2025-2026
TURNING TOOLS

GESAC

IMPORT BENDEZU
IMPORTACIONES INDUSTRIALES BENDEZU E.I.R.L.

GESAC Profile

Xiamen Golden Egret Special Alloy Co., Ltd. (GESAC), founded in 1989, is a national high-tech enterprise with Chinese-foreign joint investment. It is also a key member of Xiamen Tungsten Co., Ltd., a state-owned listed company. GESAC is committed to the research, development and production of tungsten series products such as high-quality tungsten powder materials, cemented carbide and precision cutting tools, as well as the provision of professional solutions for the industry. It is a renowned supplier of tungsten powder, cemented carbide and cutting tools.

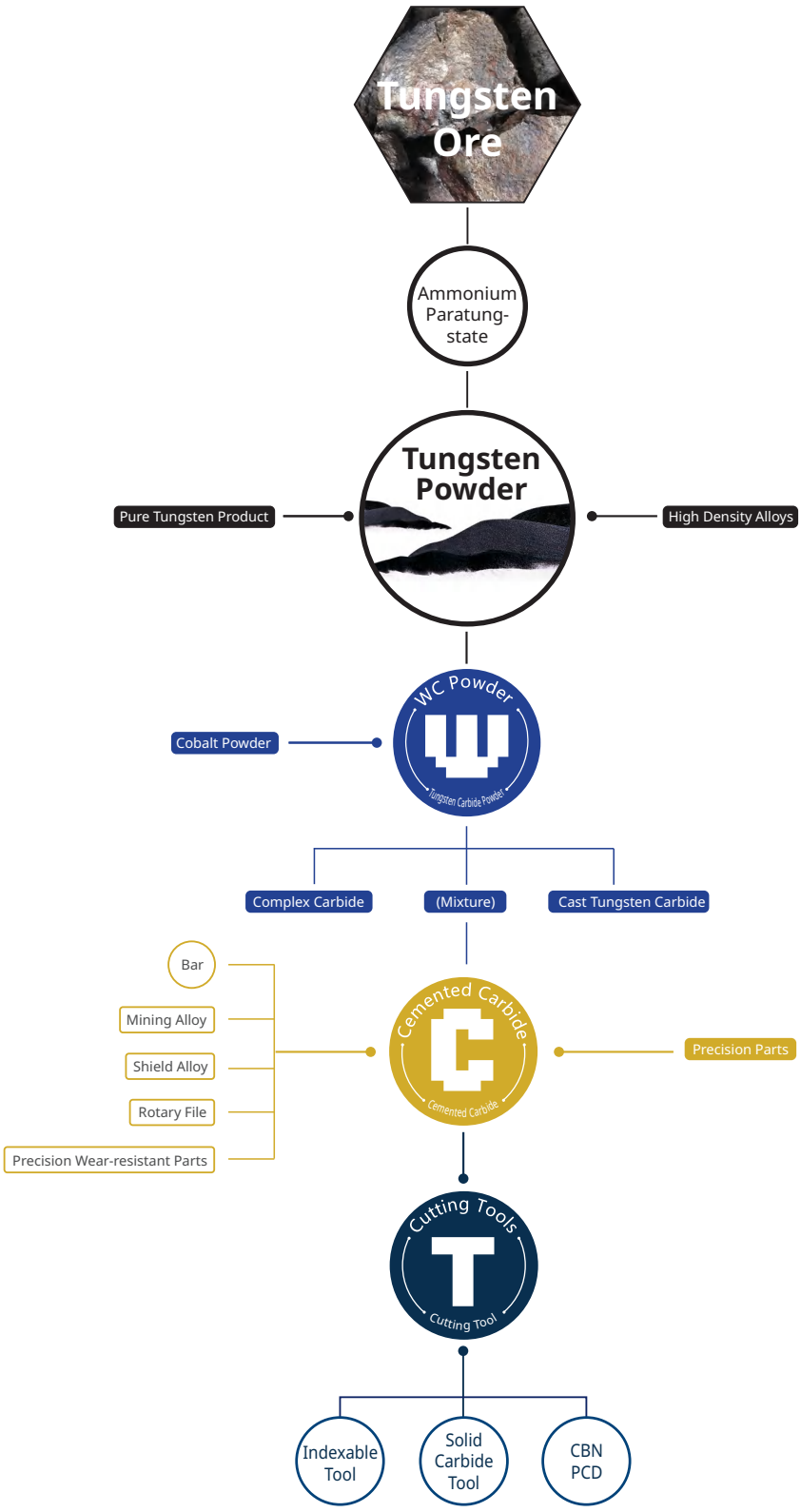
Relying on the product integration technology research and development of the complete tungsten industry chain and the practical and innovative management concepts, GESAC has always maintained a strong momentum of development. It provides global users with tungsten powder products and services with the highest cost performance, and offers excellent products and comprehensive solutions for solving the problems of high hardness, high temperature resistance and wear resistance in the modern industrial field. Its customers are distributed around the world, enjoying a high reputation both at home and abroad.

GESAC currently has more than 3,000 employees, five production bases, four overseas sales companies and one enterprise technology center. It has independently undertaken and completed a number of projects such as the "National Science and Technology Support Program Projects", the "National Science and Technology Major Projects", the "National Torch Program Projects", the "National Key New Product" development projects and key research topics at the provincial and municipal levels. It has been rated as a "Backbone Enterprise in Strategic Emerging Industries", an "Innovative Enterprise" and an "Advanced Technology Enterprise". It has won many patents and awards, including the second prize of the National Science and Technology Progress Award. Its cutting tools have obtained more than 400 patents, including invention patents, utility model patents and design patents.

GESAC Factories Distribution

Product Chain

GESAC has a complete tungsten product chain ranging from ore mining to tungsten powder, cemented carbide products and precision cutting tools.



GESAC

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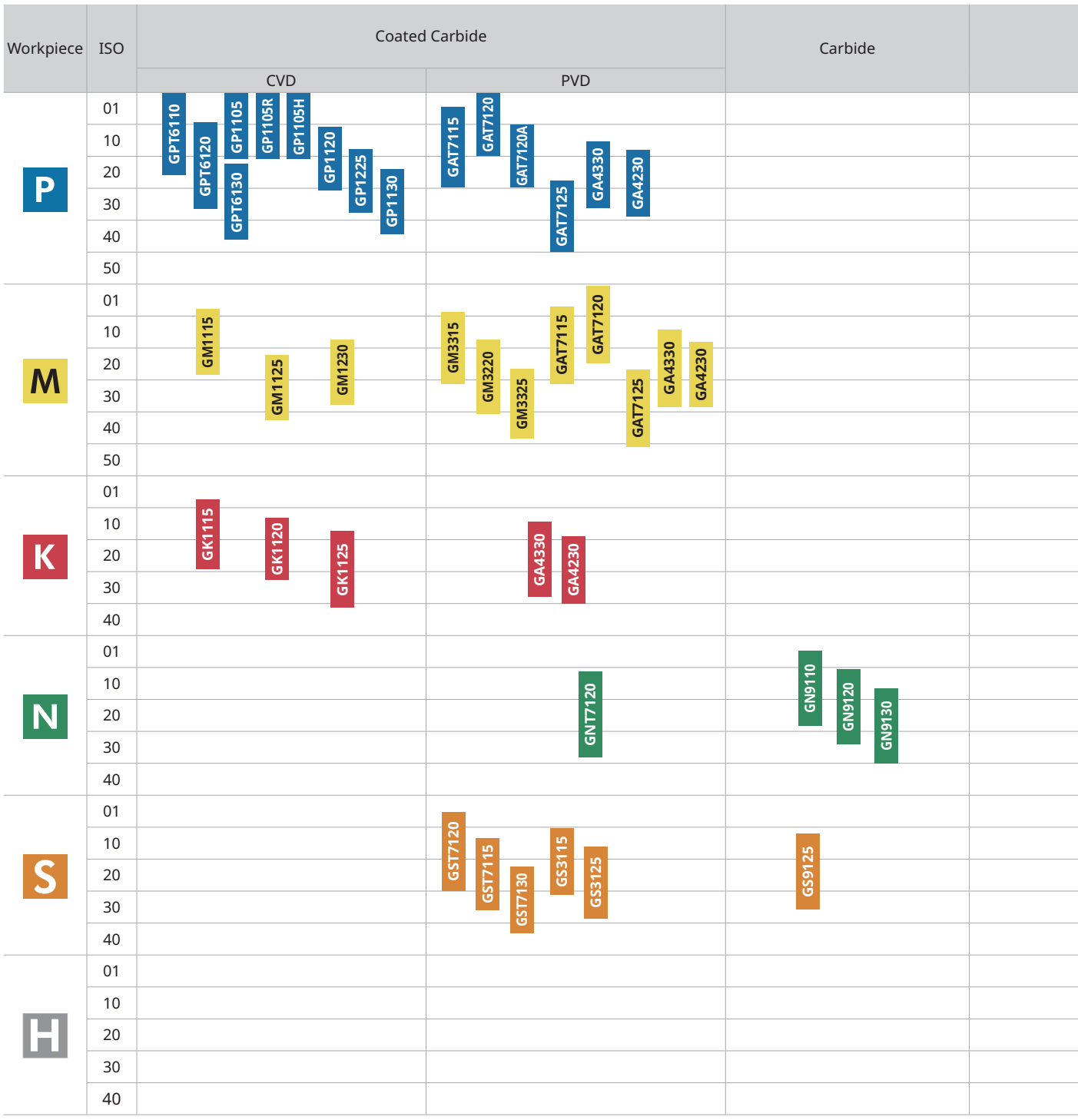
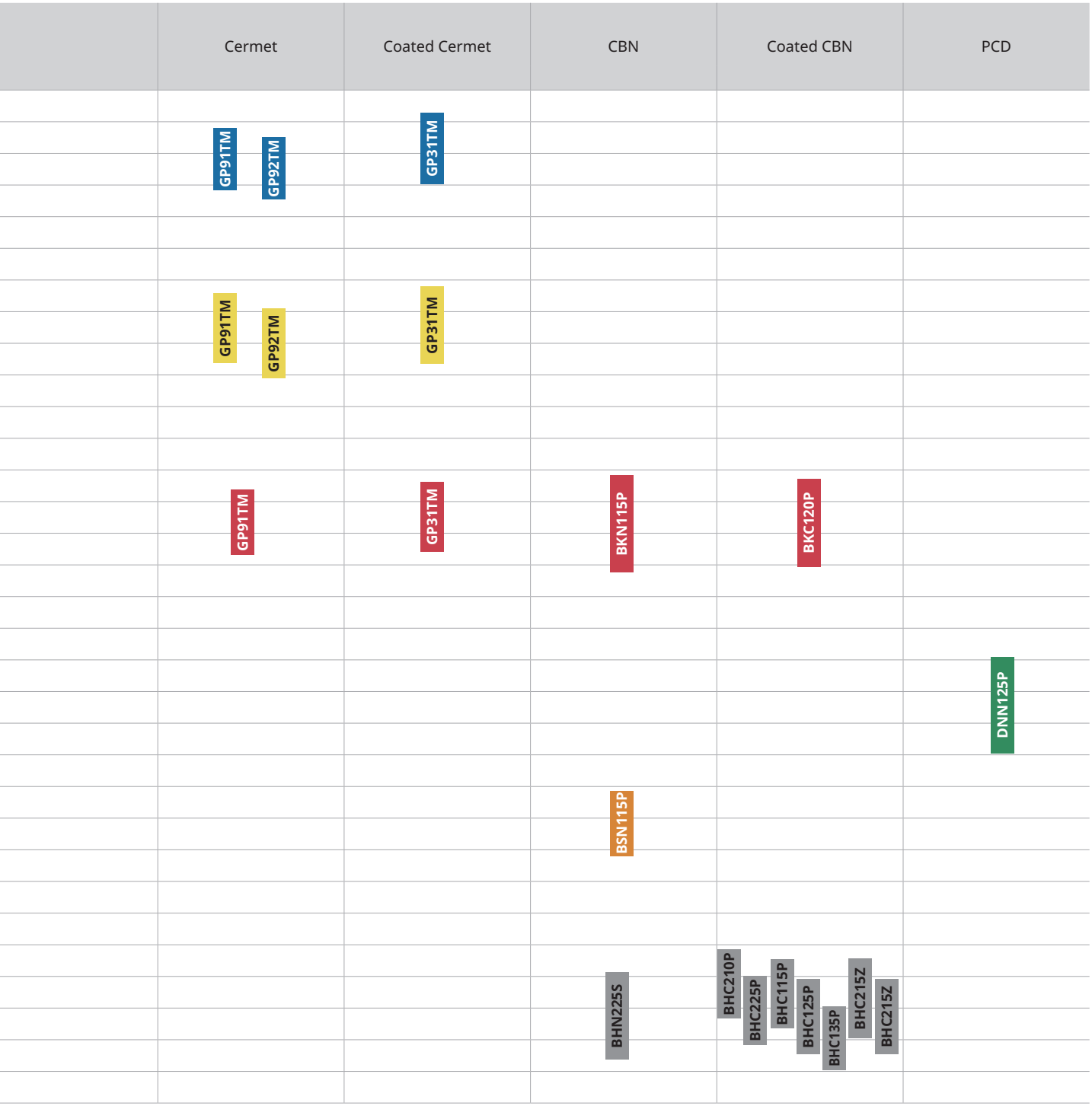
A

INSERT MATERIAL

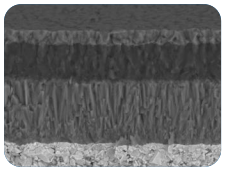
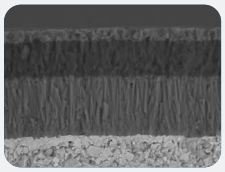
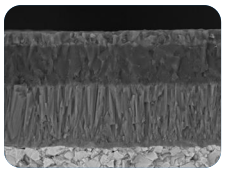
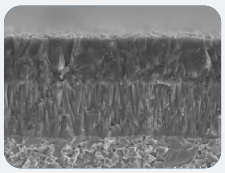
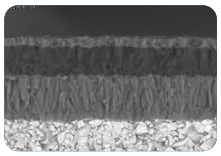
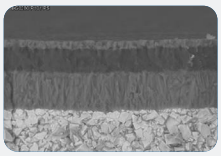
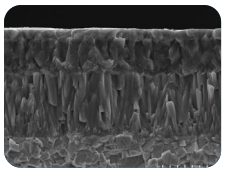
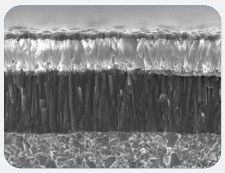
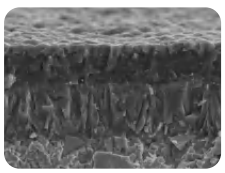
Application Summary of Turning Grades



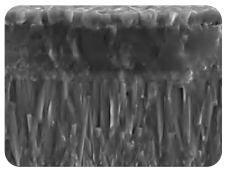
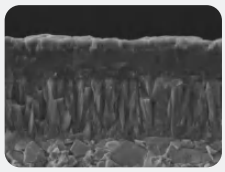
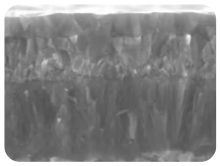
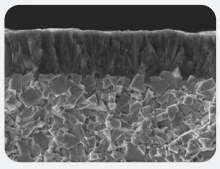
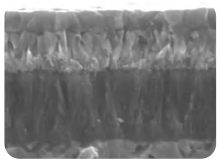
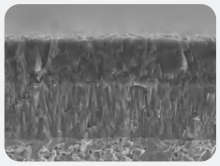
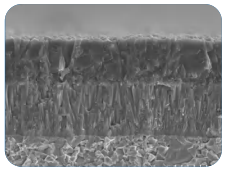
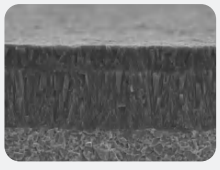

Cermet
Coated Cermet
CBN
Coated CBN
PCD
GP91TM
GP92TM
GP31TM
GP91TM
GP92TM
GP31TM
GP91TM
GP31TM
BKN115P
BKC120P
DNN125P
BSN115P
BHN225S
BHC210P
BHC225P
BHC115P
BHC125P
BHC135P
BHC215Z
BHC215Z

Turning Grades

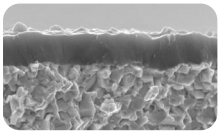
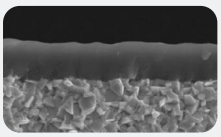
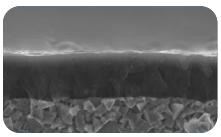
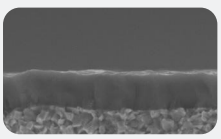
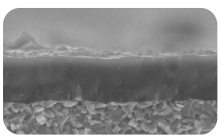
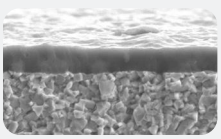
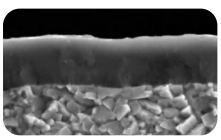
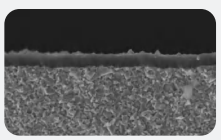
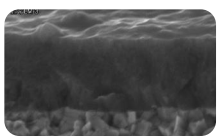
CVD Coated Carbide

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
P	GPT6110	Champagne		• Brand new CVD coating with special post-treatment technology and high hot hardness cemented carbide substrate, provides the grade with superior adhesion resistance and excellent wear resistance. • Recommended for continuous conditions of carbon steel s and alloy steels at high speeds.
	GPT6120	Champagne		• Brand new CVD coating with unique low-stress post-treatment, matching cemented carbide substrate with perfect thermo-plastic deformation resistance, guarantees the high wear resistance and toughness. • Recommended for carbon steel sand alloy steels in wide cutting conditions at medium to high speeds.
	GPT6130	Champagne		• New cemented carbide with special cobalt enrichment controlling technology, combined with new CVD coating and advanced post-treatment, greatly improves the edge breakage. • Recommended for most Intermittent conditions of carbon steels and alloy steels at medium speeds.
	GP1105	Ash Black		• Combining the ultra fine Al203and MT-TiCN coatings with gradient cemented carbide substrate, provides the new grade with excellent wear resistance. • Recommended for stable finishing turning of carbon steels&alloy steels, including steels parting and grooving processing.
	GP1105R	Yellow		• The substrate with high resistance to thermal plastic distortion is combined with a moderately thick tough CVD coating, possessing extremely high heat resistance. Meanwhile, specific processes are adopted to conduct uniform and meticulous post-treatment on the cutting edge to ensure the stable machining of the product. • Suitable for heavy duty working conditions with a high material removal rate, and performs particularly well in applications such as dry cutting and high-hardness steel.
	GP1105H	Yellow		• The special design of the tough substrate, combined with the new heat-insulating coating for heavy duty machining, can effectively resist the thermal crack propagation on the cutting edge under wet cutting conditions and ensure the stability of the cutting process. • Suitable for heavy duty working conditions with a high material removal rate, especially to wet cutting conditions for medium and low hardness steel.
	GP1115	Yellow		• Ultra fine MT-TicN and Al203 coatings, matching smooth indexed TiN layer and good wear resistant substrate, ensures the grade with long service life. • Recommended for stable finishing to semi-finishing of carbon steel sand alloy steels.
	GP1120	Golden		• Ultra fine MT-Tic NandA203 coatings, matching smooth indexed TiN layer and good wear resistant substrate, ensures the grade with long service life. • Recommended for stable finishing to semi-finishing of carbon steel sand alloy steels.
	GP1225	Yellow		• Combined columnar grain MT-TicN, Al203 and TiN coating with a gradient substrate provides excellent wear resistance and toughness. • Recommended for semi-finishing to medium roughing of steels and alloy steels.

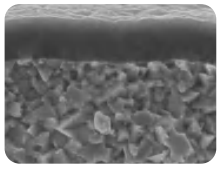
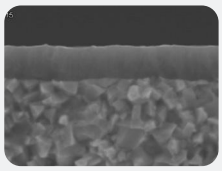
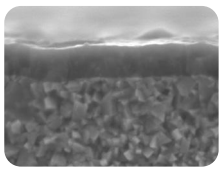
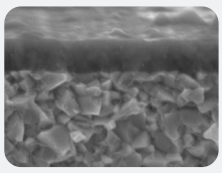
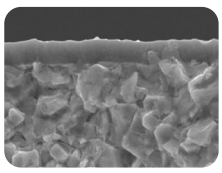
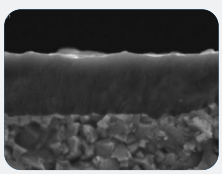
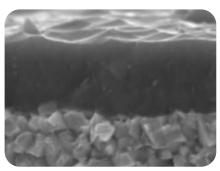
CVD Coated Carbide

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
P	GP1130	Golden		• Fine MT-TicN and tough Al203 in combination with high toughness gradient substrate ensures the good resistance to cutting edge breakage. • Recommended for roughing of carbon steel sand alloy steel sat low and medium cutting speeds.
	GP1135	Yellow		• Well controlled MT-TicN, Al203 and TiN coating with well wear resistance combined with a gradient carbide substrate improves the edge security and high toughness. • Recommended for roughing of carbon steel sand alloy steel sat high metal removal rates.
M	GM1115	Shiny Golden		• Combined nano-columnar MT-TiCN, thin Al2O3, bright TiN and a gradient substrate gives excellent wear resistance, low-stress post-treatment provides less built-up-edge and longer tool life. • Recommended for finishing to semi-finishing of stainless steels.
	GM1125	Shiny Golden		• The combination of a tough carbide alloy matrix and TiCN/TiN coating provides excellent wear resistance. Special surface treatment technology that effectively reduces cutting resistance and suppresses chip buildup, tool life can be extended, making it suitable for semi-finishing stainless steel.
	GM1230	Shiny Golden		• Thiner Al203 layer and nano-columar MT-TiCN layer with a gradient substrate. Post-treatment to reduce cutting force and less built-up edge, which in order to enhance the stability. • Recommended for continuous and lightly interrupt processing in stainless steel.
K	GK1115	Ash Black		• High wear resistant substrate with fine grain, combined with thick Al2O3 coating and smoothy post-treatment, provides the grade with outstanding wear resistance and high edge toughness on processing grey cast irons. • Recommended for finishing machining of grey cast irons.
	GK1120	Ash Black		• Thicker Al2O3 coating combined with fine grained substrate provides high edge security and toughness. • Recommended for finishing to semi-finishing of nodular cast irons.
	GK1125	Ash Black		• Thick MT-TiCN coating and ultrafine Al2O3, matching high wear resistant cemented carbide substrate with fine grain, helps to improve toughness and great wear resistance. • Recommended for interrupted roughing of nodular cast irons.

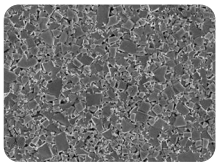
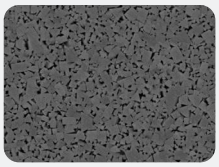
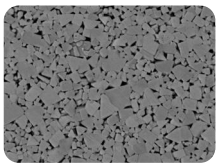
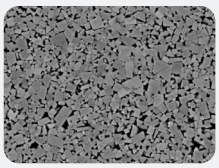
PVD Coated Carbide

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
M	GM3215	Purplish Grey		• Brand new PVD TiAlN coating combined with submicron grained WC-Co cemented carbide substrate, provides the new grade with excellent wear resistance and heat resistance. • Recommended for finishing of stainless steels and heat resistant alloys in stable cutting conditions at medium speeds.
	GM3220	Phiny Orange		• New nano-structured PVD coating matching high cobalt cemented carbide substrate, gives the grade with excellent wear resistance and high hot hardness. • Recommended for continuous and light or medium intermittent of stainless steels and soft steels at medium to low cutting speeds.
	GM3225	Purplish Grey		• The combination of optimized TiAlN coating and submicron grained carbide substrate with high Co content, provides superior adhesion and toughness. • Recommended for semi-finishing of stainless steels and threading of steels, stainless steels, etc.
S	GST7115	Yellow		• New nano structure PVD coating with higher hot hardness and anti-plastic deformation substrate. Special post-treatment, which make excellent high temperature wear resistance and adhesive wear resistance. • Recommended for low and medium speed finishing to semi-finishing processing in nickel based high-temperature alloys, good surface quality.
	GST7120	Purplish Grey		• New higher adhesion and wear-resistance PVD coating with submicro grain substrate, which increase grade wear resistance, oxidation resistance, and processing stability. • Recommended for medium and high speed processing in nickel based high-temperature alloys.
	GST7130	Yellow		• New PVD coating with high Co submicro grain substrate, which have good adhesion, extremely high toughness, and cutting edge strength. • Recommended for low and medium speed roughing in nickel based high-temperature alloys, good surface quality.
	GST7135	Yellow		• New PVD coating with universal Co-rich substrate, ensures great wear resistance and high toughness. • Recommended for general processing under intterupted conditions in superalloy and stainless steel
	GS3115	Purplish Red		• Fine grained cemented carbide substrate, matching PVD coating with high aluminum content, have excellent adhesion and wear resistance. • Recommended for semi-finishing or finishing of stainless steels and heat resistant alloys.
	GS3125	Purplish Grey		• TiAlN PVD coating with higher hot hardness and anti-plastic deformation substrate, which have good antioxidant performance and adhesive wear resistance. • Recommended for medium speed finishing to semi-finishing processing in high temperature alloy, titanium alloy, stainless steel.

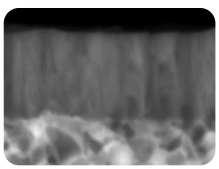
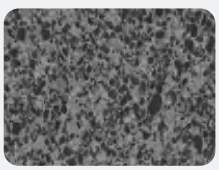
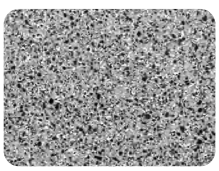
PVD Coated Carbide

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
N	GNT7120	Silver		• The newly upgraded coating has extremely high hardness and excellent adhesion, and has almost no affinity with non-ferrous metals. It is paired with a high wear-resistant hard alloy matrix to achieve efficient processing of non-ferrous metals such as aluminum alloys. • Recommend universal processing of non-ferrous metals such as copper and aluminum alloys.
/	GAT7115	Gray		• New nano structured PVD coating combine with micro-grain cemented carbide substrate and special surface treatment, provides outstanding wear resistance, oxidation resistance and machining stability. • Suitable for steel and stainless steel in general cutting condition with medium or high speed.
	GAT7120	Purplish Red		• High wear-resistant PVD coating with ultra-fine grained cemented carbide substrate, provides excellent wear resistance at medium and low speed, achieving precision machining. • Suitable for steel and stainless steel in stable cutting condition with low or medium speed.
	GAT7120A	Purplish Red		• optimized micro-grain carbide substrate with high wear resistant PVD coating, provides high versatility, for steel cutting has excellent performance. • Suitable for general cutting of steel materials.
	GAT7125	Gray		• New generation coating with new PVD technology, combined with high-co cemented carbide substrate, provides excellent toughness and cutting edge strength. • Suitable for steel and stainless steel in unstable cutting condition.
	GA4330	Yellow		• New TiAlN coating with fine grain substrate, which increase wear-resistance and cutting stability. • Recommended for medium hardness steel and stainless steel processing.
	GA4230	Purplish Red		• PVD TiAlN coating with high toughness substrate provides excellent wear resistance and high edge security for abroad application area. • Recommended as general choice for parting and grooving of steels.

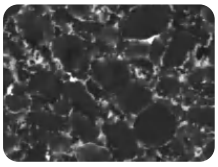
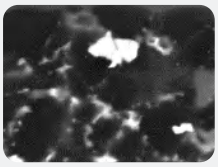
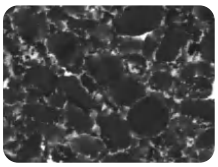
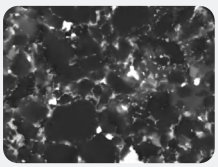
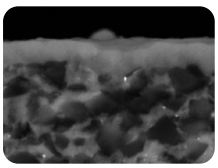
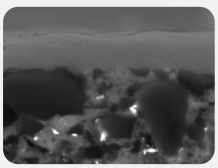
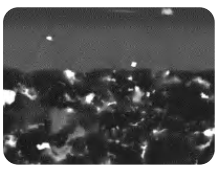
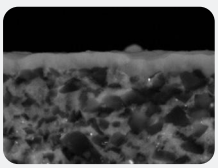
Carbide

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
S	GS9125	Uncoated		• Uncoated fine grain substrate has a good balance of wear resistance and toughness. • Recommended as the first choice for titanium alloys, and even for semi-finishing of titanium alloys grooving.
N	GN9110	Uncoated		• Uncoated fine-grained grade has great wear resistance. • Recommended for finishing of aluminum alloys and copper alloys at high cutting speeds.
	GN9120	Uncoated		• Fine-grained substrate with special surface treatment improves the wear resistance and less built-up-edge. • Recommended for finishing to semi-finishing of aluminum alloys, copper alloys and other non-ferrous materials.
	GN9130	Uncoated		• Uncoated fine-grained substrate grade has quite good wear resistance and toughness. • Recommended for semi-finishing of coppers and aluminum alloys.

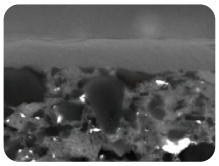
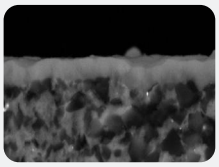
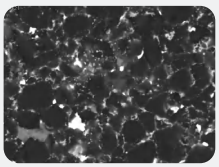
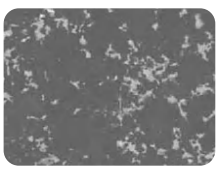
Cermet

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
P	GP31TM	Purplish Grey		• Thin PVD coating and cermet have excellent resistance to built-up-edge and plastic deformation, which ensures the high surface quality. • Recommended for finishing of carbon steels and low alloy steels at high cutting speeds.
	GP91TM	Uncoated		• Uncoated cermet has well wear resistance and toughness, even excellent high surface quality. • Recommended for finishing of carbon steels and low alloy steels when good surface quality is required.
	GP92TM	Uncoated		• Enhanced toughness, significantly improving anti chipping performance, enhancing tool versatility, achieving stable and long life machining, while achieving excellent machining surface quality. • Suitable for continuous precision machining of carbon steel and low alloy steel.

PCBN&PCD

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
K	BKN115P	Uncoated		• Uncoated grade with high hardness has excellent wear resistance. • Recommended for finishing of grey cast irons and valve seat machining.
	BKC120P	Purplish Grey		• Outstanding PVD coating can reduce the friction between cutting edge and workpiece, which improves the wear resistance dramatically. • Recommended for finishing of nodular cast irons.
	BKN225Z BKN225S	Uncoated		• Excellent impact and wear resistance, it has strong universality. • Semi-finishing and finishing of grey cast iron and high hard alloy cast iron.
S	BSN115P	Uncoated		• Uncoated grade has a high edge toughness and chemical stability. • Recommended for finishing of powder metallurgy parts.
H	BHC115P	Purplish Grey		• New TiAlN coating provides the good resistance to notch wear, which reduces the roughness of the workpiece surface. • Recommended for finishing of quenched steels when high surface quality and close tolerances are required.
	BHC125P	Purplish Grey		• CBN substrates with TiAlN coating have great toughness and wear resistance, which is capable of longer tool life and more stability. • Recommended for general machining of quenched steels.
	BHC135P	Purplish Grey		• CBN substrate with high edge toughness matching TiAlN coating greatly improves wear resistance. • Recommended for interrupted processing of quenched steels.
	BHC210P	Bronze		• The new double-layer nanostructure AiTiSiN coating has excellent heat resistance and wear resistance, achieving stable performance and excellent surface roughness. • Suitable for precision machining conditions with high requirements for surface roughness and dimensional accuracy of quenched steel.

PCBN&PCD

ISO	Grade	Grade Color	Grade Microstructure	Grade Feature
H	BHC215Z	Bronze		• The new TiAlSiN coating has good chemical wear resistance and improves the service life at high linear speed. Low content fine crystalline CBN matrix, with excellent wear resistance and red hardness. • Suitable for continuous to light intermittent machining of hardened steel.
	BHC225P	Bronze		• The new double layered nanostructured AiTiSiN coating is coated on a specially designed CBN substrate, which has strong toughness and further improves wear resistance, achieving more stable processing and long service life. • Suitable for universal processing of various quenched steels.
	BHC225Z	Bronze		• The new TiAlSiN coating has good chemical wear resistance and improves the service life at high linear speed. A multi-modal grained CBN substrate, has superior toughness and greatly improved wear resistance, and can achieve more stable machining and longer tool life. • Suitable for general processing of hardened steel.
	BHN225S	Uncoated		• A multi-modal grained CBN substrate, has superior toughness and greatly improved wear resistance, and can achieve more stable machining and longer tool life. • Suitable for general processing of hardened steel.
N	DNN125P	Uncoated		• Medium grained base has excellent wear resistance and toughness. • Recommended for high efficient finishing of aluminums, coppers, plastics and graphite materials.

