE	Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	t	s	l	w	alfa																			
SYBF3228	6,35	2,69	28,58	3,18	5.0°	●	●																	
SYBF4828	6,35	3,66	28,58	4,78	5.0°	●	●																	
SYBF5528	6,35	3,66	28,58	5,54	5.0°	●																		
SYBF6428	8,56	5,13	28,58	6,35	7.0°	●	●																	
SYBF7928	8,56	5,13	28,58	7,93	7.0°	●	●																	
SYBF9528	8,56	6,99	28,58	9,53	7.0°	●																		

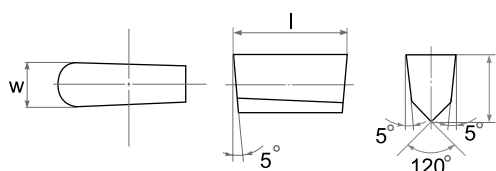
GROOVING INSERT

SGF



Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	t	r	l	w																			
SGF4012	5	0,5	12	4	•	•						•				•						•	
SGF5012	5	0,8	12	5	•	•						•				•						•	
SGF6015	7,5	0,8	15	6	•	•						•											
SGF7015	7,5	0,8	15	7	•	•						•											
SGF8015	7,5	0,8	15	8	•	•						•											
SGF1015	7,5	0,8	15	10	•	•						•											

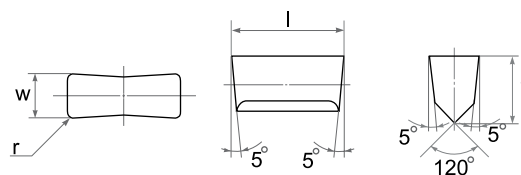
SGR



Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	t	l	w																			
SGR4012	5	12	4	•	•						•				•						•	
SGR5012	5	12	5	•	•						•				•						•	
SGR6015	7,5	15	6	•	•						•											
SGR7015	7,5	15	7	•	•						•											
SGR8015	7,5	15	8	•	•						•											
SGR1015	7,5	15	10	•	•						•											

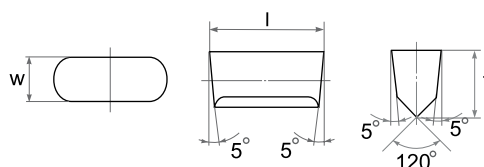
GROOVING INSERT

SSF



Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	t	r	l	w																			
SSF4012	5	0,5	12	4	•	•						•											
SSF5012	5	0,8	12	5	•	•						•											
SSF6015	7,5	0,8	15	6	•	•						•											
SSF7015	7,5	0,8	15	7	•	•																	
SSF8015	7,5	0,8	15	8	•	•																	
SSF1015	7,5	0,8	15	10	•	•																	

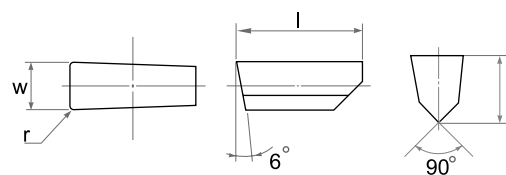
SSR



Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
ISO TYPE	t	l	w																			
SSR4012	5	12	4	•	•						•				•					•		
SSR5012	5	12	5	•	•						•				•					•		
SSR6015	7,5	15	6	•	•						•											
SSR7015	7,5	15	7	•	•						•											
SSR8015	7,5	15	8	•	•						•											
SSR1015	7,5	15	10	•	•						•											

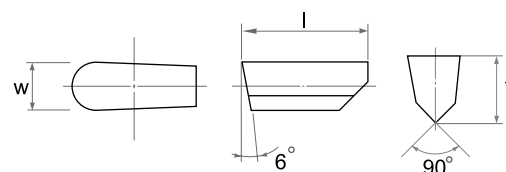
GROOVING INSERT

WFC


Dimensions (mm)

ISO TYPE	t	r	l	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
WFC094050-A	4,75	0,4	12,7	2,388																			•
WFC094050-B	4,75	0,8	12,7	2,388																			•
WFC125050-A	4,75	0,4	12,7	3,175																			•
WFC125050-B	4,75	0,8	12,7	3,175																			•
WFC156050-A	4,75	0,4	12,7	3,962																			•
WFC156050-B	4,75	0,8	12,7	3,962																			•
WFC187050-A	4,75	0,4	12,7	4,75																			•
WFC187050-B	4,75	0,8	12,7	4,75																			•
WFC218075-A	6,35	0,4	19,05	5,537																			•
WFC218075-B	6,35	0,8	19,05	5,537																			•
WFC250075-A	6,35	0,4	19,05	6,35																			•
WFC250075-B	6,35	0,8	19,05	6,35																			•
WFC250075-C	6,35	1,2	19,05	6,35																			•
WFC281075-A	6,35	0,4	19,05	7,137																			•
WFC281075-B	6,35	0,8	19,05	7,137																			•
WFC281075-C	6,35	1,2	19,05	7,137																			•
WFC312100-A	8,56	0,4	25,4	7,925																			•
WFC312100-B	8,56	0,8	25,4	7,925																			•
WFC312100-C	8,56	1,2	25,4	7,925																			•
WFC312100-D	8,56	1,6	25,4	7,925																			•
WFC344100-A	8,56	0,4	25,4	8,738																			•
WFC344100-B	8,56	0,8	25,4	8,738																			•
WFC344100-C	8,56	1,2	25,4	8,738																			•
WFC344100-D	8,56	1,6	25,4	8,738																			•
WFC375100-A	8,56	0,4	25,4	9,525																			•
WFC375100-B	8,56	0,8	25,4	9,525																			•
WFC375100-C	8,56	1,2	25,4	9,525																			•
WFC375100-D	8,56	1,6	25,4	9,525																			•

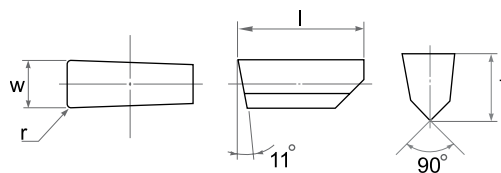
WRC


Dimensions (mm)

ISO TYPE	t	l	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
WRC094050	4,75	12,7	2,388																			•
WRC125050	4,75	12,7	3,175																			•
WRC156050	4,75	12,7	3,962																			•
WRC187050	4,75	12,7	4,75																			•
WRC218075	6,35	19,05	5,537																			•
WRC250075	6,35	19,05	6,35																			•
WRC281075	6,35	19,05	7,137																			•
WRC312100	8,56	25,4	7,925																			•
WRC344100	8,56	25,4	8,738																			•
WRC375100	8,56	25,4	9,525																			•

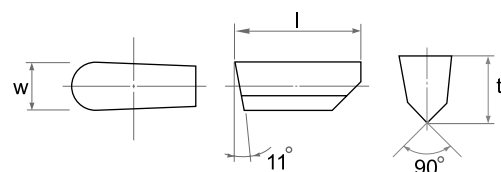
GROOVING INSERT

WFP


Dimensions (mm)

ISO TYPE	t	r	l	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
WFP094050-A	4,75	0,4	12,7	2,388																			•
WFP094050-B	4,75	0,8	12,7	2,388																			•
WFP125050-A	4,75	0,4	12,7	3,175																			•
WFP125050-B	4,75	0,8	12,7	3,175																			•
WFP156050-A	4,75	0,4	12,7	3,962																			•
WFP156050-B	4,75	0,8	12,7	3,962																			•
WFP187050-A	4,75	0,4	12,7	4,75																		•	•
WFP187050-B	4,75	0,8	12,7	4,75																		•	•
WFP218075-A	6,35	0,4	19,05	5,537																		•	•
WFP218075-B	6,35	0,8	19,05	5,537																		•	•
WFP250075-A	6,35	0,4	19,05	6,35																		•	•
WFP250075-B	6,35	0,8	19,05	6,35																		•	•
WFP250075-C	6,35	1,2	19,05	6,35																		•	•
WFP281075-A	6,35	0,4	19,05	7,137																		•	•
WFP281075-B	6,35	0,8	19,05	7,137																		•	•
WFP281075-C	6,35	1,2	19,05	7,137																		•	•
WFP312100-A	8,56	0,4	25,4	7,925																		•	•
WFP312100-B	8,56	0,8	25,4	7,925																		•	•
WFP312100-C	8,56	1,2	25,4	7,925																		•	•
WFP312100-D	8,56	1,6	25,4	7,925																		•	•
WFP344100-A	8,56	0,4	25,4	8,738																		•	•
WFP344100-B	8,56	0,8	25,4	8,738																		•	•
WFP344100-C	8,56	1,2	25,4	8,738																		•	•
WFP344100-D	8,56	1,6	25,4	8,738																		•	•
WFP375100-A	8,56	0,4	25,4	9,525																		•	•
WFP375100-B	8,56	0,8	25,4	9,525																		•	•
WFP375100-C	8,56	1,2	25,4	9,525																		•	•
WFP375100-D	8,56	1,6	25,4	9,525																		•	•

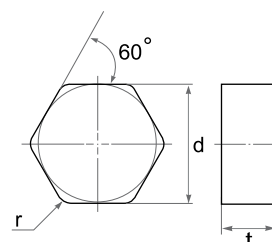
WRP


Dimensions (mm)

ISO TYPE	t	l	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
WRP094050	4,75	12,7	2,388																			•
WRP125050	4,75	12,7	3,175																			•
WRP156050	4,75	12,7	3,962																			•
WRP187050	4,75	12,7	4,75																			•
WRP218075	6,35	19,05	5,537																		•	•
WRP250075	6,35	19,05	6,35																		•	•
WRP281075	6,35	19,05	7,137																		•	•
WRP312100	8,56	25,4	7,925																		•	•
WRP344100	8,56	25,4	8,738																		•	•
WRP375100	8,56	25,4	9,525																		•	•

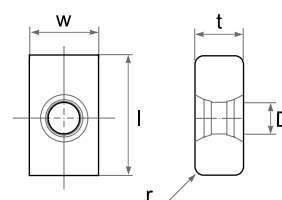
MILLING INSERT

HNEN


Dimensions (mm)

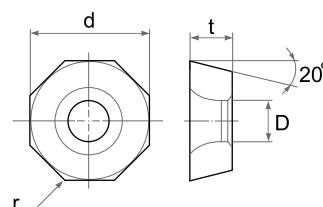
ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
HNEN090520	16,2	5,56	2											•	•					•		
HNEN090530	16,2	5,56	3											•	•					•		
HNEN0905ANSN	15,87	5,64	0,8											•	•		•			•		

LNE


Dimensions (mm)

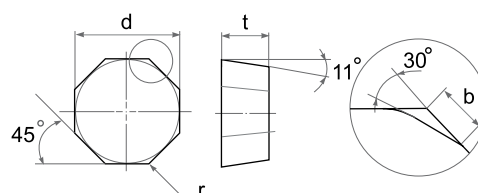
ISO TYPE	t	r	D	l	w	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
LNE040904	4,76	0,4	4,41	15,87	9,52											•	•					•		
LNE040908	4,76	0,8	4,41	15,87	9,52											•	•					•		
LNE040912	4,76	1,2	4,41	15,87	9,52											•	•					•		
LNE1007	6,35	1,2	4,1	15,67	9,52											•	•					•		

OEGB


Dimensions (mm)

ISO TYPE	d	t	r	D	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
OEGB070408	15,87	4,76	0,8	5,18												•					•		
OEGB070416	15,87	4,76	1,6	5,18											•	•		•			•		
OEGB070516	15,87	5,13	1,6	5,18											•	•					•		

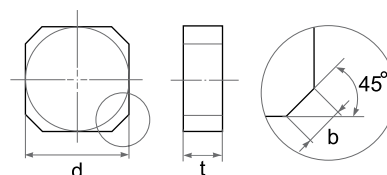
OEGB


Dimensions (mm)

ISO TYPE	d	t	r	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
OPEN050408TR	13,97	4,76	0,8	2,1												•					•		
OPEN050608TR	13,97	6,35	0,8	2,1												•		•			•		

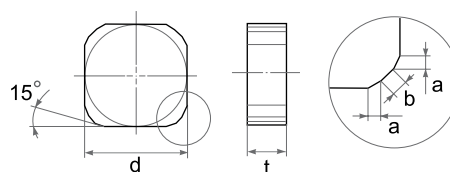
MILLING INSERT

SNCN


Dimensions (mm)

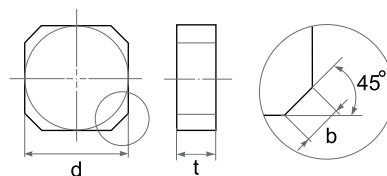
ISO TYPE	d	t	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNCN1204AN	12,7	4,76	2,5												•					•		
SNCN1204ZN	12,7	4,76	1,1												•					•		

SNCN ENTN


Dimensions (mm)

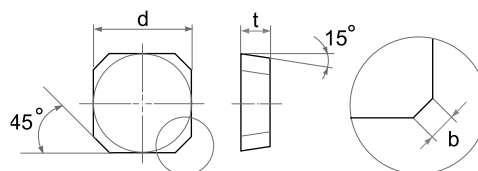
ISO TYPE	d	t	b	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNCN 43 ENTN	12,7	4,76	1	1,4										•	•	•					•		
SNCN 53 ENTN	15,87	4,76	1	1,4										•	•	•					•		

SNGN ING


Dimensions (mm)

ISO TYPE	d	t	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNGN 43 ING	12,7	4,76	1,5											•	•					•		
SNGN 63 ING	19,05	4,76	2,5											•	•					•		

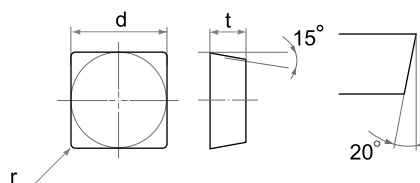
SDCN AETN


Dimensions (mm)

ISO TYPE	d	t	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SDCN1203AETN12	12,7	3,18	1,2												•					•		
SDCN1203AETN	12,7	3,18	2												•					•		
SDCN1504AETN	15,87	4,76	2												•					•		

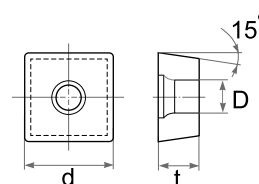
MILLING INSERT

SDCN T20


Dimensions (mm)

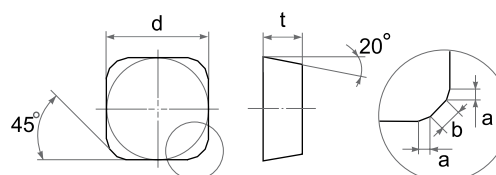
ISO TYPE	d	t	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SDCN120408T20	12,7	4,76	0,8												•					•		
SDCN120412T20	12,7	4,76	1,2												•					•		

SDCW


Dimensions (mm)

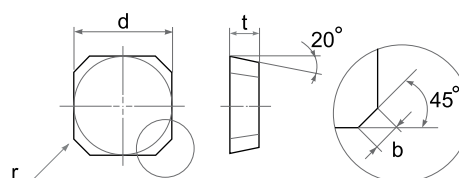
ISO TYPE	d	t	D	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SDCW1204PDSR	12,7	4,76	4,4												•		•			•		

SEAN AFTN


Dimensions (mm)

ISO TYPE	d	t	b	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SEAN1203AFTN	12,7	3,18	1,8	0,5										•	•	•					•		
SEAN1504AFTN	12,7	4,76	2	0,7										•	•	•					•		