B

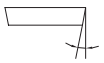
GENERAL TURNING

ISO Turning Inserts Identification System

Symbol	Shape	Corner Angle	Shape
H	Hexagon	120 °	
O	Octagon	135 °	
P	Pentagon	108 °	
S	Square	90 °	
T	Triangle	60 °	
C	Rhombic	80 °	
D		55 °	
E		75 °	
F		50 °	
M		86 °	
V		35 °	
W	Trigon	80 °	
L	Rectangle	90 °	
A	Parallelo-gram	85 °	
B		82 °	
K		55 °	
R	Round	——	

①Shape Symbol

Symbol	Relief Angle
A	3 °
B	5 °
C	7 °
D	15 °
E	20 °
F	25 °
G	30 °
N	0 °
P	11 °
O	Others



②Relief Angle Symbol

Symbol	Tolerance (mm)			Tolerance (inch)		
	Corner Height (m)	Thickness (s)	I.C.dia. (Ød)	Corner Height (m)	Thickness (s)	I.C.dia. (Ød)
A	±0.005	±0.025	±0.025	±0.0002	±0.001	±0.001
F	±0.005	±0.025	±0.013	±0.0002	±0.001	±0.0005
C	±0.013	±0.025	±0.025	±0.0005	±0.001	±0.001
H	±0.013	±0.025	±0.013	±0.0005	±0.001	±0.0005
E	±0.025	±0.025	±0.025	±0.001	±0.001	±0.001
G	±0.025	±0.13	±0.025	±0.001	±0.005	±0.001
J	±0.005	±0.025	±0.05~ ±0.13	±0.0002	±0.001	±0.002~ ±0.005
K	±0.013	±0.025	±0.05~ ±0.13	±0.0005	±0.001	±0.002~ ±0.005
L	±0.025	±0.025	±0.05~ ±0.13	±0.001	±0.001	±0.002~ ±0.005
M	±0.08~ ±0.18	±0.13	±0.05~ ±0.13	±0.003~ ±0.007	±0.005	±0.002~ ±0.005
N	±0.08~ ±0.18	±0.025	±0.05~ ±0.13	±0.003~ ±0.007	±0.001	±0.002~ ±0.005
U	±0.13~ ±0.38	±0.13	±0.08~ ±0.25	±0.005~ ±0.015	±0.005	±0.003~ ±0.01

③Tolerance Symbol

①	②	③	④	⑤
T	N	M	G	22

④Hole/Chipbreaker Symbol				
Symbol	Hole	Hole Shape	Chlpb-reaker	Shape
N	With-out	—	Without	
R			Single-sided	
F			Double-sided	
A	With	With Hole	Without	
M			Single-sided	
G			Double-sided	
W		With Hole and One Countersink 40-60 °	Without	
T			Single-sided	
Q		With Hole and Two Countersink 40-60 °C	Without	
U			Double-sided	
B		With Hole and One Countersink 70-90 °C	Without	
H			Single-sided	
C		With Hole and Two Countersink 70-90 °C	Without	
J			Double-sided	
X	—	—	—	

⑤Edge Length Symbol (ISO) (mm)

R		S		C		W		T		D		V		K		I. C. Size (mm)
Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	Symbol	Length	
		03	3.97	03	4.0			06	6.9	4	4.8					3.97
		04	4.76	04	4.8			08	8.2	5	5.8					4.76
05	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
		05	5.56	05	5.6	03	3.8	09	9.6	6	6.8					5.56
06	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6
		06	6.35	06	6.5	04	4.3	11	11	7	7.8	11	11.2			6.35
		07	7.94	08	8.1	05	5.4	13	13.8	9	9.7					7.94
08	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8
09	9.525	09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	16	19.7	9.525
10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10
12	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12
12	12.7	12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1			12.7
15	15.875	15	15.875	16	16.1	10	10.9	27	27.5	19	19.4					15.875
16	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16
19	19.05	19	19.05	19	19.3	13	13	33	33	23	23.3					19.05
20	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20
		22	22.225	22	22.6			38	38.5	27	27.1					22.225
25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25
25	25.4	25	25.4	25	25.8			44	44	31	31					25.4
31	31.75	31	31.75	32	32.2			55	55	38	38.8					31.75
31	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32

Insert Shape: H,O,P,S,T,C,E,M,W, R									
I. C. Size (mm)	Tolerance of I. C. Size(Ød) (mm)		Tolerance of Corner Height (mm)		I. C. Size (inch)	Tolerance of I. C. Size(Ød) (mm)		Tolerance of corner Height (mm)	
	J, K,L, M,N	U	M,N	U		ClassJ,K, L,M,N	Class U	ClassJ,K, L,M,N	Class U
6.35	±0.05	±0.08	±0.08	±0.13	0.250	±0.002	±0.003	±0.003	±0.005
9.525					0.375				
12.7	±0.08	±0.13	±0.13	±0.2	0.500	±0.003	±0.005	±0.005	±0.008
15.875	±0.1	±0.18	±0.15	±0.27	0.625	±0.004	±0.007	±0.006	±0.011
19.05					0.750				
25.4	±0.13	±0.25	±0.18	±0.38	1.000	±0.005	±0.010	±0.007	±0.015
31.75	±0.15	±0.25	±0.2	±0.38	1.250	±0.006	±0.010	±0.008	±0.015
32					1.260				

Insert Shape: D					
Inscribed Circle Size		Tolerance of I. C. Size		Tolerance of Corner Height	
mm	in	mm	in	mm	in
6.35	0.250	±0.05	±0.002	±0.11	±0.004
9.525	0.375	±0.05	±0.002	±0.11	±0.004
12.7	0.500	±0.08	±0.003	±0.15	±0.006
15.875	0.625	±0.10	±0.004	±0.18	±0.007
19.05	0.750	±0.10	±0.004	±0.18	±0.007

Insert Shape: V					
Inscribed Circle Size		Tolerance of I. C. Size		Tolerance of Corner Height	
mm	in	mm	in	mm	in
6.35	0.250	±0.05	±0.002	±0.15	±0.006
9.525	0.375	±0.05	±0.002	±0.15	±0.006
12.7	0.500	±0.08	±0.003	±0.20	±0.008
15.875	0.625	±0.10	±0.004	±0.27	±0.011
19.05	0.750	±0.10	±0.004	±0.27	±0.011

Symbol	Thickness (mm)
01	1.59
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

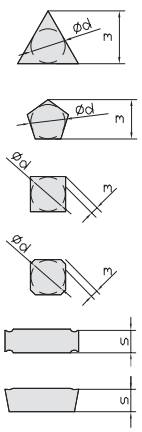
⑥Thickness Symble

⑥ ⑦ ⑧

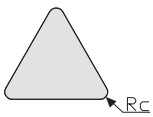
04 08 – HK

⑥ ⑦ ⑧

Inscribed Circle Size (mm)
Insert Thickness (S)
Corner Height (m)



⑦Corner Ro Symbol



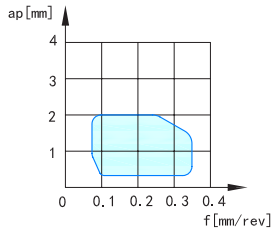
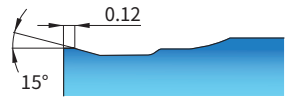
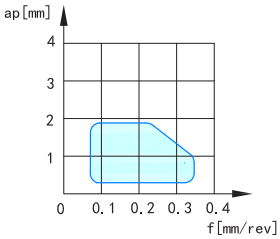
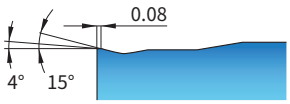
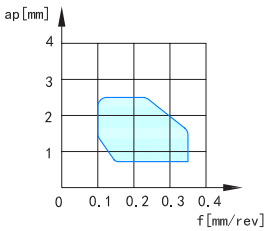
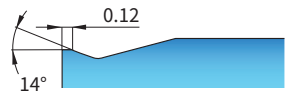
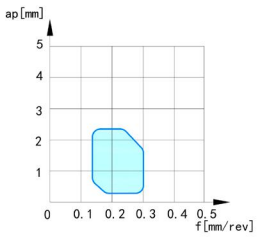
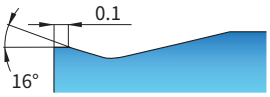
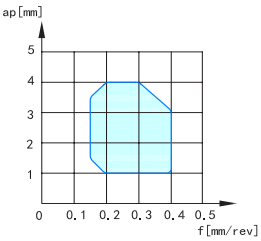
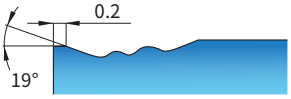
Symbol	Corner-R (mm)
00	0.03
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
28	2.8
32	3.2

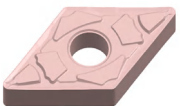
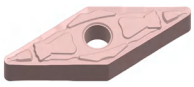
⑧Chipbreaker Symbol

Chipbreaker Symbol

Overview of Turning Inserts

Turning Inserts (Negative)

Chip Breaker	Features	Application Range	Cross Section Chip Breaker	
QF	• QF for finishing of general steel and alloy steel. • Curved edge, sharp cutting edge, good chip control and fine surface finish due to curved edge.			
TF	• TF for finishing of steel and alloy steel. • Curved cutting edge design, shaper cutting edge, low cutting resistance, high surface finish, and good chip breaking and removal effect.			
GF	• GF for finishing of general steel and alloy steel. • Sharp tool nose and strong cutting edge and good chip control under small cutting depth.			
SPL	• SPL for light cutting of general steel and alloy steel. • Wide range of chip-breaking and universality.			
QM	• QM for semi-finishing of general steel and alloy steel. • The design of step and wavy boss widens the range of chip breaking.			

	80°Rhombic	55°Rhombic	90°Square	60°Regular Triangle	35°Rhombic	80°Trigon
						
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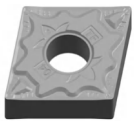
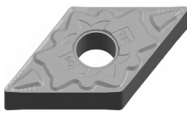
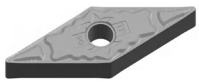
	P034	P039	P043	P047	P051	P053
						
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		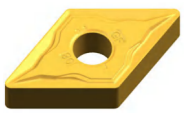				
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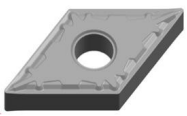
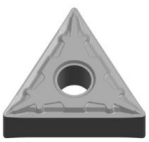
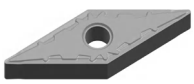
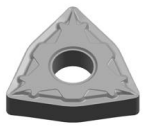
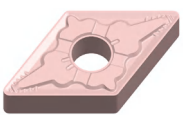
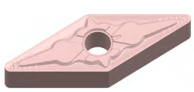
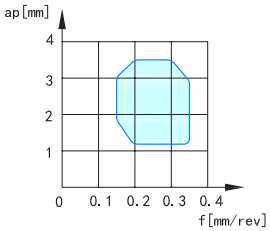
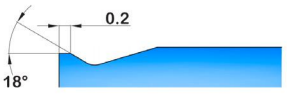
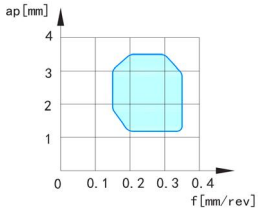
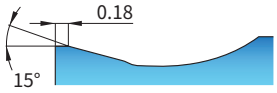
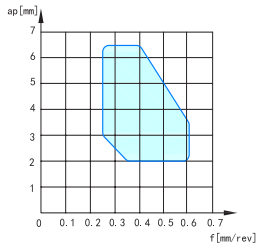
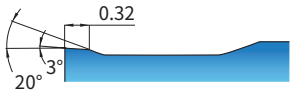
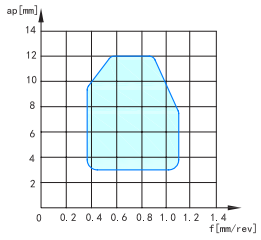
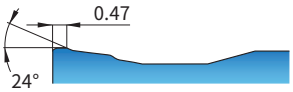
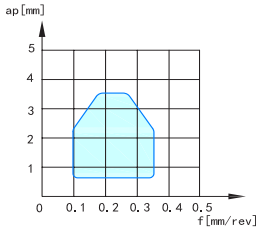
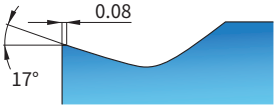
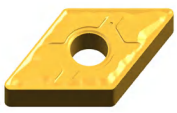
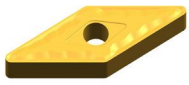
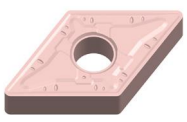
	P034	P039	P043	P047	P051	P053
						
	CNMG-SPL	DNMG- SPL		TNMG- SPL	VNMG- SPL	WNMG- SPL
	P034	P039		P047	P051	P053
						
	CNMG-QM	DNMG-QM	SNMG-QM	TNMG-QM	VNMG-QM	WNMG-QM
	P035	P040	P043	P047	P051	P054

Overview of Turning Inserts

Turning Inserts (Negative)

Chip Breaker	Features	Application Range	Cross Section Chip Breaker	
GM	• GM for semi-finishing of general steel and alloy steel. • Strong flat cutting edge with good strength.			
SV	• SV for semi-finishing of general steel and alloy steel. • Throughout groove and wide chip groove make cutting available in unstable working conditions. • Long chip groove allows high depth of cut.			
QR	• QR for rough cutting action of carbon steel,cast steel and alloy steel. • Variable rake angle and land provides enough edge sharpness and strength at different depth of cut.			
QH	• QH for heavy cutting action of carbon steel, cast steel and alloy steel. • Variable land and progressive chipbreaker space, generating lower cutting force. • Straight edge line with reinforcement balances strength and cutting action.			
TS	• TS for semi-finishing of general steel and alloy steel. • Big rake angle lower cutting force. • Variable groove depth design, with super chip removal.			

	80°Rhombic	55°Rhombic	90°Square	60°Regular Triangle	35°Rhombic	80°Trigon
						
	CNMG-GM	DNMG-GM	SNMG-GM	TNMG-GM	VNMG-GM	WNMG-GM
	P035	P040	P043	P048	P052	P054
						
	$CNMG_{R/L}$-SV	$DNMG_{R/L}$-SV	$SNMG_{R/L}$-SV	$TNMG_{R/L}$-SV		$WNMG_{R/L}$-SV
	P035	P040	P044	P048		P054
						
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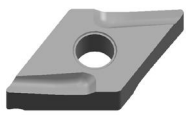
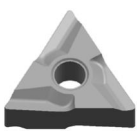
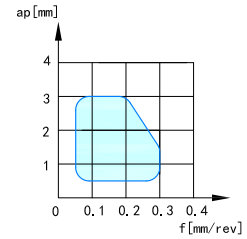
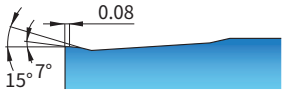
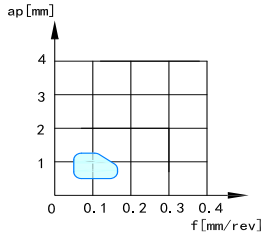
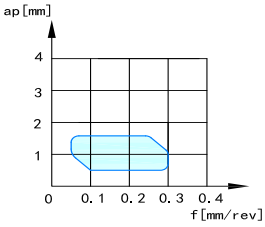
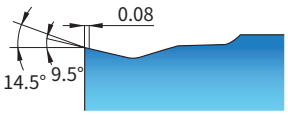
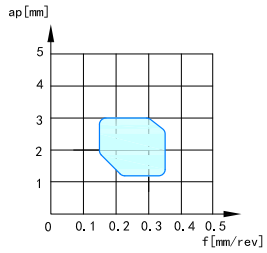
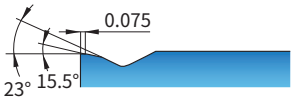
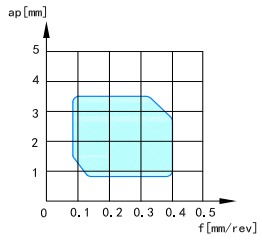
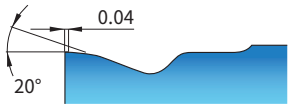
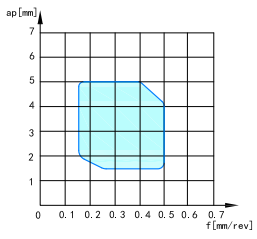
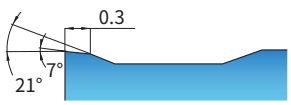
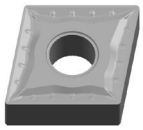
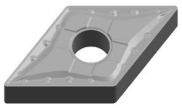
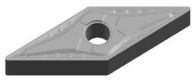
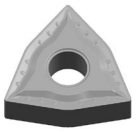
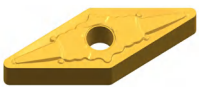
	CNMM-QH		SNMM-QH			
	P038		P046			
						
		DNMGR/L-TS		TNMGR/L-TS		
		P041		P048		

Overview of Turning Inserts

Turning Inserts (Negative)

Chip Breaker	Features	Application Range	Cross Section Chip Breaker
TP	• TP for semi-finishing of general steel,alloy steel and cast iron. • Dual rake angle and big cutting edge width design to promote its strength. • Overall pattern design, stable and reliable installation. • Arrow chip breaker improves chipbreaking performance during big cutting depth.		
SF	• SF for finishing of stainless steel. • Sharp edge due to results in low cutting forces particularly for thin wall structures and extended shafts.		
YF	• YF for finishing of stainless steel. • Inclination angle design is used to reduce cutting resistance and ensure good chip control.		
SM	• SM for medium cutting of stainless steel and mild steel. • Sharp cutting edge.		
LM	• LM for semi-finishing of stainless steel and high temperature alloy. • Variable rake angle and cutting edge width to ensure its sharpness and strength. • Heart-shaped chip breaker with good chip breaking.		
LR	• LR for stainless steel of roughing. • Small rake angle and big cutting edge width with strong corner. • Big chip breaker width and shallow. • Large chip breaker width and shallow chip breaker depth to ensure good chip removal.		

	80°Rhombic	55°Rhombic	90°Square	60°Regular Triangle	35°Rhombic	80°Trigon
						
	CNMG-TP	DNMG-TP	SNMG-TP	TNMG-TP	VNMG-TP	WNMG-TP
	P036	P041	P044	P048	P052	P055
						
	CNMG-SF	DNMG- SF	SNMG-SF	TNMG- SF	VNMG- SF	WNMG-SF
	P034	P039	P043	P047	P051	P053
						
	CNMG-YF	DNMG- YF	SNMG- YF	TNMG- YF	VNMG- YF	WNMG-YF
	P034	P039	P043	P047	P051	P053
						
	CNMG-SM	DNMG- SM	SNMG- SM	TNMG- SM	VNMG- SM	WNMG-SM
	P036	P040	P044	P048	P052	P055
						
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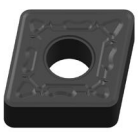
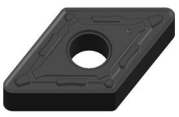
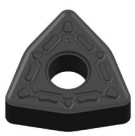
	P036	P041	P045	P049	P052	P055
						
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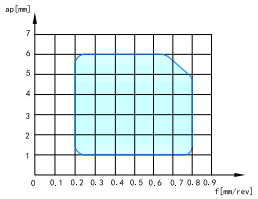
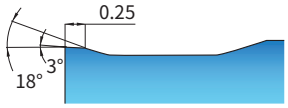
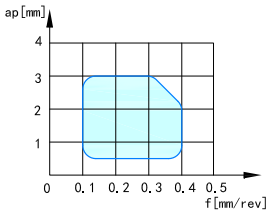
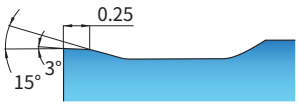
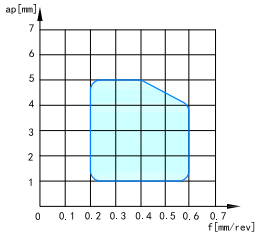
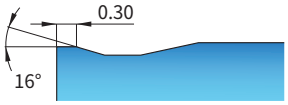
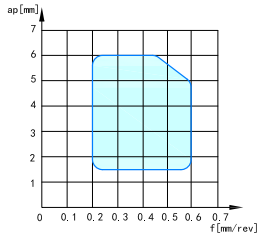
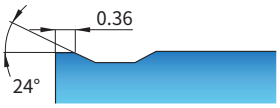
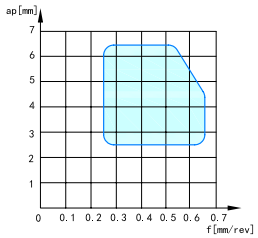
	P037	P042	P045	P049		P056

Overview of Turning Inserts

Turning Inserts (Negative)

Chip Breaker	Features	Application Range	Cross Section Chip Breaker	
WMV (Wiper)	• WMV for semi-finishing of general steel, alloy steel and cast iron. • Large chip breaker with low chip removal resistance. • Excellent sharp cutting edge and strength. • Good surface quality.			
MK	• MK for finishing of cast iron. • The cutting edge combines sharpness and strength, with low chip removal resistance.			
UK	• UK for machining cast iron. • Good performance after medium cutting for general conditions.			
HK	• HK for cast iron heavy cutting. • Strong cutting edge, big chip pocket, good at big cutting depth and width.			
Flat	• Flat-top for cast iron used. • Stable placement. • Strong edge design for intermittent cutting conditions.			

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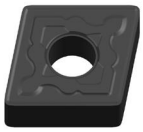
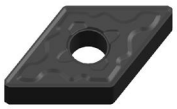
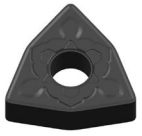
		 Wiper		 Wiper		
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	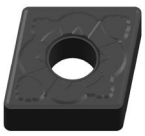	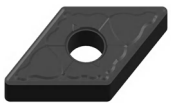			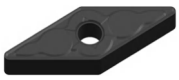	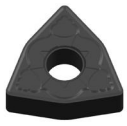
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	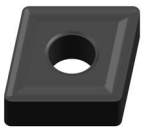	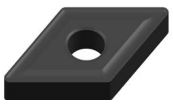			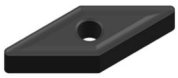	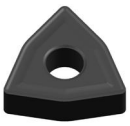
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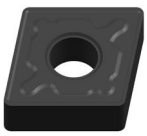
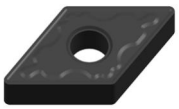
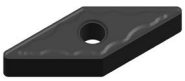
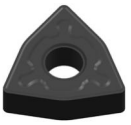
	P037	P042	P045	P049	P052	P056
						
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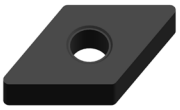
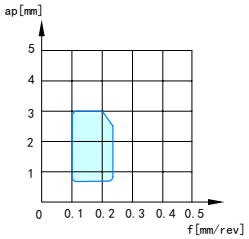
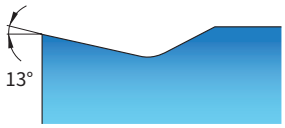
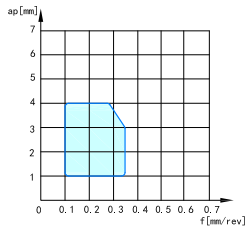
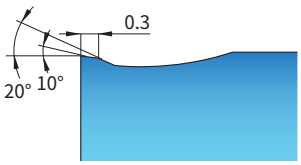
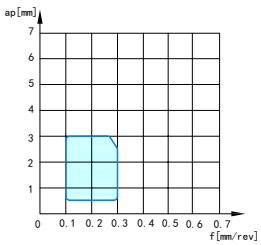
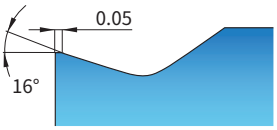
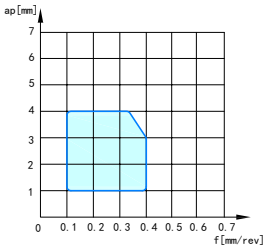
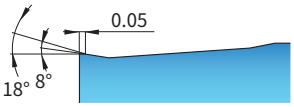
						
	CNMA	DNMA	SNMA	TNMA		WNMA
	P038	P042	P046	P050		P056

Overview of Turning Inserts

Turning Inserts (Negative)

Chip Breaker	Features	Application Range	Cross Section Chip Breaker	
EL	• EL for finishing to semi-finishing of high temperature alloy and titanium alloy. • Suitable for processing long overhanging and thin-walled workpieces. • Low cutting force to avoid vibration.			
EM	• EM for semi-finishing to roughing of high-temperature alloy. • High cutting edge strength, suitable for deep cutting processing.			
SML	• SML for finishing to semi-finishing of stainless steel and high temperature alloy. • Inclination angle design reduces cutting resistance and ensures good chip control.			
SMM	• SMM for semi-finishing to roughing of stainless steel and high-temperature alloy. • Unique chip-breaker design to meet different cutting depth and feed processing, ensuring processing stability.			

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		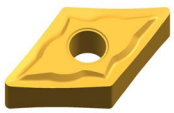				
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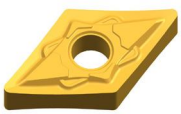
	P034	P039			P051	P053
						
	CNMG-EM	DNMG-EM	SNMG-EM	TNMG-EM	VNMG-EM	WNMG-EM
	P036	P041	P045	P049	P052	P055
						
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					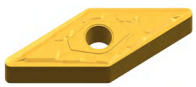	
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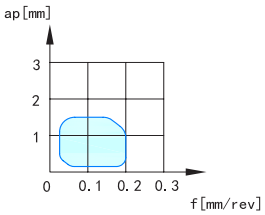
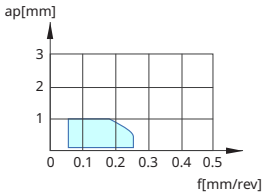
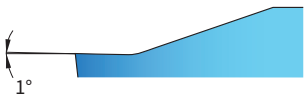
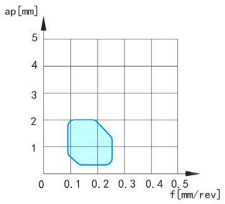
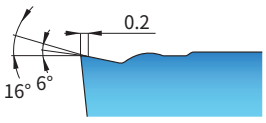
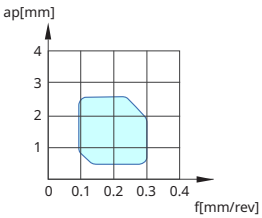
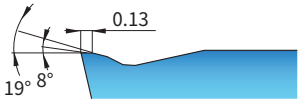
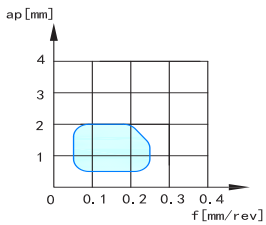
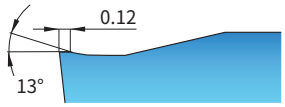
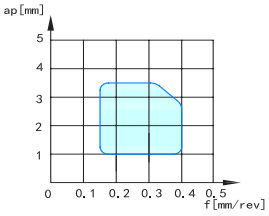
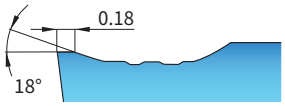
	P036	P041	P045		P052	P055

Overview of Turning Inserts

Turning Inserts（Positive）

5°Clearance Angle

Chip Breaker	Features	Application Range	Cross Section Chip Breaker
MM	• MM for semi-finishing and finishing of general steel, alloy steel and stainless steel. • Sharp cutting edge, enables high surface quality.		
FP	• FP for finishing cutting of general steel and alloy steel. • No cutting edge width and rake angle design , ensures chip breaking at low depth and feed.		
SPL	• SPL for light cutting of general steel and alloy steel. • Wide range of chip-breaking and versatility.		
GP	• GP for light cutting of general steel, alloy steel, stainless steel and cast iron. • The combination of flat edge and double rake ensures a strong point degree and cutting sharpness.		
TP	• TP for light cutting of general steel, alloy steel and cast iron. • Dual rake angle and big cutting edge width design to promote its strength. • Overall pattern design, stable and reliable installation. • Arrow chip breaker improves chip breaking performance during big cutting depth.		
KM	• KM for semi-finishing and roughing of general steel, alloy steel and cast iron. • Variable land design, combine sharpness with fracture resistance.		

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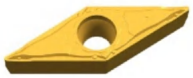
					P066	
						
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					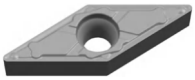	
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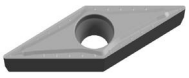
					VBMT-GP	
					P066	
						
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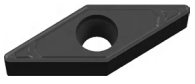
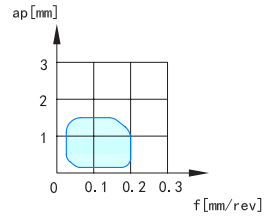
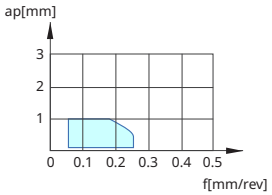
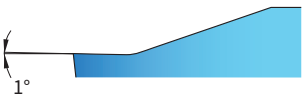
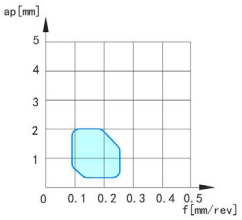
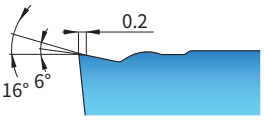
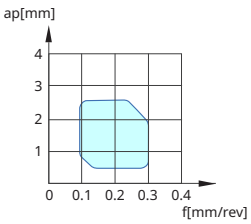
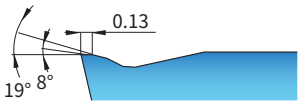
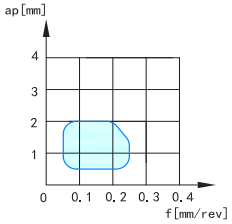
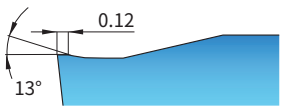
						
					VBMT-KM	
					P066	

Overview of Turning Inserts

Turning Inserts（Positive）

7°Clearance Angle

Chip Breaker	Features	Application Range	Cross Section Chip Breaker
MM	• MM for light cutting of general steel, alloy steel and stainless steel. • Sharp cutting edge, enables high surface quality.		
FP	• FP for finishing cutting of general steel and alloy steel. • No cutting edge width and rake angle design , ensures chip breaking at low depth and feed.		
SPL	• SPL for light cutting of general steel and alloy steel; • Wide range of chip-breaking and versatility.		
GP	• GP for light cutting of general steel, alloy steel, stainless steel and cast iron. • The combination of flat edge and double rake ensures a strong point degree and cutting sharpness.		
TP	• TP for light cutting of general steel, alloy steel and cast iron. • Dual rake angle and big cutting edge width design to promote its strength. • Overall pattern design, stable and reliable installation. • Arrow chip breaker improves chip breaking performance during big cutting depth.		

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	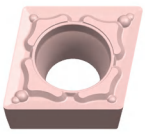	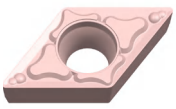			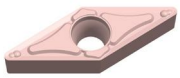	
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	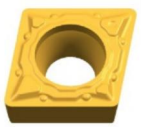	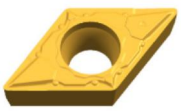				
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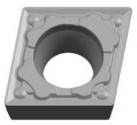
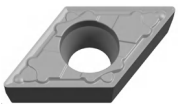
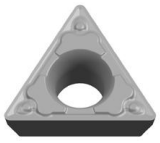
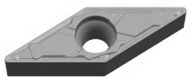
	P057	P060		P063	P067	
						
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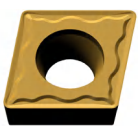
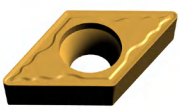
	P057	P060		P063	P067	
						
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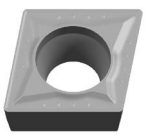
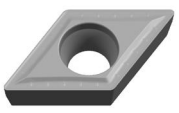
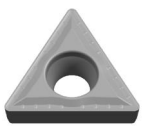
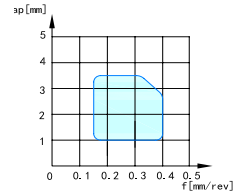
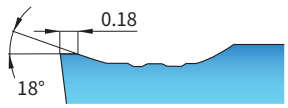
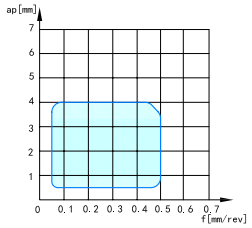
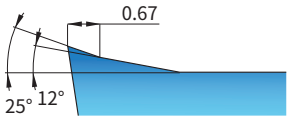
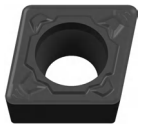
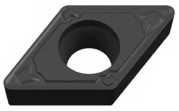
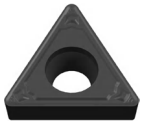
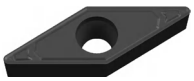
						
	CCMT-TP	DCMT-TP	SCMT-TP	TCMT-TP		
	P058	P061	P062	P063		

Overview of Turning Inserts

Turning Inserts（Positive）

7°Clearance Angle

Chip Breaker	Features	Application Range	Cross Section Chip Breaker	
KM	• KM for semi-finishing and roughing of general steel, alloy steel and cast iron. • Variable land design, combine sharpness with fracture resistance.			
AL	• AL for aluminum alloy cutting. • Large rake angle, cutting edge sharpness.			

	80°Rhombic	55°Rhombic	90°Square	60°Regular Triangle	35°Rhombic	80°Trigon
						
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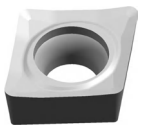
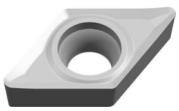
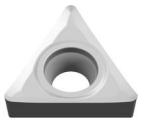
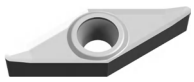
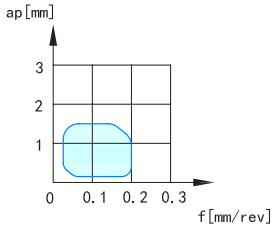
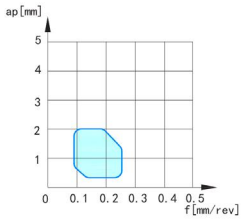
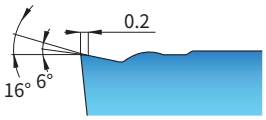
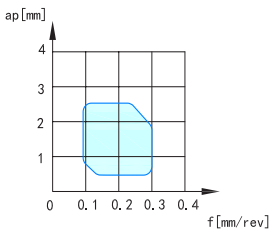
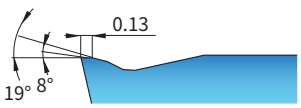
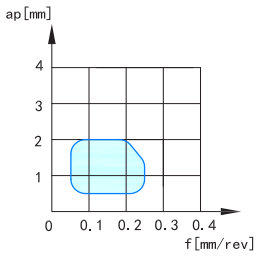
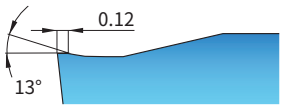
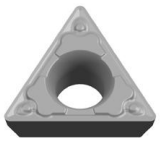
	P058	P061	P062	P064	P067	
						
	CCGX-AL	DCGX-AL	SCGX-AL	TCGX-AL	VCGX-AL	
	P058	P061	P062	P064	P067	

Overview of Turning Inserts

Turning Inserts（Positive）

11°Clearance Angle

Chip Breaker	Features	Application Range	Cross Section Chip Breaker	
MM	• MM for light cutting of general steel, alloy steel and stainless steel. • Sharp cutting edge, enables high surface quality.			
SPL	• SPL for light cutting of general steel and alloy steel. • Wide range of chip-breaking and versatility.			
GP	• GP for light cutting of general steel, alloy steel,stainless steel and cast iron. • The combination of flat edge and double rake ensures a strong point degree and cutting sharpness.			
TP	• TP for light cutting of general steel, alloy steel and cast iron. • Dual rake angle and big cutting edge width design to promote its strength. • Overall pattern design, stable and reliable installation. • Arrow chip breaker improves chip breaking performance during big cutting depth.			