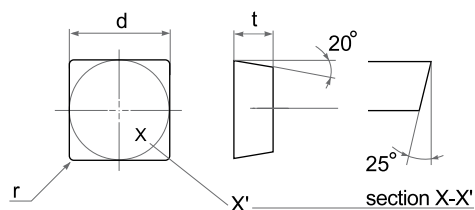
SEAN NW


Dimensions (mm)

ISO TYPE	d	t	r	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SEAN1203NWAFTN	12,7	3,18	0,4	2,4										•									
SEAN1204AFTNW25	12,7	4,76	1,2	2,5												•					•		

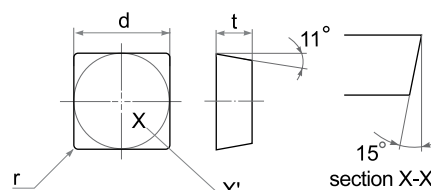
MILLING INSERT

SEAN T25


Dimensions (mm)

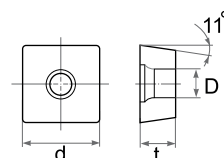
ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SEAN120412T25	12,7	4,76	1,2												•			•		•		
SEAN120416T25	12,7	4,76	1,6												•			•		•		

SPCN T15


Dimensions (mm)

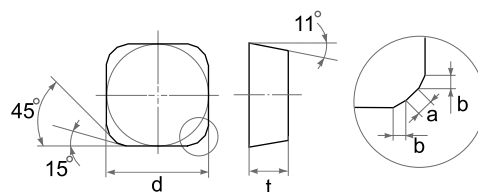
ISO TYPE	d	t	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SPCN120412T15	12,7	4,76	1,2												•					•		
SPCN120416T15	12,7	4,76	1,6												•					•		

SPCW ZX


Dimensions (mm)

ISO TYPE	d	t	D	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SPCW10T3ZX	10	3,97	3,52												•					•		

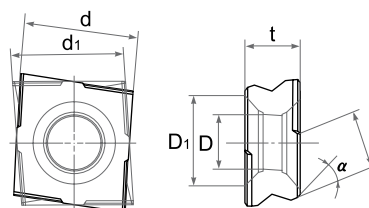
SPEN APTN


Dimensions (mm)

ISO TYPE	d	t	a	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SPEN1206APTN	12,7	6,35	1,2	1,2												•		•			•		

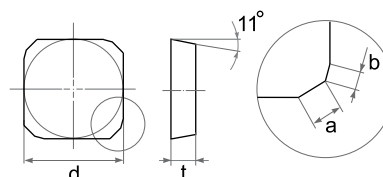
MILLING INSERT

SPHX


Dimensions (mm)

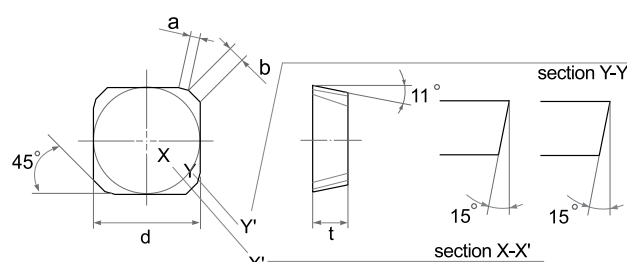
ISO TYPE	d	d1	t	b	D	D1	alfa	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SPHX1205NR480T	11,67	11,33	5,5	8	5,1	8,41	45				•	•				•										
SPHX1205NL480T	11,67	11,33	5,5	8	5,1	8,41	45																			
SPHX1205ER855T	12,09	11,33	5,5	5,5	5,1	8,41	35				•	•				•										
SPHX1205EL855T	12,09	11,33	5,5	5,5	5,1	8,41	35				•					•										
SPHX15T6NR880T	14,58	14,33	6,6	8,8	6,1	10,18	45				•	•				•										
SPHX15T6ER865T	15,5	14,33	6,6	6,5	6,1	10,18	35				•	•				•										

SPKN EDTR


Dimensions (mm)

ISO TYPE	Dimensions (mm)				S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	a	b																			
SPKN1203EDTR	12,7	3,18	1,4	1		●	●					●	●										
SPKN1504EDTR	15,87	4,76	1,4	1		●	●					●	●										

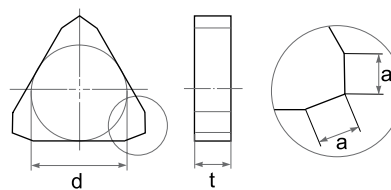
SPKN SP EDTR


Dimensions (mm)

ISO TYPE	Dimensions (mm)				X																			
	d	t	a	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800	
SPKN1204SPEDTR	12,7	4,76	1,1	1,3		•	•					•	•											

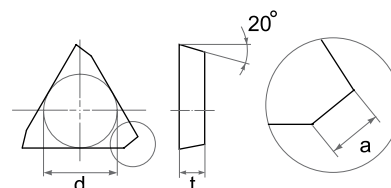
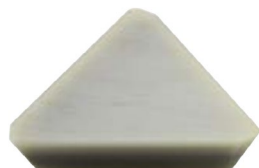
MILLING INSERT

TNCN


Dimensions (mm)

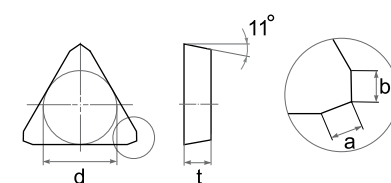
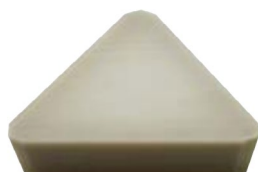
ISO TYPE	d	t	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
TNCN2204ANT	12,7	4,76	2,6											•	•					•		

TEKN

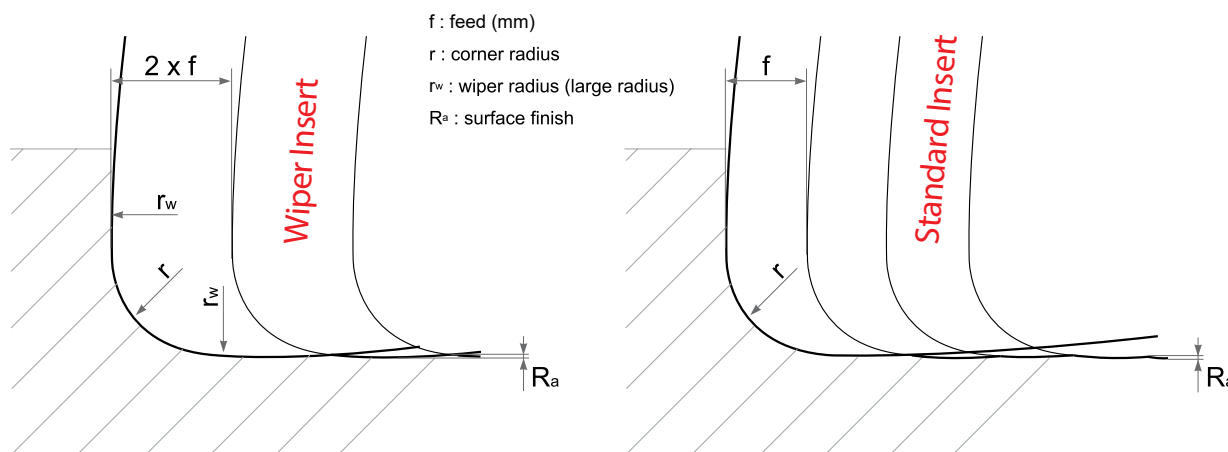
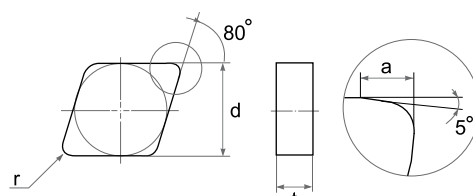
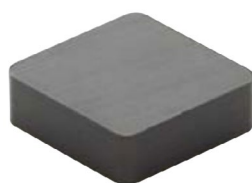

Dimensions (mm)

ISO TYPE	d	t	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
TEKN1603PFTR	9,52	3,18	1,4											•	•					•		
TEKN2204PFTR	12,7	4,76	2,1											•	•					•		

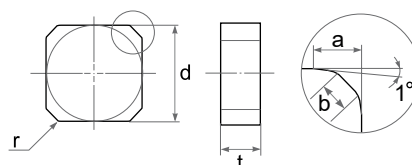
TPKN PDTR


Dimensions (mm)

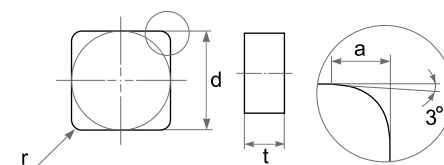
ISO TYPE	d	t	a	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
TPKN1603PDTR	9,52	3,18	1,2	1										•	•	•					•		
TPKN2204PDTR	12,7	4,76	1,4	0,7										•	•	•					•		

WIPER INSERT

ADVANTAGE OF WIPER INSERT
**CNGN
AZ**

Dimensions (mm)

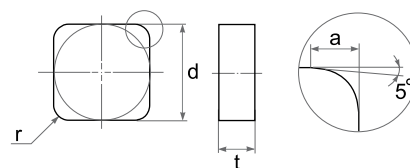
ISO TYPE	d	t	a	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
CNGN1204AZ	12,7	4,76	1,6	1	•											•					•		

**SNCN
ZZT**

Dimensions (mm)

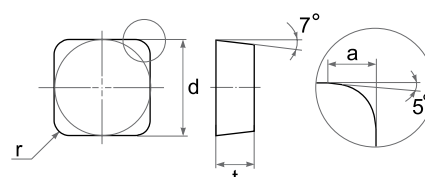
ISO TYPE	d	t	a	b	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNCN0904ZZT	9,52	4,76	1,3	1,1												•	•				•		
SNCN1204ZZT	12,7	4,76	3,25	1,1	•											•	•				•		

**SNCN
GZ**

Dimensions (mm)

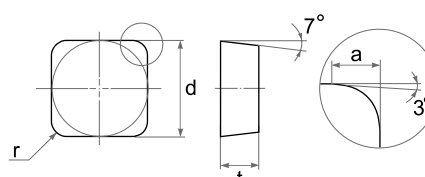
ISO TYPE	d	t	r	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNCN0904GZ	9,52	4,76	0,8	1												•					•		

WIPER INSERT
**SNCN
KZ**

Dimensions (mm)

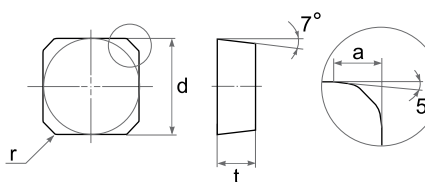
ISO TYPE	d	t	r	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SNCN1204KZ	12,7	4,76	1,2	1,8												•					•		

**SCGN
WZ**

Dimensions (mm)

ISO TYPE	d	t	r	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SCGN0904WZ	9,52	4,76	0,8	1,6												•					•		
SCGN1204WZ	12,7	4,76	0,8	1,6												•					•		

**SCGN
XZ/ZZ**

Dimensions (mm)

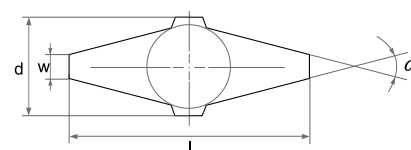
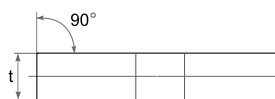
ISO TYPE	d	t	r	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SCGN0904XZ	9,52	4,76	0,8	1,2												•					•		
SCGN1204XZ	12,7	4,76	0,8	1,2												•					•		
SCGN0904ZZ	9,52	4,76	0,8	1												•					•		
SCGN1204ZZ	12,7	4,76	0,8	1												•					•		

**SCGN
MZ**

Dimensions (mm)

ISO TYPE	d	t	r	a	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SCGN0904MZ	9,52	4,76	0,8	1,8												•					•		
SCGN1204MZ	12,7	4,76	0,8	1,8												•					•		

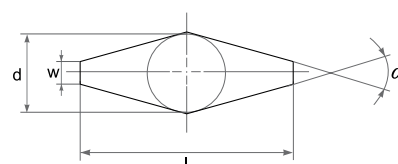
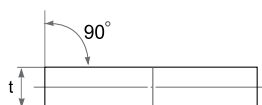
SPECIAL INSERT

SVW


Dimensions (mm)

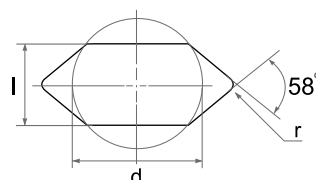
ISO TYPE	d	t	l	w	alfa	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SVW38260	11,5	7,94	26	2,23	38°								•											
SVW38320	14,5	7,94	32	3,22	38°								•											
SVW34400	18,5	7,94	40	5,07	34°								•											

GVGN


Dimensions (mm)

ISO TYPE	d	t	l	w	alfa	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
GVGN38320	13,46	7,94	32	3,22	38°								•											
GVGN38335	13,28	8	33,5	3,06	38°								•											
GVGN36340	13,59	7,94	34	3,25	36°								•											
GVGN38360	17,38	7,94	36	5,98	38°								•											
GVGN34360	17,42	7,94	36	7,22	34°								•											

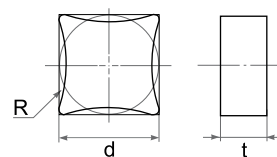
SZT


Dimensions (mm)

ISO TYPE	d	t	l	r	S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
SZT581004	14,7	14,7	10	0,4	•	•																	
SZT581008	14,7	14,7	10	0,8	•	•																	
SZT581012	14,7	14,7	10	1,2	•	•																	

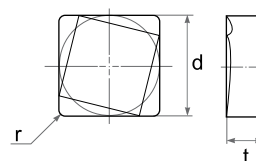
SPECIAL INSERT

SNMX


Dimensions (mm)

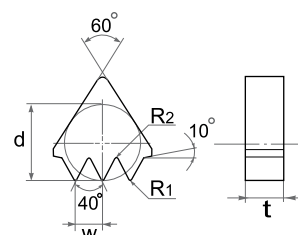
ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	R																			
SNMX121007	12,7	10	7								•											
SNMX121009	12,7	10	9								•											
SNMX121012	12,7	10	12								•											
SNMX121015	12,7	10	15								•											
SNMX121020	12,7	10	20								•											
SNMX121025	12,7	10	25								•											
SNMX121030	12,7	10	30								•											
SNMX121040	12,7	10	40								•											
SNMX121050	12,7	10	50								•											

SNGF

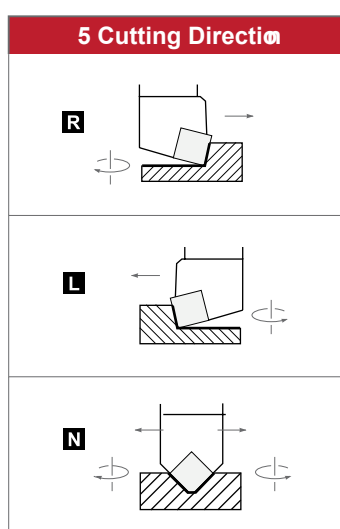
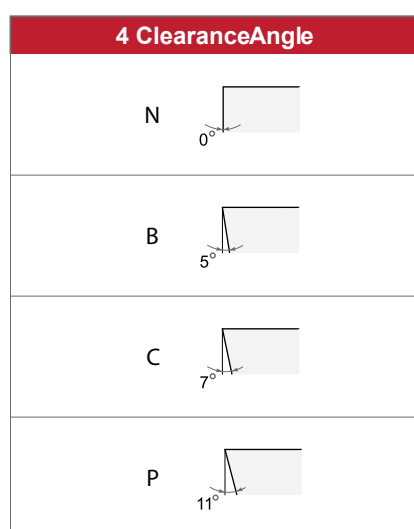
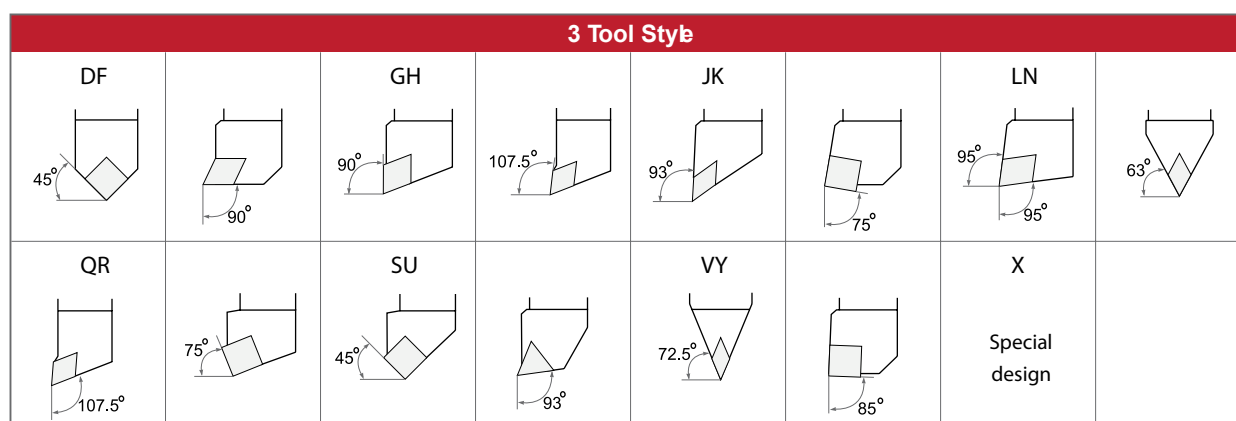
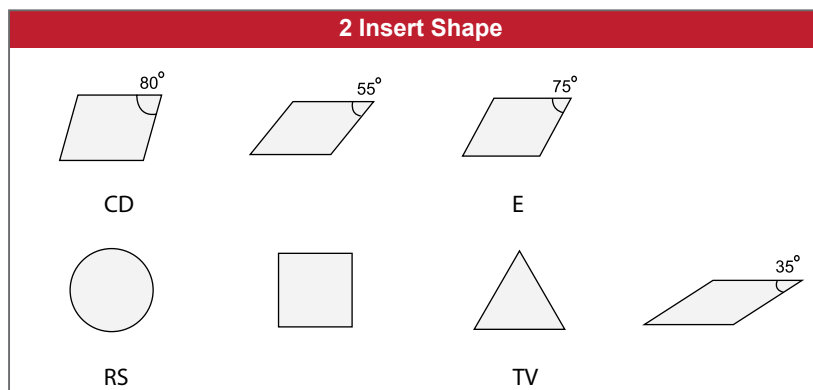
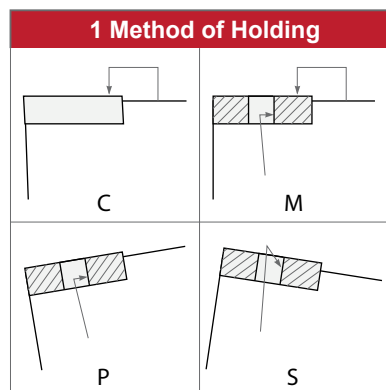

Dimensions (mm)

ISO TYPE	Dimensions (mm)			S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	r																			
SNGF120412	12,7	4,76	1,2												•					•		

INGN


Dimensions (mm)

ISO TYPE	Dimensions (mm)					S300	S310	S320	S340	S620	S622	S100	S420	S410	S025	S200	S210	S220	S230	S250	S1000	N400	S400	S800
	d	t	w	R1	R2																			
INGN160435F303	9,52	4,76	3,56	0,5	0,3								•											
INGN160435F304	9,52	4,76	3,56	0,5	0,4								•											
INGN220435F403	12,7	4,76	3,56	0,5	0,3								•											
INGN220435F404	12,7	7,94	3,56	0,5	0,4								•											

C
1
C
2
L
3
N
4
R
5
25
6


6 Tool Height (h-h₁)

h (mm)	h (mm)
12	12
16	16
20	20
25	25
32	32
40	40
50	50

25
7

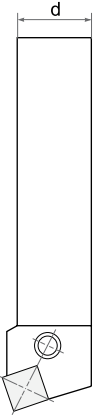
M
8

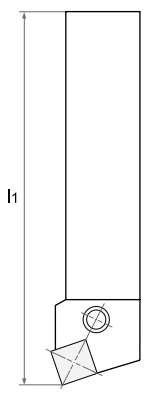
12
9

-

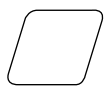
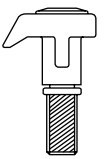
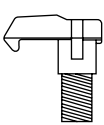
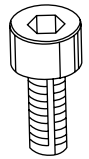
A
10

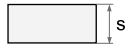
7
11

7 Tool Width (d)		
		d (mm)
	12	12
	16	16
	20	20
	25	25
	32	32
	40	40
	50	50

8 Tool Length (l)		
		l (mm)
	D	60
	E	70
	F	80
	H	100
	K	125
	M	150
	N	160
	P	170
	R	200
	S	250
	T	300
	U	350

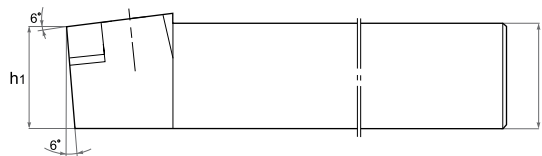
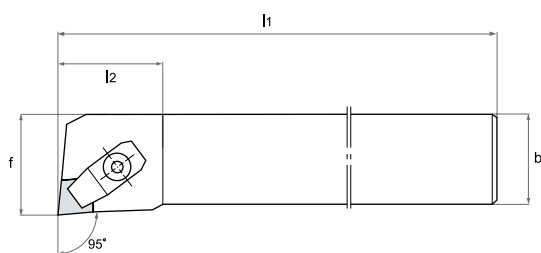
9 Insert Size							
Inscribed Circle							
	d	d	d				
d (mm)	R, S		T (60°)	C (80°)	E (75°)	D (55°)	V (35°)
5.56			09				
6.35	06		11				
7.94	07		13				
9.52	09		16	09		11	16
12.70	12		22	12	13	15	22
15.87	15		27	16		19	
19.05	19		33	19		23	
25.40	25		44	25		31	

10 Clamping System		
A type	X typeB	type
		
+	+	+
		

11 Insert Thickness	
	
Index	S (mm)
3	3.18
4	4.76
6	6.35
7	7.94
9	9.52

CCLN

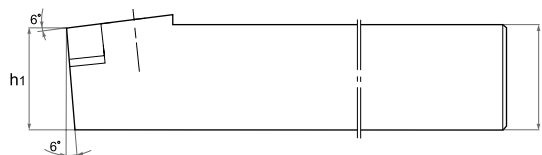
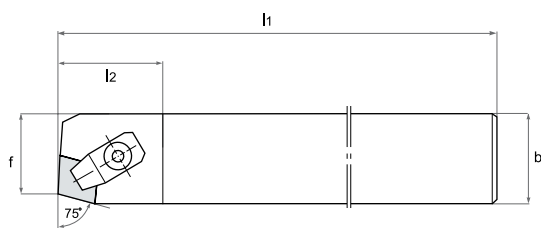
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CCLNR/L 2525M12A4	25	25	150	35	32	•	•	CNGN1204
CCLNR/L 2525M12A7	25	25	150	35	32	•	•	CNGN1207
CCLNR/L 2525M12X7	25	25	150	35	32	•	•	CNG(V)X1207
CCLNR/L 3225P12A4	32	25	170	35	32	•	•	CNGN1204
CCLNR/L 3225P12A7	32	25	170	35	32	•	•	CNGN1207
CCLNR/L 3225P12X7	32	25	170	35	32	•	•	CNG(V)X1207
CCLNR/L 3225P16X7	32	25	170	35	32	•	•	CNG(V)X1607
CCLNR/L 3225P16A7	32	25	170	35	32	•	•	CNGN1607
CCLNR/L 4040S19A7	40	40	250	60	50	•	•	CNGN1907
CCLNR/L 5050T25A9	50	50	300	65	60	•	•	CNGN2509

CCBN

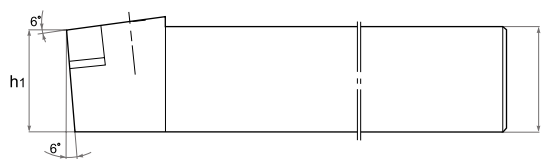
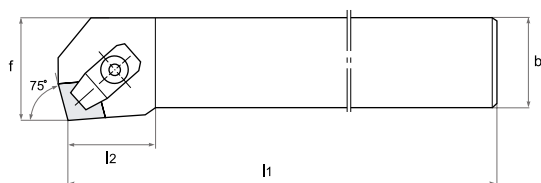
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CCBNR/L 2525M12A4	25	25	150	35	22	•	•	CNGN1204
CCBNR/L 2525M12A7	25	25	150	35	22	•	•	CNGN1207
CCBNR/L 2525M12X7	25	25	150	35	22	•	•	CNG(V)X1207
CCBNR/L 3225P12A4	32	25	170	35	22	•	•	CNGN1204
CCBNR/L 3225P12A7	32	25	170	35	22	•	•	CNGN1207
CCBNR/L 3225P12X7	32	25	170	35	22	•	•	CNG(V)X1207
CCBNR/L 3225P16A7	32	25	170	35	27	•	•	CNGN1607
CCBNR/L 3225P16X7	32	25	170	35	27	•	•	CNG(V)X1607
CCBNR/L 4040S19A7	40	40	250	60	36	•	•	CNGN1907
CCBNR/L 5050T25A9	50	50	300	65	45	•	•	CNGN2509

CCKN

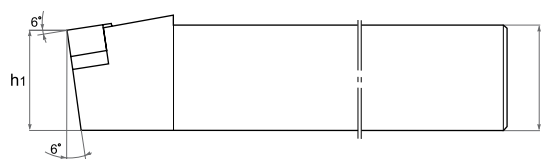
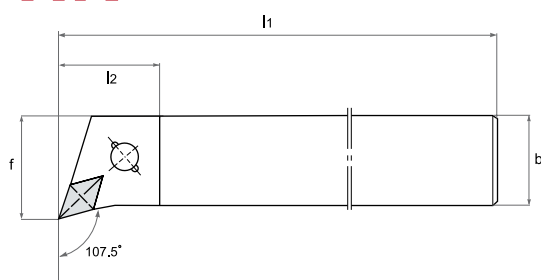
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CCKNR/L 2525M12A4	25	25	150	29	32	•	•	CNGN1204
CCKNR/L 2525M12A7	25	25	150	29	32	•	•	CNGN1207
CCKNR/L 2525M12X7	25	25	150	29	32	•	•	CNG(V)X1207
CCKNR/L 3225P12A4	32	25	170	29	32	•	•	CNGN1204
CCKNR/L 3225P12A7	32	25	170	29	32	•	•	CNGN1207
CCKNR/L 3225P12X7	32	25	170	29	32	•	•	CNG(V)X1207

CDHN

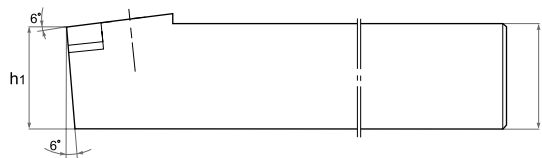
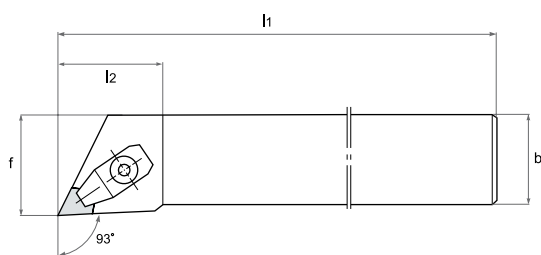
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CDHNR/L 2525M15A4	25	25	150	33	32	•	•	DNGN1504
CDHNR/L 2525M15A7	25	25	150	33	32	•	•	DNGN1507
CDHNR/L 2525M12X7	25	25	150	30	32	•	•	DNGX1207
CDHNR/L 2525M15X7	25	25	150	33	32	•	•	DNGX1507
CDHNR/L 3225P15A4	32	25	170	33	32	•	•	DNGN1504
CDHNR/L 3225P15A7	32	25	170	33	32	•	•	DNGN1507
CDHNR/L 3225P12X7	32	25	170	30	32	•	•	DNGX1207
CDHNR/L 3225P15X7	32	25	170	33	32	•	•	DNGX1507

CDJN

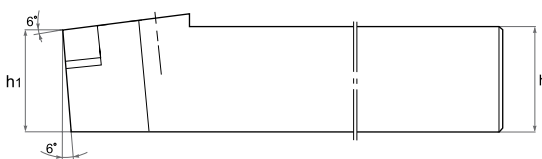
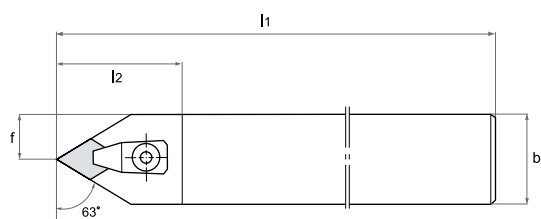
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CDJNR/L 2525M15A4	25	25	150	38	32	•	•	DNGN1504
CDJNR/L 2525M15A7	25	25	150	38	32	•	•	DNGN1507
CDJNR/L 2525M12X7	25	25	150	38	32	•	•	DNGX1207
CDJNR/L 2525M15X7	25	25	150	38	32	•	•	DNGX1507
CDJNR/L 3225P15A4	32	25	170	38	32	•	•	DNGN1504
CDJNR/L 3225P15A7	32	25	170	38	32	•	•	DNGN1507
CDJNR/L 3225P12X7	32	25	170	38	32	•	•	DNGX1207
CDJNR/L 3225P15X7	32	25	170	38	32	•	•	DNGX1507

CDNN

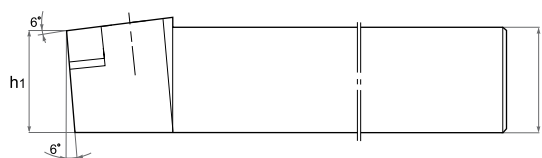
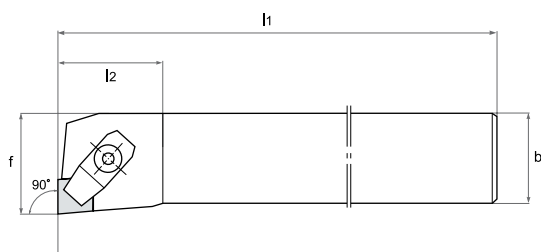
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK	INSERT
	h(h1)	b	l1	l2	f	N	
CDNNN 2525M15A4	25	25	150	40	12.5	•	DNGN1504
CDNNN 2525M15A7	25	25	150	40	12.5	•	DNGN1507
CDNNN 4025M15A7	40	25	150	40	12.5	•	DNGN1507