	80°Rhombic	55°Rhombic	90°Square	60°Regular Triangle	35°Rhombic	80°Trigon
						
				TPMT-MM		
				P065		
						
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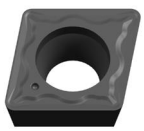
				P065		
						
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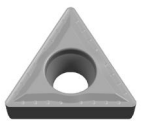
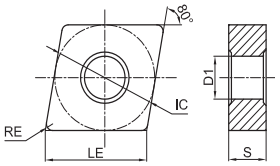
	P059			P065		
						
				TPMT-TP		
				P065		

Turning Insert (Negative)

CN□□

Rhombic 80° with Hole



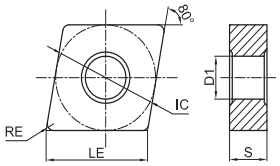
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CNMG090304-QF	9.7	9.525	3.18	3.81	0.4					○		○																					
	CNMG120404-QF	12.9	12.7	4.76	5.16	0.4	●	●	●	●	●	●	●									●											○	
	CNMG120408-QF	12.9	12.7	4.76	5.16	0.8	●	●	●	●	●	○	●		○																		○	○
	CNMG120404-TF	12.9	12.7	4.76	5.16	0.4																											○	○
	CNMG120408-TF	12.9	12.7	4.76	5.16	0.8																											○	○
	CNMG090308-GF	9.7	9.525	3.18	3.81	0.8					○																							
	CNMG120404-GF	12.9	12.7	4.76	5.16	0.4					●		○																					
	CNMG120408-GF	12.9	12.7	4.76	5.16	0.8					○		●																					
	CNMG120412-GF	12.9	12.7	4.76	5.16	1.2					●																							
	CNMG120404-SF	12.9	12.7	4.76	5.16	0.4														●							●							
	CNMG120408-SF	12.9	12.7	4.76	5.16	0.8														○							●							
	CNMG120404-YF	12.9	12.7	4.76	5.16	0.4														●	●													
	CNMG120408-YF	12.9	12.7	4.76	5.16	0.8														●	●													
	CNMG120404-SPL	12.9	12.7	4.76	5.16	0.4																												●
	CNMG120404-EL	12.9	12.7	4.76	5.16	0.4																			●		●							
	CNMG120408-EL	12.9	12.7	4.76	5.16	0.8																			●	●	●							
	CNMG120412-EL	12.9	12.7	4.76	5.16	1.2																			●	●								
	CNMG160608-EL	16.1	15.875	6.35	6.35	0.8																			●	●								
	CNMG160612-EL	16.1	15.875	6.35	6.35	1.2																			●	●								
	CNMG190608-EL	19.3	19.05	6.35	7.94	0.8																					●							
	CNMG190612-EL	19.3	19.05	6.35	7.94	1.2																					●							

●Stock ○Available Upon Order

Turning Insert (Negative)

CN□□

Rhombic 80° with Hole



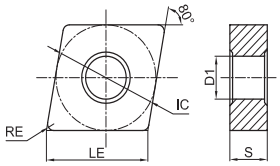
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CNMG120404-SML	12.9	12.7	4.76	5.16	0.4																			●		●							
	CNMG120408-SML	12.9	12.7	4.76	5.16	0.8																			●	●	●							
	CNMG120412-SML	12.9	12.7	4.76	5.16	1.2																			●	●								
	CNMG090304-QM	9.7	9.525	3.18	3.81	0.4	○		●		○		●		●																			
	CNMG090308-QM	9.7	9.525	3.18	3.81	0.8	●				●		○		●																			
	CNMG120404-QM	12.9	12.7	4.76	5.16	0.4	●	●	●	●	●	●	●		●		○					●											●	●
	CNMG120408-QM	12.9	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●	●	●		●					●												●
	CNMG120412-QM	12.9	12.7	4.76	5.16	1.2	●	●	●	●	●	●	●	●	●								●											
	CNMG120416-QM	12.9	12.7	4.76	5.16	1.6				●	○		●		●																			
	CNMG160608-QM	16.1	15.875	6.35	6.35	0.8	●	●	●	●	●		●	●	○																			
	CNMG160612-QM	16.1	15.875	6.35	6.35	1.2	●	●	●	●	●	●	●		●																			
	CNMG190608-QM	19.3	19.05	6.35	7.94	0.8	●	●	●		●	●	●										●											
	CNMG190612-QM	19.3	19.05	6.35	7.94	1.2				●	○		●	○																				
	CNMG190616-QM	19.3	19.05	6.35	7.94	1.6	○				●		●																					
	CNMG120404-GM	12.9	12.7	4.76	5.16	0.4					●		●																					
	CNMG120408-GM	12.9	12.7	4.76	5.16	0.8					●		●																					
	CNMG120412-GM	12.9	12.7	4.76	5.16	1.2					●		●																					
	CNMG120416-GM	12.9	12.7	4.76	5.16	1.6					○		●																					
	CNMG160608-GM	16.1	15.875	6.35	6.35	0.8					●		●																					
	CNMG160612-GM	16.1	15.875	6.35	6.35	1.2					●		●																					
	CNMG160616-GM	16.1	15.875	6.35	6.35	1.6					○		●																					
	CNMG190608-GM	19.3	19.05	6.35	7.94	0.8							○																					
	CNMG190612-GM	19.3	19.05	6.35	7.94	1.2					○		●																					
	CNMG190616-GM	19.3	19.05	6.35	7.94	1.6					●		●																					
	CNMG120408R-SV	12.9	12.7	4.76	5.16	0.8							●																					
	CNMG120408L-SV	12.9	12.7	4.76	5.16	0.8							●																					

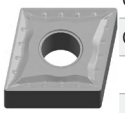
●Stock ○Available Upon Order

Turning Insert (Negative)

CN□□

Rhombic 80° with Hole



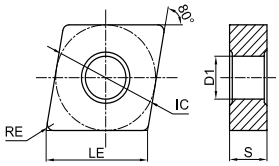
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CNMG090304-SM	9.7	9.525	3.18	3.81	0.4										○	●				●													
	CNMG090308-SM	9.7	9.525	3.18	3.81	0.8										●	○				●													
	CNMG120404-SM	12.9	12.7	4.76	5.16	0.4										●	●	●	○	●	●							○						
	CNMG120408-SM	12.9	12.7	4.76	5.16	0.8										●	●	●	●	●	●							●						
	CNMG120412-SM	12.9	12.7	4.76	5.16	1.2										●	●	●		●	●							●						
	CNMG120416-SM	12.9	12.7	4.76	5.16	1.6																						●						
	CNMG160608-SM	16.1	15.875	6.35	6.35	0.8										●	●				●													
	CNMG160612-SM	16.1	15.875	6.35	6.35	1.2										○	○				●													
	CNMG160616-SM	16.1	15.875	6.35	6.35	1.6										●	●				●													
	CNMG190608-SM	19.3	19.05	6.35	7.94	0.8											●				●													
	CNMG190612-SM	19.3	19.05	6.35	7.94	1.2										○	●				●													
	CNMG190616-SM	19.3	19.05	6.35	7.94	1.6										○	○			●	●													
	CNMG120404-TP	12.9	12.7	4.76	5.16	0.4																										●	●	
	CNMG120408-TP	12.9	12.7	4.76	5.16	0.8																										●	●	
	CNMG120404-LM	12.9	12.7	4.76	5.16	0.4										●	●	●	●	●	●													
	CNMG120408-LM	12.9	12.7	4.76	5.16	0.8										●	●	●	●	●	●													
	CNMG120412-LM	12.9	12.7	4.76	5.16	1.2										●	●	○	●	●	●													
	CNMG120404-EM	12.9	12.7	4.76	5.16	0.4																			●	●	●							
	CNMG120408-EM	12.9	12.7	4.76	5.16	0.8																			●	●	●							
	CNMG120412-EM	12.9	12.7	4.76	5.16	1.2																			●	●	●							
	CNMG160608-EM	16.1	15.875	6.35	6.35	0.8																			●	●	●							
	CNMG160612-EM	16.1	15.875	6.35	6.35	1.2																			●	●	●							
	CNMG120404-SMM	12.9	12.7	4.76	5.16	0.4																			●	●	○							
	CNMG120408-SMM	12.9	12.7	4.76	5.16	0.8																			●	●	●							
	CNMG120412-SMM	12.9	12.7	4.76	5.16	1.2																			●		●							
	CNMG120408-WMV	12.9	12.7	4.76	5.16	0.8						○										●	●	○										
	CNMG120412-WMV	12.9	12.7	4.76	5.16	1.2										●						●		●										

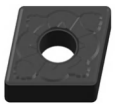
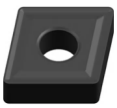
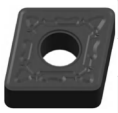
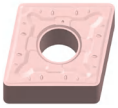
●Stock ○Available Upon Order

Turning Insert (Negative)

CN□□

Rhombic 80° with Hole



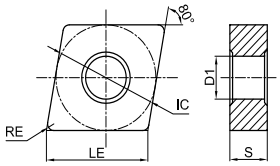
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CNMG120404-MK	12.9	12.7	4.76	5.16	0.4																●	●											
	CNMG120408-MK	12.9	12.7	4.76	5.16	0.8																●	●											
	CNMG120412-MK	12.9	12.7	4.76	5.16	1.2																●	●											
	CNMG120404-UK	12.9	12.7	4.76	5.16	0.4																●	●	●										
	CNMG120408-UK	12.9	12.7	4.76	5.16	0.8																●	●	●										
	CNMG120412-UK	12.9	12.7	4.76	5.16	1.2																●	●	●										
	CNMG120416-UK	12.9	12.7	4.76	5.16	1.6																○		○										
	CNMG160608-UK	16.1	15.875	6.35	6.35	0.8																●	●	●										
	CNMG160612-UK	16.1	15.875	6.35	6.35	1.2																●	●	●										
	CNMG160616-UK	16.1	15.875	6.35	6.35	1.6																○	●	●										
	CNMG190612-UK	19.3	19.05	6.35	7.94	1.2																●		●										
	CNMG190616-UK	19.3	19.05	6.35	7.94	1.6																●		○										
	CNMG120408-LR	12.9	12.7	4.76	5.16	0.8										●				●	●													
	CNMG120412-LR	12.9	12.7	4.76	5.16	1.2										●		●		●	●													
	CNMG120416-LR	12.9	12.7	4.76	5.16	1.6										○				●	●													
	CNMG160608-LR	16.1	15.875	6.35	6.35	0.8										●					●													
	CNMG160612-LR	16.1	15.875	6.35	6.35	1.2										●					●													
	CNMG190612-LR	19.3	19.05	6.35	7.94	1.2										●				●	●													
	CNMG190616-LR	19.3	19.05	6.35	7.94	1.6										●				○	●													
	CNMG120408-QR	12.9	12.7	4.76	5.16	0.8	●	●	●	●	●		●	●	●																			
	CNMG120412-QR	12.9	12.7	4.76	5.16	1.2	●	●	●	○	●		●	●	●																			
	CNMG120416-QR	12.9	12.7	4.76	5.16	1.6	●	●	●	●	○		●		●																			
	CNMG160608-QR	16.1	15.875	6.35	6.35	0.8							●		●																			
	CNMG160612-QR	16.1	15.875	6.35	6.35	1.2	●	●	●	●	●		●	●	●																			
	CNMG160616-QR	16.1	15.875	6.35	6.35	1.6	●	●	●	○	●		●	●	●																			
	CNMG190608-QR	19.3	19.05	6.35	7.94	0.8	○	○	○				●		●																			
	CNMG190612-QR	19.3	19.05	6.35	7.94	1.2		●	●	○	○		●		●																			
	CNMG190616-QR	19.3	19.05	6.35	7.94	1.6	○	●	●	●	○		●		●																			
	CNMG190624-QR	19.3	19.05	6.35	7.94	2.4	○	●	○		●				●																			
	CNMG250924-QR	25.8	25.4	9.52	9.12	2.4	○	●	○				●																					

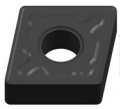
●Stock ○Available Upon Order

Turning Insert (Negative)

CN□□

Rhombic 80° with Hole



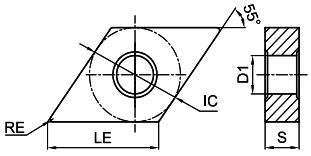
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides	Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CNMG120408-HK	12.9	12.7	4.76	5.16	0.8					●		●									●	●	●											
	CNMG120412-HK	12.9	12.7	4.76	5.16	1.2																●	●	●											
	CNMG120416-HK	12.9	12.7	4.76	5.16	1.6																●	●	●											
	CNMG160612-HK	16.1	15.875	6.35	6.35	1.2					●											●	●	●											
	CNMG160616-HK	16.1	15.875	6.35	6.35	1.6																●	●	●											
	CNMG190612-HK	19.3	19.05	6.35	7.94	1.2																●	●	○											
	CNMG190616-HK	19.3	19.05	6.35	7.94	1.6																●		●											
	CNMM190616-QH	19.3	19.05	6.35	7.94	1.6				○			●		●																			
	CNMM190624-QH	19.3	19.05	6.35	7.94	2.4	●	○	●				●		●																			
	CNMM250924-QH	25.8	25.4	9.52	9.12	2.4	○	○	●	●	●		●		●																			
	CNMA120404	12.9	12.7	4.76	5.16	0.4																●		●											
	CNMA120408	12.9	12.7	4.76	5.16	0.8																●	●	●											
	CNMA120412	12.9	12.7	4.76	5.16	1.2																●	●	●											
	CNMA120416	12.9	12.7	4.76	5.16	1.6																●	●	○											
	CNMA160612	16.1	15.875	6.35	6.35	1.2																●	●	●											
	CNMA160616	16.1	15.875	6.35	6.35	1.6																●	●	○											
	CNMA160620	16.1	15.875	6.35	6.35	2.0																●													
	CNMA190612	19.3	19.05	6.35	7.94	1.2																●		●											
	CNMA190616	19.3	19.05	6.35	7.94	1.6																●	●	●											
	CNMA190624	19.3	19.05	6.35	7.94	2.4																●	○	●											

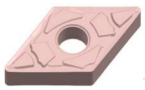
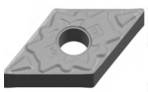
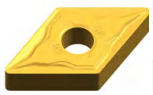
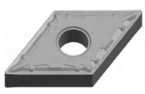
●Stock ○Available Upon Order

Turning Insert (Negative)

DN□□

Rhombic 55° with Hole



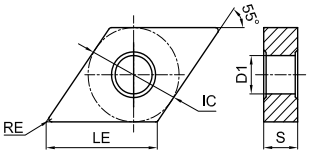
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	DNMG110404-QF	11.6	9.525	4.76	3.81	0.4	●	●	●		●		○																					
	DNMG110408-QF	11.6	9.525	4.76	3.81	0.8	●	●	●	●	●		●																					
	DNMG150404-QF	15.5	12.7	4.76	5.16	0.4	●	●	●	●	●		○																			●	○	
	DNMG150408-QF	15.5	12.7	4.76	5.16	0.8	●	●	●	●	●		○																			○	○	
	DNMG150604-QF	15.5	12.7	6.35	5.16	0.4	●	●	●		●		●																				○	
	DNMG150608-QF	15.5	12.7	6.35	5.16	0.8				○	●		●																					
	DNMG150404-TF	15.5	12.7	4.76	5.16	0.4																										●	○	
	DNMG150408-TF	15.5	12.7	4.76	5.16	0.8																										○	○	
	DNMG110404-GF	11.6	9.525	4.76	3.81	0.4					○																							
	DNMG110408-GF	11.6	9.525	4.76	3.81	0.8					○		●																					
	DNMG150404-GF	15.5	12.7	4.76	5.16	0.4					○																							
	DNMG150408-GF	15.5	12.7	4.76	5.16	0.8					●		●																					
	DNMG150608-GF	15.5	12.7	6.35	5.16	0.8					○																							
	DNMG110404-SF	11.6	9.525	4.76	3.81	0.4													●								○							
	DNMG110408-SF	11.6	9.525	4.76	3.81	0.8													●								○							
	DNMG150404-SF	15.5	12.7	4.76	5.16	0.4													●								●							
	DNMG150408-SF	15.5	12.7	4.76	5.16	0.8													●								●							
	DNMG150604-SF	15.5	12.7	6.35	5.16	0.4													○								●							
	DNMG150608-SF	15.5	12.7	6.35	5.16	0.8													●								●							
	DNMG150404-YF	15.5	12.7	4.76	5.16	0.4													●	○														
	DNMG150408-YF	15.5	12.7	4.76	5.16	0.8													●	○														
	DNMG150604-YF	15.5	12.7	6.35	5.16	0.4													●	●														
	DNMG150608-YF	15.5	12.7	6.35	5.16	0.8													●	●														
	DNMG150404-SPL	15.5	12.7	4.76	5.16	0.4																												●
	DNMG150408-SPL	15.5	12.7	4.76	5.16	0.8																												●
	DNMG150404-EL	15.5	12.7	4.76	5.16	0.4																		●										
	DNMG150408-EL	15.5	12.7	4.76	5.16	0.8																		●	●									
	DNMG150412-EL	15.5	12.7	4.76	5.16	1.2																		●	●									
	DNMG150604-EL	15.5	12.7	6.35	5.16	0.4																		●										
	DNMG150608-EL	15.5	12.7	6.35	5.16	0.8																		●	●									
	DNMG150612-EL	15.5	12.7	6.35	5.16	1.2																		●	●									

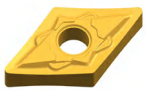
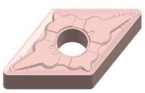
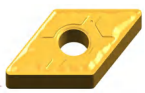
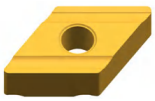
●Stock ○Available Upon Order

Turning Insert (Negative)

DN□□

Rhombic 55° with Hole



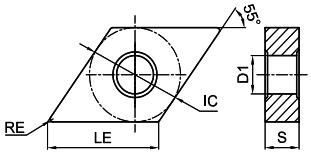
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides				Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	DNMG150404-SML	15.5	12.7	4.76	5.16	0.4																		●										
	DNMG150408-SML	15.5	12.7	4.76	5.16	0.8																		●										
	DNMG150604-SML	15.5	12.7	6.35	5.16	0.4																		●										
	DNMG150608-SML	15.5	12.7	6.35	5.16	0.8																		●	●									
	DNMG110404-QM	11.6	9.525	4.76	3.81	0.4	●	●	●		●		●		○																	●		
	DNMG110408-QM	11.6	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●		○							●												
	DNMG110412-QM	11.6	9.525	4.76	3.81	1.2					●		○		○									●										
	DNMG150404-QM	15.5	12.7	4.76	5.16	0.4	●	●	●		○	●	●		●							●											●	
	DNMG150408-QM	15.5	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●		●							●												
	DNMG150412-QM	15.5	12.7	4.76	5.16	1.2	●	●	●		●	●	●		●																			
	DNMG150604-QM	15.5	12.7	6.35	5.16	0.4	●	●	●	●	●		●		○		○																	○	
	DNMG150608-QM	15.5	12.7	6.35	5.16	0.8	●	●	●	●	●	●	●	●	●		●					●											○	
	DNMG150612-QM	15.5	12.7	6.35	5.16	1.2	●	●	●	●	●	●	●		○							○												
	DNMG110404-GM	11.6	9.525	4.76	3.81	0.4							●									●												
	DNMG110408-GM	11.6	9.525	4.76	3.81	0.8					●		●									●												
	DNMG150404-GM	15.5	12.7	4.76	5.16	0.4					●		●																					
	DNMG150408-GM	15.5	12.7	4.76	5.16	0.8					○		●																					
	DNMG150412-GM	15.5	12.7	4.76	5.16	1.2					●		●																					
	DNMG150604-GM	15.5	12.7	6.35	5.16	0.4					○		●																					
	DNMG150608-GM	15.5	12.7	6.35	5.16	0.8					●		●																					
	DNMG150612-GM	15.5	12.7	6.35	5.16	1.2					○		●																					
	DNMG150616-GM	15.5	12.7	6.35	5.16	1.6							●																					
	DNMG150404R-SV	15.5	12.7	4.76	5.16	0.4																											○	
	DNMG150404L-SV	15.5	12.7	4.76	5.16	0.4																											●	
	DNMG150604R-SV	15.5	12.7	6.35	5.16	0.4							●				●																	
	DNMG150604L-SV	15.5	12.7	6.35	5.16	0.4							●				●																●	
	DNMG150608R-SV	15.5	12.7	6.35	5.16	0.8							●				●																○	
	DNMG150608L-SV	15.5	12.7	6.35	5.16	0.8							●				●																	
	DNMG110404-SM	11.6	9.525	4.76	3.81	0.4											○	●		●	●													
	DNMG110408-SM	11.6	9.525	4.76	3.81	0.8											●	○	●		●													
	DNMG110412-SM	11.6	9.525	4.76	3.81	1.2															●													
	DNMG150404-SM	15.5	12.7	4.76	5.16	0.4											○	○	●	●	●													
	DNMG150408-SM	15.5	12.7	4.76	5.16	0.8											●	●			●													
	DNMG150604-SM	15.5	12.7	6.35	5.16	0.4											○	●	○	○	●													
	DNMG150608-SM	15.5	12.7	6.35	5.16	0.8										●	●	●	●	●	●													
	DNMG150612-SM	15.5	12.7	6.35	5.16	1.2											○	○			○													

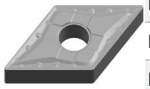
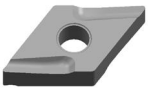
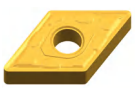
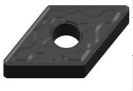
●Stock ○Available Upon Order

Turning Insert (Negative)

DN□□

Rhombic 55° with Hole



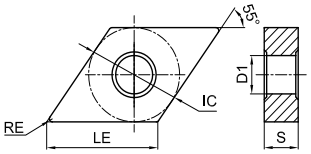
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	DNMG110404-TP	11.6	9.525	4.76	3.81	0.4																										●		
	DNMG150404-TP	15.5	12.7	4.76	5.16	0.4																										●	●	
	DNMG150408-TP	15.5	12.7	4.76	5.16	0.8																										●	○	
	DNMG150604-TP	15.5	12.7	6.35	5.16	0.4																										●	●	
	DNMG150608-TP	15.5	12.7	6.35	5.16	0.8																										●	●	
	DNMG150404R -TS	15.5	12.7	6.35	5.16	0.4																										●	●	
	DNMG150404L -TS	15.5	12.7	6.35	5.16	0.4																										●	●	
	DNMG150408R -TS	15.5	12.7	6.35	5.16	0.8																										●	○	
	DNMG150408L -TS	15.5	12.7	6.35	5.16	0.8																										●	●	
	DNMG110404-LM	11.6	9.525	4.76	3.81	0.4										●	○	○	○	●	●													
	DNMG110408-LM	11.6	9.525	4.76	3.81	0.8										●	●	○	●	●	●													
	DNMG150404-LM	15.5	12.7	4.76	5.16	0.4										●	○	○	○	●	●													
	DNMG150408-LM	15.5	12.7	4.76	5.16	0.8										●	●	○	●	●	●													
	DNMG150412-LM	15.5	12.7	4.76	5.16	1.2										○			○		○													
	DNMG150604-LM	15.5	12.7	6.35	5.16	0.4										●		●	●	●	●													
	DNMG150608-LM	15.5	12.7	6.35	5.16	0.8										●	○	○	○	●	●													
	DNMG150612-LM	15.5	12.7	6.35	5.16	1.2										○			●	●	○													
	DNMG150408-EM	15.5	12.7	4.76	5.16	0.8																			●	●	●							
	DNMG150412-EM	15.5	12.7	4.76	5.16	1.2																			●	●	●							
	DNMG150608-EM	15.5	12.7	6.35	5.16	0.8																			●	●	●							
	DNMG150612-EM	15.5	12.7	6.35	5.16	1.2																			●	●	●							
	DNMG150408-SMM	15.5	12.7	4.76	5.16	0.8																			●	●	○							
	DNMG150608-SMM	15.5	12.7	6.35	5.16	0.8																			●	●	○							
 Wiper	DNMX150408-WMV	15.5	12.7	4.76	5.16	0.8																●	○											
	DNMX150412-WMV	15.5	12.7	4.76	5.16	1.2																●	○											
	DNMX150608-WMV	15.5	12.7	6.35	5.16	0.8																○	○											
	DNMX150612-WMV	15.5	12.7	6.35	5.16	1.2																○	●	●										

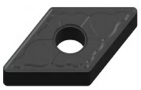
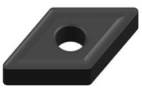
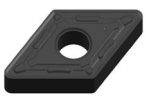
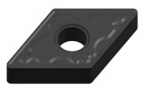
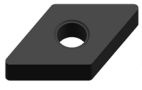
●Stock ○Available Upon Order

Turning Insert (Negative)

DN□□

Rhombic 55° with Hole



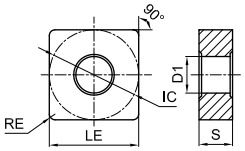
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides				Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	DNMG150404-MK	15.5	12.7	4.76	5.16	0.4																●	●											
	DNMG150408-MK	15.5	12.7	4.76	5.16	0.8																●	●											
	DNMG150412-MK	15.5	12.7	4.76	5.16	1.2																●	●											
	DNMG150604-MK	15.5	12.7	6.35	5.16	0.4																●	●											
	DNMG150608-MK	15.5	12.7	6.35	5.16	0.8																●	●											
	DNMG150612-MK	15.5	12.7	6.35	5.16	1.2																	●											
	DNMG150404-UK	15.5	12.7	4.76	5.16	0.4																●		●										
	DNMG150408-UK	15.5	12.7	4.76	5.16	0.8																●	●	●										
	DNMG150412-UK	15.5	12.7	4.76	5.16	1.2																●		○										
	DNMG150604-UK	15.5	12.7	6.35	5.16	0.4																●	○	●										
	DNMG150608-UK	15.5	12.7	6.35	5.16	0.8																●	●	●										
	DNMG150612-UK	15.5	12.7	6.35	5.16	1.2																●	○	○										
	DNMG150616-UK	15.5	12.7	6.35	5.16	1.6																●		●										
	DNMG150408-LR	15.5	12.7	4.76	5.16	0.8										●				○	●													
	DNMG150412-LR	15.5	12.7	4.76	5.16	1.2										●				●	●													
	DNMG150608-LR	15.5	12.7	6.35	5.16	0.8										●					●													
	DNMG150612-LR	15.5	12.7	6.35	5.16	1.2															○													
	DNMG150408-QR	15.5	12.7	4.76	5.16	0.8	●	●	●				○																					
	DNMG150412-QR	15.5	12.7	4.76	5.16	1.2	○	●	○				○																					
	DNMG150608-QR	15.5	12.7	6.35	5.16	0.8	●	●	●		○		●		●																			
	DNMG150612-QR	15.5	12.7	6.35	5.16	1.2	●	●	●	●	●		●		●																			
	DNMG150616-QR	15.5	12.7	6.35	5.16	1.6	●	●	●	●	●		●		●																			
	DNMG150408-HK	15.5	12.7	4.76	5.16	0.8																●	●	○										
	DNMG150412-HK	15.5	12.7	4.76	5.16	1.2																●	●	●										
	DNMG150608-HK	15.5	12.7	6.35	5.16	0.8																●	●	●										
	DNMG150612-HK	15.5	12.7	6.35	5.16	1.2																●	●	●										
	DNMA150404	15.5	12.7	4.76	5.16	0.4																●		●										
	DNMA150408	15.5	12.7	4.76	5.16	0.8																●	●	●										
	DNMA150412	15.5	12.7	4.76	5.16	1.2																●	○	○										
	DNMA150416	15.5	12.7	4.76	5.16	1.6																●		●										
	DNMA150604	15.5	12.7	6.35	5.16	0.4																○		●										
	DNMA150608	15.5	12.7	6.35	5.16	0.8																●	●	●										
	DNMA150612	15.5	12.7	6.35	5.16	1.2																●	●	●										

●Stock ○Available Upon Order

Turning Insert (Negative)

SN□□

Square 90° with Hole



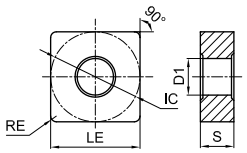
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	SNMG090304-QF	9.525	9.525	3.18	3.81	0.4							○																					
	SNMG090308-QF	9.525	9.525	3.18	3.81	0.8							○																					
	SNMG120404-QF	12.7	12.7	4.76	5.16	0.4	○	●	●		○		○																				○	
	SNMG120408-QF	12.7	12.7	4.76	5.16	0.8	●	●		●	●		○																				●	
	SNMG120404-GF	12.7	12.7	4.76	5.16	0.4					○																							
	SNMG120408-GF	12.7	12.7	4.76	5.16	0.8					○																							
	SNMG120404-SF	12.7	12.7	4.76	5.16	0.4																					●							
	SNMG120408-SF	12.7	12.7	4.76	5.16	0.8																					●							
	SNMG120404-YF	12.7	12.7	4.76	5.16	0.4														●	●													
	SNMG120408-YF	12.7	12.7	4.76	5.16	0.8														●	●													
	SNMG090304-QM	9.525	9.525	3.18	3.81	0.4					○		○	○																				
	SNMG090308-QM	9.525	9.525	3.18	3.81	0.8					○		●	○																				
	SNMG120404-QM	12.7	12.7	4.76	5.16	0.4	○	●	●		○	○	●	●																				
	SNMG120408-QM	12.7	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●	●																				
	SNMG120412-QM	12.7	12.7	4.76	5.16	1.2	●	●	●	○	●		●	●																				
	SNMG120416-QM	12.7	12.7	4.76	5.16	1.6	●		●	●			●	○																				
	SNMG150608-QM	15.875	15.875	6.35	6.35	0.8	○	●	○		○		○	○																				
	SNMG150612-QM	15.875	15.875	6.35	6.35	1.2	●	●	●	●	○		●	○																				
	SNMG190612-QM	19.05	19.05	6.35	7.94	1.2		●		○	○		●																				
	SNMG090304-GM	9.525	9.525	3.18	3.81	0.4							○																				
	SNMG090308-GM	9.525	9.525	3.18	3.81	0.8							○																				
	SNMG120404-GM	12.7	12.7	4.76	5.16	0.4							●																				
	SNMG120408-GM	12.7	12.7	4.76	5.16	0.8					○		●																				
	SNMG120412-GM	12.7	12.7	4.76	5.16	1.2					●		●																				
	SNMG120416-GM	12.7	12.7	4.76	5.16	1.6							●																				
	SNMG150608-GM	15.875	15.875	6.35	6.35	0.8							●																				
	SNMG150612-GM	15.875	15.875	6.35	6.35	1.2							●																				
	SNMG190612-GM	19.05	19.05	6.35	7.94	1.2							●																				
	SNMG190616-GM	19.05	19.05	6.35	7.94	1.6							○																				

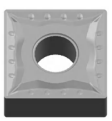
●Stock ○Available Upon Order

Turning Insert (Negative)

SN□□

Square 90° with Hole



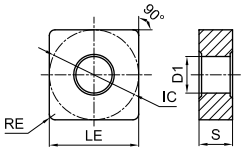
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	SNMG120404R-SV	12.7	12.7	4.76	5.16	0.4							●																				○		
	SNMG120408R-SV	12.7	12.7	4.76	5.16	0.8							●																				●		
	SNMG120408L-SV	12.7	12.7	4.76	5.16	0.8							●																				○		
	SNMG090304-SM	9.525	9.525	3.18	3.81	0.4											●	○	●		●														
	SNMG120404-SM	12.7	12.7	4.76	5.16	0.4											●	●	●	●	●														
	SNMG120408-SM	12.7	12.7	4.76	5.16	0.8										●	●	●	●	●	●							●					●		
	SNMG120412-SM	12.7	12.7	4.76	5.16	1.2											●	○	●	●	●														
	SNMG120416-SM	12.7	12.7	4.76	5.16	1.6											●	●	○		○														
	SNMG150608-SM	15.875	15.875	6.35	6.35	0.8													●	●	●							●							
	SNMG150612-SM	15.875	15.875	6.35	6.35	1.2													○		●														
	SNMG150616-SM	15.875	15.875	6.35	6.35	1.6											●		●		○														
	SNMG190612-SM	19.05	19.05	6.35	7.94	1.2											○	○	●		●														
	SNMG190616-SM	19.05	19.05	6.35	7.94	1.6											●	○	●		●														
	SNMG120404-TP	12.7	12.7	4.76	5.16	0.4																											●		
	SNMG120408-TP	12.7	12.7	4.76	5.16	0.8																											●		

●Stock ○Available Upon Order

Turning Insert (Negative)

SN□□

Square 90° with Hole



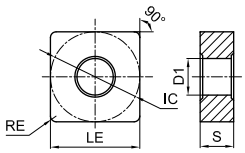
	Ordering Code	Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	SNMG120404-LM	12.7	12.7	4.76	5.16	0.4										●		○	●	●														
	SNMG120408-LM	12.7	12.7	4.76	5.16	0.8										●	●	●	●	●														
	SNMG120412-LM	12.7	12.7	4.76	5.16	1.2										●		○	●	●														
	SNMG120404-EM	12.7	12.7	4.76	5.16	0.4																		●	●									
	SNMG120408-EM	12.7	12.7	4.76	5.16	0.8																		●	●	●								
	SNMG120412-EM	12.7	12.7	4.76	5.16	1.2																		●	●	●								
	SNMG120408-SMM	12.7	12.7	4.76	5.16	0.8																		●	●	○								
	SNMG120412-SMM	12.7	12.7	4.76	5.16	1.2																		●	○	○								
	SNMG120404-MK	12.7	12.7	4.76	5.16	0.4																●	●											
	SNMG120408-MK	12.7	12.7	4.76	5.16	0.8																●	●											
	SNMG120412-MK	12.7	12.7	4.76	5.16	1.2																●	●											
	SNMG120408-UK	12.7	12.7	4.76	5.16	0.8							○									●	●	●										
	SNMG120412-UK	12.7	12.7	4.76	5.16	1.2																●	●	●										
	SNMG150412-UK	15.875	15.875	4.76	6.35	1.2																○		○										
	SNMG150608-UK	15.875	15.875	6.35	6.35	0.8																												
	SNMG150612-UK	15.875	15.875	6.35	6.35	1.2																●	○	●										
	SNMG150616-UK	15.875	15.875	6.35	6.35	1.6																○		○										
	SNMG190612-UK	19.05	19.05	6.35	7.94	1.2																●	○	○										
	SNMG190616-UK	19.05	19.05	6.35	7.94	1.6																○	○	○										
	SNMG120408-LR	12.7	12.7	4.76	5.16	0.8														●	●													
	SNMG120412-LR	12.7	12.7	4.76	5.16	1.2										●				●	●													
	SNMG150608-LR	15.875	15.875	6.35	6.35	0.8														●	●													
	SNMG150612-LR	15.875	15.875	6.35	6.35	1.2														○	●													
	SNMG190612-LR	19.05	19.05	6.35	7.94	1.2										●				○	●													
	SNMG190616-LR	19.05	19.05	6.35	7.94	1.6										●				●	●													

●Stock ○Available Upon Order

Turning Insert (Negative)

SN□□

Square 90° with Hole



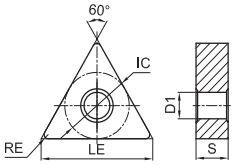
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	SNMG120408-QR	12.7	12.7	4.76	5.16	0.8	●	●	●				●		●																			
	SNMG120412-QR	12.7	12.7	4.76	5.16	1.2	●	●	●				○		●																			
	SNMG120416-QR	12.7	12.7	4.76	5.16	1.6	○	●	○				○		●																			
	SNMG150608-QR	15.875	15.875	6.35	6.35	0.8							○		●																			
	SNMG150612-QR	15.875	15.875	6.35	6.35	1.2							●		●																			
	SNMG150616-QR	15.875	15.875	6.35	6.35	1.6							○		●																			
	SNMG150624-QR	15.875	15.875	6.35	6.35	2.4							●																					
	SNMG190608-QR	19.05	19.05	6.35	7.94	0.8							○																					
	SNMG190612-QR	19.05	19.05	6.35	7.94	1.2			●	○			●		●																			
	SNMG190616-QR	19.05	19.05	6.35	7.94	1.6	●	●	●	●			●		●																			
	SNMG190624-QR	19.05	19.05	6.35	7.94	2.4	○	●	●				○																					
	SNMG250724-QR	25.4	25.4	7.94	9.21	2.4		●					○																					
	SNMG250924-QR	25.4	25.4	9.52	9.21	2.4		●					○																					
	SNMG120408-HK	12.7	12.7	4.76	5.16	0.8																●	●	●										
	SNMG120412-HK	12.7	12.7	4.76	5.16	1.2																●	●	●										
	SNMG120416-HK	12.7	12.7	4.76	5.16	1.6																●	●	●										
	SNMG150612-HK	15.875	15.875	6.35	6.35	1.2																●	○	●										
	SNMG150616-HK	15.875	15.875	6.35	6.35	1.6																○		○										
	SNMG190612-HK	19.05	19.05	6.35	7.94	1.2																●	○	●										
	SNMG190616-HK	19.05	19.05	6.35	7.94	1.6																○	○	●										
	SNMM150616-QH	15.875	15.875	6.35	7.94	1.6		●		○	●																							
	SNMM190612-QH	19.05	19.05	6.35	7.94	1.2			●				○																					
	SNMM190616-QH	19.05	19.05	6.35	7.94	1.6							●		●																			
	SNMM190624-QH	19.05	19.05	6.35	7.94	2.4	●	●	●				●		●																			
	SNMM250724-QH	25.4	25.4	7.94	9.12	2.4				●	●		●		●																			
	SNMM250924-QH	25.4	25.4	9.52	9.12	2.4	○	●	●	●	○		●		●																			
	SNMM250932-QH	25.4	25.4	9.52	9.12	3.2							○		●																			
	SNMA090308	9.525	9.525	3.18	3.81	0.8																●												
	SNMA120404	12.7	12.7	4.76	5.16	0.4																●		●										
	SNMA120408	12.7	12.7	4.76	5.16	0.8																●	●	●										
	SNMA120412	12.7	12.7	4.76	5.16	1.2																●	●	●										
	SNMA120416	12.7	12.7	4.76	5.16	1.6																●	○	●										
	SNMA190612	19.05	19.05	6.35	7.94	1.2																●	○	○										
	SNMA190616	19.05	19.05	6.35	7.94	1.6																●	○	○										
	SNMA190632	19.05	19.05	6.35	7.94	3.2																○												