CEFN

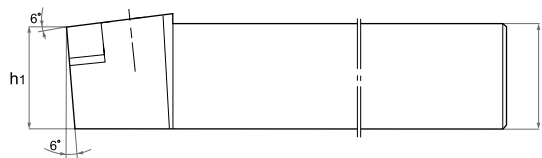
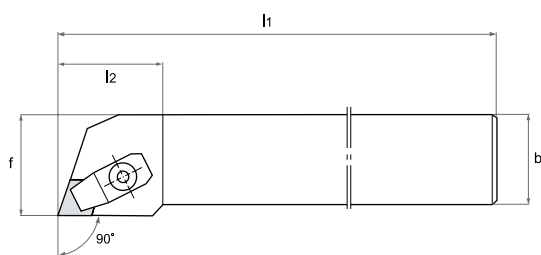
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CEFNR/L 2525M13A7	25	25	150	29	32	•	•	ENGN1307
CEFNR/L 3225P13A7	32	25	170	29	32	•	•	ENGN1307

CEGN

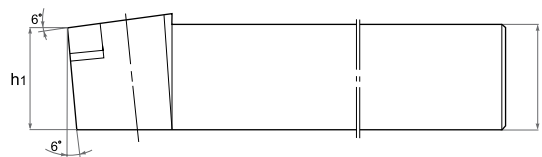
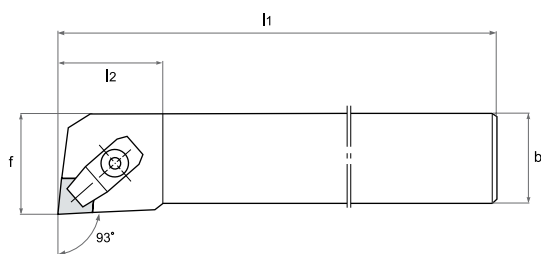
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CEGNR/L 2525M13A7	25	25	150	23	32	•	•	ENGN1307
CEGNR/L 3225P13A7	32	25	170	23	32	•	•	ENGN1307

CEJN

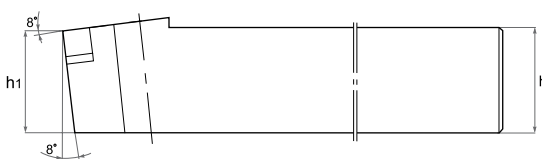
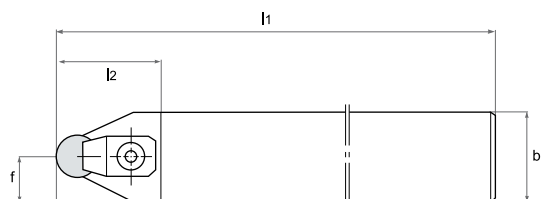
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CEJNR/L 2525M13A7	25	25	150	30	32	•	•	ENGN1307
CEJNR/L 3225P13A7	32	25	170	30	32	•	•	ENGN1307

CRDN

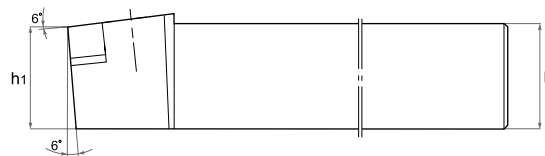
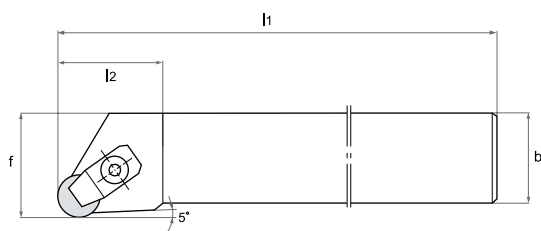
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK	INSERT
	h(h1)	b	l1	l2	f	N	
CRDNN 2525M09A4	25	25	150	32	12.5	•	RNGN0904
CRDNN 2525M09A7	25	25	150	32	12.5	•	RNGN0907
CRDNN 2525M12A4	25	25	150	32	12.5	•	RNGN1204
CRDNN 2525M12A7	25	25	150	32	12.5	•	RNGN1207
CRDNN 2525M12X7	25	25	150	32	12.5	•	RNGX1207
CRDNN 3225P12A4	32	25	170	32	12.5	•	RNGN1204
CRDNN 3225P12A7	32	25	170	32	12.5	•	RNGN1207
CRDNN 3225P12X7	32	25	170	32	12.5	•	RNGX1207
CRDNN 3225P15A7	32	25	170	32	12.5	•	RNGN1507
CRDNN 3225P19A7	32	25	170	32	12.5	•	RNGN1907

CRGN

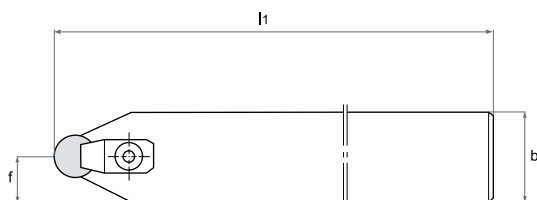
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK	INSERT
	h(h1)	b	l1	l2	f	R	
CRGNR/L 2525M09A4	25	25	150	32	32	•	RNGN0904
CRGNR/L 2525M09A7	25	25	150	32	32	•	RNGN0907
CRGNR/L 2525M12A4	25	25	150	35	32	•	RNGN1204
CRGNR/L 2525M12A7	25	25	150	35	32	•	RNGN1207
CRGNR/L 2525M12X7	25	25	150	35	32	•	RNGX1207
CRGNR/L 3225P12A4	32	25	170	35	32	•	RNGN1204
CRGNR/L 3225P12A7	32	25	170	35	32	•	RNGN1207
CRGNR/L 3225P12X7	32	25	170	35	32	•	RNGX1207
CRGNR/L 3225P15A7	32	25	170	37	32	•	RNGN1507
CRGNR/L 3225P19A7	32	25	170	45	32	•	RNGN1907

CRDB

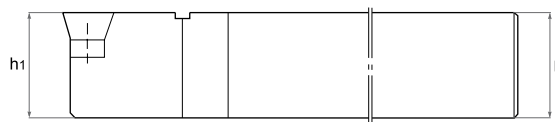
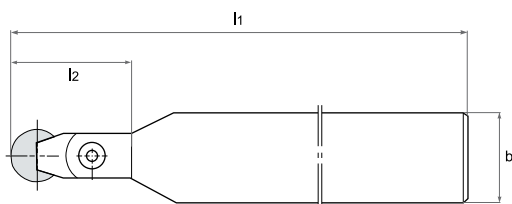
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)				STOCK	INSERT
	h(h1)	b	l1	f	N	
CRDBN 2525M12A	25	25	150	12.5	•	RBGX12T
CRDBN 2525M16A	25	25	150	12.5	•	RBGX16T
CRDBN 3232P12A	32	32	170	16	•	RBGX12T
CRDBN 3232P16A	32	32	170	16	•	RBGX16T
CRDBN 3232P20A	32	32	170	16	•	RBGX20T
CRDBN 3232P26A	32	32	170	16	•	RBGX26T

CRDC

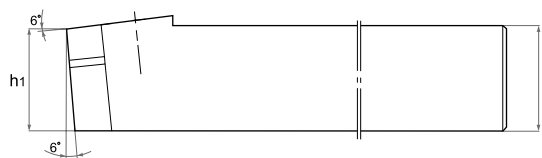
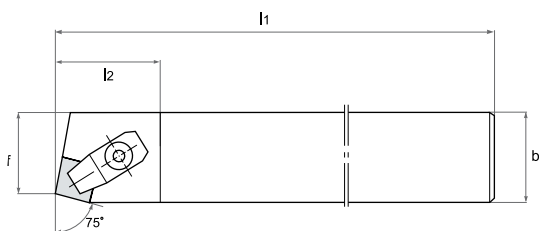
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)				STOCK	INSERT
	h(h1)	b	l1	l2	N	
CRDCN 3225P06A4	32	25	170	20	•	RCGX0604
CRDCN 3225P06A6	32	25	170	20	•	RCGX0606
CRDCN 3225P06A7	32	25	170	20	•	RCGX0607
CRDCN 3225P09A7	32	25	170	20	•	RCGX0907
CRDCN 3225P12A7	32	25	170	20	•	RCGX1207
CRDCN 5040T12A7	50	40	300	30	•	RCGX1207
CRDCN 5040T15A10	50	40	300	35	•	RCGX1510
CRDCN 5040T19A10	50	40	300	45	•	RCGX1910
CRDCN 5040T25A12	50	40	300	50	•	RCGX2512

CSBN

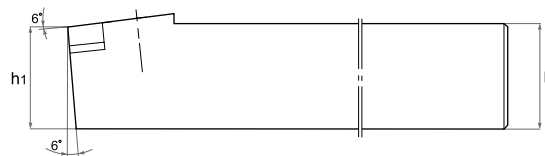
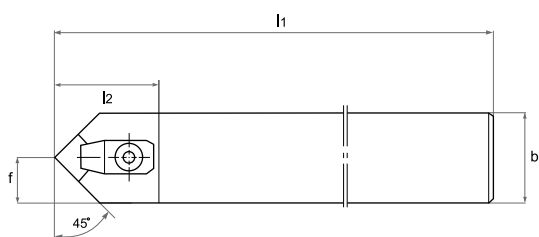
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSBNR/L 2525M12A4	25	25	150	34	22	•	•	SNGN1204
CSBNR/L 2525M12A7	25	25	150	34	22	•	•	SNGN1207
CSBNR/L 2525M12X7	25	25	150	34	22	•	•	SNGX1207
CSBNR/L 2525M15A7	25	25	150	34	22	•	•	SNGN1507
CSBNR/L 2525M15X7	25	25	150	40	22	•	•	SNGX1507
CSBNR/L 3225P12A7	32	25	170	34	22	•	•	SNGN1207
CSBNR/L 3225P12X7	32	25	170	34	22	•	•	SNGX1207
CSBNR/L 3225P15A7	32	25	170	40	22	•	•	SNGN1507
CSBNR/L 3225P15X7	32	25	170	40	22	•	•	SNGX1507
CSBNR/L 4040S19A7	40	40	250	54	35	•	•	SNGN1907
CSBNR/L 5050T25A9	50	50	300	65	45	•	•	SNGN2509

CSDN

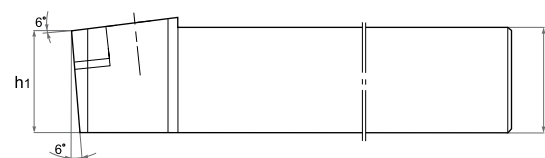
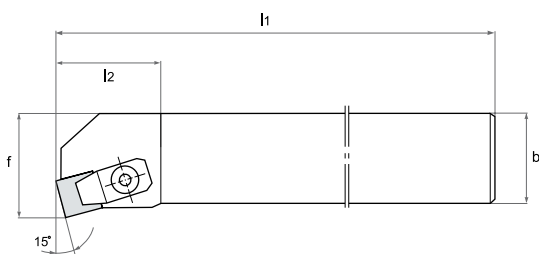
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	N		
CSDNN 2525M12A4	25	25	150	35	12.5	•		SNGN1204
CSDNN 2525M12A7	25	25	150	35	12.5	•		SNGN1207
CSDNN 2525M12X7	25	25	150	35	12.5	•		SNGX1207
CSDNN 2525M15A7	25	25	150	38	12.5	•		SNGN1507
CSDNN 2525M15X7	25	25	150	38	12.5	•		SNGX1507
CSDNN 3225P12A7	32	25	170	35	16	•		SNGN1207
CSDNN 3225P12X7	32	25	170	35	16	•		SNGX1207
CSDNN 3225P15A7	32	25	170	38	16	•		SNGN1507
CSDNN 3225P15X7	32	25	170	38	16	•		SNGX1507
CSDNN 4040S19A7	40	40	250	60	20	•		SNGN1907
CSDNN 5050T25A9	50	50	300	60	25	•		SNGN2509

CSKN

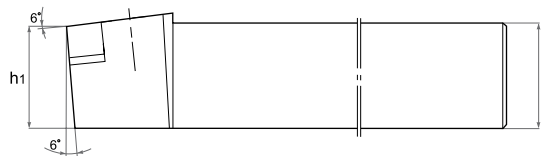
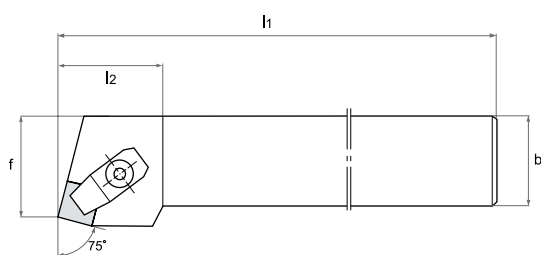
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSKNR/L 2525M12A4	25	25	150	34	32	•	•	SNGN1204
CSKNR/L 2525M12A7	25	25	150	34	32	•	•	SNGN1207
CSKNR/L 2525M12X7	25	25	150	34	32	•	•	SNGX1207
CSKNR/L 2525M15A7	25	25	150	40	32	•	•	SNGN1507
CSKNR/L 2525M15X7	25	25	150	40	32	•	•	SNGX1507
CSKNR/L 3225P12A7	32	25	170	34	32	•	•	SNGN1207
CSKNR/L 3225P12X7	32	25	170	34	32	•	•	SNGX1207
CSKNR/L 3225P15A7	32	25	170	40	32	•	•	SNGN1507
CSKNR/L 3225P15X7	32	25	170	40	32	•	•	SNGX1507

CSRN

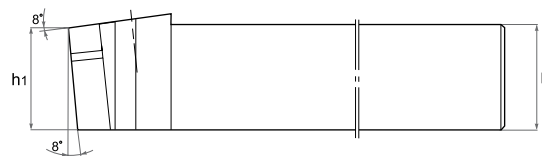
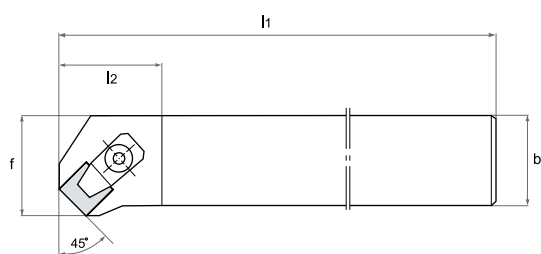
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSNR/L 2525M12A4	25	25	150	32	27	•	•	SNGN1204
CSNR/L 2525M12A7	25	25	150	32	27	•	•	SNGN1207
CSNR/L 2525M12X7	25	25	150	32	27	•	•	SNGX1207
CSNR/L 2525M15A7	25	25	150	34	27	•	•	SNGN1507
CSNR/L 2525M15X7	25	25	150	34	27	•	•	SNGX1507
CSNR/L 3225P12A7	32	25	170	32	27	•	•	SNGN1207
CSNR/L 3225P12X7	32	25	170	32	27	•	•	SNGX1207
CSNR/L 3225P15A7	32	25	170	34	27	•	•	SNGN1507
CSNR/L 3225P15X7	32	25	170	34	27	•	•	SNGX1507
CSNR/L 4040S19A7	40	40	250	54	43	•	•	SNGN1907
CSNR/L 5050T25A9	50	50	300	70	53	•	•	SNGN2509

CSRN

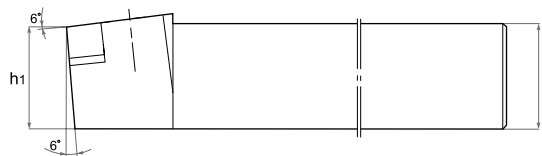
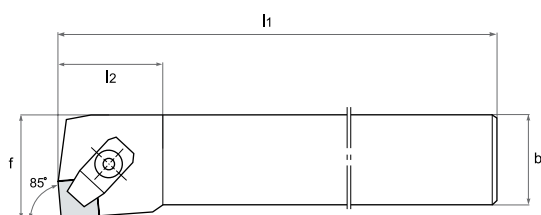
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSSNR/L 2525M12A4	25	25	150	35	32	•	•	SNGN1204
CSSNR/L 2525M12A7	25	25	150	35	32	•	•	SNGN1207
CSSNR/L 2525M12X7	25	25	150	35	32	•	•	SNGX1207
CSSNR/L 2525M15A7	25	25	150	37	32	•	•	SNGN1507
CSSNR/L 2525M15X7	25	25	150	37	32	•	•	SNGX1507
CSSNR/L 3225P12A7	32	25	170	35	32	•	•	SNGN1207
CSSNR/L 3225P12X7	32	25	170	35	32	•	•	SNGX1207
CSSNR/L 3225P15A7	32	25	170	37	32	•	•	SNGN1507
CSSNR/L 3225P15X7	32	25	170	37	32	•	•	SNGX1507
CSNR/L 4040S19A7	40	40	250	54	43	•	•	SNGN1907
CSNR/L 5050T25A9	50	50	300	70	53	•	•	SNGN2509

CSYN

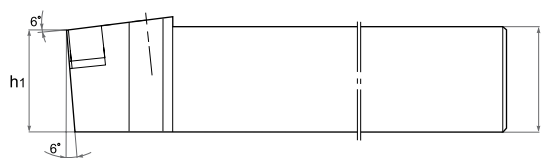
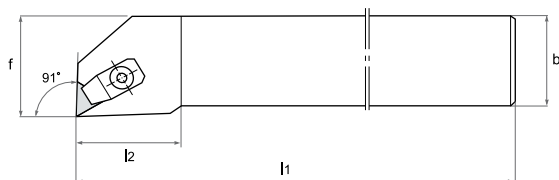
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSYNR/L 2525M12A4	25	25	150	27	32	•	•	SNGN1204
CSYNR/L 2525M12A7	25	25	150	27	32	•	•	SNGN1207
CSYNR/L 2525M12X7	25	25	150	27	32	•	•	SNGX1207
CSYNR/L 2525M15A7	25	25	150	27	32	•	•	SNGN1507
CSYNR/L 2525M15X7	25	25	150	27	32	•	•	SNGX1507
CSYNR/L 3225P12A7	32	25	170	27	32	•	•	SNGN1207
CSYNR/L 3225P12X7	32	25	170	27	32	•	•	SNGX1207
CSYNR/L 3225P15A7	32	25	170	27	32	•	•	SNGN1507
CSYNR/L 3225P15X7	32	25	170	27	32	•	•	SNGX1507

CTFN

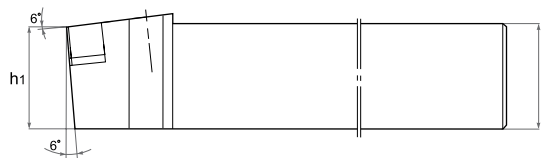
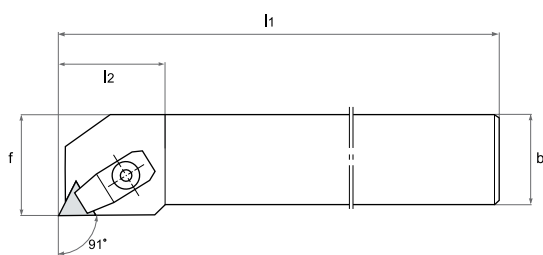
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CTFNR/L 2525M16A4	25	25	150	29	32	•	•	TNGN1604
CTFNR/L 2525M16A7	25	25	150	29	32	•	•	TNGN1607
CTFNR/L 2525M22A4	25	25	150	32	32	•	•	TNGN2204
CTFNR/L 2525M22A7	25	25	150	32	32	•	•	TNGN2207
CTFNR/L 3225P16A4	32	25	170	29	32	•	•	TNGN1604
CTFNR/L 3225P16A7	32	25	170	29	32	•	•	TNGN1607
CTFNR/L 3225P22A4	32	25	170	32	32	•	•	TNGN2204
CTFNR/L 3225P22A7	32	25	170	32	32	•	•	TNGN2207

CTGN

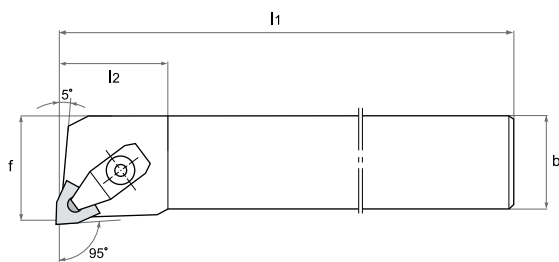
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CTGNR/L 2525M16A4	25	25	150	26	32	•	•	TNGN1604
CTGNR/L 2525M16A7	25	25	150	26	32	•	•	TNGN1607
CTGNR/L 2525M22A4	25	25	150	26	32	•	•	TNGN2204
CTGNR/L 2525M22A7	25	25	150	26	32	•	•	TNGN2207
CTGNR/L 3225P16A4	32	25	170	26	32	•	•	TNGN1604
CTGNR/L 3225P16A7	32	25	170	26	32	•	•	TNGN1607
CTGNR/L 3225P22A4	32	25	170	26	32	•	•	TNGN2204
CTGNR/L 3225P22A7	32	25	170	26	32	•	•	TNGN2207

CWLN

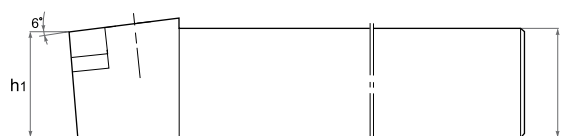
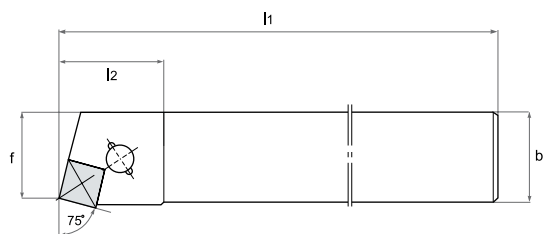
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CWLNR/L 2525M08X7	25	25	150	28	32	•	•	WNGX0807
CWLNR/L 3225M08X7	32	25	150	28	32	•	•	WNGX0807

CSRC

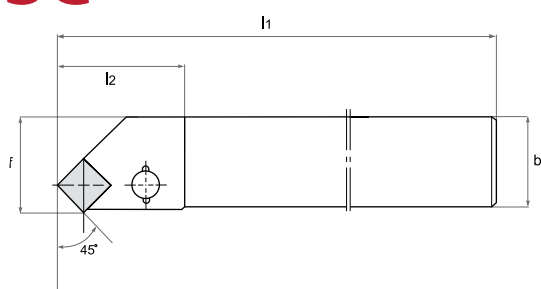
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSRCR/L 2525M12A4	25	25	150	32	27	•	•	SCGN1204
CSRCR/L 3225P12A4	32	25	170	32	27	•	•	SCGN1204

CSSC

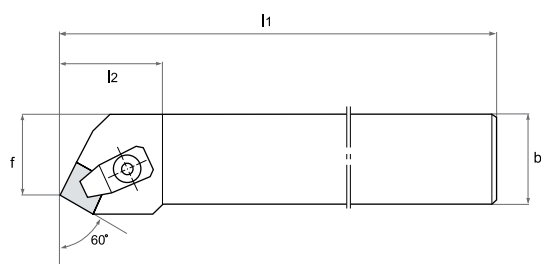
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSSCR/L 2525M12A4	25	25	150	35	32	•	•	SCGN1204
CSSCR/L 2525M12A6	25	25	150	35	32	•	•	SCGN1206
CSSCR/L 3225P12A4	32	25	170	35	32	•	•	SCGN1204
CSSCR/L 3225P12A6	32	25	170	35	32	•	•	SCGN1206

CSTP

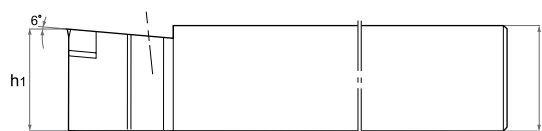
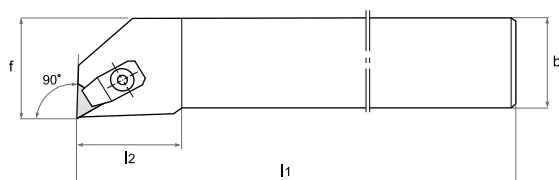
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CSTPR/L 2020K09A3	20	20	125	24	17	•	•	SPGN0903
CSTPR/L 2020K12A3	20	20	125	30	17	•	•	SPGN1203
CSTPR/L 2020K12A4	20	20	125	30	17	•	•	SPGN1204
CSTPR/L 2525M12A3	25	25	150	30	22	•	•	SPGN1203
CSTPR/L 2525M12A4	25	25	150	30	22	•	•	SPGN1204

CTFP

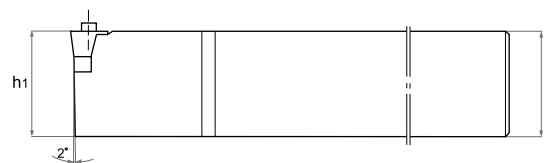
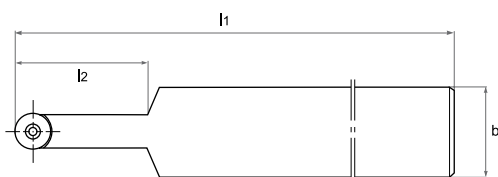
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CTFPR/L 2020K16A3	20	20	125	20	25	•	•	TPGN1603
CTFPR/L 2525M16A3	25	25	150	20	32	•	•	TPGN1G03

HRCD

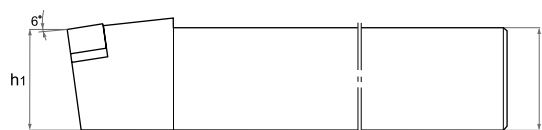
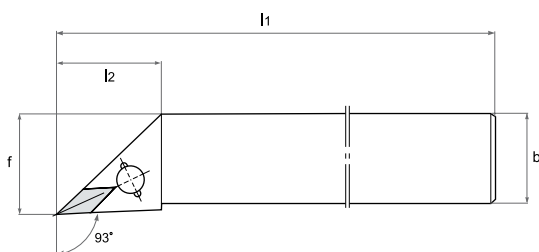
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)				STOCK	INSERT
	h(h1)	b	l1	l2	N	
HRCD 2525M12B6	25	25	150	15	•	CDH1206
HRCD 2525M19B9	25	25	150	15	•	CDH1909
HRCD 3225R19B9	32	25	200	38	•	CDH1909
HRCD 4035S19B9	40	35	250	45	•	CDH1909
HRCD 4035S32B19	40	35	250	45	•	CDH3219
HRCD 5050T32B19	50	50	300	50	•	CDH3219

CSTP

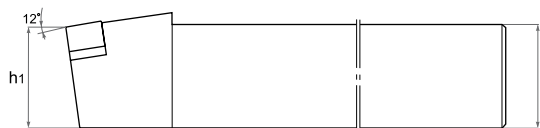
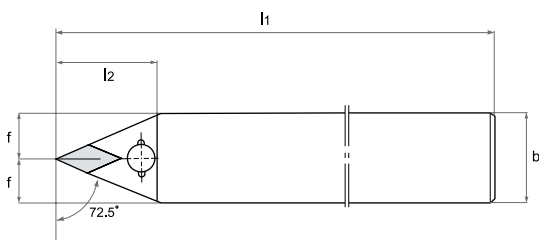
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	h(h1)	b	l1	l2	f	R	L	
CVJNR/L 2525M16-A4	25	25	150	41	32	•	•	VNGN1604
CVJNR/L 2525M16-X7	25	25	150	41	32	•	•	VNGX1607
CVJNR/L 3225P16-X7	32	25	170	41	32	•	•	VNGX1607

CVVN

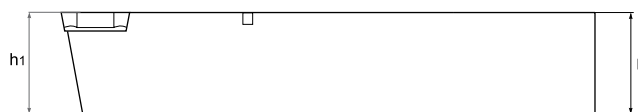
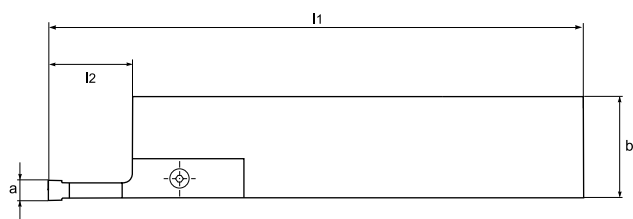
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK	INSERT
	h(h1)	b	l1	l2	f	N	
CVVNN 2525M16A4	25	25	150	45	12.5	•	VNGN1604
CVVNN 2525M16X7	25	25	150	45	12.5	•	VNGX1607
CVVNN 3225P16X7	32	25	170	45	12.5	•	VNGX1607

CSBF

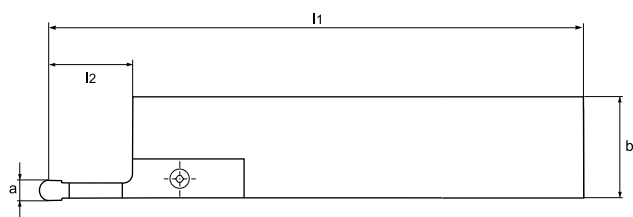
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CSBF5040P3228R/L	3.18	50	40	170	19	•	•	SYBF3228
CSBF5040P4828R/L	4.78	50	40	170	19	•	•	SYBF4828
CSBF5040P5528R/L	5.54	50	40	170	19	•	•	SYBF5528
CSBF5040P6428R/L	6.35	50	40	170	19	•	•	SYBF6428
CSBF5040P7928R/L	7.93	50	40	170	19	•	•	SYBF7928
CSBF5040P9528R/L	9.52	50	40	170	19	•	•	SYBF9528

CSBR

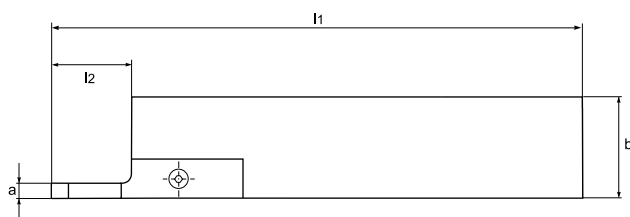
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CSBR 5040P3228R/L	3.18	50	40	170	19	•	•	SYBR3228
CSBR 5040P4828R/L	4.78	50	40	170	19	•	•	SYBR4828
CSBR 5040P5528R/L	5.54	50	40	170	19	•	•	SYBR5528
CSBR 5040P6428R/L	6.35	50	40	170	19	•	•	SYBR6428
CSBR 5040P7928R/L	7.93	50	40	170	19	•	•	SYBR7928
CSBR 5040P9528R/L	9.52	50	40	170	19	•	•	SYBR9528

CSGF

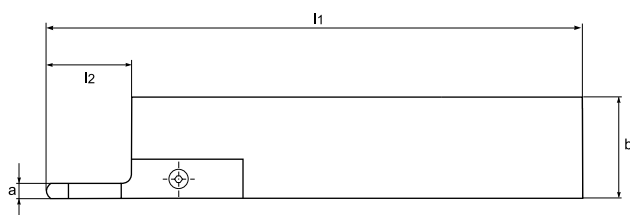
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CSGF3225P4012R/L	4.0	32	25	170	19	•	•	SGF4012
CSGF3225P5012R/L	5.0	32	25	170	19	•	•	SGF5012
CSGF3225P6015R/L	6.0	32	25	170	19	•	•	SGF6015
CSGF3225P7015R/L	7.0	32	25	170	19	•	•	SGF7015
CSGF 3225P8015R/L	8.0	32	25	170	19	•	•	SGF8015
CSGF3225P1015R/L	10.0	32	25	170	19	•	•	SGF1015