●Stock ○Available Upon Order

Turning Insert (Negative)

TN□□

Triangle 60° with Hole



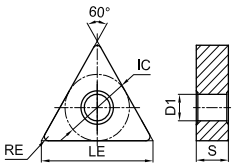
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TNMG160404-QF	16.5	9.525	4.76	3.81	0.4	●	●	●	●	●	●	●																			●	●	
	TNMG160408-QF	16.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●																			○	●	
	TNMG220404-QF	22	12.7	4.76	5.16	0.4	●	○	●		●		○																					
	TNMG160404-TF	16.5	9.525	4.76	3.81	0.4																										●	○	
	TNMG160408-TF	16.5	9.525	4.76	3.81	0.8																										○	○	
	TNMG160404-GF	16.5	9.525	4.76	3.81	0.4					●		●																					
	TNMG160408-GF	16.5	9.525	4.76	3.81	0.8					●		○																					
	TNMG220404-GF	22	12.7	4.76	5.16	0.4					●																							
	TNMG160404-SF	16.5	9.525	4.76	3.81	0.4														●	●							●						
	TNMG160408-SF	16.5	9.525	4.76	3.81	0.8														●								●						
	TNMG160404-YF	16.5	9.525	4.76	3.81	0.4														●	●													
	TNMG160408-YF	16.5	9.525	4.76	3.81	0.8														●	●													
	TNMG160404-SPL	16.5	9.525	4.76	3.81	0.4																												●
	TNMG160408-SPL	16.5	9.525	4.76	3.81	0.8																												●
	TNMG110304-QM	11	6.35	3.18	2.26	0.4					○		○																					
	TNMG110308-QM	11	6.35	3.18	2.26	0.8					○		○																					
	TNMG160404-QM	16.5	9.525	4.76	3.81	0.4	●	●	●	●	●	●	●		●		○					●	●										●	
	TNMG160408-QM	16.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●	●	●		●					●											○	●	
	TNMG160412-QM	16.5	9.525	4.76	3.81	1.2	●	●	●	●	●	●	●	●	●							●												
	TNMG220408-QM	22	12.7	4.76	5.16	0.8	●	●	●		●		●																					
	TNMG220412-QM	22	12.7	4.76	5.16	1.2	○	●	○		●		●																					
	TNMG220416-QM	22	12.7	4.76	5.16	1.6	●				○		●																					

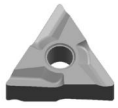
●Stock ○Available Upon Order

Turning Insert (Negative)

TN□□

Triangle 60° with Hole



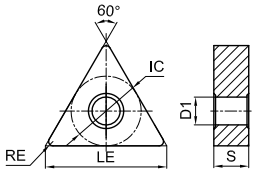
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TNMG160308-GM	16.5	9.525	3.18	3.81	0.8							○																					
	TNMG160312-GM	16.5	9.525	3.18	3.81	1.2							●																					
	TNMG160404-GM	16.5	9.525	4.76	3.81	0.4					●		●																					
	TNMG160408-GM	16.5	9.525	4.76	3.81	0.8					●		●																					
	TNMG160412-GM	16.5	9.525	4.76	3.81	1.2					○		●																					
	TNMG220404-GM	22	12.7	4.76	5.16	0.4							●																					
	TNMG220408-GM	22	12.7	4.76	5.16	0.8					○		●																					
	TNMG220412-GM	22	12.7	4.76	5.16	0.8					○		○																					
	TNMG160404R-SV	16.5	9.525	4.76	3.81	0.4					●		●				●																●	●
	TNMG160404L-SV	16.5	9.525	4.76	3.81	0.4					●		●				○																●	●
	TNMG160408R-SV	16.5	9.525	4.76	3.81	0.8					○		●				●																●	●
	TNMG160408L-SV	16.5	9.525	4.76	3.81	0.8							●				○																●	○
	TNMG160404-SM	16.5	9.525	4.76	3.81	0.4										●	●	●	●	●	●													
	TNMG160408-SM	16.5	9.525	4.76	3.81	0.8										●	●	●		●	●							●						
	TNMG160412-SM	16.5	9.525	4.76	3.81	1.2										○	○	○			●													
	TNMG220408-SM	22	12.7	4.76	5.16	0.8											●	●			●													
	TNMG220412-SM	22	12.7	4.76	5.16	1.2														○	●													
	TNMG220416-SM	22	12.7	4.76	5.16	1.6												○																
	TNMG160404-TP	16.5	9.525	4.76	3.81	0.4																											●	●
	TNMG160408-TP	16.5	9.525	4.76	3.81	0.8																											●	○
	TNMG160404R-TS	16.5	9.525	4.76	3.81	0.4																											●	●
	TNMG160404L-TS	16.5	9.525	4.76	3.81	0.4																											●	●
	TNMG160408R-TS	16.5	9.525	4.76	3.81	0.8																											●	●
	TNMG160408L-TS	16.5	9.525	4.76	3.81	0.8																											●	●

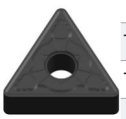
●Stock ○Available Upon Order

Turning Insert (Negative)

TN□□

Triangle 60° with Hole



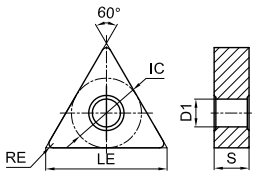
	Ordering Code	Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TNMG160404-LM	16.5	9.525	4.76	3.81	0.4										●	○	●	○	●	●														
	TNMG160408-LM	16.5	9.525	4.76	3.81	0.8										●	●	●	●	●	●														
	TNMG160412-LM	16.5	9.525	4.76	3.81	1.2														●	●														
	TNMG160408-EM	16.5	9.525	4.76	3.81	0.8																		●											
	TNMG160412-EM	16.5	9.525	4.76	3.81	1.2																		●											
	TNMX160408-WMV	16.5	9.525	4.76	3.81	0.8																●	○												
	TNMX160412-WMV	16.5	9.525	4.76	3.81	1.2																●	○												
	TNMG160404-MK	16.5	9.525	4.76	3.81	0.4																●	●												
	TNMG160408-MK	16.5	9.525	4.76	3.81	0.8																●	●												
	TNMG160412-MK	16.5	9.525	4.76	3.81	1.2																	●												
	TNMG160404-UK	16.5	9.525	4.76	3.81	0.4																●	●	●											
	TNMG160408-UK	16.5	9.525	4.76	3.81	0.8																●	●	●											
	TNMG160412-UK	16.5	9.525	4.76	3.81	1.2																●		○											
	TNMG160416-UK	16.5	9.525	4.76	3.81	1.6																●	○	○											
	TNMG220408-UK	22	12.7	4.76	5.16	0.8																●		○											
	TNMG220412-UK	22	12.7	4.76	5.16	1.2																●													
	TNMG220416-UK	22	12.7	4.76	5.16	1.6																○		●											
	TNMG160408-LR	16.5	9.525	4.76	3.81	0.8										●				●	●														
	TNMG160412-LR	16.5	9.525	4.76	3.81	1.2														●	●														
	TNMG220408-LR	22	12.7	4.76	5.16	0.8														●	●														
	TNMG160408-QR	16.5	9.525	4.76	3.81	0.8			●				○		●																				
	TNMG160412-QR	16.5	9.525	4.76	3.81	1.2	○		○				○		●																				
	TNMG220408-QR	22	12.7	4.76	5.16	0.8	○	●	●				●																						
	TNMG220412-QR	22	12.7	4.76	5.16	1.2	○	●	●				●		●																				
	TNMG220416-QR	22	12.7	4.76	5.16	1.6	●	○	●				●	○	○																				
	TNMG270608-QR	27.5	15.875	6.35	6.35	0.8							○																						
	TNMG270612-QR	27.5	15.875	6.35	6.35	1.2		○					●		●																				
	TNMG270616-QR	27.5	15.875	6.35	6.35	1.6									●																				
	TNMG330924-QR	33	19.05	9.52	7.94	2.4							○																						

●Stock ○Available Upon Order

Turning Insert (Negative)

TN□□

Triangle 60° with Hole



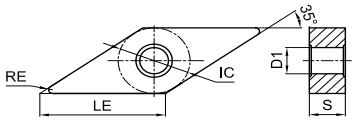
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides	Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TNMG160408-HK	16.5	9.525	4.76	3.81	0.8																●	●	●											
	TNMG160412-HK	16.5	9.525	4.76	3.81	1.2																●	●	●											
	TNMG220408-HK	22	12.7	4.76	5.16	0.8																●	●	●											
	TNMG220412-HK	22	12.7	4.76	5.16	1.2																●	○	○											
	TNMG220416-HK	22	12.7	4.76	5.16	1.6																●	○	●											
	TNMG270612-HK	27.5	15.875	6.35	6.35	1.2																●		●											
	TNMG270616-HK	27.5	15.875	6.35	6.35	1.6																●		●											
	TNMA110304	11	6.35	3.18	2.26	0.4																		○											
	TNMA160308	16.5	9.525	3.18	3.81	0.8																●		●											
	TNMA160404	16.5	9.525	4.76	3.81	0.4																●		●											
	TNMA160408	16.5	9.525	4.76	3.81	0.8																●	○	●											
	TNMA160412	16.5	9.525	4.76	3.81	1.2																●	●	●											
	TNMA160416	16.5	9.525	4.76	3.81	1.6																○	○	●											
	TNMA220404	22	12.7	4.76	5.16	0.4																●		●											
	TNMA220408	22	12.7	4.76	5.16	0.8																○		○											
	TNMA220412	22	12.7	4.76	5.16	1.2																○		○											
	TNMA220416	22	12.7	4.76	5.16	1.6																○		●											

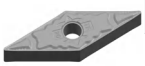
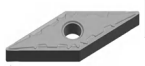
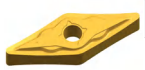
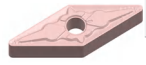
●Stock ○Available Upon Order

Turning Insert (Negative)

VN□□

Rhombic 35° with Hole



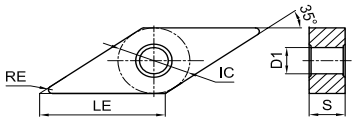
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	VNMG160402-QF	16.6	9.525	4.76	3.81	0.2			●				●																					
	VNMG160404-QF	16.6	9.525	4.76	3.81	0.2	●	●	●	●	●	●	●									○										●	○	
	VNMG160408-QF	16.6	9.525	4.76	3.81	0.2	●	●	●	●	●	○	●									●										●	○	
	VNMG220408-QF	22.1	12.7	4.76	5.16	0.8					●		○																					
	VNMG160404-TF	16.6	9.525	4.76	3.81	0.4																										●	○	
	VNMG160408-TF	16.6	9.525	4.76	3.81	0.8																										○		
	VNMG160404-GF	16.6	9.525	4.76	3.81	0.4					●		○																					
	VNMG160408-GF	16.6	9.525	4.76	3.81	0.8					●		●									●												
	VNMG220404-GF	22.1	12.7	4.76	5.16	0.4					○																							
	VNMG160404-SF	16.6	9.525	4.76	3.81	0.4														●	●							●						
	VNMG160408-SF	16.6	9.525	4.76	3.81	0.8														●								●						
	VNMG160404-YF	16.6	9.525	4.76	3.81	0.4														●	●													
	VNMG160408-YF	16.6	9.525	4.76	3.81	0.8														●	●													
	VNMG160404-SPL	16.6	9.525	4.76	3.81	0.4																												●
	VNMG160408-SPL	16.6	9.525	4.76	3.81	0.8																												●
	VNMG160404-EL	16.6	9.525	4.76	3.81	0.4																			●									
	VNMG160408-EL	16.6	9.525	4.76	3.81	0.8																			●	●								
	VNMG160412-EL	16.6	9.525	4.76	3.81	1.2																			●	●								
	VNMG160404-SML	16.6	9.525	4.76	3.81	0.4																			●									
	VNMG160408-SML	16.6	9.525	4.76	3.81	0.8																			●									
	VNMG160412-SML	16.6	9.525	4.76	3.81	1.2																			●									
	VNMG160404-QM	16.6	9.525	4.76	3.81	0.4	●	●	●		●	●	●	●	●							●										●	●	
	VNMG160408-QM	16.6	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●	●	●							●											○	
	VNMG160412-QM	16.6	9.525	4.76	3.81	1.2	●	●	●		●		●		●							●												

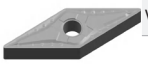
●Stock ○Available Upon Order

Turning Insert (Negative)

VN□□

Rhombic 35° with Hole



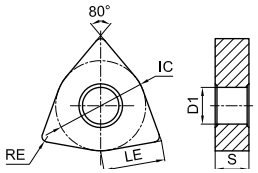
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides	Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	VNMG160404-GM	16.6	9.525	4.76	3.81	0.4					○		●										●											
	VNMG160408-GM	16.6	9.525	4.76	3.81	0.8					●		●																					
	VNMG160412-GM	16.6	9.525	4.76	3.81	1.2					●		●																					
	VNMG160404-SM	16.6	9.525	4.76	3.81	0.4										●	○	●	○	●	●													
	VNMG160408-SM	16.6	9.525	4.76	3.81	0.8										○	○	○		●	○													
	VNMG160404-TP	16.6	9.525	4.76	3.81	0.4																										●	●	
	VNMG160408-TP	16.6	9.525	4.76	3.81	0.8																										●	●	
	VNMG160404-LM	16.6	9.525	4.76	3.81	0.4										●	●	●	○	●	●													
	VNMG160408-LM	16.6	9.525	4.76	3.81	0.8										●	●	●	○	●	●													
	VNMG160408-EM	16.6	9.525	4.76	3.81	0.8																			●	●	●							
	VNMG160412-EM	16.6	9.525	4.76	3.81	1.2																			●	●	●							
	VNMG160408-SMM	16.6	9.525	4.76	3.81	0.8																			●	●	●							
	VNMG160412-SMM	16.6	9.525	4.76	3.81	1.2																			●									
	VNMG160404-MK	16.6	9.525	4.76	3.81	0.4																●	●											
	VNMG160408-MK	16.6	9.525	4.76	3.81	0.8																●	●											
	VNMG160412-MK	16.6	9.525	4.76	3.81	1.2																●	●											
	VNMG160404-UK	16.6	9.525	4.76	3.81	0.4																●	●	●										
	VNMG160408-UK	16.6	9.525	4.76	3.81	0.8																●	●	●										
	VNMG160412-UK	16.6	9.525	4.76	3.81	1.2																●	○	●										
	VNMG160408-HK	16.6	9.525	4.76	3.81	0.8																●	●	○										
	VNMG160412-HK	16.6	9.525	4.76	3.81	1.2																●	●											

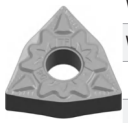
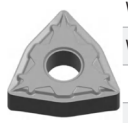
●Stock ○Available Upon Order

Turning Insert (Negative)

WN□□

Trigon 80° with Hole



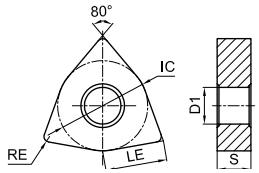
Ordering Code		Dimension (mm)					Coated Carbides																							Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	WNMG060404-QF	6.5	9.525	4.76	3.81	0.4	●	●	●		○		●																					
	WNMG060408-QF	6.5	9.525	4.76	3.81	0.8	●	●	●		○		●																					
	WNMG080404-QF	8.7	12.7	4.76	5.16	0.4	●	●	●	●	●	●	●																				●	○	
	WNMG080408-QF	8.7	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●																				●	●	
	WNMG080404-TF	8.7	12.7	4.76	5.16	0.4																											●	●	
	WNMG080408-TF	8.7	12.7	4.76	5.16	0.8																											○	●	
	WNMG06T304-GF	6.5	9.525	3.97	3.81	0.4					●		○																					
	WNMG06T308-GF	6.5	9.525	3.97	3.81	0.8					○		●																					
	WNMG060404-GF	6.5	9.525	4.76	3.81	0.4					○																							
	WNMG060408-GF	6.5	9.525	4.76	3.81	0.8					○																							
	WNMG080404-GF	8.7	12.7	4.76	5.16	0.4					●		○																					
	WNMG080408-GF	8.7	12.7	4.76	5.16	0.8					●		●																					
	WNMG060404-SF	6.5	9.525	4.76	3.81	0.4														○							●							
	WNMG060408-SF	6.5	9.525	4.76	3.81	0.8														○							●							
	WNMG080404-SF	8.7	12.7	4.76	5.16	0.4														●	●						●							
	WNMG080408-SF	8.7	12.7	4.76	5.16	0.8														●							●							
	WNMG080404-YF	8.7	12.7	4.76	5.16	0.4														●	●													
	WNMG080408-YF	8.7	12.7	4.76	5.16	0.8														●	●													
	WNMG080404-SPL	8.7	12.7	4.76	5.16	0.4																												●
	WNMG080408-SPL	8.7	12.7	4.76	5.16	0.8																												●
	WNMG080404-EL	8.7	12.7	4.76	5.16	0.4																			●	○								
	WNMG080408-EL	8.7	12.7	4.76	5.16	0.8																			●	●								
	WNMG080412-EL	8.7	12.7	4.76	5.16	1.2																			●	●								
	WNMG080404-SML	8.7	12.7	4.76	5.16	0.4																			●									
	WNMG080408-SML	8.7	12.7	4.76	5.16	0.8																			●	●								
	WNMG080412-SML	8.7	12.7	4.76	5.16	1.2																			●	○								

●Stock ○Available Upon Order

Turning Insert (Negative)

WN□□

Trigon 80° with Hole



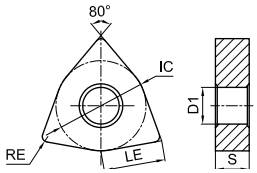
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	WNMG060404-QM	6.5	9.525	4.76	3.81	0.4	●	●	●		○		●		●							●												
	WNMG060408-QM	6.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●		●																			
	WNMG060412-QM	6.5	9.525	4.76	3.81	1.2	●	●	●		○	○																						
	WNMG080404-QM	8.7	12.7	4.76	5.16	0.4	●	●	●	●	●	●	●	●	●		○					●											●	
	WNMG080408-QM	8.7	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●	●	●		●					●											●	●
	WNMG080412-QM	8.7	12.7	4.76	5.16	1.2	●	●	●	●	●	●	●	●	●							●												
	WNMG080416-QM	8.7	12.7	4.76	5.16	1.6	●	●	●	●	○		●		●																			
	WNMG06T304-GM	6.5	9.525	3.97	3.81	0.4					○		●									●												
	WNMG06T308-GM	6.5	9.525	3.97	3.81	0.8					○		●										●											
	WNMG06T312-GM	6.5	9.525	3.97	3.81	1.2					○		●										○											
	WNMG060404-GM	6.5	9.525	4.76	3.81	0.4					○		●																					
	WNMG060408-GM	6.5	9.525	4.76	3.81	0.8					○		●																					
	WNMG080404-GM	8.7	12.7	4.76	5.16	0.4					●		●																					
	WNMG080408-GM	8.7	12.7	4.76	5.16	0.8					●		●									●												
	WNMG080412-GM	8.7	12.7	4.76	5.16	1.2					●		●																					
	WNMG080416-GM	8.7	12.7	4.76	5.16	1.6					●		●																					
	WNMG080408R-SV	8.7	12.7	4.76	5.16	0.8				●			●																					
	WNMG080408L-SV	8.7	12.7	4.76	5.16	0.8				●			●																					

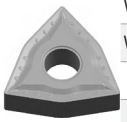
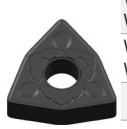
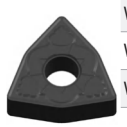
●Stock ○Available Upon Order

Turning Insert (Negative)

WN□□

Trigon 80° with Hole



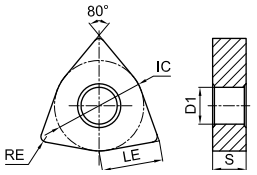
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	WNMG06T304-SM	6.5	9.525	3.97	3.81	0.4														●														
	WNMG06T308-SM	6.5	9.525	3.97	3.81	0.8														●														
	WNMG060404-SM	6.5	9.525	4.76	3.81	0.4										○	●	○		●														
	WNMG060408-SM	6.5	9.525	4.76	3.81	0.8											●	●	●	●														
	WNMG060412-SM	6.5	9.525	4.76	3.81	1.2										●		○																
	WNMG080404-SM	8.7	12.7	4.76	5.16	0.4										○	●	●		●	●											●	●	
	WNMG080408-SM	8.7	12.7	4.76	5.16	0.8										●	●	●	●	●	●							●				●	○	
	WNMG080412-SM	8.7	12.7	4.76	5.16	1.2										○	●	●		●	●													
	WNMG080404-TP	8.7	12.7	4.76	5.16	0.4																										●	●	
	WNMG080408-TP	8.7	12.7	4.76	5.16	0.8																										●	●	
	WNMG06T304-LM	6.5	9.525	3.97	3.81	0.4													○		●													
	WNMG06T308-LM	6.5	9.525	3.97	3.81	0.8														○	●													
	WNMG060404-LM	6.5	9.525	4.76	3.81	0.4											○	○	●	○	●													
	WNMG060408-LM	6.5	9.525	4.76	3.81	0.8											●	○	●		●													
	WNMG080404-LM	8.7	12.7	4.76	5.16	0.4										●	●	●	●	●	●													
	WNMG080408-LM	8.7	12.7	4.76	5.16	0.8										●	●	●	●	●	●							●						
	WNMG080412-LM	8.7	12.7	4.76	5.16	1.2										○	●	○	○	●	●													
	WNMG080408-EM	8.7	12.7	4.76	5.16	0.8																			●	●	●							
	WNMG080412-EM	8.7	12.7	4.76	5.16	0.8																			●	●	●							
	WNMG080408-SMM	8.7	12.7	4.76	5.16	0.8																			●									
	WNMG080412-SMM	8.7	12.7	4.76	5.16	1.2																			●									
	WNMG080408-WMV	8.7	12.7	4.76	5.16	0.8																	●	○										
	WNMG080412-WMV	8.7	12.7	4.76	5.16	1.2																	●	○										
	WNMG080404-MK	8.7	12.7	4.76	5.16	0.4																	●	●										
	WNMG080408-MK	8.7	12.7	4.76	5.16	0.8																	●	●										
	WNMG080412-MK	8.7	12.7	4.76	5.16	1.2																	●	●										

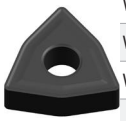
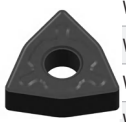
●Stock ○Available Upon Order

Turning Insert (Negative)

WN□□

Trigon 80° with Hole



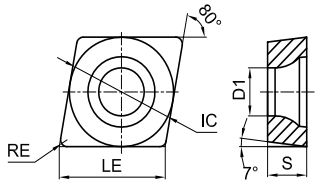
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides	Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	WNMG080404-UK	8.7	12.7	4.76	5.16	0.4																●	●	●											
	WNMG080408-UK	8.7	12.7	4.76	5.16	0.8																●	●	●											
	WNMG080412-UK	8.7	12.7	4.76	5.16	1.2																●	●	●											
	WNMG080408-LR	8.7	12.7	4.76	5.16	0.8										●				●	●														
	WNMG080412-LR	8.7	12.7	4.76	5.16	1.2										●		○		●	●														
	WNMG080408-QR	8.7	12.7	4.76	5.16	0.8	●	●	●	○	●		●		●																				
	WNMG080412-QR	8.7	12.7	4.76	5.16	1.2	●	●	●	●	●		●		●																				
	WNMG080416-QR	8.7	12.7	4.76	5.16	1.6	●	●	●		●		○		●																				
	WNMG06T308-HK	6.5	9.525	3.97	3.81	0.8																●	●												
	WNMG060408-HK	6.5	9.525	4.76	3.81	0.8																●		●											
	WNMG080408-HK	8.7	12.7	4.76	5.16	0.8																●	●	●											
	WNMG080412-HK	8.7	12.7	4.76	5.16	1.2																●	●	●											
	WNMA06T304	6.5	9.525	3.97	3.81	0.4																●													
	WNMA060404	6.5	9.525	4.76	3.81	0.4																●		●											
	WNMA060408	6.5	9.525	4.76	3.81	0.8																●		●											
	WNMA080404	8.7	12.7	4.76	5.16	0.4																●		●											
	WNMA080408	8.7	12.7	4.76	5.16	0.8																●	●	●											
	WNMA080412	8.7	12.7	4.76	5.16	1.2																●	●	●											
	WNMA080416	8.7	12.7	4.76	5.16	1.6																●	●	○											

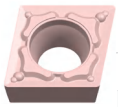
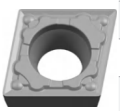
●Stock ○Available Upon Order

Turning Insert (Positive)

CC□□

Rhombic 80° with Hole



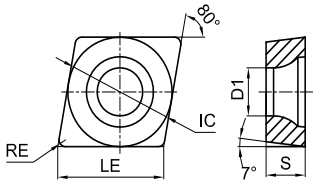
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CCMT060202-MM	6.5	6.35	2.38	2.8	0.2	●	●	●							●				●	●				●								○	●
	CCMT060204-MM	6.5	6.35	2.38	2.8	0.4	●	●	●							●				●	●	●	●		●								●	●
	CCMT060208-MM	6.5	6.35	2.38	2.8	0.8	●	●	●											●	●	●	●			○							●	○
	CCMT09T302-MM	9.7	9.525	3.97	4.4	0.2	●	●	●											●	●				○								●	●
	CCMT09T304-MM	9.7	9.525	3.97	4.4	0.4	●	●	●											●	●	●	●	●	●								●	●
	CCMT09T308-MM	9.7	9.525	3.97	4.4	0.8	●	●	●											●	●	●	●	●	●	●	●						○	●
	CCMT120404-MM	12.9	12.7	4.76	5.56	0.4		●	●													●			●									
	CCMT120408-MM	12.9	12.7	4.76	5.56	0.8		●	●																									
	CCMT060204-FP	6.5	6.35	2.38	2.8	0.4										●						o											●	
	CCMT09T302-FP	9.7	9.525	3.97	4.4	0.2	o	o																										
	CCMT09T304-FP	9.7	9.525	3.97	4.4	0.4	o	●	o							o				●		●			●								●	o
	CCMT09T308-FP	9.7	9.525	3.97	4.4	0.8										●				o		●			o								o	
	CCMT060202-SPL	6.5	6.35	2.38	2.8	0.2																												●
	CCMT060204-SPL	6.5	6.35	2.38	2.8	0.4																												●
	CCMT09T302-SPL	9.7	9.525	3.97	4.4	0.2																												●
	CCMT09T304-SPL	9.7	9.525	3.97	4.4	0.4																												●
	CCMT09T308-SPL	9.7	9.525	3.97	4.4	0.8																												●
	CCMT060202-GP	6.5	6.35	2.38	2.8	0.2	●		○		○		●				○	○				●											●	●
	CCMT060204-GP	6.5	6.35	2.38	2.8	0.4	●	●	●		●	●	●			●	●	●		●	●	●	○	○									●	●
	CCMT060208-GP	6.5	6.35	2.38	2.8	0.8	●	●	●		○		●				●	●	○	●	●	●	○	○									○	○
	CCMT09T302-GP	9.7	9.525	3.97	4.4	0.2	●		○		●		●				●	●				●											○	○
	CCMT09T304-GP	9.7	9.525	3.97	4.4	0.4	●	●	●		●	●	●	●		●	●	●	●	●	●	●	●	●									●	●
	CCMT09T308-GP	9.7	9.525	3.97	4.4	0.8	●	●	●		●	●	●	●		●	●	●	○	●	●	●	●	●									○	●
	CCMT120404-GP	12.9	12.7	4.76	5.56	0.4	●	●	○		●	●	●			●	●	●		●	●	●	○	●									○	○
	CCMT120408-GP	12.9	12.7	4.76	5.56	0.8	●	●	●		●	●	●			●	●	●	●	●	●	●	●	●									○	●
	CCMT120412-GP	12.9	12.7	4.76	5.56	1.2	●		○		●		○				●	●				●	●												
	CCGT060202-GP	6.5	6.35	2.38	2.8	0.2															●													
	CCGT060204-GP	6.5	6.35	2.38	2.8	0.4															●													
	CCGT060208-GP	6.5	6.35	2.38	2.8	0.8															●													
	CCGT09T302-GP	9.7	9.525	3.97	4.4	0.2															●													
	CCGT09T304-GP	9.7	9.525	3.97	4.4	0.4															●													
	CCGT09T308-GP	9.7	9.525	3.97	4.4	0.8															●													
	CCGT120404-GP	12.9	12.7	4.76	5.56	0.4															●													
	CCGT120408-GP	12.9	12.7	4.76	5.56	0.8															○													

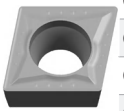
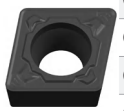
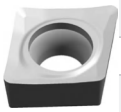
●Stock ○Available Upon Order

Turning Insert (Positive)

CC□□

Rhombic 80° with Hole



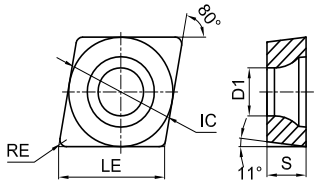
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides				Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CCMT060202-TP	6.5	6.35	2.38	2.8	0.2																										●	●	
	CCMT060204-TP	6.5	6.35	2.38	2.8	0.4																										●	●	
	CCMT060208-TP	6.5	6.35	2.38	2.8	0.8																										●	●	
	CCMT09T302-TP	9.7	9.525	3.97	4.4	0.2																										●	●	
	CCMT09T304-TP	9.7	9.525	3.97	4.4	0.4																										●	●	
	CCMT09T308-TP	9.7	9.525	3.97	4.4	0.8																										●	●	
	CCMT120404-TP	12.9	12.7	4.76	5.56	0.4																										●	●	
	CCMT120408-TP	12.9	12.7	4.76	5.56	0.8																										●	●	
	CCMT060204-KM	6.5	6.35	2.38	2.8	0.4																●	●	●										
	CCMT09T304-KM	9.7	9.525	3.97	4.4	0.4																●	●	●										
	CCMT09T308-KM	9.7	9.525	3.97	4.4	0.8																●	●	●										
	CCMT120404-KM	12.9	12.7	4.76	5.56	0.4																●												
	CCMT120408-KM	12.9	12.7	4.76	5.56	0.8																●	●	●										
	CCMT120412-KM	12.9	12.7	4.76	5.56	1.2																●	●	●										
	CCGX060202-AL	6.5	6.35	2.38	2.8	0.2																						●		●				
	CCGX060204-AL	6.5	6.35	2.38	2.8	0.4																						●	●	●	○			
	CCGX060208-AL	6.5	6.35	2.38	2.8	0.8																						●						
	CCGX09T302-AL	9.7	9.525	3.97	4.4	0.2																						●	○	●				
	CCGX09T304-AL	9.7	9.525	3.97	4.4	0.4																						●	○	●	●			
	CCGX09T308-AL	9.7	9.525	3.97	4.4	0.8																						●	○	●				
	CCGX120402-AL	12.9	12.7	4.76	5.5	0.2																						●	●					
	CCGX120404-AL	12.9	12.7	4.76	5.5	0.4																						●	○	●	○			
	CCGX120408-AL	12.9	12.7	4.76	5.5	0.8																						●	○	●	●			

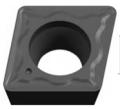
●Stock ○Available Upon Order

Turning Insert (Positive)

CP□□

Rhombic 80° with Hole



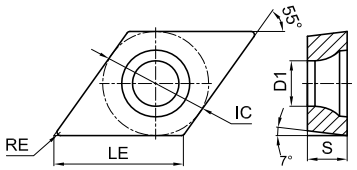
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	CPGT060204-GP	6.5	6.35	2.38	2.8	0.4														●														
	CPGT060208-GP	6.5	6.35	2.38	2.8	0.8														○														
	CPGT09T302-GP	9.7	9.525	3.97	4.4	0.2														●														
	CPGT09T304-GP	9.7	9.525	3.97	4.4	0.4														●														
	CPGT09T308-GP	9.7	9.525	3.97	4.4	0.8														○														
	CPGT120404-GP	12.9	12.7	4.76	5.56	0.4														○														
	CPGT120408-GP	12.9	12.7	4.76	5.56	0.8														●														

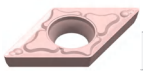
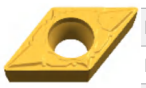
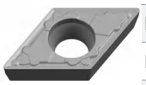
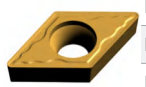
●Stock ○Available Upon Order

Turning Insert (Positive)

DC□□

Rhombic 55° with Hole



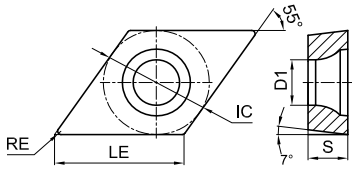
Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides				Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	DCMT070202-MM	7.8	6.35	2.38	2.8	0.2	●	●	●							●				●	●											●	●	
	DCMT070204-MM	7.8	6.35	2.38	2.8	0.4	●	●	●							●				●	●											●	●	
	DCMT070208-MM	7.8	6.35	2.38	2.8	0.8		●												●	●													
	DCMT11T302-MM	11.6	9.525	3.97	4.4	0.2	●	●	●											●	●											●	●	
	DCMT11T304-MM	11.6	9.525	3.97	4.4	0.4	●	●	●							●				●	●	●		●	●							●	●	
	DCMT11T308-MM	11.6	9.525	3.97	4.4	0.8	●	●	●							●				●	●			●	●							●	●	
	DCMT070208-FP	7.8	6.35	2.38	2.8	0.8										o																		
	DCMT11T304-FP	11.6	9.525	3.97	4.4	0.4	o	o								●				●	o	●										●		
	DCMT11T308-FP	11.6	9.525	3.97	4.4	0.8	o	●	o							o						o		o								o		
	DCMT070204-SPL	7.8	6.35	2.38	2.8	0.4																												●
	DCMT11T302-SPL	11.6	9.525	3.97	4.4	0.2																												●
	DCMT11T304-SPL	11.6	9.525	3.97	4.4	0.4																												●
	DCMT11T308-SPL	11.6	9.525	3.97	4.4	0.8																												●
	DCMT070202-GP	7.8	6.35	2.38	2.8	0.2	●		○	○		●					●	○				●											○	○	
	DCMT070204-GP	7.8	6.35	2.38	2.8	0.4	●		●	●		●				●	●	●		●	●	●		○								●	○	
	DCMT070208-GP	7.8	6.35	2.38	2.8	0.8	●		●	●		●					●	●		●	●	○		○								●		
	DCMT11T302-GP	11.6	9.525	3.97	4.4	0.2	●		○	●		●					○	●				●											●	●	
	DCMT11T304-GP	11.6	9.525	3.97	4.4	0.4	●	●	●	●		●				●	●	●	●	●	●	●		●								●	●	
	DCMT11T308-GP	11.6	9.525	3.97	4.4	0.8	●	●	●	●		●				●	●	●	○	●	●	●		○								●		
	DCMT11T312-GP	11.6	9.525	3.97	4.4	1.2														●	●													
	DCMT150404-GP	15.5	12.7	4.76	5.56	0.4			○				○				●	○																
	DCMT150408-GP	15.5	12.7	4.76	5.56	0.8	○		○				●				●	○				○													
	DCMT150412-GP	15.5	12.7	4.76	5.56	1.2											●	○																
	DCGT070202-GP	7.8	6.35	2.38	2.8	0.2															●													
	DCGT070204-GP	7.8	6.35	2.38	2.8	0.4															●													
	DCGT070208-GP	7.8	6.35	2.38	2.8	0.8															○													
	DCGT11T302-GP	11.6	9.525	3.97	4.4	0.2															●													
	DCGT11T304-GP	11.6	9.525	3.97	4.4	0.4															●													
	DCGT11T308-GP	11.6	9.525	3.97	4.4	0.8															●													

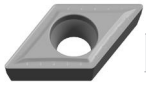
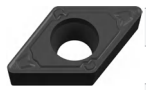
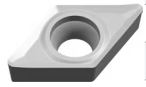
●Stock ○Available Upon Order

Turning Insert (Positive)

DC□□

Rhombic 55° with Hole



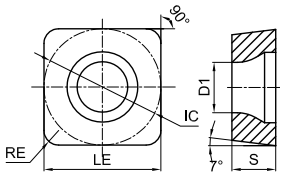
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	DCMT070202-TP	7.8	6.35	2.38	2.8	0.2																										●	●	
	DCMT070204-TP	7.8	6.35	2.38	2.8	0.4																										●	●	
	DCMT070208-TP	7.8	6.35	2.38	2.8	0.8																										●	●	
	DCMT11T302-TP	11.6	9.525	3.97	4.4	0.2																										●	●	
	DCMT11T304-TP	11.6	9.525	3.97	4.4	0.4																										●	●	
	DCMT11T308-TP	11.6	9.525	3.97	4.4	0.8																										●	●	
	DCMT11T304-KM	11.6	9.525	3.97	4.4	0.4																●	●											
	DCMT11T308-KM	11.6	9.525	3.97	4.4	0.8																●	●											
	DCGX070202-AL	7.8	6.35	2.38	2.8	0.2																						●		○				
	DCGX070204-AL	7.8	6.35	2.38	2.8	0.4																						●	●	●				
	DCGX070208-AL	7.8	6.35	2.38	2.8	0.8																						●		○				
	DCGX11T302-AL	11.6	9.525	3.97	4.4	0.2																						●	○	●				
	DCGX11T304-AL	11.6	9.525	3.97	4.4	0.4																						●	●	●	●			
	DCGX11T308-AL	11.6	9.525	3.97	4.4	0.8																						●		●				

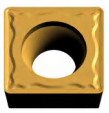
●Stock ○Available Upon Order

Turning Insert (Positive)

SC□□

Square 90° with Hole



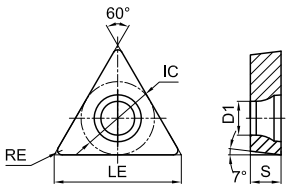
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides				Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	SCMT09T304-MM	9.525	9.525	3.97	4.4	0.4	○	●	●											●	●	●	●									●		
	SCMT09T308-MM	9.525	9.525	3.97	4.4	0.8	○	●	●											●	●	●	●									○		
	SCMT09T304-GP	9.525	9.525	3.97	4.4	0.4	●		○	●		●				●	●	●		●	○	●	○	●									○	○
	SCMT09T308-GP	9.525	9.525	3.97	4.4	0.8	●	●	○	●		●	●				●	●		●		●	○	●										
	SCMT120404-GP	12.7	12.7	4.76	5.56	0.4	●		○	●		●					○	○		●		●		○										○	
	SCMT120408-GP	12.7	12.7	4.76	5.56	0.8	●	●	●	●		●	●			●	●	●	○	●		●	●	○										○	
	SCMT09T304-TP	9.525	9.525	3.97	4.4	0.4														●													●	
	SCMT09T308-TP	9.525	9.525	3.97	4.4	0.8																											●	
	SCMT120404-TP	12.7	12.7	4.76	5.56	0.4																											●	
	SCMT120408-TP	12.7	12.7	4.76	5.56	0.8																											●	
	SCMT09T308-KM	9.525	9.525	3.97	4.4	0.8																●	●	●										
	SCMT120408-KM	12.7	12.7	4.76	5.56	0.8																●	●	●										
	SCMT120412-KM	12.7	12.7	4.76	5.56	1.2																●	●											
	SCGX09T304-AL	9.525	9.525	3.97	4.4	0.4																						●	○	○				
	SCGX09T308-AL	9.525	9.525	3.97	4.4	0.8																						●	○	●				
	SCGX120404-AL	12.7	12.7	4.76	5.5	0.4																						●	○					
	SCGX120408-AL	12.7	12.7	4.76	5.5	0.8																						●	○	○				

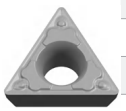
●Stock ○Available Upon Order

Turning Insert (Positive)

TC□□

Triangle 60° with Hole



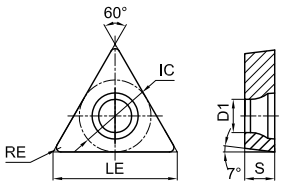
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TCMT110202-MM	11	6.35	2.38	2.8	0.2	●	●	○											●	●											●	●	
	TCMT110204-MM	11	6.35	2.38	2.8	0.4	●	●	●											●	●											●	●	
	TCMT110208-MM	11	6.35	2.38	2.8	0.8														●	●													
	TCMT16T304-MM	16.5	9.525	3.97	4.4	0.4	●	●	●											●	●													
	TCMT16T308-MM	16.5	9.525	3.97	4.4	0.8	●	●	●							●				●	●													
	TCMT090204-FP	9.6	5.56	2.38	2.5	0.4																o										o		
	TCMT110204-FP	11	6.35	2.38	2.8	0.4																o												
	TCMT110304-FP	11	6.35	2.38	3.18	0.4																●												
	TCMT16T304-FP	16.5	9.525	3.97	4.4	0.4	o																											
	TCMT110204-SPL	11	6.35	2.38	2.8	0.4																												●
	TCMT090204-GP	9.6	5.56	2.38	2.5	0.4	●		●		●		●				●	●				●	○										●	●	
	TCMT110202-GP	11	6.35	2.38	2.8	0.2	●		○				○				○					●												●	
	TCMT110204-GP	11	6.35	2.38	2.8	0.4	●		●		●		●			●	●	●		●	●	●											○	●	
	TCMT110208-GP	11	6.35	2.38	2.8	0.8	●		●		●		●			●	●	●		●	○	●	●										○	○	
	TCMT16T304-GP	16.5	9.525	3.97	4.4	0.4	●		●		●		●				●	●	●	●	●	●	●										○	●	
	TCMT16T308-GP	16.5	9.525	3.97	4.4	0.8	●		●		●		●			●	●	●		●	●	●	●										○	○	
	TCMT16T312-GP	16.5	9.525	3.97	4.4	1.2	●		●				●					●				●	●												
	TCMT220408-GP	22	12.7	4.76	5.56	0.8	●		●		●		●				●	○				●	○												
	TCMT220412-GP	22	12.7	4.76	5.56	1.2				●																									
	TCGT090204-GP	9.6	5.56	2.38	2.5	0.4															●													
	TCGT110202-GP	11	6.35	2.38	2.8	0.2															●													
	TCGT110204-GP	11	6.35	2.38	2.8	0.4															●													
	TCGT110208-GP	11	6.35	2.38	2.8	0.8															●													
	TCGT16T304-GP	16.5	9.525	3.97	4.4	0.4															●													
	TCGT16T308-GP	16.5	9.525	3.97	4.4	0.8															○													
	TCMT090202-TP	9.6	5.56	2.38	2.5	0.2																										●	●	
	TCMT090204-TP	9.6	5.56	2.38	2.5	0.4																										●	●	
	TCMT090208-TP	9.6	5.56	2.38	2.5	0.8																										●	●	
	TCMT110204-TP	11	6.35	2.38	2.8	0.4																										●	●	
	TCMT110208-TP	11	6.35	2.38	2.8	0.8																										●	●	
	TCMT16T304-TP	16.5	9.525	3.97	4.4	0.4																										●	●	
	TCMT16T308-TP	16.5	9.525	3.97	4.4	0.8																										●	●	

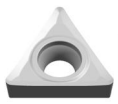
●Stock ○Available Upon Order

Turning Insert (Positive)

TC□□

Triangle 60° with Hole



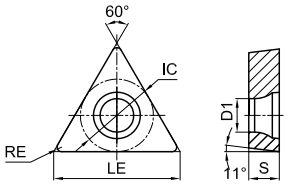
Ordering Code		Dimension (mm)					Coated Carbides																				Car-bides				Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TCMT110204-KM	11	6.35	2.38	2.8	0.4																●												
	TCMT16T304-KM	16.5	9.525	3.97	4.4	0.4																●												
	TCMT16T308-KM	16.5	9.525	3.97	4.4	0.8																●												
	TCGX090204-AL	9.6	5.56	2.38	2.5	0.4																						●	○	○				
	TCGX110202-AL	11	6.35	2.38	2.8	0.2																						●		○				
	TCGX110204-AL	11	6.35	2.38	2.8	0.4																						●	○	●				
	TCGX110208-AL	11	6.35	2.38	2.8	0.8																						●	○	○				
	TCGX16T302-AL	16.5	9.525	3.97	4.4	0.2																						●		○				
	TCGX16T304-AL	16.5	9.525	3.97	4.4	0.4																						●	○	●	○			
	TCGX16T308-AL	16.5	9.525	3.97	4.4	0.8																						●	○	●	○			

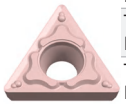
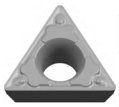
●Stock ○Available Upon Order

Turning Insert (Positive)

TP□□

Triangle 60° with Hole



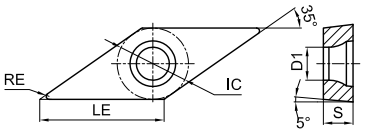
Ordering Code		Dimension (mm)					Coated Carbides																								Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	TPMT110202-MM	11	6.35	2.38	2.8	0.2	●	○	○											●												○		
	TPMT110204-MM	11	6.35	2.38	2.8	0.4	○	●	○											●												○		
	TPMT110304-MM	11	6.35	3.18	3.4	0.4	●	●	●																							●	●	
	TPMT090204-SPL	9.6	5.56	2.38	2.5	0.4																												●
	TPMT110304-SPL	11	6.35	3.18	3.4	0.4																												●
	TPGT110204-GP	11	6.35	2.38	2.8	0.4														○														
	TPGT110208-GP	11	6.35	2.38	2.8	0.8														○														
	TPGT16T304-GP	16.5	9.525	3.97	4.4	0.4														○														
	TPGT16T308-GP	16.5	9.525	3.97	4.4	0.8														○														
	TPMT090202-TP	9.6	5.56	2.38	2.5	0.2																										●	●	
	TPMT090204-TP	9.6	5.56	2.38	2.5	0.4																										●	●	
	TPMT090208-TP	9.6	5.56	2.38	2.5	0.8																										●	●	
	TPMT110302-TP	11	6.35	3.18	3.4	0.2																										●	●	
	TPMT110304-TP	11	6.35	3.18	3.4	0.4																										●	●	
	TPMT110308-TP	11	6.35	3.18	3.4	0.8																										●	●	
	TPMT160302-TP	16.5	9.525	3.18	4.4	0.2																										●	●	
	TPMT160304-TP	16.5	9.525	3.18	4.4	0.4																										●	●	
	TPMT160308-TP	16.5	9.525	3.18	4.4	0.8																										●	●	

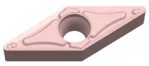
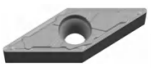
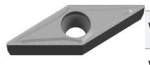
●Stock ○Available Upon Order

Turning Insert (Positive)

VB□□

Rhombic 35° with Hole



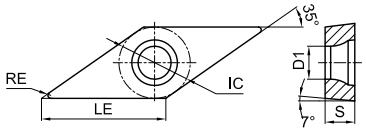
Ordering Code		Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	VBMT110304-MM	11.2	6.35	3.18	2.8	0.4	●	●	●											●	●	●											●	●
	VBMT110308-MM	11.2	6.35	3.18	2.8	0.8														●	●													
	VBMT160402-MM	16.6	9.525	4.76	4.4	0.2														●	●				●								○	○
	VBMT160404-MM	16.6	9.525	4.76	4.4	0.4	●	●	●											●	●				●		●						●	●
	VBMT160408-MM	16.6	9.525	4.76	4.4	0.8	●	●	●							●				●	●			●	●	●							●	●
	VBMT160404-FP	16.6	9.525	4.76	4.4	0.4										○						●			●								○	
	VBMT160408-FP	16.6	9.525	4.76	4.4	0.8	●	○								○						●			●								○	
	VBMT110304-SPL	11.2	6.35	3.18	2.8	0.4																												●
	VBMT160404-SPL	16.6	9.525	4.76	4.4	0.4																												●
	VBMT160404-GP	16.6	9.525	4.76	4.4	0.4	●	●	○	●	○	●				●	●	○	●	●	●		○										●	○
	VBMT160408-GP	16.6	9.525	4.76	4.4	0.8	●	●	○	●	●	●				●	●		●	●	●		○										●	●
	VBMT160412-GP	16.6	9.525	4.76	4.4	1.2	●		○	●		○										●												
	VBMT110304-TP	11.2	6.35	3.18	2.8	0.4																											●	●
	VBMT110308-TP	11.2	6.35	3.18	2.8	0.8																											●	●
	VBMT160402-TP	16.6	9.525	4.76	4.4	0.2																											●	●
	VBMT160404-TP	16.6	9.525	4.76	4.4	0.4																											●	●
	VBMT160408-TP	16.6	9.525	4.76	4.4	0.8																											●	●
	VBMT160408-KM	16.6	9.525	4.76	4.4	0.8																●	●											
																																		

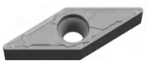
●Stock ○Available Upon Order

Turning Insert (Positive)

VC□□

Rhombic 35° with Hole



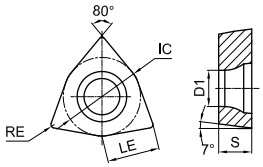
	Ordering Code	Dimension (mm)					Coated Carbides																						Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	VCMT160404-MM	16.6	9.525	4.76	4.4	0.4	●	●	○															●									
	VCMT160408-MM	16.6	9.525	4.76	4.4	0.8	●	●	●															○									
	VCMT160408-FP	16.6	9.525	4.76	4.4	0.8										○						○												
	VCMT110304-SPL	11.2	6.35	3.18	2.8	0.4																												●
	VCMT110304-GP	11.2	6.35	3.18	2.8	0.4	●		○		●		●				●	●				●											○	●
	VCMT110308-GP	11.2	6.35	3.18	2.8	0.8			○								●	●				○											○	●
	VCMT160404-GP	16.6	9.525	4.76	4.4	0.4	●		○		●		●				●	●		●	●	●											○	●
	VCMT160408-GP	16.6	9.525	4.76	4.4	0.8	●		○		●		●				●	●		●	●	●												○
	VCGT110304-GP	11.2	6.35	3.18	2.8	0.4															●													
	VCGT160404-GP	16.6	9.525	4.76	4.4	0.4															●													
	VCGT160408-GP	16.6	9.525	4.76	4.4	0.8															○													
	VCMT160404-KM	16.6	9.525	4.76	4.4	0.4																●												
	VCMT160408-KM	16.6	9.525	4.76	4.4	0.8																●												
	VCGX110302-AL	11.2	6.35	3.18	2.8	0.2																						●		●				
	VCGX110304-AL	11.2	6.35	3.18	2.8	0.4																						●	○	●	○			
	VCGX110308-AL	11.2	6.35	3.18	2.8	0.8																						●	○					
	VCGX160402-AL	16.6	9.525	4.76	4.4	0.2																						●	○					
	VCGX160404-AL	16.6	9.525	4.76	4.4	0.4																						●	○	●	●			
	VCGX160408-AL	16.6	9.525	4.76	4.4	0.8																						●	○	●	○			
	VCGX160412-AL	16.6	9.525	4.76	4.4	1.2																						○		●				
	VCGX220512-AL	22.1	12.7	5.56	5.6	1.2																						○						
	VCGX220516-AL	22.1	12.7	5.56	5.6	1.6																						●						
	VCGX220530-AL	22.1	12.7	5.56	5.6	3.0																						●		●				

●Stock ○Available Upon Order

Turning Insert (Positive)

WC□□

Trigon 80° with Hole



Ordering Code		Dimension (mm)					Coated Carbides																					Car-bides			Cermet		
		LE	IC	S	D1	RE	GPT6110	GPT6120	GPT6130	GP1105	GP1115	GP1120	GP1225	GP1130	GP1135	GM1115	GM1125	GM1230	GM3215	GM3220	GM3225	GK1115	GK1120	GK1125	GST7115	GST7120	GST7130	GS3115	GNT7120	GN9110	GN9120	GN9130	GP31TM	GP91TM	GP92TM
	WCMT06T304-GP	6.5	9.525	3.97	4.4	0.4	●	○	○	○	○				●	○				○												○	○	
	WCMT06T308-GP	6.5	9.525	3.97	4.4	0.8	●	○	○	○	○				●					○													●	

●Stock ○Available Upon Order

Recommended Cutting Data (Negative Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
P	Mild Steel	≤HB180	Finishing Machining	Continuous	QF	GPT6110	240-300-400	0.40-0.80-2.00	0.08-0.15-0.35
						GP1105	220-280-380	0.40-0.80-2.00	0.08-0.15-0.35
						GP1115	200-260-360	0.40-0.80-2.00	0.08-0.15-0.35
				General		GPT6120	200-280-380	0.40-0.80-2.00	0.08-0.15-0.35
						GP1120	200-260-360	0.40-0.80-2.00	0.08-0.15-0.35
				Intermittent		GP1225	180-240-320	0.40-0.80-2.00	0.08-0.15-0.35
						GPT6130	180-240-320	0.40-0.80-2.00	0.08-0.15-0.35
						GP1130	180-240-320	0.40-0.80-2.00	0.08-0.15-0.35
						GP1135	170-220-300	0.40-0.80-2.00	0.08-0.15-0.35
				Continuous	TF	GP31TM	220-300-380	0.30-0.70-1.80	0.07-0.14-0.35
						GP91TM	200-280-350	0.30-0.70-1.80	0.07-0.14-0.35
				Continuous	GF	GP1115	200-260-360	0.80-1.20-2.50	0.10-0.20-0.35
				Intermittent		GP1225	180-240-320	0.80-1.20-2.50	0.10-0.20-0.35
				Continuous	SPL	GP92TM	180-240-300	0.40-1.00-2.30	0.12-0.20-0.30
			Semi-finished	Continuous	QM	GPT6110	220-280-380	0.80-2.00-4.00	0.15-0.20-0.40
						GP1105	200-260-360	0.80-2.00-4.00	0.15-0.20-0.40
						GP1115	180-230-320	0.80-2.00-4.00	0.15-0.20-0.40
						GP31TM	210-280-330	0.50-1.20-2.50	0.10-0.18-0.30
						GP91TM	200-260-330	0.50-1.50-3.00	0.15-0.22-0.35
				General		GPT6120	180-250-340	0.80-2.00-4.00	0.15-0.20-0.40
						GP1120	180-230-320	0.80-2.00-4.00	0.15-0.20-0.40
				Intermittent		GP1225	160-210-300	0.80-2.00-4.00	0.15-0.20-0.40
						GPT6130	160-230-300	0.80-2.00-4.00	0.15-0.20-0.40
						GP1130	160-210-300	0.80-2.00-4.00	0.15-0.20-0.40
						GP1135	150-190-280	0.80-2.00-4.00	0.15-0.20-0.40
				Continuous	GM	GP1115	180-230-320	1.00-2.00-4.00	0.18-0.22-0.40
				Intermittent		GP1225	160-210-300	1.00-2.00-4.00	0.18-0.22-0.40
				Intermittent	SV	GP1225	160-200-300	1.00-2.50-4.50	0.18-0.25-0.45
				Continuous	TP	GP31TM	220-300-380	0.30-1.00-3.00	0.05-0.12-0.28
						GP91TM	200-280-350	0.30-1.20-3.00	0.05-0.15-0.28
				Continuous	TS	GP31TM	200-280-350	0.50-1.00-3.00	0.10-0.15-0.35
						GP91TM	200-260-330	0.50-1.20-3.00	0.10-0.20-0.35
			Rough Finishing	Continuous	QR	GPT6110	150-220-280	1.50-3.50-6.00	0.20-0.30-0.60
						GP1105	130-190-270	1.50-3.50-6.00	0.20-0.30-0.60
						GP1115	120-180-250	1.50-3.50-6.00	0.20-0.30-0.60
				General		GPT6120	140-210-270	1.50-3.50-6.00	0.20-0.30-0.60
				Intermittent		GP1225	120-170-250	1.50-3.50-6.00	0.20-0.30-0.60
						GPT6130	120-190-250	1.50-3.50-6.00	0.20-0.30-0.60
						GP1130	120-170-250	1.50-3.50-6.00	0.20-0.30-0.60
						GP1135	110-150-230	1.50-3.50-6.00	0.20-0.30-0.60
			Heavy Machining	Continuous	QH	GPT6110	100-170-230	3.00-6.00-12.0	0.35-0.60-1.10
						GP1105	100-150-240	3.00-6.00-12.0	0.35-0.60-1.10
						GP1115	90-150-210	3.00-6.00-12.0	0.35-0.60-1.10
				General		GPT6120	100-160-220	3.00-6.00-12.0	0.35-0.60-1.10
				Intermittent		GP1225	90-140-210	3.00-6.00-12.0	0.35-0.60-1.10
						GPT6130	90-150-210	3.00-6.00-12.0	0.35-0.60-1.10
						GP1135	80-130-190	3.00-6.00-12.0	0.35-0.60-1.10

Recommended Cutting Data (Negative Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
P	Carbon Steel, Alloy Steel	HB180-280	Finishing Machining	Continuous	QF	GPT6110	220-270-360	0.40-0.80-2.00	0.08-0.15-0.35
						GP1105	200-250-340	0.40-0.80-2.00	0.08-0.15-0.35
						GP1115	180-230-320	0.40-0.80-2.00	0.08-0.15-0.35
				General		GPT6120	180-250-340	0.40-0.80-2.00	0.08-0.15-0.35
				Intermittent		GP1120	180-230-320	0.40-0.80-2.00	0.08-0.15-0.35
						GP1225	160-200-300	0.40-0.80-2.00	0.08-0.15-0.35
						GPT6130	160-220-300	0.40-0.80-2.00	0.08-0.15-0.35
						GP1130	180-240-320	0.40-0.80-2.00	0.08-0.15-0.35
						GP1135	150-200-280	0.40-0.80-2.00	0.08-0.15-0.35
				Continuous	GF	GP1115	180-230-320	0.80-1.20-2.50	0.10-0.20-0.35
				Intermittent		GP1225	160-200-300	0.80-1.20-2.50	0.10-0.20-0.35
				Continuous	SPL	GP92TM	160-210-290	0.40-1.00-2.30	0.12-0.20-0.30
			Semi-finished	Continuous	QM	GPT6110	180-250-340	0.80-2.00-4.00	0.15-0.22-0.40
						GP1105	160-230-320	0.80-2.00-4.00	0.15-0.22-0.40
						GP1115	140-210-300	0.80-2.00-4.00	0.15-0.20-0.40
						GP31TM	200-250-330	0.50-1.20-2.50	0.10-0.18-0.30
						GP91TM	180-230-310	0.50-1.50-3.00	0.15-0.20-0.35
				General		GPT6120	140-230-320	0.80-2.00-4.00	0.15-0.20-0.40
				Intermittent		GP1120	140-210-300	0.80-2.00-4.00	0.15-0.20-0.40
						GP1225	120-190-280	0.80-2.00-4.00	0.15-0.20-0.40
						GPT6130	120-210-280	0.80-2.00-4.00	0.15-0.20-0.40
						GP1130	120-190-280	0.80-2.00-4.00	0.15-0.20-0.40
						GP1135	100-170-260	0.80-2.00-4.00	0.15-0.20-0.40
				Continuous	GM	GP1115	140-210-300	1.00-2.00-4.00	0.18-0.22-0.40
				Intermittent		GP1225	120-190-280	1.00-2.00-4.00	0.18-0.22-0.40
				Intermittent	SV	GP1225	120-180-280	1.00-2.50-4.50	0.18-0.25-0.45
				Continuous	TP	GP31TM	200-270-350	0.30-1.00-2.50	0.05-0.12-0.28
						GP91TM	180-250-330	0.30-1.20-2.50	0.05-0.15-0.28
				Continuous	TS	GP31TM	180-250-330	0.50-1.00-3.00	0.10-0.15-0.35
						GP91TM	180-230-310	0.50-1.20-3.00	0.10-0.20-0.35
			Rough Finishing	Continuous	QR	GPT6110	140-210-270	1.50-3.50-6.00	0.20-0.30-0.60
						GP1105	120-180-260	1.50-3.50-6.00	0.20-0.30-0.60
						GP1115	110-170-240	1.50-3.50-6.00	0.20-0.30-0.60
				General		GPT6120	130-200-260	1.50-3.50-6.00	0.20-0.30-0.60
				Intermittent		GP1225	110-160-240	1.50-3.50-6.00	0.20-0.30-0.60
						GPT6130	110-180-240	1.50-3.50-6.00	0.20-0.30-0.60
						GP1130	110-160-240	1.50-3.50-6.00	0.20-0.30-0.60
						GP1135	100-140-220	1.50-3.50-6.00	0.20-0.30-0.60
			Heavy Machining	Continuous	QH	GPT6110	90-160-220	3.00-6.00-12.0	0.35-0.60-1.10
						GP1105	90-140-230	3.00-6.00-12.0	0.35-0.60-1.10
						GP1115	80-140-200	3.00-6.00-12.0	0.35-0.60-1.10
				General		GPT6120	90-150-210	3.00-6.00-12.0	0.35-0.60-1.10
				Intermittent		GP1225	80-130-200	3.00-6.00-12.0	0.35-0.60-1.10
						GPT6130	80-140-200	3.00-6.00-12.0	0.35-0.60-1.10
						GP1135	70-120-180	3.00-6.00-12.0	0.35-0.60-1.10

Recommended Cutting Data (Negative Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
P	Carbon Steel, Alloy Steel	HB280-350	Finishing Machining	Continuous	QF	GPT6110	180-220-290	0.40-0.80-2.00	0.08-0.15-0.35
						GP1105	160-200-270	0.40-0.80-2.00	0.08-0.15-0.35
						GP1115	150-180-250	0.40-0.80-2.00	0.08-0.15-0.35
				General		GPT6120	150-200-270	0.40-0.80-2.00	0.08-0.15-0.35
						GP1120	150-180-250	0.40-0.80-2.00	0.08-0.15-0.35
				Intermittent		GP1225	100-150-220	0.80-2.00-4.00	0.15-0.20-0.40
						GPT6130	130-170-230	0.40-0.80-2.00	0.08-0.15-0.35
						GP1130	130-150-230	0.40-0.80-2.00	0.08-0.15-0.35
						GP1135	110-130-210	0.40-0.80-2.00	0.08-0.15-0.35
				Continuous	GF	GP1115	150-180-250	0.80-1.20-2.50	0.10-0.20-0.35
				Intermittent		GP1225	130-150-230	0.80-1.20-2.50	0.10-0.20-0.35
				Continuous	SPL	GP92TM	150-190-280	0.40-1.00-2.30	0.12-0.20-0.30
			Semi-finished	Continuous	QM	GPT6110	140-200-270	0.80-2.00-4.00	0.15-0.20-0.40
						GP1105	120-180-250	0.80-2.00-4.00	0.15-0.20-0.40
						GP1115	110-170-240	0.80-2.00-4.00	0.15-0.20-0.40
						GP31TM	180-230-320	0.50-1.20-2.50	0.10-0.18-0.30
						GP91TM	160-210-300	0.50-1.50-3.00	0.15-0.22-0.35
				General		GPT6120	110-190-260	0.80-2.00-4.00	0.15-0.20-0.40
						GP1120	110-170-240	0.80-2.00-4.00	0.15-0.20-0.40
				Intermittent		GP1225	100-150-220	0.80-2.00-4.00	0.15-0.20-0.40
						GPT6130	100-170-220	0.80-2.00-4.00	0.15-0.20-0.40
						GP1130	100-150-220	0.80-2.00-4.00	0.15-0.20-0.40
						GP1135	900-130-200	0.80-2.00-4.00	0.15-0.20-0.40
				Continuous	GM	GP1115	110-170-240	1.00-2.00-4.00	0.18-0.22-0.40
				Intermittent		GP1225	100-150-220	1.00-2.00-4.00	0.18-0.22-0.40
				Intermittent	SV	GP1225	100-140-220	1.00-2.50-4.50	0.18-0.25-0.45
				Continuous	TP	GP31TM	180-250-320	0.30-1.00-2.50	0.05-0.12-0.28
						GP91TM	170-230-300	0.30-1.20-2.50	0.05-0.15-0.28
				Continuous	TS	GP31TM	170-230-300	0.50-1.00-3.00	0.10-0.15-0.35
						GP91TM	150-210-280	0.50-1.20-3.00	0.10-0.20-0.35
			Rough Finishing	Continuous	QR	GPT6110	120-190-230	2.00-3.50-6.50	0.20-0.30-0.60
						GP1105	100-150-210	2.00-3.50-6.50	0.20-0.30-0.60
						GP1115	90-150-200	2.00-3.50-6.50	0.20-0.30-0.60
				General		GPT6120	110-180-220	2.00-3.50-6.50	0.20-0.30-0.60
				Intermittent		GP1225	90-140-200	2.00-3.50-6.50	0.20-0.30-0.60
						GPT6130	90-160-200	2.00-3.50-6.50	0.20-0.30-0.60
						GP1130	90-140-200	2.00-3.50-6.50	0.20-0.30-0.60
						GP1135	80-120-180	2.00-3.50-6.50	0.20-0.30-0.60
			Heavy Machining	Continuous	QH	GPT6110	80-130-190	3.00-6.00-12.0	0.35-0.60-1.10
						GP1105	80-110-190	3.00-6.00-12.0	0.35-0.60-1.10
						GP1115	70-110-170	3.00-6.00-12.0	0.35-0.60-1.10
				General		GPT6120	80-120-180	3.00-6.00-12.0	0.35-0.60-1.10
				Intermittent		GP1225	70-100-170	3.00-6.00-12.0	0.35-0.60-1.10
						GPT6130	70-110-170	3.00-6.00-12.0	0.35-0.60-1.10
						GP1135	60-90-150	3.00-6.00-12.0	0.35-0.60-1.10

Recommended Cutting Data (Negative Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
M	Martensitic Ferrite SUS410 SUS430etc.	≤HB230	Finishing Machining	General	SF	GS3115	120-190-250	0.10-0.80-1.50	0.08-0.10-0.30
						GM3220	100-150-200	0.10-0.80-1.50	0.08-0.12-0.25
				General	YF	GM3220	100-150-200	0.10-1.0-2.0	0.08-0.15-0.3
			Semi-finished	Continuous	SM	GM1115	200-250-300	0.50-1.20-2.00	0.10-0.20-0.40
						GM3215	120-160-200	1.00-2.00-3.00	0.15-0.20-0.30
				General		GM3220	60-130-180	1.00-2.00-3.00	0.15-0.20-0.35
				Intermittent		GM1125	180-230-280	0.50-1.80-3.00	0.10-0.20-0.40
						GM1230	180-230-280	0.50-1.80-3.00	0.10-0.20-0.40
						GM3225	60-130-180	1.00-2.00-3.00	0.15-0.20-0.35
				Continuous	LM	GM1115	200-250-300	0.80-1.80-3.50	0.08-0.18-0.40
						GM3215	120-160-200	0.80-1.80-3.50	0.08-0.18-0.30
				General		GM3220	60-130-180	0.80-1.80-3.50	0.08-0.20-0.40
				Intermittent		GM1125	180-230-280	0.80-1.80-3.50	0.08-0.18-0.40
						GM1230	180-230-280	0.80-1.80-3.50	0.08-0.18-0.40
						GM3225	60-130-180	0.80-1.80-3.50	0.08-0.20-0.40
			Rough Finishing	Continuous	LR	GM1115	200-250-300	1.50-3.00-5.00	0.15-0.30-0.50
				General		GM3220	60-130-180	1.50-3.00-5.00	0.15-0.30-0.50
				Intermittent		GM3225	60-130-180	1.50-3.00-5.00	0.15-0.30-0.50
	Austenite SUS201 SUS304 SUS316etc.	≤HB250	Finishing Machining	General	SF	GS3115	120-190-250	0.10-0.80-1.50	0.08-0.10-0.30
						GM3220	80-130-180	0.10-0.80-1.50	0.08-0.12-0.25
				General	YF	GM3220	80-130-180	0.10-1.0-2.0	0.08-0.15-0.3
			Semi-finished	Continuous	SM	GM1115	180-230-280	0.50-1.20-2.00	0.10-0.20-0.40
						GM3215	100-130-160	1.00-2.00-3.00	0.15-0.20-0.30
				General		GM3220	60-110-150	1.00-2.00-3.00	0.15-0.20-0.35
				Intermittent		GM1125	180-230-280	0.50-1.80-3.00	0.10-0.20-0.40
						GM1230	180-230-280	0.50-1.80-3.00	0.10-0.20-0.40
						GM3225	60-110-150	1.00-2.00-3.00	0.15-0.20-0.35
				Continuous	LM	GM1115	200-250-300	0.80-1.80-3.50	0.08-0.18-0.40
						GM3215	100-130-160	0.80-1.80-3.50	0.08-0.18-0.30
				General		GM3220	60-110-150	0.80-1.80-3.50	0.08-0.20-0.40
				Intermittent		GM1125	160-200-240	0.80-1.80-3.50	0.08-0.18-0.40
						GM1230	160-200-240	0.80-1.80-3.50	0.08-0.18-0.40
						GM3225	60-110-150	0.80-1.80-3.50	0.08-0.20-0.40
			Rough Finishing	Continuous	LR	GM1115	180-230-280	1.50-3.00-5.00	0.15-0.30-0.50
				General		GM3220	60-110-150	1.50-3.00-5.00	0.15-0.30-0.50
				Intermittent		GM3225	60-110-150	1.50-3.00-5.00	0.15-0.30-0.50