CSGR

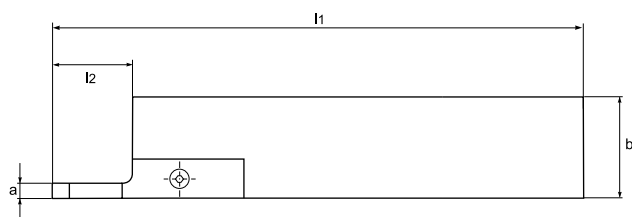
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CSGR 3225P4012R/L	4.0	32	25	170	19	•	•	SGR4012
CSGR 3225P5012R/L	5.0	32	25	170	19	•	•	SGR5012
CSGR 3225P6015R/L	6.0	32	25	170	19	•	•	SGR6015
CSGR 3225P7015R/L	7.0	32	25	170	19	•	•	SGR7015
CSGR 3225P8015R/L	8.0	32	25	170	19	•	•	SGR8015
CSGR 3225P1015R/L	10.0	32	25	170	19	•	•	SGR1015

CSSF

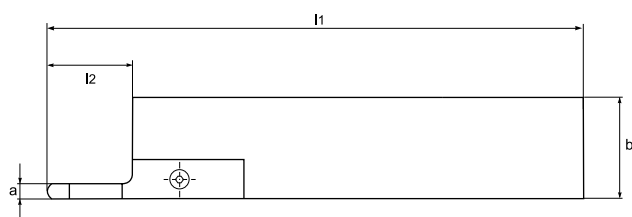
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CSSF3225P4012R/L	4.0	32	25	170	19	•	•	SSF4012
CSSF3225P5012R/L	5.0	32	25	170	19	•	•	SSF5012
CSSF3225P6015R/L	6.0	32	25	170	19	•	•	SSF6015
CSSF3225P7015R/L	7.0	32	25	170	19	•	•	SSF7015
CSSF3225P8015R/L	8.0	32	25	170	19	•	•	SSF8015
CSSF3225P1015R/L	10.0	32	25	170	19	•	•	SSF1015

CSSR

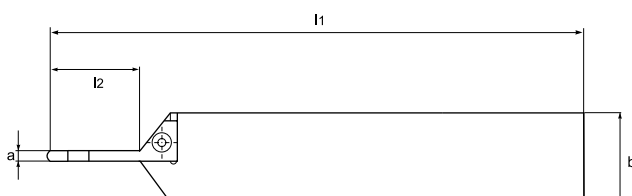
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CSSR 3225P4012R/L	4.0	32	25	170	19	•	•	SSR4012
CSSR 3225P5012R/L	5.0	32	25	170	19	•	•	SSR5012
CSSR 3225P6015R/L	6.0	32	25	170	19	•	•	SSR6015
CSSR 3225P7015R/L	7.0	32	25	170	19	•	•	SSR7015
CSSR3225P8015R/L	8.0	32	25	170	19	•	•	SSR8015
CSSR 3225P1015R/L	10.0	32	25	170	19	•	•	SSR1015

CSSRN

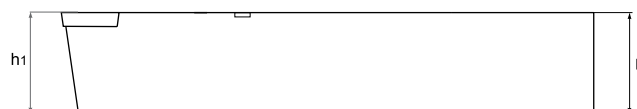
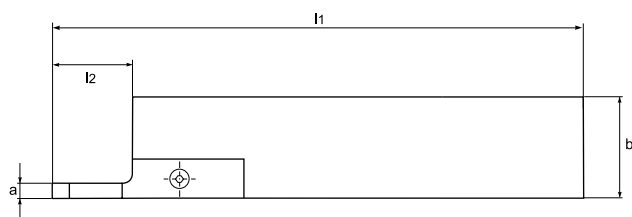
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK	INSERT
	a	h(h1)	b	l1	l2	N	
CSSR 4040R4012N5	4.0	40	40	200	5	•	SSR4012
CSSR 5040P4012N19	4.0	50	40	170	19	•	SSR4012

CWF

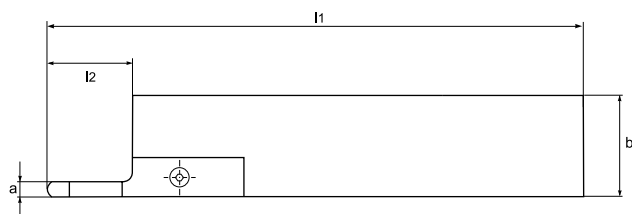
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CWF/R 2525M094050R/L	2.3	25	25	150	19	•	•	WFP094050 WFC094050
CWF/R 2525M125050R/L	3.1	25	25	150	19	•	•	WFP125050 WFC125050
CWF/R 2525M156050R/L	3.9	25	25	150	19	•	•	WFP156050 WFC156050
CWF/R 2525M187050R/L	4.7	25	25	150	19	•	•	WFP187050 WFC187050
CWF/R 2525M218075R/L	5.5	25	25	150	29	•	•	WFP218075 WFC218075
CWF/R 2525M250075R/L	6.3	25	25	150	29	•	•	WFP250075 WFC250075
CWF/R 2525M281075R/L	7.1	25	25	150	29	•	•	WFP281075 WFC281075
CWF/R 2525M312100R/L	7.9	25	25	150	38	•	•	WFP312100 WFC312100
CWF/R 2525M344100R/L	8.7	25	25	150	38	•	•	WFP344100 WFC344100
CWF/R 2525M375100R/L	9.5	25	25	150	38	•	•	WFP375100 WFC375100

CWR

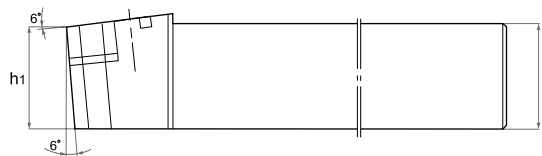
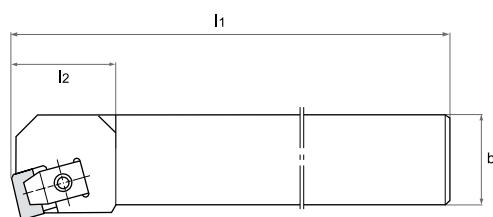
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK		INSERT
	a	h(h1)	b	l1	l2	R	L	
CWF/R 2525M094050R/L	2.3	25	25	150	19	•	•	WRP094050 WRC094050
CWF/R 2525M125050R/L	3.1	25	25	150	19	•	•	WRP125050 WRC125050
CWF/R 2525M156050R/L	3.9	25	25	150	19	•	•	WRP156050 WRC156050
CWF/R 2525M187050R/L	4.7	25	25	150	19	•	•	WRP187050 WRC187050
CWF/R 2525M218075R/L	5.5	25	25	150	29	•	•	WRP218075 WRC218075
CWF/R 2525M250075R/L	6.3	25	25	150	29	•	•	WRP250075 WRC250075
CWF/R 2525M281075R/L	7.1	25	25	150	29	•	•	WRP281075 WRC281075
CWF/R 2525M312100R/L	7.9	25	25	150	38	•	•	WRP312100 WRC312100
CWF/R 2525M344100R/L	8.7	25	25	150	38	•	•	WRP344100 WRC344100
CWF/R 2525M375100R/L	9.5	25	25	150	38	•	•	WRP375100 WRC375100

CLKN

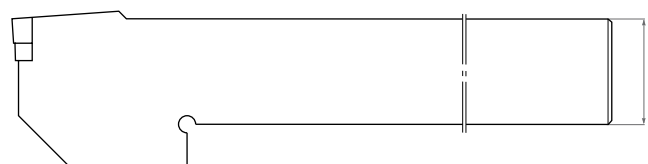
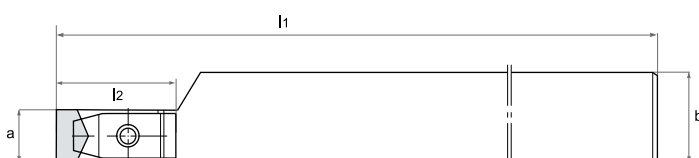
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)				STOCK		INSERT
	h(h1)	b	l1	l2	R	L	
CLKNR/L 6060V65A	60	60	400	70	•	•	LNJ6588
CLKNR/L 6060V66A	60	60	400	70	•	•	LNJ6688

CFLN

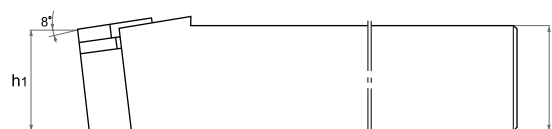
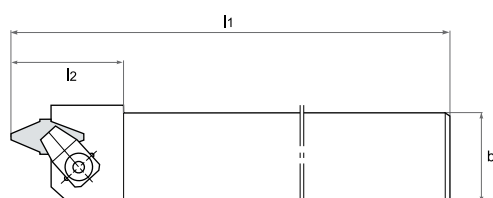
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)					STOCK	INSERT
	a	h(h1)	b	l1	l2	R	
CFLNN 6060U44A	14	60	60	350	80	•	F10537
CFLNN 5050T32A	12	50	50	300	75	•	F13941
CFLNN 4040R25A	7	40	40	200	40	•	F250723

CSVN

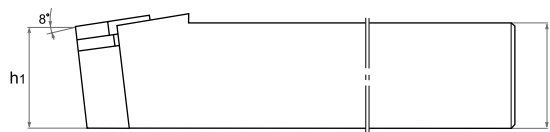
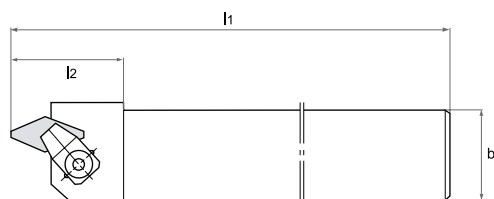
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)				STOCK	INSERT
	h(h1)	b	l1	l2	R	
CSVNN 3232P38A726	32	32	170	38	•	SVW38260
CSVNN 3232P38A732	32	32	170	40	•	SVW38320
CSVNN 3232P34A740	32	32	170	50	•	SVW34400

CGVN

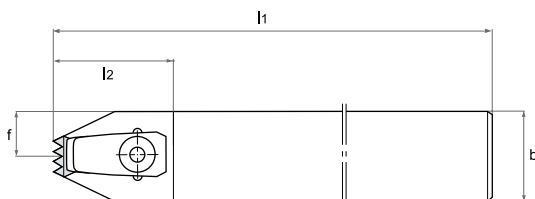
EXTERNAL TOOLHOLDER



ISO TYPE	Dimensions (mm)				STOCK	INSERT
	h(h1)	b	l1	l2	N	
CGVNN 3232P38A732	32	32	170	48	•	GVGN38320
CGVNN 3232P38A733	32	32	170	46	•	GVGN38335
CGVNN 3232P36A734	32	32	170	49	•	GVGN36340
CGVNN 3232P38A736	32	32	170	44	•	GVGN38360
CGVNN 3232P34A736	32	32	170	44	•	GVGN34360

CFLN

EXTERNAL TOOLHOLDER

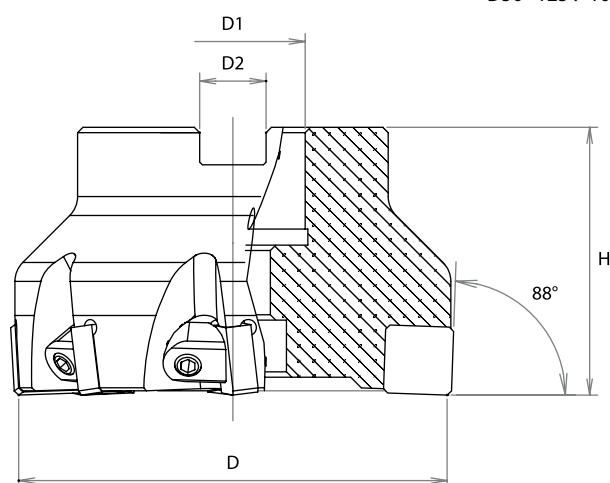


ISO TYPE	Dimensions (mm)					STOCK	INSERT
	a	h(h1)	b	l1	l2	R	
CINNN 2525M09A4F3	25	25	150	30	12.5	•	INGN160435F3
CINNN 2525M12A4F4	25	25	150	34	12.5	•	INGN220435F4
CINNN 3225P09A4F3	32	25	170	30	12.5	•	INGN160435F3
CINNN 3225P12A4F4	32	25	170	34	12.5	•	INGN220435F4

MC74

FACE MILLING CUTTER

Axial rake angle: -7°
 Radial rake angle: D40 : -12°
 D50~125 : -10°



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC74B04004016040SN09	40	16	8.4	40	4	SNCN 0904ZZT
MC74B05005022040SN09	50	22	10.4	40	5	
MC74B06306022040SN12	63	22	10.4	40	6	
MC74B08008025050SN12	80	25.4	9.5	50	8	
MC74B08008027050SN12	80	27	12.4	50	8	SNCN 1204ZZT SNCN 1204ZN
MC74B10010031050SN12	100	31.75	12.7	50	10	
MC74B10010032050SN12	100	32	14.4	50	10	
MC74B12512038063SN12	125	38.1	15.9	63	12	
MC74B12512040063SN12	125	40	16.4	63	12	

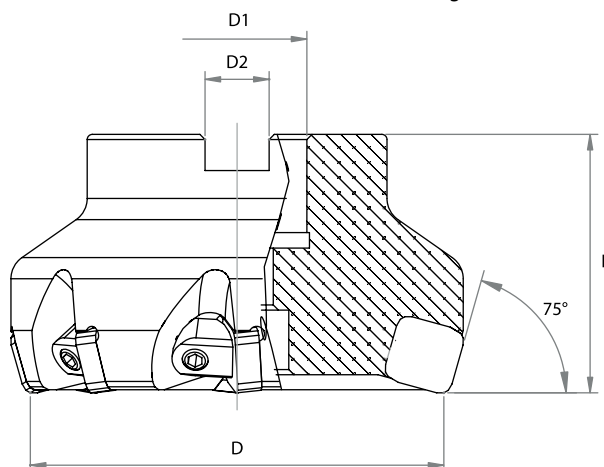
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

MC76

FACE MILLING CUTTER

Axial rake angle: -6°
Radial rake angle: -10°



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC76B05005022040SN12	50	22	10.4	40	5	SNCN 1204ENTN SNGN 1204
MC76B06306022040SN12	63	22	10.4	40	6	
MC76B08008025050SN12	80	25.4	9.5	50	8	
MC76B08008027050SN12	80	27	12.4	50	8	
MC76B10010031050SN12	100	31.75	12.7	50	10	
MC76B10010032050SN12	100	32	14.4	50	10	
MC76B12512038063SN12	125	38.1	15.9	63	12	
MC76B12512040063SN12	125	40	16.4	63	12	