Recommended Cutting Data (Negative Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
K	Ferrosteel FC200 FC250 FC300etc.	⩽HB220	Semi-finished	Continuous	WMV	GK1115	230-350-500	1.00-2.00-6.00	0.20-0.40-0.80
				Intermittent		GK1125	220-320-480	1.00-2.00-6.00	0.20-0.40-0.80
				Continuous	MK	GK1115	230-350-500	0.50-1.50-3.00	0.10-0.20-0.40
				General		GK1120	230-320-500	0.50-1.50-3.00	0.10-0.20-0.40
				Intermittent		GK1125	220-320-480	0.50-1.50-3.00	0.10-0.20-0.40
				Continuous	UK	GK1115	230-350-500	0.50-1.50-3.00	0.10-0.20-0.40
				General		GK1120	230-320-500	0.50-1.50-3.00	0.10-0.20-0.40
				Intermittent		GK1125	220-320-480	0.50-1.50-3.00	0.10-0.20-0.40
			Rough Finishing	Continuous	HK	GK1115	220-320-480	0.50-2.00-4.00	0.10-0.25-0.50
				General		GK1120	220-300-480	0.50-2.00-4.00	0.10-0.25-0.50
				Intermittent		GK1125	210-300-450	0.50-2.00-4.00	0.10-0.25-0.50
			Heavy Machining	Continuous	Flat	GK1115	210-300-450	1.00-2.50-6.00	0.20-0.30-0.60
				General		GK1120	210-280-450	1.00-2.50-6.00	0.20-0.30-0.60
				Intermittent		GK1125	200-280-430	1.00-2.50-6.00	0.20-0.30-0.60
	Nodular Cast Iron FCD450 FCD500 FCD600etc.	⩽HB300	Semi-finished	Continuous	WMV	GK1115	180-260-380	1.00-2.00-6.00	0.20-0.40-0.80
				Intermittent		GK1125	160-230-350	1.00-2.00-6.00	0.20-0.40-0.80
				Continuous	MK	GK1115	180-260-380	0.50-1.50-3.00	0.10-0.20-0.40
				General		GK1120	180-260-380	0.50-1.50-3.00	0.10-0.20-0.40
				Intermittent		GK1125	160-230-350	0.50-1.50-3.00	0.10-0.20-0.40
				Continuous	UK	GK1115	180-260-380	0.50-1.50-3.00	0.10-0.20-0.40
				General		GK1120	180-260-380	0.50-1.50-3.00	0.10-0.20-0.40
				Intermittent		GK1125	160-230-350	0.50-1.50-3.00	0.10-0.20-0.40
			Rough Finishing	Continuous	HK	GK1115	180-240-360	0.50-2.00-4.00	0.10-0.25-0.50
				General		GK1120	180-240-360	0.50-2.00-4.00	0.10-0.25-0.50
				Intermittent		GK1125	160-230-350	0.50-2.00-4.00	0.10-0.25-0.50
			Heavy Machining	Continuous	FLAT	GK1115	180-220-350	1.00-2.50-6.00	0.20-0.30-0.60
				General		GK1120	180-220-350	1.00-2.50-6.00	0.20-0.30-0.60
				Intermittent		GK1125	160-230-350	1.00-2.50-6.00	0.20-0.30-0.60
S	Super alloy Titanium Alloy	⩽HRC45	Finishing to Semi-finishing	Continuous	EL	GST7115	20-40-70	0.50-1.50-3.00	0.10-0.15-0.22
				General		GST7120	20-40-70	0.50-1.50-3.00	0.10-0.15-0.22
				Intermittent		GST7125	20-30-40	0.50-1.50-3.00	0.10-0.15-0.22
				Continuous	SML	GST7115	20-40-70	0.50-1.50-3.00	0.10-0.20-0.30
				General		GST7120	20-40-70	0.50-1.50-3.00	0.10-0.20-0.30
				Intermittent		GST7125	20-30-40	0.50-1.50-3.00	0.10-0.20-0.30
			Semi-finished	Continuous	EM	GST7115	20-40-70	1.00-2.50-4.00	0.10-0.20-0.35
				General		GST7120	20-40-70	1.00-2.50-4.00	0.10-0.20-0.35
				Intermittent		GST7125	20-30-40	1.00-2.50-4.00	0.10-0.20-0.35
				Continuous	SMM	GST7115	20-40-70	1.00-2.50-4.00	0.10-0.25-0.40
				General		GST7120	20-40-70	1.00-2.50-4.00	0.10-0.25-0.40
				Intermittent		GST7125	20-30-40	1.00-2.50-4.00	0.10-0.25-0.40

Recommended Cutting Data (Positive Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
P	Mild Steel	≤HB180	Finishing Machining	Continuous	MM	GP31TM	220-280-340	0.10-0.60-1.50	0.03-0.10-0.20
						GP91TM	200-250-310	0.10-0.60-1.50	0.03-0.10-0.20
						GPT6110	210-260-340	0.10-0.60-1.50	0.05-0.10-0.20
				General		GPT6120	180-240-320	0.10-0.60-1.50	0.05-0.10-0.20
				Intermittent		GPT6130	170-220-280	0.10-0.60-1.50	0.05-0.10-0.20
				Continuous	FP	GP31TM	220-280-340	0.10-0.50-1.00	0.06-0.11-0.25
						GP91TM	200-250-310	0.10-0.50-1.00	0.06-0.11-0.25
						GPT6110	210-260-340	0.10-0.50-1.00	0.06-0.11-0.25
				General		GPT6120	180-240-320	0.10-0.50-1.00	0.06-0.11-0.25
				Intermittent		GPT6130	170-220-280	0.10-0.50-1.00	0.06-0.11-0.25
				Continuous	SPL	GP92TM	180-240-300	0.30-0.80-2.00	0.07-0.12-0.26
			Semi-finishing to Rough-finish	General	GP	GP1120	170-200-280	0.40-1.00-2.50	0.07-0.12-0.30
				Intermittent		GP1130	150-180-260	0.40-1.00-2.50	0.07-0.12-0.30
			Semi-finished	Continuous	TP	GP31TM	200-250-300	0.30-1.00-3.00	0.05-0.15-0.25
						GP91TM	180-230-300	0.30-1.00-3.00	0.05-0.15-0.25
	Carbon Steel, Alloy Steel	HB180-280	Finishing Machining	Continuous	MM	GP31TM	200-250-330	0.10-0.50-1.00	0.03-0.10-0.20
						GP91TM	180-230-300	0.10-0.60-1.50	0.03-0.12-0.20
						GPT6110	180-220-290	0.10-0.60-1.50	0.05-0.10-0.20
				General		GPT6120	150-200-280	0.10-0.60-1.50	0.05-0.10-0.20
				Intermittent		GPT6130	140-180-240	0.10-0.60-1.50	0.05-0.10-0.20
				Continuous	FP	GP31TM	200-250-330	0.10-0.50-1.00	0.06-0.11-0.25
						GP91TM	180-230-300	0.10-0.50-1.00	0.06-0.11-0.25
						GPT6110	180-220-290	0.10-0.50-1.00	0.06-0.11-0.25
				General		GPT6120	150-200-280	0.10-0.50-1.00	0.06-0.11-0.25
				Intermittent		GPT6130	140-180-240	0.10-0.50-1.00	0.06-0.11-0.25
			Semi-finishing to Rough-finish	General	GP	GP1120	140-160-240	0.40-1.00-2.50	0.07-0.12-0.30
				Intermittent		GP1130	120-140-220	0.40-1.00-2.50	0.07-0.12-0.30
			Semi-finished	Continuous	TP	GP31TM	180-210-280	0.30-1.00-3.00	0.05-0.15-0.25
						GP91TM	160-190-270	0.30-1.00-3.00	0.05-0.15-0.25
		HB280-350	Finishing Machining	Continuous	MM	GP31TM	160-220-300	0.10-0.60-1.50	0.03-0.10-0.20
						GP91TM	140-200-280	0.10-0.60-1.50	0.03-0.10-0.20
						GPT6110	160-200-260	0.10-0.60-1.50	0.05-0.10-0.20
				General		GPT6120	130-180-250	0.10-0.60-1.50	0.05-0.10-0.20
				Intermittent		GPT6130	120-160-210	0.10-0.60-1.50	0.05-0.10-0.20
				Continuous	FP	GP31TM	160-220-300	0.10-0.50-1.00	0.06-0.11-0.25
						GP91TM	140-200-280	0.10-0.50-1.00	0.06-0.11-0.25
						GPT6110	160-200-260	0.10-0.50-1.00	0.06-0.11-0.25
				General		GPT6120	130-180-250	0.10-0.50-1.00	0.06-0.11-0.25
				Intermittent		GPT6130	120-160-210	0.10-0.50-1.00	0.06-0.11-0.25
			Semi-finishing to Rough-finish	General	GP	GP1120	120-160-210	0.40-1.00-2.50	0.07-0.12-0.30
				Intermittent		GP1130	100-140-220	0.40-1.00-2.50	0.07-0.12-0.30
			Semi-finished	Continuous	TP	GP31TM	160-200-270	0.30-1.00-3.00	0.05-0.12-0.25
						GP91TM	130-160-250	0.30-1.20-3.00	0.05-0.15-0.25

Recommended Cutting Data (Positive Inserts)

ISO	Workpiece Materials	Hardness	Application Range	Cutting Mode	Chip Breaker	Grade	Min-Optimum-Max		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feeding Rate f(mm/rev)
M	Martensitic Ferrite SUS410 SUS430	⩽HB300	Finishing to Semi-finishing	Continuous	MM	GM1115	200-250-300	0.40-0.70-1.50	0.05-0.10-0.20
				General		GM3220	40-80-140	0.40-0.70-1.50	0.05-0.10-0.20
				Intermittent		GM3225	40-80-140	0.40-0.70-1.50	0.05-0.10-0.20
				Continuous	FP	GM1115	200-250-300	0.10-0.50-1.00	0.06-0.11-0.25
				General		GM3220	40-80-140	0.10-0.50-1.00	0.06-0.11-0.25
				Intermittent		GM3225	40-80-140	0.10-0.50-1.00	0.06-0.11-0.25
			Semi-finishing to Rough-finish	Continuous	GP	GM1115	150-200-250	0.50-1.00-2.50	0.07-0.12-0.30
						GM3315	60-100-160	0.50-1.00-2.50	0.07-0.12-0.25
				General		GM3220	40-80-140	0.50-1.00-2.50	0.07-0.12-0.30
				Intermittent		GM1230	120-150-180	0.50-1.00-2.50	0.07-0.12-0.30
						GM3325	40-80-140	0.50-1.00-2.50	0.07-0.12-0.30
	Austenite SUS201 SUS304 SUS316	⩽HB250	Finishing to Semi-finishing	Continuous	MM	GM1115	200-240-300	0.50-0.70-1.50	0.05-0.10-0.20
				General		GM3220	40-70-140	0.50-0.70-1.50	0.05-0.10-0.20
				Intermittent		GM3225	40-70-140	0.50-0.70-1.50	0.05-0.10-0.20
				Continuous	FP	GM1115	200-250-300	0.10-0.50-1.00	0.06-0.11-0.25
				General		GM3220	40-80-140	0.10-0.50-1.00	0.06-0.11-0.25
				Intermittent		GM3225	40-80-140	0.10-0.50-1.00	0.06-0.11-0.25
			Semi-finishing to Rough-finish	Continuous	GP	GM1115	150-190-250	0.40-1.00-2.50	0.07-0.12-0.30
						GM3315	50-90-150	0.40-1.00-2.50	0.07-0.12-0.25
				General		GM3220	40-70-140	0.40-1.00-2.50	0.07-0.12-0.30
				Intermittent		GM1230	120-140-180	0.40-1.00-2.50	0.07-0.12-0.30
						GM3325	40-70-140	0.40-1.00-2.50	0.07-0.12-0.30
K	Ferrosteel FC200 FC250 FC300etc.	⩽HB250	Finishing Machining	Continuous	FP	GK1115	180-260-360	0.10-0.50-1.00	0.06-0.11-0.25
			Finishing to Semi-finishing	Continuous	GP	GK1215	180-280-380	0.30-0.80-2.00	0.05-0.12-0.25
				General		GK1220	180-260-380	0.30-0.80-2.00	0.05-0.12-0.25
				Intermittent		GK1225	160-250-350	0.30-0.80-2.00	0.05-0.12-0.25
			Semi-finishing to Rough-finish	Continuous	KM	GK1115	180-260-360	1.00-2.00-4.00	0.13-0.20-0.40
				General		GK1120	180-240-360	1.00-2.00-4.00	0.13-0.20-0.40
				Intermittent		GK1125	160-230-340	1.00-2.00-4.00	0.13-0.20-0.40
	Nodular Cast FCD450 FCD500 FCD600etc.	⩽HB270	Finishing Machining	Continuous	FP	GK1115	180-260-360	0.10-0.50-1.00	0.06-0.11-0.25
			Finishing to Semi-finishing	Continuous	GP	GK1215	160-250-350	0.30-0.80-2.00	0.05-0.12-0.25
				General		GK1220	160-220-350	0.30-0.80-2.00	0.05-0.12-0.25
				Intermittent		GK1225	140-230-330	0.30-0.80-2.00	0.05-0.12-0.25
			Semi-finishing to Rough-finish	Continuous	KM	GK1115	160-230-330	1.00-2.00-4.00	0.13-0.20-0.40
				General		GK1120	160-200-330	1.00-2.00-4.00	0.13-0.20-0.40
				Intermittent		GK1125	140-200-310	1.00-2.00-4.00	0.13-0.20-0.40
N	Aluminum	Harden HB90-100	Finishing to Semi-finishing	General	AL	GN9110	250-700-970	0.50-1.20-3.00	0.05-0.10-0.30
						GN9120	250-680-960	0.50-1.20-3.50	0.05-0.10-0.30
		Untreated HB60-90				GN9130	250-650-950	0.50-1.20-4.00	0.05-0.10-0.30
						GNT7120	950-1300-2000	0.50-1.20-3.50	0.05-0.10-0.30

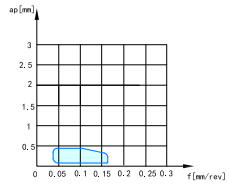
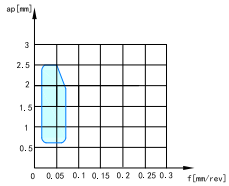
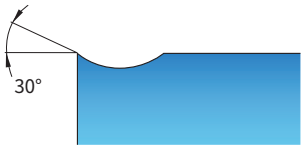
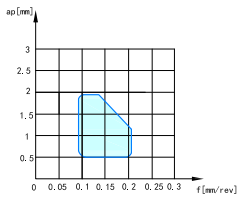
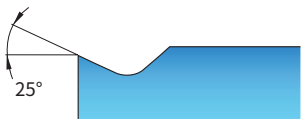
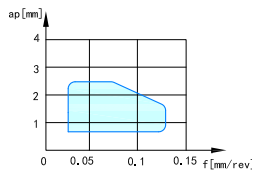
MEMO

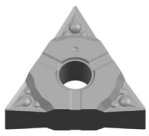
C

SMALL PART TURNING TOOLS

List of Small Part Turning Inserts

Small Part Turning Inserts (Negative)

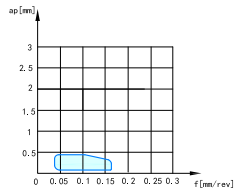
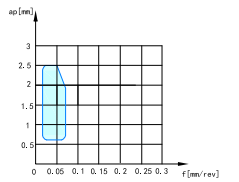
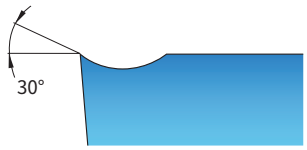
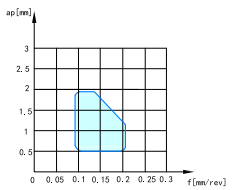
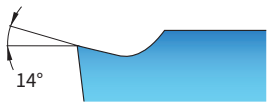
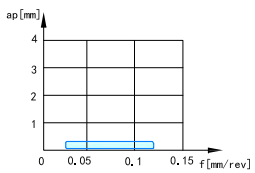
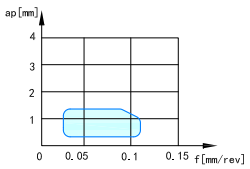
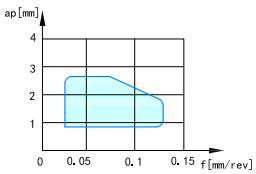
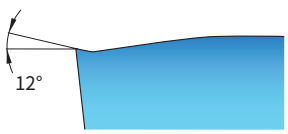
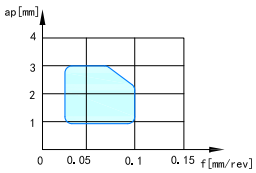
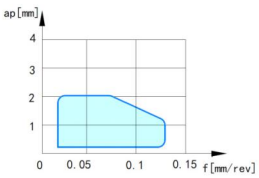
Geometry	Features	Range Of Machining	Geometry Section	
P	• The skewed slot design stably controls the removal direction of chips. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.			
G	• The circular arc slot design improves the sharpness of the cutting edge while ensuring the strength of the tip. • The design of a long cutting edge meets the requirement of a relatively large cutting depth.			
S	• The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.			
AK	• The design of a sharp edge meets the requirements for good machined surface quality. • The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance.			

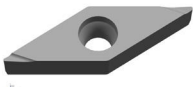
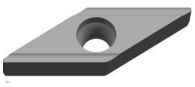
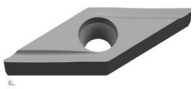
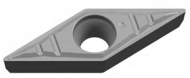
	80° Diamond	55° Diamond	90° Square	60° Regular Triangle	35° Diamond	80° Hexagon
						
				TNGG-P		
				P090		
						
				TNGG-G		
				P090		
						
				TNGG-S		
				P090		
						
				TNGG-AK		
				P090		

List of Small Part Turning Inserts

Small Part Turning Inserts (Positive)

5° Relief Angle

Geometry	Features	Range Of Machining	Geometry Section
P	• The skewed slot design stably controls the removal direction of chips. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.		
G	• The circular arc slot design improves the sharpness of the cutting edge while ensuring the strength of the tip. • The design of a long cutting edge meets the requirement of a relatively large cutting depth.		
S	• The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.		
AF	• The design of a small slot width meets the chip breaking requirements in the field of tiny cutting depths. • The design of a large rake angle reduces the cutting resistance and achieves excellent machined surface quality.		
BF	• The special chip breaker design promotes chip curling and facilitates chip removal. • The design of a small rake angle features high strength of the tip and high versatility.		
SK	• The design of sharp edge and tool cutting edge inclination angle enhances the sharpness of the cutting edges and effectively reduces the cutting force. • The brand-new chip breaker design improves the chip breaking in the machining of steel and stainless steel with small cutting depths.		
BK	• The design of a large slot width enables smooth chip removal and achieves stable machining. • The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance.		
MM	• The design of twin rake angles takes both sharpness and strength into account, and has a wide machining range. • The design of a double-curved chip breaker promotes stable chip curling and has excellent performance in chip breaking and chip removal.		

	80° Diamond	55° Diamond	90° Square	60° Regular Triangle	35° Diamond	80° Hexagon
						
				TBGT-P	VBGT-P	WBGT-P
				P098	P101	P106
						
					VBGT-G	
					P101	
						
					VBGT-S	
					P102	
						
					VBGT-AF	
					P102	
						
					VBGT-BF	
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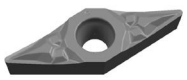
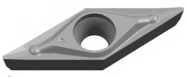
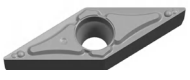
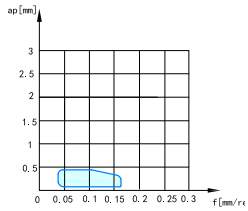
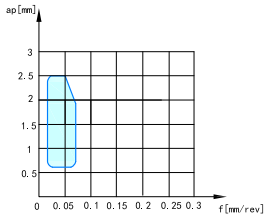
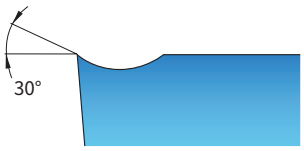
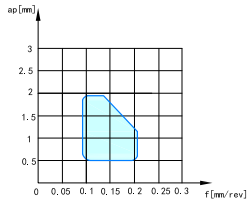
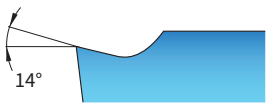
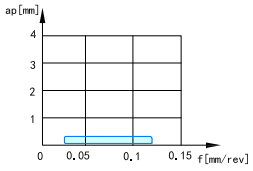
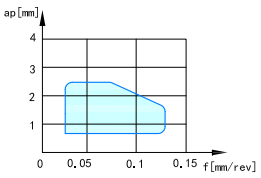
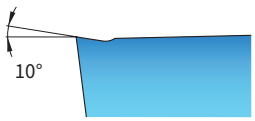
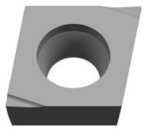
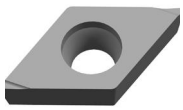
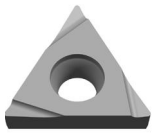
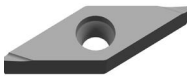
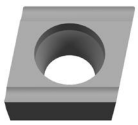
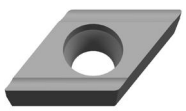
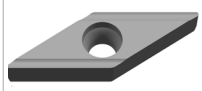
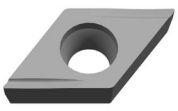
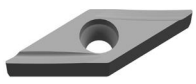
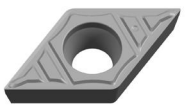
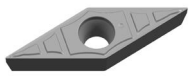
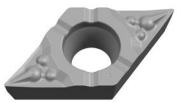
						
					VBGT-SK	
					P102	
						
					VBGT-BK	
					P102	
						
					VBGT-MM	
					P102	

List of Small Part Turning Inserts

Small Part Turning Inserts (Positive)

7° Relief Angle

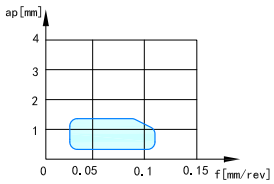
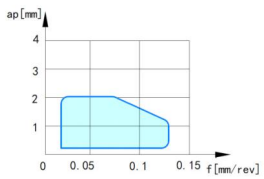
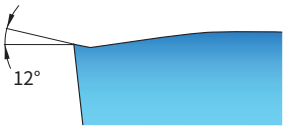
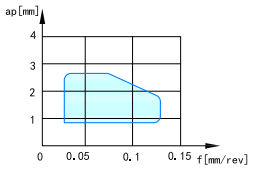
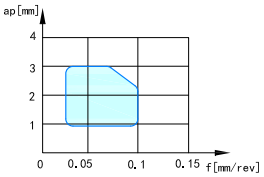
Geometry	Features	Range Of Machining	Geometry Section	
P	• The skewed slot design stably controls the removal direction of chips. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.			
G	• The circular arc slot design improves the sharpness of the cutting edge while ensuring the strength of the tip. • The design of a long cutting edge meets the requirement of a relatively large cutting depth.			
S	• The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.			
AF	• The design of a small slot width meets the chip breaking requirements in the field of tiny cutting depths. • The design of a large rake angle reduces the cutting resistance and achieves excellent machined surface quality.			
AK	• The design of a sharp edge meets the requirements for good machined surface quality. • The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance.			

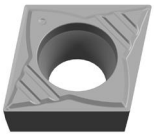
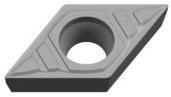
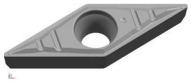
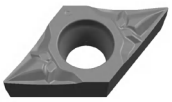
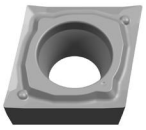
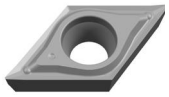
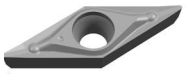
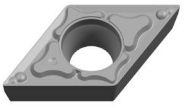
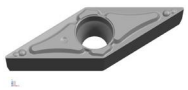
	80° Diamond	55° Diamond	90° Square	60° Regular Triangle	35° Diamond	80° Hexagon
						
	CCGT-P	DCGT-P		TCGT-P	VCGT-P	
	P091	P095		P099	P103	
						
	CCGT-G	DCGT-G		TCGT-G	VCGT-G	
	P092	P096		P099	P103	
						
		DCGT-S			VCGT-S	
		P096			P103	
						
		DCGT-AF			VCGT-AF	
		P097			P104	
						
		DCGT-AK				
		P097				

List of Small Part Turning Inserts

Small Part Turning Inserts (Positive)

7° Relief Angle

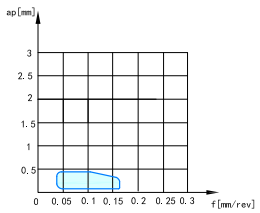
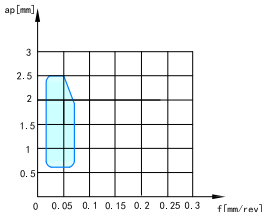
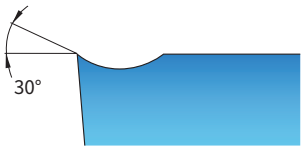
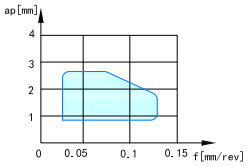
Geometry	Features	Range Of Machining	Geometry Section	
BF	• The special chip breaker design promotes chip curling and facilitates chip removal. • The design of a small rake angle features high strength of the tip and high versatility.			
SK	• The design of sharp edge and tool cutting edge inclination angle enhances the sharpness of the cutting edges and effectively reduces the cutting force. • The brand-new chip breaker design improves the chip breaking in the machining of steel and stainless steel with small cutting depths.			
BK	• The design of a large slot width enables smooth chip removal and achieves stable machining. • The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance.			
MM	• The design of twin rake angles takes both sharpness and strength into account, and has a wide machining range. • The design of a double-curved chip breaker promotes stable chip curling and has excellent performance in chip breaking and chip removal.			

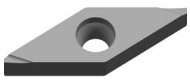
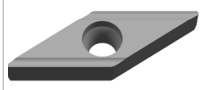
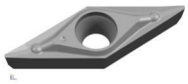
	80° Diamond	55° Diamond	90° Square	60° Regular Triangle	35° Diamond	80° Hexagon
						
	CCGT-BF	DCGT-BF			VCGT-BF	
	P094	P097			P104	
						
		DCGT-SK				
		P097				
						
	CCGT-BK	DCGT-BK			VCGT-BK	
	P094	P097			P104	
						
		DCGT-MM			VCGT-MM	
		P097			P104	

List of Small Part Turning Inserts

Small Part Turning Inserts (Positive)

11° Relief Angle

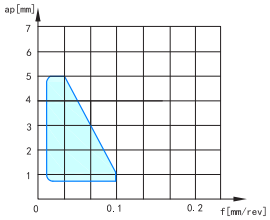
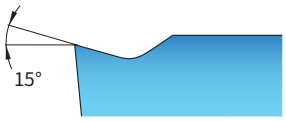
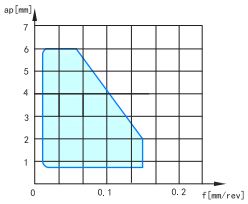
Geometry	Features	Range Of Machining	Geometry Section	
P	• The skewed slot design stably controls the removal direction of chips. • With a design of thin edge, the cutting edge is sharp and can effectively reduce the cutting force.			
G	• The circular arc slot design improves the sharpness of the cutting edge while ensuring the strength of the tip. • The design of a long cutting edge meets the requirement of a relatively large cutting depth.			
BK	• The design of a large slot width enables smooth chip removal and achieves stable machining • The design of the tool cutting edge inclination angle controls the flow direction of chips and reduces the cutting resistance.			

	80° Diamond	55° Diamond	90° Square	60° Regular Triangle	35° Diamond	80° Hexagon
						
				TPGT(H)-P	VPGT-P	
				P100	P105	
						
				TPGT-G	VPGT-G	
				P100	P105	
						
					VPGT-BK	
					P105	

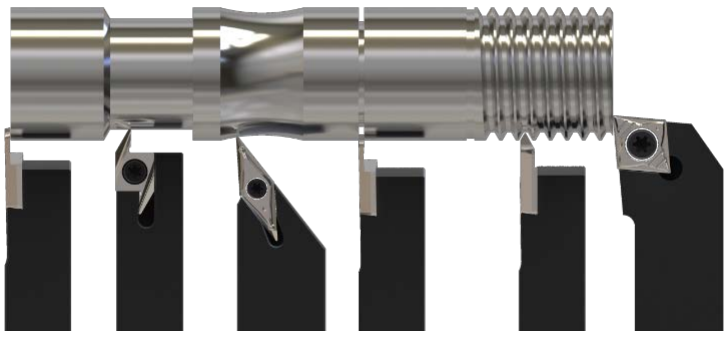
List of Small Part Turning Inserts

Small Part Turning Inserts (Other)

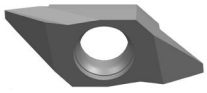
Back-turning

Geometry	Features	Range of Machining	Geometry Section	
GSAB	• The special shape design meets the requirements of back-turning. • The special geometry design enables stable control of the flow direction of chips.			
GSTB	• The vertically-installed structure design ensures firm clamping and realizes stable cutting. • The skewed slot design effectively controls the direction of chip removal.			

Schematic Diagram of Small Part Tool Machining



Parting Off (P218) | Back-turning (P97) | External Diameter Machining | Grooving Machining (P218) | Threading (P286) | End Face Machining

	Appearance
	
	GSAB
	P107
	
	GSTB
	P108

Three-dimensional Chip Breaker and General Grooving Type Representation Method

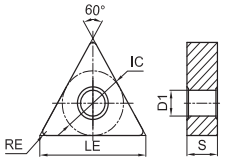
DCGT11T302 (M) (E) (R)

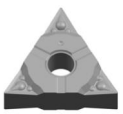
- (M): Tip Arc Is of Negative Tolerance
- (E): Cutting Edge Treatment
- (R): Insert Direction

Turning Insert (Negative)

TN□□

Triangle 60° with Hole



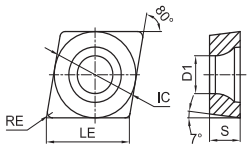
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	TNGG160401L-P	16.5	9.525	4.76	3.81	0.1	●	●		●
	TNGG160401R-P	16.5	9.525	4.76	3.81	0.1	●	●		●
	TNGG160402L-P	16.5	9.525	4.76	3.81	0.2	●	●		●
	TNGG160402R-P	16.5	9.525	4.76	3.81	0.2	●	●		●
	TNGG160404L-P	16.5	9.525	4.76	3.81	0.4	●	●		●
	TNGG160404R-P	16.5	9.525	4.76	3.81	0.4	●	●		●
	TNGG160408L-P	16.5	9.525	4.76	3.81	0.8	○	●		○
	TNGG160408R-P	16.5	9.525	4.76	3.81	0.8	○	○		○
	TNGG160404L-G	16.5	9.525	4.76	3.81	0.4		●		
	TNGG160404R-G	16.5	9.525	4.76	3.81	0.4		●		
	TNGG160408L-G	16.5	9.525	4.76	3.81	0.8		●		
	TNGG160408R-G	16.5	9.525	4.76	3.81	0.8		●		
	TNGG160404R-S	16.5	9.525	4.76	3.81	0.4	●			
	TNGG160401M-AK	16.5	9.525	4.76	3.81	<0.1	●			●
	TNGG160402M-AK	16.5	9.525	4.76	3.81	<0.2	●		●	●
	TNGG160404M-AK	16.5	9.525	4.76	3.81	<0.4	●		○	●

●Stock ○Available Upon Order

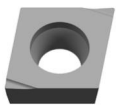
Turning Insert (Positive)

CC□□

Diamond 80° with Hole



Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
CCGT0301005ML-P	4.0	3.5	1.4	1.9	<0.05	○	○		○
CCGT0301005MR-P	4.0	3.5	1.4	1.9	<0.05	○	○		○
CCGT030101ML-P	4.0	3.5	1.4	1.9	<0.1	●	○		●
CCGT030101MR-P	4.0	3.5	1.4	1.9	<0.1	○	○		○
CCGT030102ML-P	4.0	3.5	1.4	1.9	<0.2	●	○		●
CCGT030102MR-P	4.0	3.5	1.4	1.9	<0.2	●	○		○
CCGT030104ML-P	4.0	3.5	1.4	1.9	<0.4	●	○		●
CCGT030104MR-P	4.0	3.5	1.4	1.9	<0.4	○	○		○
CCGT0401005ML-P	4.8	4.3	1.8	2.3	<0.05	○	○		○
CCGT0401005MR-P	4.8	4.3	1.8	2.3	<0.05	○	○		○
CCGT040101ML-P	4.8	4.3	1.8	2.3	<0.1	○	○		○
CCGT040101MR-P	4.8	4.3	1.8	2.3	<0.1	○	○		○
CCGT040102ML-P	4.8	4.3	1.8	2.3	<0.2	●	○		●
CCGT040102MR-P	4.8	4.3	1.8	2.3	<0.2	●	○		○
CCGT040104ML-P	4.8	4.3	1.8	2.3	<0.4	●	○		●
CCGT040104MR-P	4.8	4.3	1.8	2.3	<0.4	●	○		○
CCGT0602005ML-P	6.5	6.35	2.38	2.8	<0.05	○	○		○
CCGT0602005MR-P	6.5	6.35	2.38	2.8	<0.05	○	●		○
CCGT060201ML-P	6.5	6.35	2.38	2.8	<0.1	●	●		●
CCGT060201MR-P	6.5	6.35	2.38	2.8	<0.1	○	●		○
CCGT09T3005ML-P	9.7	9.525	3.97	4.4	<0.05	○	○		○
CCGT09T3005MR-P	9.7	9.525	3.97	4.4	<0.05	○	●		○
CCGT09T301ML-P	9.7	9.525	3.97	4.4	<0.1	○	○		○
CCGT09T301MR-P	9.7	9.525	3.97	4.4	<0.1	○	○		○
CCGT030101L-P	4.0	3.5	1.4	1.9	0.1		●		
CCGT030102L-P	4.0	3.5	1.4	1.9	0.2		●		
CCGT030104L-P	4.0	3.5	1.4	1.9	0.4		●		
CCGT040101L-P	4.8	4.3	1.8	2.3	0.1		●		
CCGT040102L-P	4.8	4.3	1.8	2.3	0.2		●		
CCGT040104L-P	4.8	4.3	1.8	2.3	0.4		●		
CCGT060201L-P	6.5	6.35	2.38	2.8	0.1		○		
CCGT060201R-P	6.5	6.35	2.38	2.8	0.1		○		