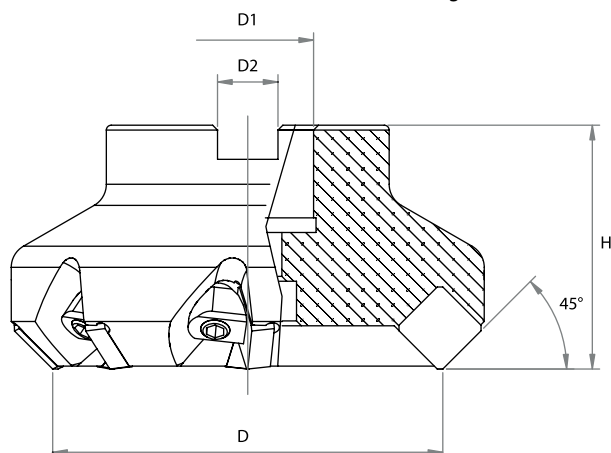
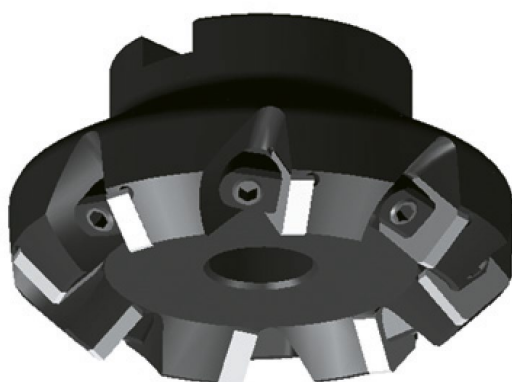
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

MC78

FACE MILLING CUTTER

Axial rake angle: -6°
Radial rake angle: -12°



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC78B05005022040SN12	50	22	10.4	40	5	SNCN 1204 AN SNCN 1204 ZN SNGN1204
MC78B06306022040SN12	63	22	10.4	40	6	
MC78B08008025050SN12	80	25.4	9.5	50	8	
MC78B08008027050SN12	80	27	12.4	50	8	
MC78B10010031050SN12	100	31.75	12.7	50	10	
MC78B10010032050SN12	100	32	14.4	50	10	
MC78B12512038063SN12	125	38.1	15.9	63	12	
MC78B12512040063SN12	125	40	16.4	63	12	

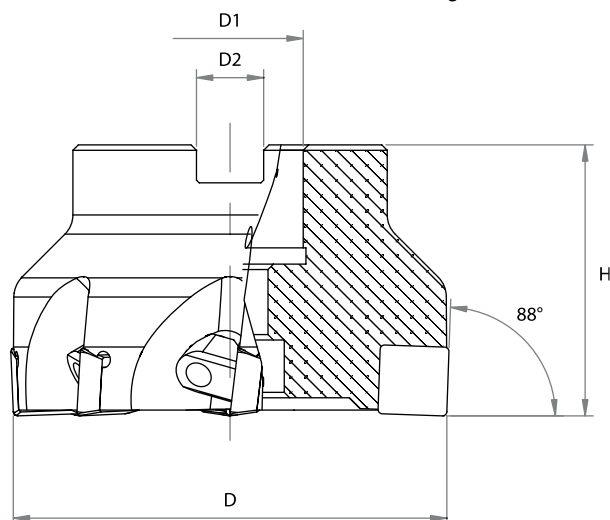
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(pm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

MC80

FACE MILLING CUTTER

Axial rake angle: $+7^\circ$
Radial rake angle: $+3^\circ$



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC80B05005022040SD12	50	22	10.4	40	5	SDCN 1204 .. T20
MC80B06306022040SD12	63	22	10.4	40	6	
MC80B08008025050SD12	80	25.4	9.5	50	8	
MC80B08008027050SD12	80	27	12.4	50	8	
MC80B10010031050SD12	100	31.75	12.7	50	10	
MC80B10010032050SD12	100	32	14.4	50	10	
MC80B12512038063SD12	125	38.1	15.9	63	12	
MC80B12512040063SD12	125	40	16.4	63	12	

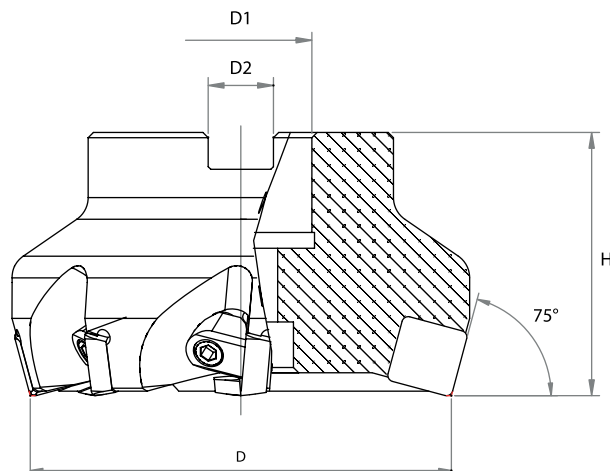
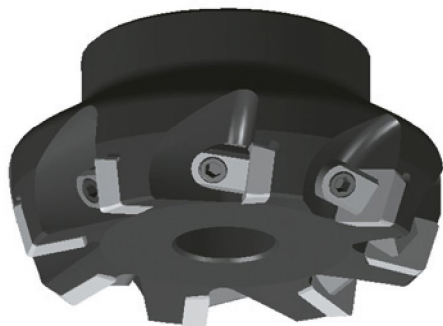
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(pm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

MC82

FACE MILLING CUTTER

Axial rake angle: $+7^{\circ}$
Radial rake angle: $+3^{\circ}$



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC82B05005022040SP12	50	22	10.4	40	5	SPCN 1204 ..T15 SPKN 1204SPEDTR
MC82B06306022040SP12	63	22	10.4	40	6	
MC82B08008025050SP12	80	25.4	9.5	50	8	
MC82B08008027050SP12	80	27	12.4	50	8	
MC82B10010031050SP12	100	31.75	12.7	50	10	
MC82B10010032050SP12	100	32	14.4	50	10	
MC82B12512038063SP12	125	38.1	15.9	63	12	
MC82B12512040063SP12	125	40	16.4	63	12	

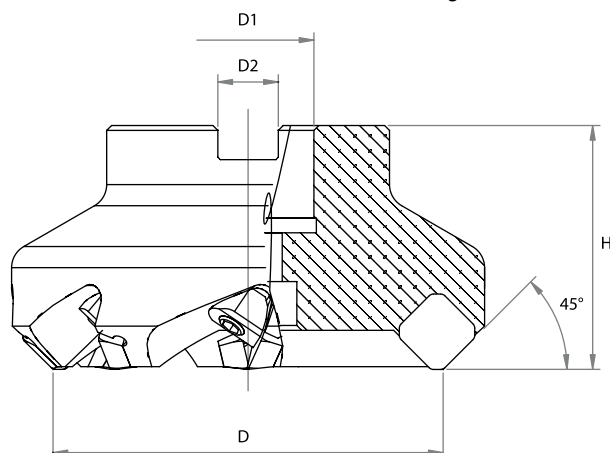
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

MC84/ MC85

FACE MILLING CUTTER

Axial rake angle: +19°
Radial rake angle: -6°



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC84B05005022040SE12	50	22	10.4	40	5	SEAN 1204 AFTN W25 SEAN 1204 T25
MC84B06306022040SE12	63	22	10.4	40	6	
MC84B08008025050SE12	80	25.4	9.5	50	8	
MC84B08008027050SE12	80	27	12.4	50	8	
MC84B10010031050SE12	100	31.75	12.7	50	10	
MC84B10010032050SE12	100	32	14.4	50	10	
MC85B05005022040SE12	50	22	10.4	40	5	SEAN 1203 NWAFTN SEAN 1203 AFTN
MC85B06306022040SE12	63	22	10.4	40	6	
MC85B08008025050SE12	80	25.4	9.5	50	8	
MC85B08008027050SE12	80	27	12.4	50	8	
MC85B10010031050SE12	100	31.75	12.7	50	10	
MC85B10010032050SE12	100	32	14.4	50	10	

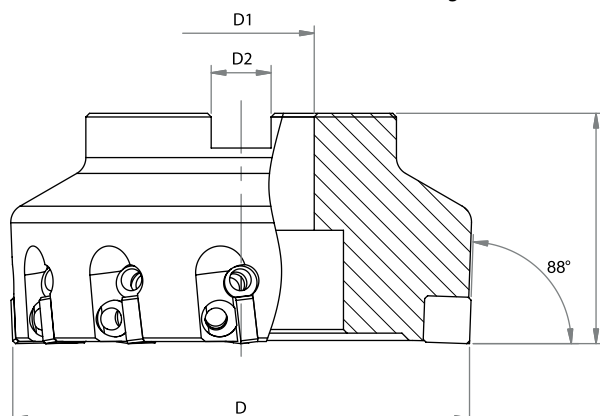
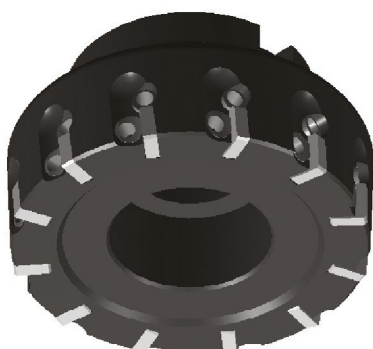
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(µm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5

MC86

FACE MILLING CUTTER

Axial rake angle: -7°
Radial rake angle: -10°



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC86B06306022040SN12	63	22	10.4	40	6	SNCN 1204 ZZT SNCN 1204 ZN
MC86B08008025050SN12	80	25.4	9.5	50	8	
MC86B08008027050SN12	80	27	12.4	50	8	
MC86B10010031050SN12	100	31.75	12.7	50	10	
MC86B10010032050SN12	100	32	14.4	50	10	
MC86B12512038063SN12	125	38.1	15.9	63	12	
MC86B12512040063SN12	125	40	16.4	63	12	

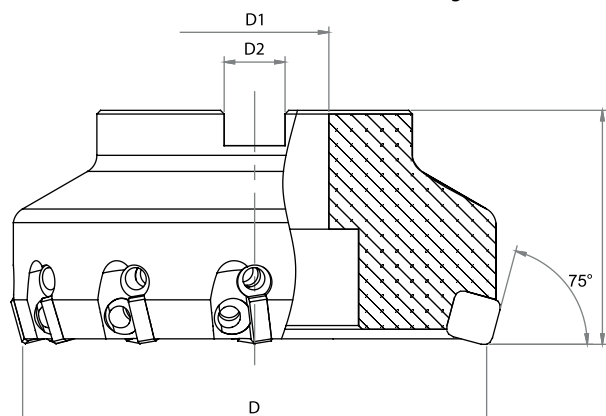
Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(pm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5
Finishing	190~210	200~900	0.05~0.10	0.1~0.5	0.8
Finishing	220~240	200~700	0.05~0.10	0.1~0.5	0.8
Finishing	250~280	200~500	0.05~0.10	0.1~0.5	0.8

MC88

FACE MILLING CUTTER

Axial rake angle: -6°
Radial rake angle: -10°



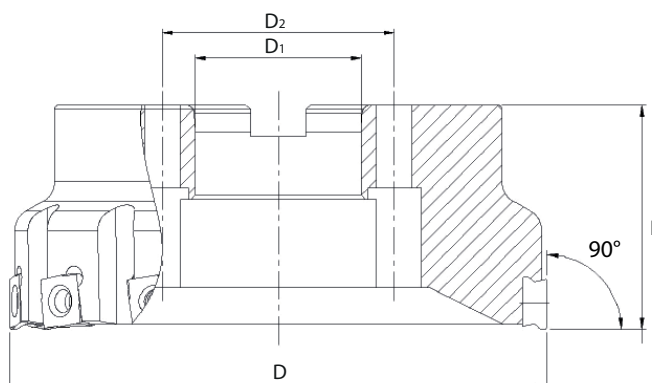
ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC88B06306022040SN12	63	22	10.4	40	6	SNCN 1204 ENTN SNGN 1204
MC88B08008025050SN12	80	25.4	9.5	50	8	
MC88B08008027050SN12	80	27	12.4	50	8	
MC88B10010031050SN12	100	31.75	12.7	50	10	
MC88B10010032050SN12	100	32	14.4	50	10	
MC88B12512038063SN12	125	38.1	15.9	63	12	
MC88B12512040063SN12	125	40	16.4	63	12	

Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(pm)
Roughing	190~210	800~2,000	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	220~240	500~1,500	0.08~0.15	2.0~5.0	6.3~12.5
Roughing	250~280	300~1,200	0.08~0.15	2.0~5.0	6.3~12.5
Finishing	190~210	200~900	0.05~0.10	0.1~0.5	0.8
Finishing	220~240	200~700	0.05~0.10	0.1~0.5	0.8
Finishing	250~280	200~500	0.05~0.10	0.1~0.5	0.8

MC90

FACE MILLING CUTTER



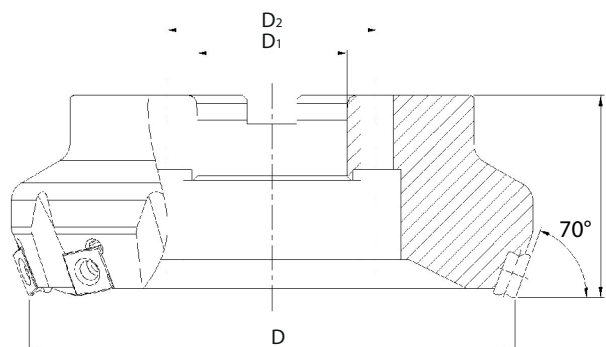
ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC90B05005022040SP12	50	22	-	40	5	SPHX1205NR
MC90B05105019045SP12	50.8	19.05	-	44.5	5	
MC90B06307022040SP12	63	22	-	40	7	
MC90B06407019045SP12	63.5	19.05	-	44.5	7	
MC90B08008027050SP12	80	27	-	50	8	
MC90B07608025045SP12	76.2	25.4	-	44.5	8	
MC90B10012032050SP12	100	32	-	50	12	
MC90B10212038045SP12	101.6	38.1	-	44.5	12	
MC90B12515040063SP12	125	40	-	63	15	
MC90B12715038061SP12	127.0	38.1	-	60.5	15	
MC90B16018040063SP12	160	40	66.7	63	18	
MC90B15218051061SP12	152.4	50.8	101.6	60.5	18	
MC90B20024060063SP12	200	60	101.6	63	24	
MC90B20324064061SP12	203.2	63.5	101.6	60.5	24	
MC90B25030060063SP12	250	60	101.6	63	30	
MC90B25430064061SP12	254.0	63.5	101.6	60.5	30	
MC90B08006027050SP15	80	27	-	50	6	SPHX15T6 NR
MC90B07606025045SP15	76.2	25.4	-	44.5	6	
MC90B10008032050SP15	100	32	-	50	8	
MC90B10208032045SP15	101.6	31.75	-	44.5	8	
MC90B12510040063SP15	125	40	-	63	10	
MC90B12710038061SP15	127	38.1	-	60.5	10	
MC90B16014040063SP15	160	40	66.7	63	14	
MC90B15214051061SP15	152.4	50.8	66.7	60.5	14	

Recommended Cutting Conditions

Process	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm) max
Gray Cast Irons	500~1,400	0.15~0.25	~5.0
Ductile Cast Irons	450~900	0.10~0.20	~3.0

MC92

FACE MILLING CUTTER



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC92B05005022040SP12	50	22	-	40	5	SPHX1205 ER
MC92B05105019045SP12	50.8	19.05	-	44.5	5	
MC92B06307022040SP12	63	22	-	40	7	
MC92B06407019045SP12	63.5	19.05	-	44.5	7	
MC92B08008027050SP12	80	27	-	50	8	
MC92B07608025045SP12	76.2	25.4	-	44.5	8	
MC92B10012032050SP12	100	32	-	50	12	
MC92B10212038045SP12	101.6	38.1	-	44.5	12	
MC92B12515040063SP12	125	40	-	63	15	
MC92B12715038061SP12	127.0	38.1	-	60.5	15	
MC92B16018040063SP12	160	40	66.7	63	18	
MC92B15218051061SP12	152.4	50.8	101.6	60.5	18	
MC92B20024060063SP12	200	60	101.6	63	24	
MC92B20324064061SP12	203.2	63.5	101.6	60.5	24	
MC92B25030060063SP12	250	60	101.6	63	30	
MC92B25430064061SP12	254.0	63.5	101.6	60.5	30	
MC92B08007027050SP15	80	27	-	50	6	SPHX15T6ER
MC92B07607025045SP15	76.2	25.4	-	44.5	6	
MC92B10009032050SP15	100	32	-	50	8	
MC92B10209032045SP15	101.6	31.75	-	44.5	8	
MC92B12512040063SP15	125	40	-	63	10	
MC92B12712038061SP15	127	38.1	-	60.5	10	
MC92B16016040063SP15	160	40	66.7	63	14	
MC92B15216051061SP15	152.4	50.8	66.7	60.5	14	

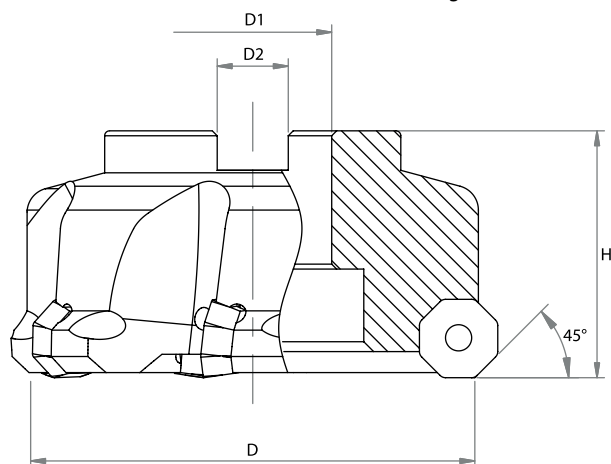
Recommended Cutting Conditions

Process	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm) max
Gray Cast Irons	500~1,400	0.15~0.25	~5.0
Ductile Cast Irons	450~900	0.10~0.20	~3.0

MC94

FACE MILLING CUTTER

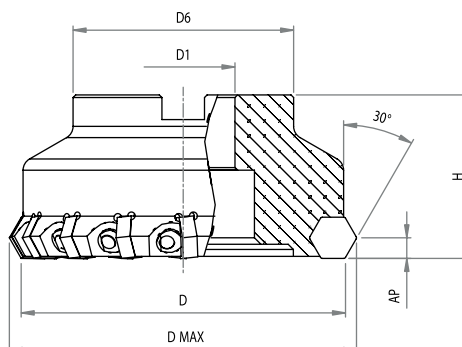
Axial rake angle: $+3^{\circ}$
Radial rake angle: $+7^{\circ}$



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC94B06305022040OE07	63	22	10.40	40	5	OEGB 0704
MC94B08006027050OE07	80	27	12.40	50	6	
MC94B10007032050OE07	100	32	14.40	50	7	

MC96

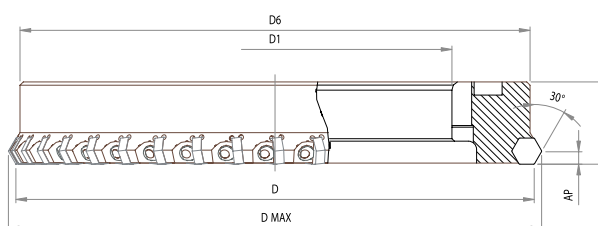
FACE MILLING CUTTER



ORDER CODE	Dimensions (mm)					Insert No.	AP max	Insert
	D	D(max)	D1	Ds	H			
MC96B08008025050HN09	80	88.7	25.4	52	50	8	8	HNEN090520 HNEN090530 HNEN090508ANSN
MC96B08008027050HN09	80	88.7	27	58	50	8	8	
MC96B10010031050HN09	100	108.7	31.75	60	50	10	8	
MC96B10010032050HN09	100	108.7	32	60	50	10	8	
MC96B12516038063HN09	125	133.7	38.1	80	63	16	8	
MC96B12516040063HN09	125	133.7	40	85	63	16	8	
MC96B16020051063HN09	160	168.7	50.8	99	63	20	8	
MC96B16020040063HN09	160	168.7	40	85	63	20	8	
MC96B20026048063HN09	200	208.7	47.625	128.57	63	26	8	
MC96B20026060063HN09	200	208.7	60	140	63	26	8	

MC97

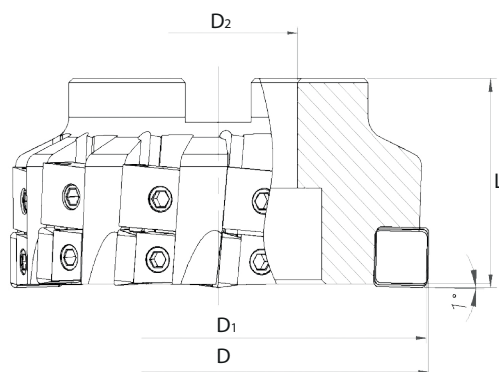
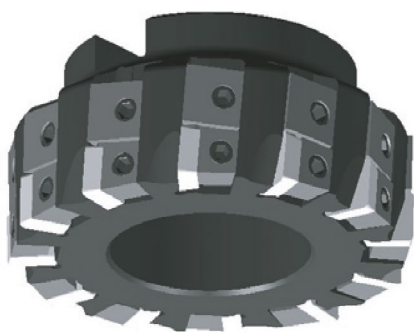
FACE MILLING CUTTER



ORDER CODE	Dimensions (mm)				Insert No.	AP max	Insert
	D	D(max)	D1	H			
MC97B25030160050HN09	250	258.7	160.02	50	30	8	HNEN090520 HNEN090530 HNEN090508ANSN
MC97B31540215050HN09	315	323.7	215.02	50	40	8	

MC20

FACE MILLING CUTTER



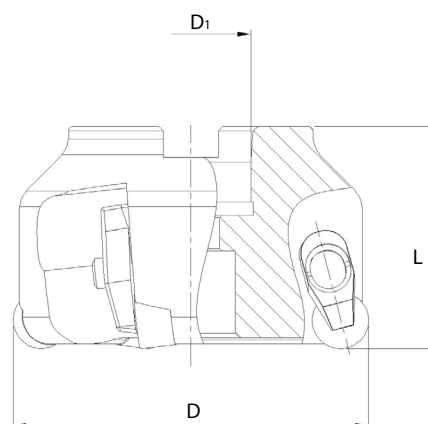
ORDER CODE	Dimensions (mm)				Insert per set	Insert No.	Insert
	D	D1	D2	H			
MC20B07609075048SP12	76.20	75.20	25.40	47.60	3	9	SPCN 1204 T15
MC20B10212101048SP12	101.60	100.60	38.10	47.60	3	12	
MC20B12715126048SP12	127.00	126.00	38.10	47.60	3	15	
MC20B15218151048SP12	152.40	151.40	50.80	47.60	3	18	

Recommended Cutting Condition for **Gray Cast Iron**

Process	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)	Surface Quality Ra(μm)
Light Rough & Finish	190~310	240~1,200	0.08~0.60	2.0~3.80	6.3~12.5

M800

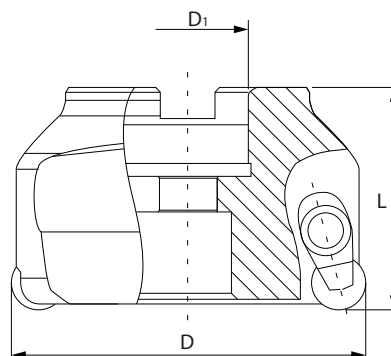
FACE MILLING CUTTER



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
M800A0500422040RN124	50	10.4	22	50	4	RNGN120400
M800A0510419050RN124	50.8	7.9	19.05	50	4	
M800A0630422050RN124	63	10.4	22	50	4	
M800A0640419050RN124	63.5	7.9	19.05	50	4	
M800A0800527050RN124	80	12.4	27	50	5	
M800A0760525050RN124	76.2	9.5	25.4	50	5	
M800A1000632050RN124	100	14.4	32	50	6	
M800A1020632050RN124	101.6	12.7	31.75	50	6	
M800A0500422050RN127	50	10.4	22	50	4	RNGN120700
M800A0510419050RN127	50.8	7.9	19.05	50	4	
M800A0630422050RN127	63	10.4	22	50	4	
M800A0640419050RN127	63.5	7.9	19.05	50	4	
M800A0800527050RN127	80	12.4	27	50	5	
M800A0760525050RN127	76.2	9.5	25.4	50	5	
M800A1000632050RN127	100	14.4	32	50	6	
M800A1020632050RN127	101.6	12.7	31.75	50	6	

M822

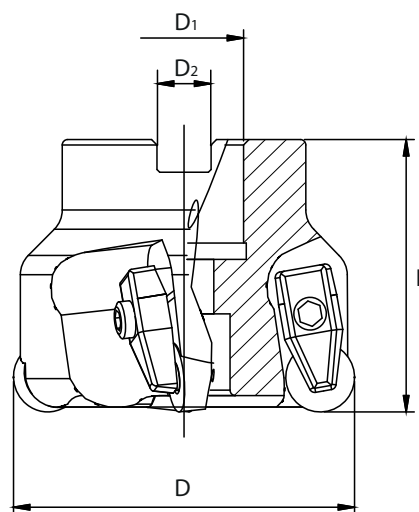
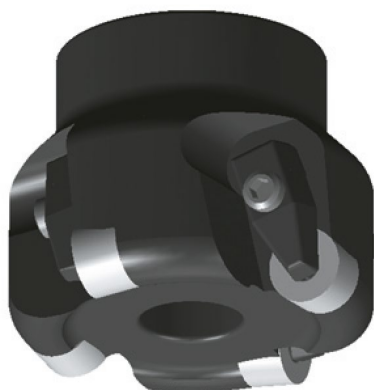
FACE MILLING CUTTER



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
M882A05004022050RN124	50	10.4	22	50	4	RPGN 120400
M882A05104019050RN124	50.8	7.9	19.05	50	4	
M882A06304022050RN124	63	10.4	22	50	4	
M882A06404019050RN124	63.5	7.9	19.05	50	4	
M882A08005027050RN124	80	12.4	27	50	5	
M882A07605025050RN124	76.2	9.5	25.4	50	5	
M882A10006032050RN124	100	14.4	32	50	6	
M882A10206032050RN124	101.6	12.7	31.75	50	6	

MC26

FACE MILLING CUTTER



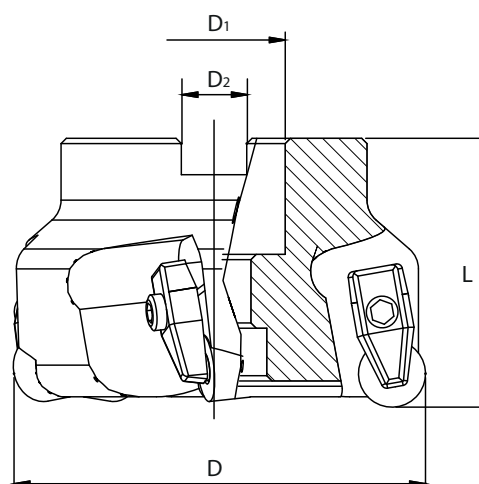
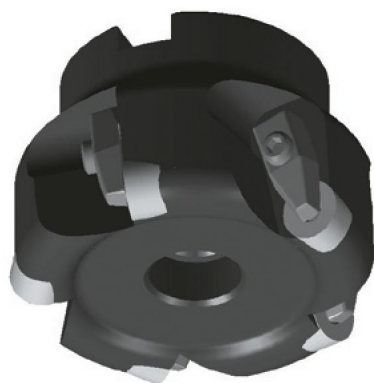
ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC26B05003019050RN12	50	19.05	7.9	50	3	RNGX 1207 DP
MC26B05003022050RN12	50	22	10.4	50	3	
MC26B06304019050RN12	63	19.05	12.7	50	4	
MC26B06304022050RN12	63	22	10.4	50	4	
MC26B08005025050RN12	80	25.4	9.5	50	5	
MC26B08005027050RN12	80	27	12.4	50	5	
MC26B10006031050RN12	100	31.75	12.7	50	6	
MC26B10006032050RN12	100	32	14.4	50	6	

Recommended Cutting Condition

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)
Iron-base, Heat-resistant alloys	135~328	300~900	0.05~0.13	6.35
Cobalt-base, Heat-resistant alloys	150~425	270~1,200	0.05~0.13	6.35
Nickel base, Heat-resistant alloys	140~475	270~1,200	0.05~0.13	6.35
PH Stainless steels	135~450	520~700	0.08~0.10	6.35

MC28

FACE MILLING CUTTER



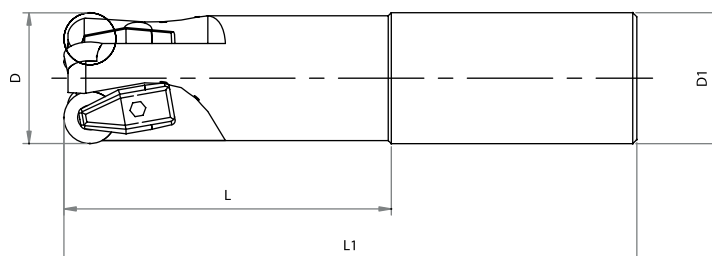
ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	D2	H		
MC28B05003019050RP12	50	19.05	7.9	50	3	RPGX1204 DP
MC28B05003022050RP12	50	22	10.4	50	3	
MC28B05004019050RP12	50	19.05	7.9	50	4	
MC28B05004022050RP12	50	22	10.4	50	4	
MC28B06304019063RP12	63	19.05	7.9	63	4	
MC28B06304022063RP12	63	22	10.4	63	4	
MC28B08005025050RP12	80	25.4	9.5	50	5	
MC28B08005027050RP12	80	27	12.4	50	5	
MC28B10006031050RP12	100	31.75	12.7	50	6	
MC28B10006032050RP12	100	32	14.4	50	6	

Recommended Cutting Condition

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)
Iron-base, Heat-resistant alloys	135~328	300~900	0.05~0.13	6.35
Cobalt-base, Heat-resistant alloys	150~425	270~1,200	0.05~0.13	6.35
Nickel base, Heat-resistant alloys	140~475	270~1,200	0.05~0.13	6.35
PH Stainless steels	135~450	520~700	0.08~0.10	6.35

M777

RADIOUS ENDMILL



ORDER CODE	Dimensions (mm)				Insert No.	Insert
	D	D1	L	L1		
M777B03202T32140RP12	32	32	80	140	2	RPGX1204 DP
M777B03203T31100RP12	32	31.75	40	100	3	
M777B03203T32100RP12	32	32	40	100	3	
M777B03203T31140RP12	32	31.75	80	140	3	
M777B03203T32140RP12	32	32	80	140	3	
M777B03803T38100RP12	38	38.1	50	100	3	
M777B03803T32100RP12	38	32	50	100	3	
M777B03803T38140RP12	38	38.1	90	140	3	
M777B03803T32140RP12	38	32	90	140	3	

Recommended Cutting Condition

Work - Piece	Hardness (HB)	Cutting Speed Vc(m/min)	Feed fz(mm/z)	Depth ap(mm)
Iron-base, Heat-resistant alloys	135~328	300~900	0.05~0.13	6.35
Cobalt-base, Heat-resistant alloys	150~425	270~1,200	0.05~0.13	6.35
Nickel base, Heat-resistant alloys	140~475	270~1,200	0.05~0.13	6.35
PH Stainless steels	135~450	520~700	0.08~0.10	6.35



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