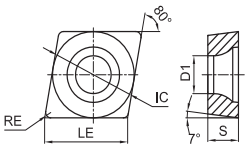


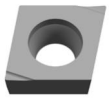
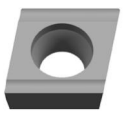
●Stock ○Available Upon Order

Turning Insert (Positive)

CC□□

Diamond 80° with Hole



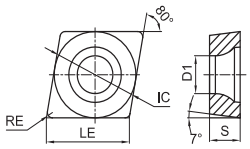
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	CCGT060202L-P	6.5	6.35	2.38	2.8	0.2		●		
	CCGT060202R-P	6.5	6.35	2.38	2.8	0.2		●		
	CCGT060204L-P	6.5	6.35	2.38	2.8	0.4		●		
	CCGT060204R-P	6.5	6.35	2.38	2.8	0.4		●		
	CCGT09T301L-P	9.7	9.525	3.97	4.4	0.1		○		
	CCGT09T301R-P	9.7	9.525	3.97	4.4	0.1		●		
	CCGT09T302L-P	9.7	9.525	3.97	4.4	0.2		○		
	CCGT09T302R-P	9.7	9.525	3.97	4.4	0.2		●		
	CCGT09T304L-P	9.7	9.525	3.97	4.4	0.4		●		
	CCGT09T304R-P	9.7	9.525	3.97	4.4	0.4		●		
	CCGT0602005ML-G	6.5	6.35	2.38	2.8	<0.05	●	○		○
	CCGT0602005MR-G	6.5	6.35	2.38	2.8	<0.05	○	○		○
	CCGT060201MEL-G	6.5	6.35	2.38	2.8	<0.1	○	○		○
	CCGT060201MER-G	6.5	6.35	2.38	2.8	<0.1	○	○		○
	CCGT060201ML-G	6.5	6.35	2.38	2.8	<0.1	●	○		○
	CCGT060201MR-G	6.5	6.35	2.38	2.8	<0.1	●	○		○
	CCGT060202ML-G	6.5	6.35	2.38	2.8	<0.2	●	○		○
	CCGT060202MR-G	6.5	6.35	2.38	2.8	<0.2	●	○		○
	CCGT09T3005ML-G	9.7	9.525	3.97	4.4	<0.05	●	○		○
	CCGT09T3005MR-G	9.7	9.525	3.97	4.4	<0.05	●	●		○
	CCGT09T301MEL-G	9.7	9.525	3.97	4.4	<0.1	○	○		○
	CCGT09T301MER-G	9.7	9.525	3.97	4.4	<0.1	○	○		○
	CCGT09T301ML-G	9.7	9.525	3.97	4.4	<0.1	●	○		○
	CCGT09T301MR-G	9.7	9.525	3.97	4.4	<0.1	●	●		●
	CCGT09T302ML-G	9.7	9.525	3.97	4.4	<0.2	●	○		○
	CCGT09T302MR-G	9.7	9.525	3.97	4.4	<0.2	●	○		●

●Stock ○Available Upon Order

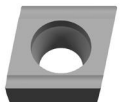
Turning Insert (Positive)

CC□□

Diamond 80° with Hole



Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
CCGT060201EL-G	6.5	6.35	2.38	2.8	0.1		○		
CCGT060201ER-G	6.5	6.35	2.38	2.8	0.1		○		
CCGT060201L-G	6.5	6.35	2.38	2.8	0.1		○		
CCGT060201R-G	6.5	6.35	2.38	2.8	0.1		○		
CCGT060202EL-G	6.5	6.35	2.38	2.8	0.2		●		
CCGT060202ER-G	6.5	6.35	2.38	2.8	0.2		●		
CCGT060202L-G	6.5	6.35	2.38	2.8	0.2		●		
CCGT060202R-G	6.5	6.35	2.38	2.8	0.2		●		
CCGT060204EL-G	6.5	6.35	2.38	2.8	0.4		●		
CCGT060204ER-G	6.5	6.35	2.38	2.8	0.4		●		
CCGT060204L-G	6.5	6.35	2.38	2.8	0.4		○		
CCGT060204R-G	6.5	6.35	2.38	2.8	0.4		○		
CCGT09T301EL-G	9.7	9.525	3.97	4.4	0.1		●		
CCGT09T301ER-G	9.7	9.525	3.97	4.4	0.1		●		
CCGT09T301L-G	9.7	9.525	3.97	4.4	0.1		●		
CCGT09T301R-G	9.7	9.525	3.97	4.4	0.1		●		
CCGT09T302EL-G	9.7	9.525	3.97	4.4	0.2		●		
CCGT09T302ER-G	9.7	9.525	3.97	4.4	0.2		●		
CCGT09T302L-G	9.7	9.525	3.97	4.4	0.2		●		
CCGT09T302R-G	9.7	9.525	3.97	4.4	0.2		●		
CCGT09T304EL-G	9.7	9.525	3.97	4.4	0.4		●		
CCGT09T304ER-G	9.7	9.525	3.97	4.4	0.4		●		
CCGT09T304L-G	9.7	9.525	3.97	4.4	0.4		●		
CCGT09T304R-G	9.7	9.525	3.97	4.4	0.4		○		

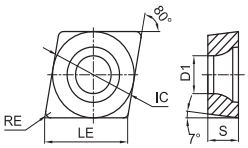


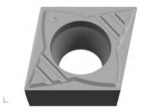
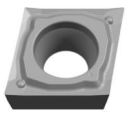
●Stock ○Available Upon Order

Turning Insert (Positive)

CC□□

Diamond 80° with Hole



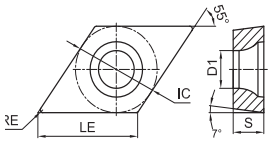
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	CCGT0602005M-BF	6.5	6.35	2.38	2.8	<0.05	●			
	CCGT060201M-BF	6.5	6.35	2.38	2.8	<0.1	●			●
	CCGT060202M-BF	6.5	6.35	2.38	2.8	<0.2	●			●
	CCGT09T301M-BF	9.7	9.525	3.97	4.4	<0.1	●		○	●
	CCGT09T302M-BF	9.7	9.525	3.97	4.4	<0.2	●		○	●
	CCGT09T304M-BF	9.7	9.525	3.97	4.4	<0.4	●			●
	CCGT060201M-BK	6.5	6.35	2.38	2.8	<0.1	●			●
	CCGT060202M-BK	6.5	6.35	2.38	2.8	<0.2	●			●
	CCGT09T301M-BK	9.7	9.525	3.97	4.4	<0.1	●		○	●
	CCGT09T302M-BK	9.7	9.525	3.97	4.4	<0.2	●		●	●
	CCGT09T304M-BK	9.7	9.525	3.97	4.4	<0.4	●			●

●Stock ○Available Upon Order

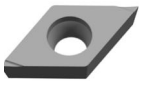
Turning Insert (Positive)

DC□□

Diamond 55° with Hole



Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
DCGT0702005ML-P	7.8	6.35	2.38	2.8	<0.05	○	●		○
DCGT0702005MR-P	7.8	6.35	2.38	2.8	<0.05	○	●		○
DCGT070201ML-P	7.8	6.35	2.38	2.8	<0.1	○	○		○
DCGT070201MR-P	7.8	6.35	2.38	2.8	<0.1	○			○
DCGT070202MR-P	7.8	6.35	2.38	2.8	<0.2				○
DCGT11T3005ML-P	11.6	9.525	3.97	4.4	<0.05	○	○		○
DCGT11T3005MR-P	11.6	9.525	3.97	4.4	<0.05	○	●		○
DCGT11T302MR-P	11.6	9.525	3.97	4.4	<0.2	●	○		●
DCGT0702003L-P	7.8	6.35	2.38	2.8	0.03		○		
DCGT0702003R-P	7.8	6.35	2.38	2.8	0.03		●		
DCGT070201L-P	7.8	6.35	2.38	2.8	0.1		○		
DCGT070201R-P	7.8	6.35	2.38	2.8	0.1		●		
DCGT070202L-P	7.8	6.35	2.38	2.8	0.2		○		
DCGT070202R-P	7.8	6.35	2.38	2.8	0.2		●		
DCGT070204L-P	7.8	6.35	2.38	2.8	0.4		●		
DCGT070204R-P	7.8	6.35	2.38	2.8	0.4		○		
DCGT11T3003L-P	11.6	9.525	3.97	4.4	0.03		○		
DCGT11T3003R-P	11.6	9.525	3.97	4.4	0.03		○		
DCGT11T301L-P	11.6	9.525	3.97	4.4	0.1		○		
DCGT11T301R-P	11.6	9.525	3.97	4.4	0.1		●		
DCGT11T302L-P	11.6	9.525	3.97	4.4	0.2		●		
DCGT11T302R-P	11.6	9.525	3.97	4.4	0.2		●		
DCGT11T304L-P	11.6	9.525	3.97	4.4	0.4		●		
DCGT11T304R-P	11.6	9.525	3.97	4.4	0.4	○	●		

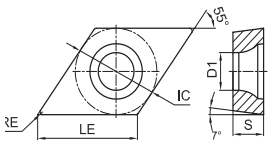


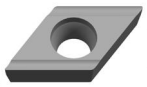
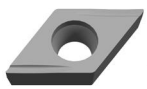
●Stock ○Available Upon Order

Turning Insert (Positive)

DC□□

Diamond 55° with Hole



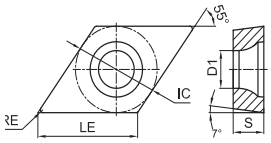
Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
DCGT0702005ML-G	7.8	6.35	2.38	2.8	<0.05	○	○		○
DCGT0702005MR-G	7.8	6.35	2.38	2.8	<0.05	●	●		○
DCGT070201MEL-G	7.8	6.35	2.38	2.8	<0.1	○	○		●
DCGT070201MER-G	7.8	6.35	2.38	2.8	<0.1	○	○		●
DCGT070201ML-G	7.8	6.35	2.38	2.8	<0.1	○	○		○
DCGT070201MR-G	7.8	6.35	2.38	2.8	<0.1	●	○		○
DCGT11T3005ML-G	11.6	9.525	3.97	4.4	<0.05	○	○		○
DCGT11T3005MR-G	11.6	9.525	3.97	4.4	<0.05	○	●		●
DCGT11T301MEL-G	11.6	9.525	3.97	4.4	<0.1	○	○		○
DCGT11T301MER-G	11.6	9.525	3.97	4.4	<0.1	○	○		○
DCGT11T301ML-G	11.6	9.525	3.97	4.4	<0.1	○	○		○
DCGT11T301MR-G	11.6	9.525	3.97	4.4	<0.1	●	●		●
DCGT11T302MER-G	11.6	9.525	3.97	4.4	<0. 2				●
 DCGT11T302MR-G	11.6	9.525	3.97	4.4	<0. 2	●	○		●
DCGT070201L-G	7.8	6.35	2.38	2.8	0.1		○		
DCGT070201R-G	7.8	6.35	2.38	2.8	0.1		●		
DCGT070202L-G	7.8	6.35	2.38	2.8	0.2		○		
DCGT070202R-G	7.8	6.35	2.38	2.8	0.2		●		
DCGT11T301EL-G	11.6	9.525	3.97	4.4	0.1		●		
DCGT11T301ER-G	11.6	9.525	3.97	4.4	0.1		●		
DCGT11T301L-G	11.6	9.525	3.97	4.4	0.1		●		
DCGT11T301R-G	11.6	9.525	3.97	4.4	0.1		●		
DCGT11T302EL-G	11.6	9.525	3.97	4.4	0.2		●		
DCGT11T302ER-G	11.6	9.525	3.97	4.4	0.2		●		
DCGT11T302L-G	11.6	9.525	3.97	4.4	0.2		●		
DCGT11T302R-G	11.6	9.525	3.97	4.4	0.2		●		
DCGT11T304EL-G	11.6	9.525	3.97	4.4	0.4		○		
DCGT11T304ER-G	11.6	9.525	3.97	4.4	0.4		●		
 DCGT11T302MR-S	11.6	9.525	3.97	4.4	<0.2	●			●
DCGT11T304MR-S	11.6	9.525	3.97	4.4	<0.4	●			●

●Stock ○Available Upon Order

Turning Insert (Positive)

DC□□

Diamond 55° with Hole



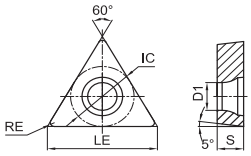
Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
DCGT070201M-AF	7.8	6.35	2.38	2.8	<0.1	●			●
DCGT11T301M-AF	11.6	9.525	3.97	4.4	<0.1	●		○	●
DCGT11T301M-AK	11.6	9.525	3.97	4.4	<0.1	●		○	●
DCGT11T302M-AK	11.6	9.525	3.97	4.4	<0.2	●		○	●
DCGT11T304M-AK	11.6	9.525	3.97	4.4	<0.4				○
DCGT070201M-BF	7.8	6.35	2.38	2.8	<0.1	●		○	●
DCGT070202M-BF	7.8	6.35	2.38	2.8	<0.2	●			●
DCGT070204M-BF	7.8	6.35	2.38	2.8	<0.4	●			●
DCGT11T301M-BF	11.6	9.525	3.97	4.4	<0.1	●		○	●
DCGT11T302M-BF	11.6	9.525	3.97	4.4	<0.2	●		●	●
DCGT11T304M-BF	11.6	9.525	3.97	4.4	<0.4	●		●	●
DCGT070201M-BK	7.8	6.35	2.38	2.8	<0.1	●		○	●
DCGT070202M-BK	7.8	6.35	2.38	2.8	<0.2	●			●
DCGT11T301M-BK	11.6	9.525	3.97	4.4	<0.1	●		○	●
DCGT11T302M-BK	11.6	9.525	3.97	4.4	<0.2	●		●	●
DCGT11T304M-BK	11.6	9.525	3.97	4.4	<0.4	●		●	●
DCGT11T301M-SK	11.6	9.525	3.97	4.4	<0.1	○			
DCGT11T302M-SK	11.6	9.525	3.97	4.4	<0.2	○			
DCGT11T304M-SK	11.6	9.525	3.97	4.4	<0.4	○			
DCGT11T301M-MM	11.6	9.525	3.97	4.4	<0.1	●		●	●
DCGT11T302M-MM	11.6	9.525	3.97	4.4	<0.2	●		●	●
DCGT11T304M-MM	11.6	9.525	3.97	4.4	<0.4	●		●	●

●Stock ○Available Upon Order

Turning Insert (Positive)

TB□□

Triangle 60° with Hole



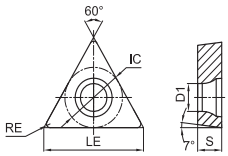
Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
TBGT060102L-P	6.9	3.97	1.59	2.3	0.2		●		
TBGT060104L-P	6.9	3.97	1.59	2.3	0.4		●		

●Stock ○Available Upon Order

Turning Insert (Positive)

TC□□

Triangle 60° with Hole



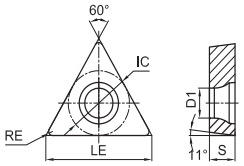
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	TCGT060102L-P	6.9	3.97	1.59	2.3	0.2		●		
	TCGT060104L-P	6.9	3.97	1.59	2.3	0.4		●		
	TCGT06T102L-P	6.9	3.97	1.98	2.3	0.2	○	○		○
	TCGT06T102R-P	6.9	3.97	1.98	2.3	0.2	○	○		○
	TCGT06T104L-P	6.9	3.97	1.98	2.3	0.4	○	○		○
	TCGT06T104R-P	6.9	3.97	1.98	2.3	0.4	○	○		○
	TCGT080202L-P	8.2	4.76	2.38	2.3	0.2		●		
	TCGT080204L-P	8.2	4.76	2.38	2.3	0.4		●		
	TCGT110202L-P	11	6.35	2.38	2.8	0.2		●		
	TCGT110204L-P	11	6.35	2.38	2.8	0.4		●		
	TCGT0802005ML-G	8.2	4.76	2.38	2.3	<0.05	○	○		○
	TCGT0802005MR-G	8.2	4.76	2.38	2.3	<0.05	○	○		○
	TCGT080201ML-G	8.2	4.76	2.38	2.3	<0.1	○	○		○
	TCGT080201MR-G	8.2	4.76	2.38	2.3	<0.1	○	○		○
	TCGT1103005ML-G	11	6.35	3.18	2.8	<0.05	○	●		○
	TCGT1103005MR-G	11	6.35	3.18	2.8	<0.05	○	●		○
	TCGT080202L-G	8.2	4.76	2.38	2.3	0.2		○		
	TCGT080204L-G	8.2	4.76	2.38	2.3	0.4		○		
	TCGT110301L-G	11	6.35	3.18	2.8	0.1		○		
	TCGT110302L-G	11	6.35	3.18	2.8	0.2		○		
	TCGT110304L-G	11	6.35	3.18	2.8	0.4		○		

●Stock ○Available Upon Order

Turning Insert (Positive)

TP□□

Triangle 60° with Hole



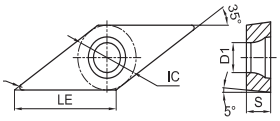
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	TPGH1103005ML-P	11	6.35	3.18	3.4	<0.05	●	●		○
	TPGH090202L-P	9.6	5.56	2.38	3.0	0.2		●		
	TPGH090204L-P	9.6	5.56	2.38	3.0	0.4		●		
	TPGH110301L-P	11	6.35	3.18	3.4	0.1	●	●		
	TPGH110302L-P	11	6.35	3.18	3.4	0.2	●	●		
	TPGH110304L-P	11	6.35	3.18	3.4	0.4		●		
	TPGT080202L-P	8.2	4.76	2.38	2.3	0.2		●		
	TPGT080202R-P	8.2	4.76	2.38	2.3	0.2		○		
	TPGT080204L-P	8.2	4.76	2.38	2.3	0.4	○	●		
	TPGT080204R-P	8.2	4.76	2.38	2.3	0.4		○		
	TPGT080201L-G	8.2	4.76	2.38	2.3	0.1		○		
	TPGT080202L-G	8.2	4.76	2.38	2.3	0.2		○		
	TPGT080204L-G	8.2	4.76	2.38	2.3	0.4		○		

●Stock ○Available Upon Order

Turning Insert (Positive)

VB□□

Diamond 35° with Hole



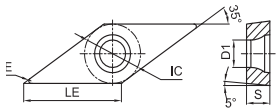
Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
VBGT1103005ML-P	11.2	6.35	3.18	2.8	<0.05	○	○		○
VBGT1103005MR-P	11.2	6.35	3.18	2.8	<0.05	●	●		●
VBGT110301ML-P	11.2	6.35	3.18	2.8	<0.1	●	○		●
VBGT110301MR-P	11.2	6.35	3.18	2.8	<0.1	●	○		●
VBGT110302ML-P	11.2	6.35	3.18	2.8	<0.2	○	○		●
VBGT110302MR-P	11.2	6.35	3.18	2.8	<0.2	●	○		●
VBGT1103003L-P	11.2	6.35	3.18	2.8	0.03		○		
VBGT1103003R-P	11.2	6.35	3.18	2.8	0.03		●		
VBGT110301L-P	11.2	6.35	3.18	2.8	0.1		●		
VBGT110301R-P	11.2	6.35	3.18	2.8	0.1		●		
VBGT110302L-P	11.2	6.35	3.18	2.8	0.2		●		
VBGT110302R-P	11.2	6.35	3.18	2.8	0.2		●		
VBGT110304L-P	11.2	6.35	3.18	2.8	0.4		○		
VBGT110304R-P	11.2	6.35	3.18	2.8	0.4		●		
VBGT1103005ML-G	11.2	6.35	3.18	2.8	<0.05	○	●		○
VBGT1103005MR-G	11.2	6.35	3.18	2.8	<0.05	●	●		●
VBGT110301L-G	11.2	6.35	3.18	2.8	0.1		●		
VBGT110301R-G	11.2	6.35	3.18	2.8	0.1		●		
VBGT110302EL-G	11.2	6.35	3.18	2.8	0.2		○		
VBGT110302ER-G	11.2	6.35	3.18	2.8	0.2		○		
VBGT110302R-G	11.2	6.35	3.18	2.8	0.2		○		
VBGT110304EL-G	11.2	6.35	3.18	2.8	0.4		●		
VBGT110304ER-G	11.2	6.35	3.18	2.8	0.4		●		

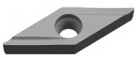
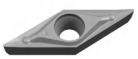
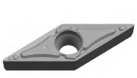
●Stock ○Available Upon Order

Turning Insert (Positive)

VB□□

Diamond 35° with Hole



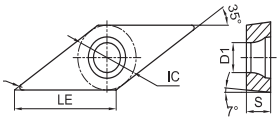
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	VBGT1103005ML-S	11.2	6.35	3.18	2.8	<0.05	○	○		○
	VBGT1103005MR-S	11.2	6.35	3.18	2.8	<0.05	●	●		●
	VBGT110301ML-S	11.2	6.35	3.18	2.8	<0.1	●	○		○
	VBGT110301MR-S	11.2	6.35	3.18	2.8	<0.1	●	○		●
	VBGT110302ML-S	11.2	6.35	3.18	2.8	<0.2	●	○		●
	VBGT110302MR-S	11.2	6.35	3.18	2.8	<0.2	●	○		●
	VBGT110301L-S	11.2	6.35	3.18	2.8	0.1		●		
	VBGT110301R-S	11.2	6.35	3.18	2.8	0.1	○	●		○
	VBGT110302L-S	11.2	6.35	3.18	2.8	0.2		●		
	VBGT110302R-S	11.2	6.35	3.18	2.8	0.2		●		
	VBGT110304L-S	11.2	6.35	3.18	2.8	0.4		○		
	VBGT110304R-S	11.2	6.35	3.18	2.8	0.4		●		
	VBGT160402L-S	16.6	9.525	4.76	4.4	0.2		●		
	VBGT160402R-S	16.6	9.525	4.76	4.4	0.2		●		
	VBGT160404L-S	16.6	9.525	4.76	4.4	0.4		●		
	VBGT160404R-S	16.6	9.525	4.76	4.4	0.4		●		
	VBGT110301M-AF	11.2	6.35	3.18	2.8	<0.1	●		○	●
	VBGT110301M-BF	11.2	6.35	3.18	2.8	<0.1	●		○	●
	VBGT110302M-BF	11.2	6.35	3.18	2.8	<0.2	●		●	●
	VBGT110301M-BK	11.2	6.35	3.18	2.8	<0.1	●		○	●
	VBGT110302M-BK	11.2	6.35	3.18	2.8	<0.2	●		○	●
	VBGT110304M-BK	11.2	6.35	3.18	2.8	<0.4	●			●
	VBGT110301M-SK	11.2	6.35	3.18	2.8	<0.1	○			
	VBGT110302M-SK	11.2	6.35	3.18	2.8	<0.2	○			
	VBGT110304M-SK	11.2	6.35	3.18	2.8	<0.4	○			
	VBGT110302M-MM	11.2	6.35	3.18	2.8	<0.2	●		○	●
	VBGT110304M-MM	11.2	6.35	3.18	2.8	<0.4	●			●

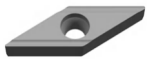
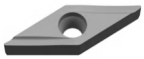
●Stock ○Available Upon Order

Turning Insert (Positive)

VC□□

Diamond 35° with Hole



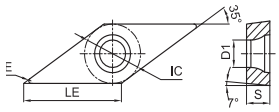
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	VCGT1103005ML-P	11.2	6.35	3.18	2.8	<0.05	○	○		○
	VCGT1103005MR-P	11.2	6.35	3.18	2.8	<0.05	○	○		○
	VCGT110301ML-P	11.2	6.35	3.18	2.8	<0.1	○	○		○
	VCGT110301MR-P	11.2	6.35	3.18	2.8	<0.1	○	○		●
	VCGT1103003L-P	11.2	6.35	3.18	2.8	0.03		○		
	VCGT1103003R-P	11.2	6.35	3.18	2.8	0.03		○		
	VCGT110301L-P	11.2	6.35	3.18	2.8	0.1		○		
	VCGT110301R-P	11.2	6.35	3.18	2.8	0.1		○		
	VCGT110302L-P	11.2	6.35	3.18	2.8	0.2		○		
	VCGT110302R-P	11.2	6.35	3.18	2.8	0.2		●		
	VCGT110304L-P	11.2	6.35	3.18	2.8	0.4		○		
	VCGT110304R-P	11.2	6.35	3.18	2.8	0.4		○		
	VCGT1103005MR-G	11.2	6.35	3.18	2.8	<0.05	●	●		●
	VCGT110302R-G	11.2	6.35	3.18	2.8	0.2		○		
	VCGT1103005ML-S	11.2	6.35	3.18	2.8	<0.05	○	○		●
	VCGT1103005MR-S	11.2	6.35	3.18	2.8	<0.05	○	○		○
	VCGT1103003R-S	11.2	6.35	3.18	2.8	0.03		○		
	VCGT110301L-S	11.2	6.35	3.18	2.8	0.1		●		
	VCGT110301R-S	11.2	6.35	3.18	2.8	0.1		●		
	VCGT110302L-S	11.2	6.35	3.18	2.8	0.2		○		
	VCGT110302R-S	11.2	6.35	3.18	2.8	0.2		●		

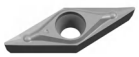
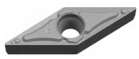
●Stock ○Available Upon Order

Turning Insert (Positive)

VC□□

Diamond 35° with Hole



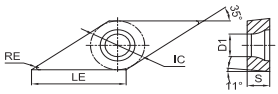
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	VCGT110301M-AF	11.2	6.35	3.18	2.8	<0.1	●		○	●
	VCGT080202M-BF	8.3	4.76	2.38	2.3	<0.2	●			●
	VCGT110301M-BF	11.2	6.35	3.18	2.8	<0.1	●		○	●
	VCGT110302M-BF	11.2	6.35	3.18	2.8	<0.2	●		●	●
	VCGT110301M-BK	11.2	6.35	3.18	2.8	<0.1	●		○	●
	VCGT110302M-BK	11.2	6.35	3.18	2.8	<0.2	●		●	●
	VCGT110304M-BK	11.2	6.35	3.18	2.8	<0.4	●			●
	VCGT110302M-MM	11.2	6.35	3.18	2.8	<0.2	●		●	●
	VCGT110304M-MM	11.2	6.35	3.18	2.8	<0.4	●			●

●Stock ○Available Upon Order

Turning Insert (Positive)

VP□□

Diamond 35° with Hole



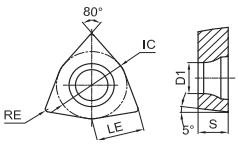
Order No.	Dimensions (mm)					Coated Cemented Carbide			
	LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
VPGT1103005ML-P	11.2	6.35	3.18	2.8	<0.05	○	○		○
VPGT1103005MR-P	11.2	6.35	3.18	2.8	<0.05	●	○		○
VPGT110301ML-P	11.2	6.35	3.18	2.8	<0.1	○	○		○
VPGT110301MR-P	11.2	6.35	3.18	2.8	<0.1	●	●		●
VPGT110302ML-P	11.2	6.35	3.18	2.8	<0.2	○	○		○
VPGT110302MR-P	11.2	6.35	3.18	2.8	<0.2	●	○		●
VPGT1103003L-P	11.2	6.35	3.18	2.8	0.03		○		
VPGT1103003R-P	11.2	6.35	3.18	2.8	0.03		○		
VPGT110301L-P	11.2	6.35	3.18	2.8	0.1		○		
VPGT110301R-P	11.2	6.35	3.18	2.8	0.1		●		
VPGT110302L-P	11.2	6.35	3.18	2.8	0.2		●		
VPGT110302R-P	11.2	6.35	3.18	2.8	0.2		●		
VPGT1103005ML-G	11.2	6.35	3.18	2.8	<0.05	○	○		○
VPGT1103005MR-G	11.2	6.35	3.18	2.8	<0.05	○	○		○
VPGT110301L-G	11.2	6.35	3.18	2.8	0.1		○		
VPGT110301R-G	11.2	6.35	3.18	2.8	0.1		●		
VPGT110302R-G	11.2	6.35	3.18	2.8	0.2	●	●		●
VPGT080201M-BK	8.3	4.76	2.38	2.3	<0.1	○			○
VPGT080202M-BK	8.3	4.76	2.38	2.3	<0.2	○			○

●Stock ○Available Upon Order

Turning Insert (Positive)

WB□□

Hexagon 80° with Hole



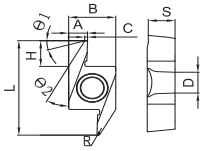
Order No.		Dimensions (mm)					Coated Cemented Carbide			
		LE	IC	S	D1	RE	GAT7115	GAT7120	GAT7120A	GAT7125
	WBGT020101L-P	2.5	3.97	1.59	2.3	0.1		●		
	WBGT020102L-P	2.5	3.97	1.59	2.3	0.2	○	●		○
	WBGT020104L-P	2.5	3.97	1.59	2.3	0.4	○	●		●
	WBGTL30202L-P	3.2	4.76	2.38	2.3	0.2		○		
	WBGTL30204L-P	3.2	4.76	2.38	2.3	0.4		○		

●Stock ○Available Upon Order

Back-turning Inserts

GSAB□□

Horizontally-installed Back-turning Inserts



Order No.	Dimensions (mm)										Coated Cemented Carbide			
	A	B	C	D	H	L	R	S	Θ1	Θ2	GAT7115	GAT7120	GAT7120A	GAT7125
 GSAB15R4025005	2.8	7.0	0.4	3.4	4.3	15.5	0.05	3.97	15 °	30 °	●	●		●
GSAB15R4025005M	2.8	7.0	0.4	3.4	4.3	15.5	<0.05	3.97	15 °	30 °	●	●		●
GSAB15R4025015	2.8	7.0	0.4	3.4	4.2	15.4	0.15	3.97	15 °	30 °	●	●		●
GSAB15R4025015M	2.8	7.0	0.4	3.4	4.2	15.4	<0.15	3.97	15 °	30 °	●	●		●
 GSAB15R4045005	4.7	7.0	0.65	3.4	4.3	15.5	0.05	3.97	15 °	45 °	○	●		○
GSAB15R4045005M	4.7	7.0	0.65	3.4	4.3	15.5	<0.05	3.97	15 °	45 °	○	●		○
GSAB15R4045015	4.7	7.0	0.65	3.4	4.2	15.4	0.15	3.97	15 °	45 °	●	●		○
GSAB15R4045015M	4.7	7.0	0.65	3.4	4.2	15.4	<0.15	3.97	15 °	45 °	●	●		○
 GSAB23R5045005	4.7	7.0	0.55	3.4	5.3	23.5	0.05	3.97	15 °	40 °	○	●		○
GSAB23R5045005M	4.7	7.0	0.55	3.4	5.3	23.5	<0.05	3.97	15 °	40 °	○	●		○
GSAB23R5045015	4.7	7.0	0.55	3.4	5.2	23.4	0.15	3.97	15 °	40 °	●	●		●
GSAB23R5045015M	4.7	7.0	0.55	3.4	5.2	23.4	<0.15	3.97	15 °	40 °	●	●		○

●Stock ○Available Upon Order

Back-turning Type Representation Method

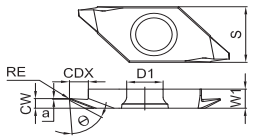
GSAB 15 R 40 25 015 (M)

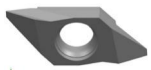
Series code-horizontally-installed Back-turning	Insert Size	Insert Direction	Maximum Cutting Depth	Cutting Edge Width	Tip Arc	Tip Arc Is of Negative Tolerance

Back-turning Inserts

GSTB□□

Vertically-installed Back-turning Inserts

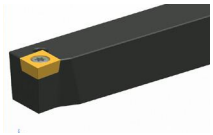
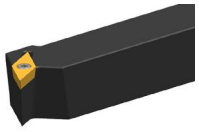
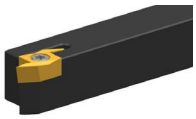
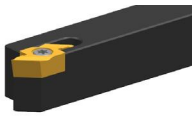
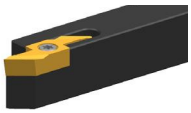


Order No.		Dimensions (mm)								Coated Cemented Carbide			
		CW	CDX	a	Θ	RE	D1	W1	S	GAT7115	GAT7120	GAT7120A	GAT7125
	GSTB3R15005M	1.5	2.7	0.25	56 °	<0.05	5.2	3.0	8.7	●	●		○
	GSTB3R15010M	1.5	2.7	0.25	56 °	<0.10	5.2	3.0	8.7	○	●		○
	GSTB3R28005M	2.8	4.6	0.3	56 °	<0.05	5.2	3.0	8.7	●	○		○
	GSTB3R28010M	2.8	4.6	0.3	56 °	<0.10	5.2	3.0	8.7	●	●		○
	GSTB3R28020	2.8	4.6	0.5	56 °	0.20	5.2	3.0	8.7		○		○
	GSTB4R38005M	3.8	6.3	0.3	56 °	<0.05	5.2	4.0	9.5	●	○		○
	GSTB4R38010M	3.8	6.3	0.3	56 °	<0.10	5.2	4.0	9.5	●	○		○
	GSTB4R38020M	3.8	6.3	0.5	56 °	<0.20	5.2	4.0	9.5	○			○

●Stock ○Available Upon Order

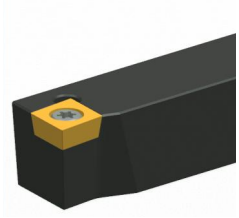
GSTB	3	R	28	015	(M)
Series Code-vertically-installed Back-turning	Insert Size	Insert Direction	Cutting Edge Width	Tip Arc	Tip Arc Is of Negative Tolerance

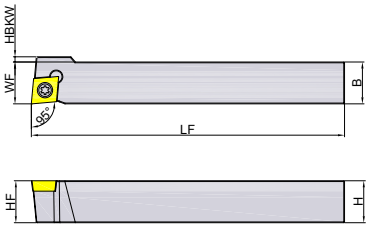
List of Turning Tool Holders

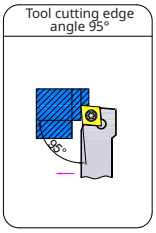
SCLCR/L-Z	SDJCR/L-Z	SVJ*R/L-Z	SVQ*R-Z	SDJCR
P110	P110	P111	P112	P112
				
SGSAB-4025F	SGSAB-4045F	SGSAB-5045F	GST	GST-RS
P113	P113	P114	P115	P115
				

Small Part Turning Tool Holder-no Offset Head (Positive)

SCLCR/L-Z



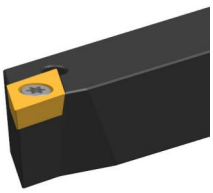


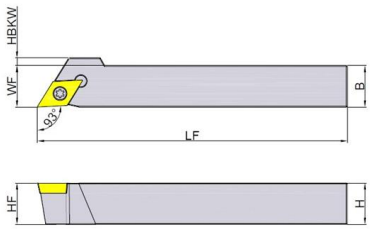


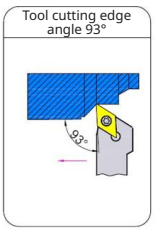
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	HBKW					R	L
SCLCR/L1010JK06Z	10	10	120	10	10	-	CC**0602**	SI60M025065-03509S	TT07PQ	0.09	●	●
SCLCR/L1010JK09Z	10	10	120	10	10	2.5	CC**09T3**	SI60M040089-05313S	TT15PQ	0.09	●	●
SCLCR/L1212JK09Z	12	12	120	12	12	-	CC**09T3**	SI60M040089-05313S	TT15PQ	0.14	●	●
SCLCR/L1616JK09Z	16	16	120	16	16	-	CC**09T3**	SI60M040089-05313S	TT15PQ	0.24	●	●

●Stock ○Available Upon Order

SDJCR/L-Z





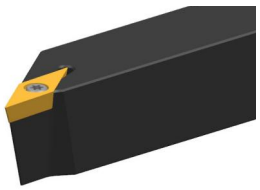


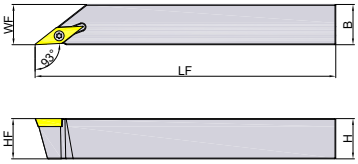
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	HBKW					R	L
SDJCR/L1010JK07Z	10	10	120	10	10	-	DC**0702**	SI60M025065-03509S	TT07PQ	0.09	●	●
SDJCR/L1010JK11Z	10	10	120	10	10	3	DC**11T3**	SI60M040089-05313S	TT15PQ	0.09	●	●
SDJCR/L1212JK11Z	12	12	120	12	12	1	DC**11T3**	SI60M040089-05313S	TT15PQ	0.14	●	●
SDJCR/L1616JK11Z	16	16	120	16	16	-	DC**11T3**	SI60M040089-05313S	TT15PQ	0.24	●	●

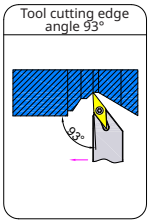
●Stock ○Available Upon Order

Small Part Turning Tool Holder-no Offset Head (Positive)

SVJ*R/L-Z





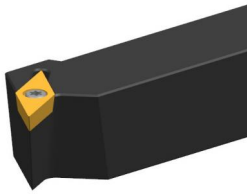


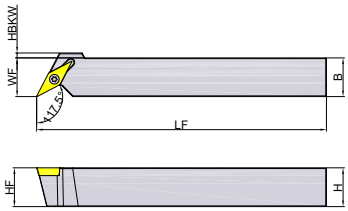
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	HBKW					R	L
SVJBR/L1010JK11Z	10	10	120	10	10	-	VB**1103**	SI60M025065-03509S	TT07PQ	0.09	●	●
SVJBR/L1212JK11Z	12	12	120	12	12	-	VB**1103**	SI60M025065-03509S	TT07PQ	0.14	●	●
SVJBR/L1616JK11Z	16	16	120	16	16	-	VB**1103**	SI60M025065-03509S	TT07PQ	0.24	●	●
SVJCR/L1010JK11Z	10	10	120	10	10	-	VC**1103**	SI60M025065-03509S	TT07PQ	0.09	●	●
SVJCR/L1212JK11Z	12	12	120	12	12	-	VC**1103**	SI60M025065-03509S	TT07PQ	0.14	●	●
SVJCR/L1616JK11Z	16	16	120	16	16	-	VC**1103**	SI60M025065-03509S	TT07PQ	0.24	●	●
SVJPR/L1212JK11Z	12	12	120	12	12	-	VP**1103**	SI60M025065-03509S	TT07PQ	0.14	●	●
SVJPR/L1616JK11Z	16	16	120	16	16	-	VP**1103**	SI60M025065-03509S	TT07PQ	0.24	●	●

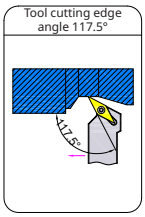
●Stock ○Available Upon Order

Small Part Turning Tool Holder-no Offset Head (Positive)

SVQ*R-Z



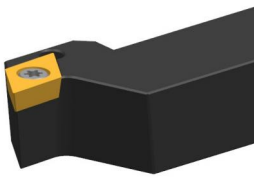


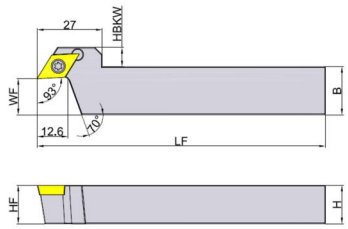


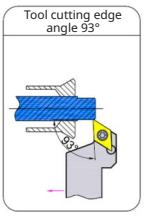
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	HBKW					R	L
SVQCR1010JK11Z	10	10	120	10	10	8	VC**1103**	SI60M025065-03509S	TT07PQ	0.09	●	
SVQCR1212JK11Z	12	12	120	12	12	6	VC**1103**	SI60M025065-03509S	TT07PQ	0.14	●	
SVQCR1616JK11Z	16	16	120	16	16	2	VC**1103**	SI60M025065-03509S	TT07PQ	0.24	●	
SVQPR1010JK08Z	10	10	120	10	10	4	VP**0802**	SI60M020050-02806S	TT06PQ	0.09	●	
SVQPR1010JK11Z	10	10	120	10	10	8	VP**1103**	SI60M025065-03509S	TT07PQ	0.09	●	
SVQPR1212JK08Z	12	12	120	12	12	2	VP**0802**	SI60M020050-02806S	TT06PQ	0.14	●	
SVQPR1212JK11Z	12	12	120	12	12	6	VP**1103**	SI60M025065-03509S	TT07PQ	0.14	●	
SVQPR1616JK08Z	16	16	120	16	16	-	VP**0802**	SI60M020050-02806S	TT06PQ	0.24	●	
SVQPR1616JK11Z	16	16	120	16	16	2	VP**1103**	SI60M025065-03509S	TT07PQ	0.24	●	

●Stock ○Available Upon Order

SDJCR





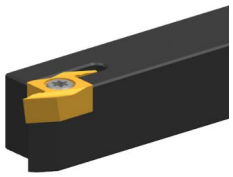


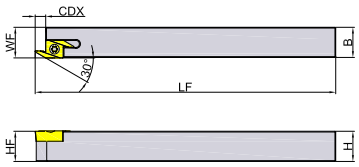
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	HBKW					R	L
SDJCR1216JK11F15	12	16	120	12	15	12	DC**11T3**	SI60M040089-05313S	TT15PQ	0.18	●	
SDJCR1620JK11F15	16	20	120	16	15	8	DC**11T3**	SI60M040089-05313S	TT15PQ	0.30	●	

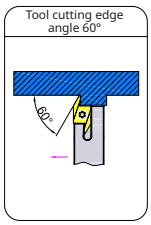
●Stock ○Available Upon Order

Small Part Turning Tool Holder-back-turning Tool Holders (GSAB)

SGSAB-4025F



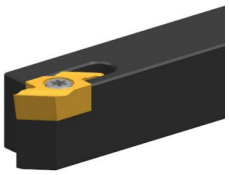


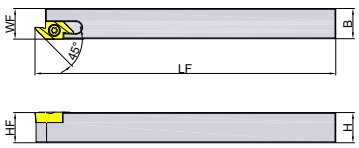


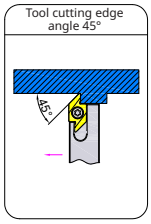
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	CDX					R	L
SGSABR1010JK4025F	10	10	120	10	10.2	4.2	GSAB15R4025**	SI60M030072-04210S	TT09PQ	0.09	●	
SGSABR1212JK4025F	12	12	120	12	12.2	4.2	GSAB15R4025**	SI60M030072-04210S	TT09PQ	0.14	●	
SGSABR1616JK4025F	16	16	120	16	16.2	4.2	GSAB15R4025**	SI60M030072-04210S	TT09PQ	0.24	●	

●Stock ○Available Upon Order

SGSAB-4045F





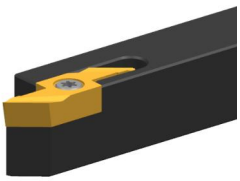


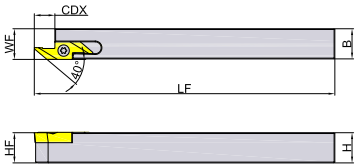
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	CDX					R	L
SGSABR1010JK4045F	10	10	120	10	10.2	4.2	GSAB15R4045**	SI60M030072-04210S	TT09PQ	0.09	●	
SGSABR1212JK4045F	12	12	120	12	12.2	4.2	GSAB15R4045**	SI60M030072-04210S	TT09PQ	0.14	●	
SGSABR1616JK4045F	16	16	120	16	16.2	4.2	GSAB15R4045**	SI60M030072-04210S	TT09PQ	0.24	●	

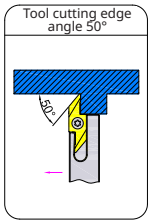
●Stock ○Available Upon Order

Small Part Turning Tool Holder-back-turning Tool Holders (GSAB)

SGSAB-5045F





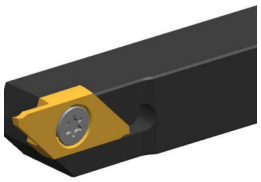


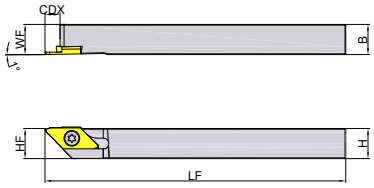
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	CDX					R	L
SGSABR1010JK5045F	10	10	120	10	10.2	8.2	GSAB23R5045**	SI60M030072-04210S	TT09PQ	0.09	●	
SGSABR1212JK5045F	12	12	120	12	12.2	8.2	GSAB23R5045**	SI60M030072-04210S	TT09PQ	0.14	●	
SGSABR1616JK5045F	16	16	120	16	16.2	8.2	GSAB23R5045**	SI60M030072-04210S	TT09PQ	0.24	●	

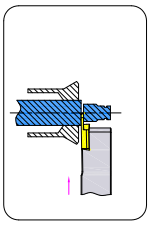
●Stock ○Available Upon Order

Small Part Turning Tool Holder-back-turning

GST



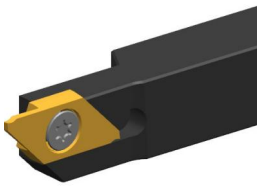


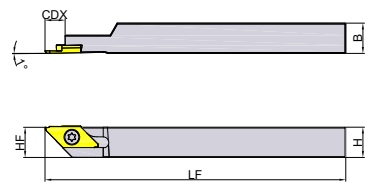


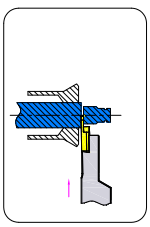
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	CDX					R	L
GSTR/L1010JK3	10	10	120	10	10	6	GST*3R**	SSAM045095Q	TT10PQ	0.09	●	○
GSTR/L1212JK3	12	12	120	12	12	6	GST*3R**	SSAM045095Q	TT10PQ	0.14	●	○
GSTR/L1616JK3	16	16	120	16	16	6	GST*3R**	SSAM045095Q	TT10PQ	0.24	●	○
GSTR/L2020JK3	20	20	120	20	20	6	GST*3R**	SSAM045095Q	TT10PQ	0.40	●	○
GSTR/L1010JK4	10	10	120	10	10	8	GST*4R**	SSAM045095Q	TT10PQ	0.09	●	○
GSTR/L1212JK4	12	12	120	12	12	8	GST*4R**	SSAM045095Q	TT10PQ	0.14	●	○
GSTR/L1616JK4	16	16	120	16	16	8	GST*4R**	SSAM045095Q	TT10PQ	0.24	●	○
GSTR/L2020JK4	20	20	120	20	20	8	GST*4R**	SSAM045095Q	TT10PQ	0.40	●	○

●Stock ○Available Upon Order

GST-RS







Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF	CDX					R	L
GSTR/L1010JK3-RS	10	10	120	10	7.2	6	GST*3R/L**	SSAM045070Q	TT10PQ	0.09	●	○
GSTR/L1212JK3-RS	12	12	120	12	7.2	6	GST*3R/L**	SSAM045070Q	TT10PQ	0.14	●	○
GSTR/L1010JK4-RS	10	10	120	10	7.2	8	GST*4R/L**	SSAM045070Q	TT10PQ	0.09	●	○
GSTR/L1212JK4-RS	12	12	120	12	7.2	8	GST*4R/L**	SSAM045070Q	TT10PQ	0.14	●	○

●Stock ○Available Upon Order

Recommended Cutting Data

ISO	Workpiece Material	Hardness (HB)	Geome-try	Grade	Lower Limit-recommended-upper Limit		
					Linear Speed Vc(m/min)	Cutting Depth ap(mm)	Feed f(mm/rev)
P	Steel	⩽300	P	GAT7115	60-120-180	0.03-0.1-0.5	0.03-0.1-0.18
				GAT7120	40-90-140		
				GAT7125	40-90-150		
			G	GAT7115	60-120-180	0.3-0.8-2.5	0.01-0.05-0.08
				GAT7120	40-90-140		
				GAT7125	40-90-150		
			S	GAT7115	60-120-180	0.3-0.8-2	0.08-0.12-0.25
				GAT7120	40-90-140		
				GAT7125	40-90-150		
			AF	GAT7115	60-120-180	0.02-0.16-0.2	0.03-0.08-0.12
				GAT7125	40-90-150		
				GAT7120A	50-100-160		
			AK	GAT7115	60-120-180	0.3-1.4-2.5	0.02-0.07-0.12
				GAT7125	40-90-150		
				GAT7120A	50-100-160		
			BF	GAT7115	60-120-180	0.2-0.7-1.2	0.02-0.06-0.12
				GAT7125	40-90-150		
				GAT7120A	50-100-160		
			BK	GAT7115	60-120-180	0.8-1.6-2.5	0.03-0.08-0.12
				GAT7125	40-90-150		
				GAT7120A	50-100-160		
			MM	GAT7115	60-120-180	0.8-1.8-3	0.03-0.06-0.1
				GAT7125	40-90-150		
				GAT7120A	50-100-160		

Recommended Cutting Data

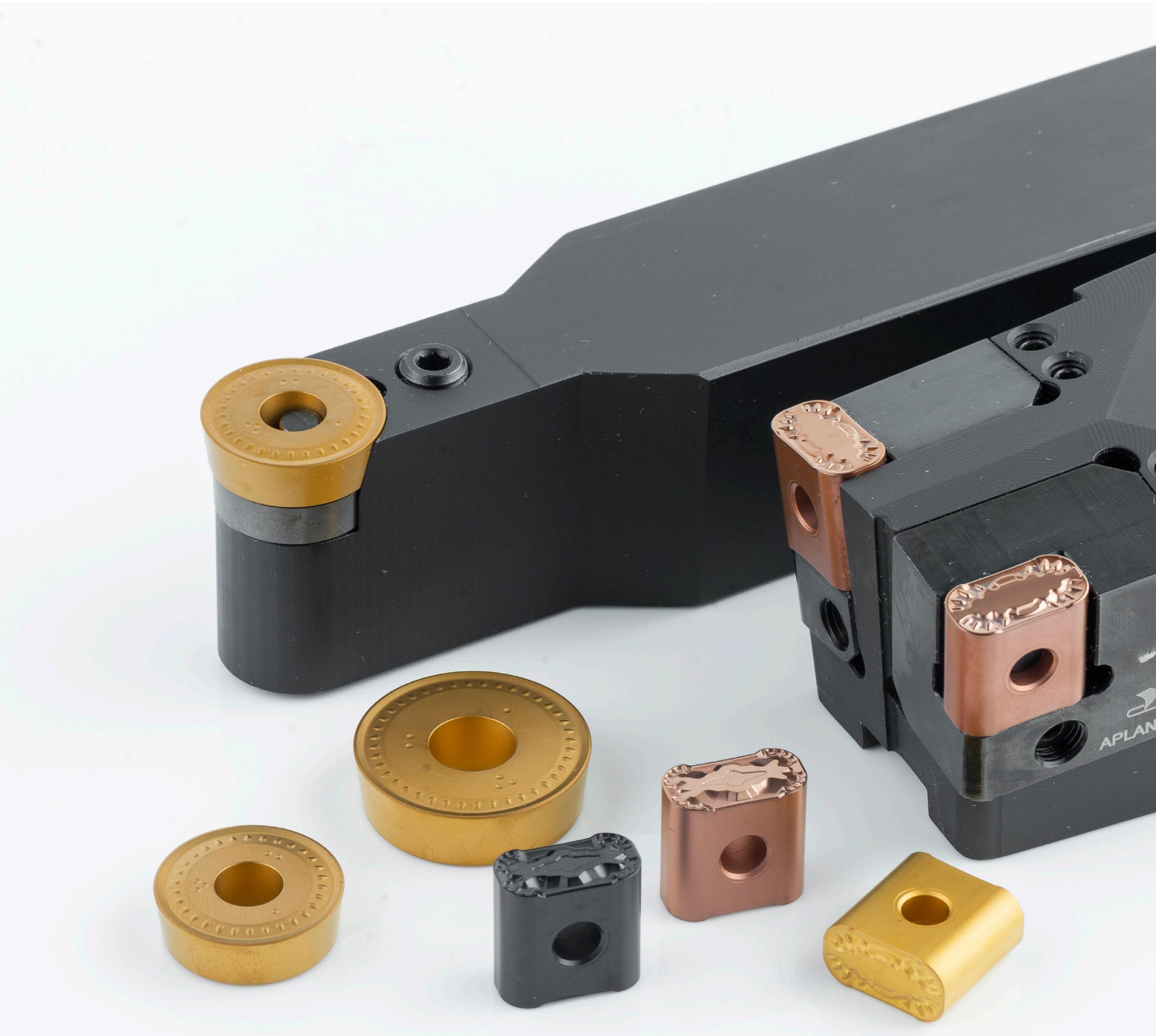
ISO	Workpiece Material	Hardness (HB)	Geome-try	Grade	Lower Limit-recommended-upper Limit		
					Linear Speed Vc(m/min)	Cutting Depth ap(mm)	Feed f(mm/rev)
M	Stainless Steel	⩽300	P	GAT7115	60-100-150	0.03-0.1-0.5	0.03-0.1-0.18
				GAT7120	40-80-120		
				GAT7125	40-80-130		
			G	GAT7115	60-100-150	0.3-0.8-2.5	0.01-0.05-0.08
				GAT7120	40-80-120		
				GAT7125	40-80-130		
			S	GAT7115	60-100-150	0.3-0.8-2	0.08-0.12-0.25
				GAT7120	40-80-120		
				GAT7125	40-80-130		
			AF	GAT7115	60-100-150	0.02-0.16-0.2	0.03-0.08-0.12
				GAT7125	40-80-130		
			AK	GAT7115	60-100-150	0.3-1.4-2.5	0.02-0.07-0.12
				GAT7125	40-80-130		
			BF	GAT7115	60-100-150	0.2-0.7-1.2	0.02-0.06-0.12
				GAT7125	40-80-130		
			BK	GAT7115	60-100-150	0.8-1.6-2.5	0.03-0.08-0.12
				GAT7125	40-80-130		
			MM	GAT7115	60-100-150	0.8-1.8-3	0.03-0.06-0.1
				GAT7125	40-80-130		

ISO	Workpiece Material	Hardness (HB)	Geome-try	Grade	Lower Limit-recommended-upper Limit			
					Linear Speed Vc(m/min)	Cutting Depth ap(mm)	Grooving feed f1(mm/rev)	Transverse feed f2(mm/rev)
P	Steel	⩽300	GSAB	GAT7115	60-120-180	0.5-2.0-5.0	0.01-0.02-0.03	0.01-0.05-0.1
				GAT7120	40-90-140			
				GAT7125	40-90-150			
			GSTB	GAT7115	60-120-180	0.5-2.5-6.0	0.01-0.02-0.03	0.01-0.05-0.15
				GAT7120	40-90-140			
				GAT7125	40-90-150			
M	Stainless steel	⩽300	GSAB	GAT7115	60-100-150	0.5-2.0-5.0	0.01-0.02-0.03	0.01-0.05-0.1
				GAT7120	40-80-120			
				GAT7125	40-80-130			
			GSTB	GAT7115	60-100-150	0.5-2.5-6.0	0.01-0.02-0.03	0.01-0.05-0.15
				GAT7120	40-80-120			
				GAT7125	40-80-130			

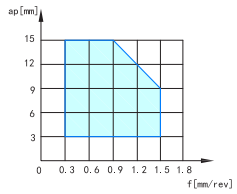
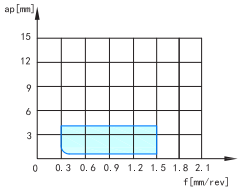
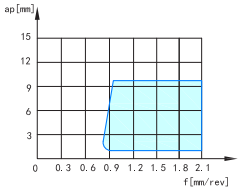
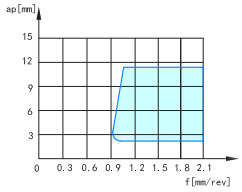
MEMO

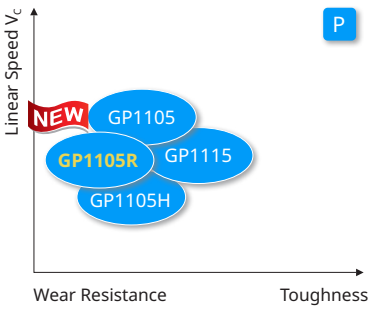
D

TURNING TOOLS FOR RAIL TRANSIT INDUSTRY



Introduction to Applications

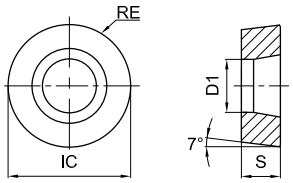
Train Wheel New Insert Rcmx Series	Train Wheel Repair Insert Lnmx Series		
General	Finishing	Semi-finishing	Roughing
RR	HF	HM	HR
			

Train Wheel Machining Grade
General
GP1105R


Turning Insert (Positive)

RCMX

Round, with Hole



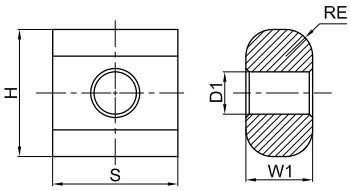
Order No.		Dimensions				Coated Cemented Carbide			
		IC	S	D1	RE	GP1105R	GP1105H	GP1105	GP1115
	RCMX160600-RR	16	6.35	5.5	8		○		
	RCMX200600-RR	20	6.35	6.5	10		○		
	RCMX250700-RR	25	7.94	7.2	12.5		●		
	RCMX320900-RR	32	9.52	9.5	16		○		
	RCMX250700-RR1	25	7.94	7.2	12.5	●			

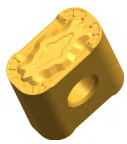
●Stock ○Available Upon Order

Turning Insert (Negative)

LNMX

Vertically-installed Insert

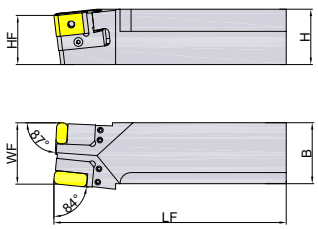


	Order No.	Dimensions					Coated Cemented Carbide			
		H	W1	S	D1	RE	GP1105R	GP1105H	GP1105	GP1115
	LNMX191940-HF	19.05	10	19.05	6.35	4			○	○
	LNMX191940-HM	19.05	10	19.05	6.35	4			○	○
	LNMX301940-HM	30	12	19.05	6.35	4	○		○	○
	LNMX301940-HR	30	12	19.05	6.35	4	○		○	○

●Stock ○Available Upon Order

Tool Holder for Train Wheel Repair

TXZNR/L



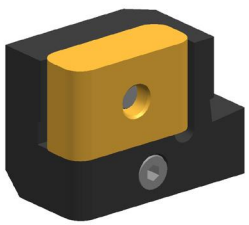
Order No.	Dimensions					Matched Tool Clamp	Fixing Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	HF	WF					R	L
TXZNR/L5055X-A	50	55	210	44	55	APLANR/L3223-19 APLANR/L3223-30 APLFNR/L3219-19	STCM060180Y	TH30LY	3.8	○	○

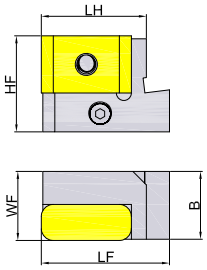
Notes: The tool holder does not include the tool clamp. The tool clamp needs to be purchased separately.

●Stock ○Available Upon Order

Train Wheel Repair Tool Holder Matched Tool Clamp

APLANR/L



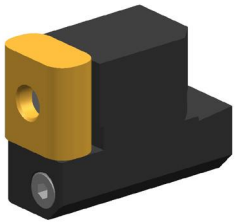


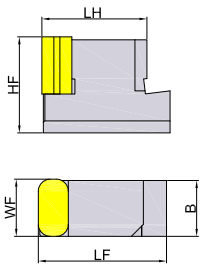
Order No.	Dimensions					Matched Tool Clamp	Lever	Lever Screw	Wrench	Weight (KG)	In Stock	
	B	LH	LF	HF	WF						R	L
APLANR/L3223-19	22.6	35	42.7	32	TH30LH	LNMX19**	LA5Y	SLM080250FY	TH30LY	0.17	○	○
APLANR/L3223-30	22.6	35	42.7	32	TH30LH	LNMX30**	LA5Y	SLM080250FY	TH30LY	0.15	○	○

●Stock ○Available Upon Order

Train Wheel Repair Tool Holder Matched Tool Clamp

APLFNR/L





Order No.	Dimensions					Matched Insert	Lever	Lever Screw	Wrench	Weight (KG)	In Stock	
	B	LH	LF	HF	WF						R	L
APLFNR/L3219-19	18.6	35	42.7	32	19.05	LNMX19**	LA5Y	SLM080250FY	TH30LY	0.13	○	○

●Stock ○Available Upon Order

Recommended Cutting Data (Positive)

Machined Material		Material Hardness	Cutting Range	Working Condition	Chip Breaker	Grade	Lower Limit-recommended-upper Limit		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feed f(mm/rev)
P	Steel	⩾ HB240	Finishing-roughing	General	RR	GP1105H	50-100-150	2.00-7.50-15.0	0.30-1.00-1.80
			Finishing-roughing	General	RR1	GP1105R	50-100-150	2.00-7.50-15.0	0.30-1.00-1.80

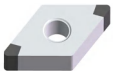
Recommended Cutting Data (Negative)

Machined Material		Material Hardness	Cutting Range	Working Condition	Chip Breaker	Grade	Lower Limit-recommended-upper Limit		
							Cutting Speed Vc(m/min)	Cutting Depth ap(mm)	Feed f(mm/rev)
P	Steel	⩾ HB240	Finishing	General	HF	GP1105R	40-70-100	0.50-2.00-4.00	0.30-0.8-1.50
						GP1105	40-70-100	0.50-2.00-4.00	0.30-0.8-1.50
						GP1115	40-70-100	0.50-2.00-4.00	0.30-0.8-1.50
			Semi-finishing	General	HM	GP1105R	40-70-100	0.80-5.00-10.0	0.5-1.00-2.00
						GP1105	40-70-100	0.80-5.00-10.0	0.5-1.00-2.00
						GP1115	40-70-100	0.80-5.00-10.0	0.5-1.00-2.00
			Roughing	General	HR	GP1105R	40-70-100	2.00-7.50-12.0	0.80-1.30-2.1
						GP1105	40-70-100	2.00-7.50-12.0	0.80-1.30-2.1
						GP1115	40-70-100	2.00-7.50-12.0	0.80-1.30-2.1

E

PCBN/PCD TURNING INSERT

List of PCBN/PCD Inserts

Type	Features		Diamond 80°	Diamond 55°	Triangle 60°	Diamond 35°	Hexagon 80°	Quadrangle 90°	Circle 360°
Soldering Lug Type	• Used for cutting with higher accuracy and a longer service life. • Diversified tool forms	Negative PCBN							
			CNGA	DNGA	TNGA	VNGA	WNGA		
			P130	P131	P132	P133	P133		
		Positive PCBN							
			CCGW	DCGW	TCGW/TPGW	VBGW/VCGW			
			P134	P135	P135-136	P137			
		Positive PCD							
			CCGW	DCGW	TCGW/TPGW	VCGW			RDEW
			P145	P146	P147-148	P149			P150
Column Type	• It can be used on both sides, which is more economical. • It has firm welding stability.	Negative PCBN							
			CNGA	DNGA	TNGA	VNGA	WNGA		
			P138	P138	P139	P139	P140		
Integral Type	• Integral type structure, which can realize the machining of large margin or unstable working conditions.	Negative PCBN							
			CNGN	DNGN			WNGN	SNGN	RNGN
			P141	P141			P142	P142	P143
		Positive PCBN							
									RCGN
									P143

List of PCBN/PCD Inserts

Outline	Series	Application	Width (mm)	Material	Page No.
	GB	Precision Grooving	1.25-4	PCBN	P144

Type Representation Rules for PCBN/PCD Turning Inserts

Code	Shape	Tip (°)	Graphics
H	Regular Hexagon	120 °	
O	Regular Octagon	135 °	
P	Regular Pentagon	108 °	
S	Square	90 °	
T	Regular Triangle	60 °	
C	Diamond	80 °	
D		55 °	
V		35 °	
W	Hexagon	80 °	
L	Rectangle	90 °	
A	Parallelogram	85 °	
R	Round	--	

① Shape Code

Code	Relief Angle (°)
A	3 °
B	5 °
C	7 °
D	15 °
E	20 °
F	25 °
G	30 °
N	0 °
P	11 °
O	Others

② Relief Angle Code

Code (level)	Tolerance (mm)			Tolerance (mm)		
	Tip Height	Thickness	Inscribed Circle (Ød)	Tip height	Thickness	Inscribed Circle (Ød)
A	±0.005	±0.025	±0.025	±0.0002	±0.001	±0.001
F	±0.005	±0.025	±0.013	±0.0002	±0.001	±0.0005
C	±0.013	±0.025	±0.025	±0.0005	±0.001	±0.001
H	±0.013	±0.025	±0.013	±0.0005	±0.001	±0.0005
E	±0.025	±0.025	±0.025	±0.001	±0.001	±0.001
G	±0.025	±0.13	±0.025	±0.001	±0.005	±0.001
J	±0.005	±0.025	±0.05~0.13	±0.0002	±0.001	±0.002~0.005
K	±0.013	±0.025	±0.05~0.13	±0.0005	±0.001	±0.002~0.005
L	±0.025	±0.025	±0.05~0.13	±0.001	±0.001	±0.002~0.005
M	±0.08~0.18	±0.13	±0.05~0.13	±0.003~0.007	±0.005	±0.002~0.005
N	±0.08~0.18	±0.025	±0.05~0.13	±0.003~0.007	±0.001	±0.002~0.005
U	±0.13~0.38	±0.13	±0.08~0.25	±0.005~0.015	±0.005	±0.003~0.01

③ Accuracy Code

①	②	③	④	⑤
C	C	G	W	09
T	N	G	A	16

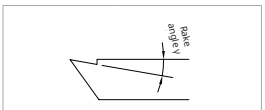
④ Chip breaker · hole code

Code	With/ Without Hole	Hole Shape	Chip Breaker	Shape
N	No	—	No	
R			Single-sided	
F			Double-sided	
A	Yes	Cylindrical Hole	No	
M			Single-sided	
G			Double-sided	
W		Partial Cylindrical Hole, Single-sided, 40°~60°	No	
T			Single-sided	
Q		Partial Cylindrical Hole, Double-sided, 40°~60°	No	
U			Double-sided	
B		Partial Cylindrical Hole, Single-sided, 70°~90°	No	
H			Single-sided	
C		Partial Cylindrical Hole, Double-sided, 70°~90°	No	
J			Double-sided	
X	—	—	—	

⑤ ISO Cutting Edge Length Code (mm)

R		S		C		W		T		D		V		K		Inscribed Circle (mm)
Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions	Code	Dimensions	
		03	3.97	03	4.0			06	6.9	4	4.8					3.97
		04	4.76	04	4.8			08	8.2	5	5.8					4.76
05	5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	5
		05	5.56	05	5.6	03	3.8	09	9.6	6	6.8					5.56
06	6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	6
		06	6.35	06	6.5	04	4.3	11	11	7	7.8	11	11.2			6.35
		07	7.94	08	8.1	05	5.4	13	13.8	9	9.7					7.94
08	8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8
09	9.525	09	9.525	09	9.7	06	6.5	16	16.5	11	11.6	16	16.6	16	19.7	9.525
10	10	--	--	--	--	--	--	--	--	--	--	--	--	--	--	10
12	12	--	--	--	--	--	--	--	--	--	--	--	--	--	--	12
12	12.7	12	12.7	12	12.9	08	8.7	22	22	15	15.5	22	22.1			12.7
15	15.875	15	15.875	16	16.1	10	10.9	27	27.5	19	19.4					15.875
16	16	--	--	--	--	--	--	--	--	--	--	--	--	--	--	16
19	19.05	19	19.05	19	19.3	13	13	33	33	23	23.3					19.05
20	20	--	--	--	--	--	--	--	--	--	--	--	--	--	--	20
		22	22.225	22	22.6			38	38.5	27	27.1					22.225
25	25	--	--	--	--	--	--	--	--	--	--	--	--	--	--	25
25	25.4	25	25.4	25	25.8			44	44	31	31					25.4
31	31.75	31	31.75	32	32.2			55	55	38	38.8					31.75
31	32	--	--	--	--	--	--	--	--	--	--	--	--	--	--	32

Type Representation Rules for PCBN/PCD Turning Inserts



Code	Rake Angle (°)
GN	0° (General)
GB	5° (General)
KB	5° (High-gloss)

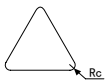
⑧ Cutting Edge Form Code PCD Insert

⑩ Chip Breaker Geometry Code

⑥	⑦	⑧		⑨	⑩
T3	04	GB	–	1	DNF
04	08	M		3	BHM

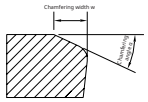
⑥ Thickness Code	
Code	Thickness
01	1.59
02	2.38
T2	2.78
03	3.18
T3	3.97
04	4.76
05	5.56
06	6.35
07	7.94
09	9.52

⑦ Tip Code



Code	Tip Arc Radius
00	0.03
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
28	2.8
32	3.2

⑧ Cutting Edge Form Code PCBN Insert



Code	Cutting Edge Form
L	Continuous Standard Type
LS	Continuous Supplementation Type
M	Continuous Universal Type
H	Interrupted Reinforcement Type

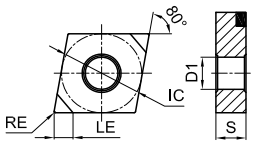
⑨ Indexable Times

Code	Indexable Times
1	1
2	2
3	3
4	4
6	6

PCBN Turning Insert (Negative)-Soldering Lug Type

CN□□

Diamond 80° with Hole



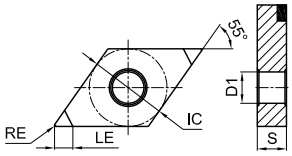
Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
CNGA120404LS-2	2	2.2	12.7	4.76	5.16	0.4	○	●		●			●	●
CNGA120408LS-2	2	2.2	12.7	4.76	5.16	0.8		●		○			●	
CNGA120404M-2	2	2.2	12.7	4.76	5.16	0.4		●	○	○	●	●		●
CNGA120408M-2	2	2.2	12.7	4.76	5.16	0.8	○	○	○		●	●	●	●
CNGA120412M-2	2	2.2	12.7	4.76	5.16	1.2					●	●		●
CNGA120408H-2	2	2.2	12.7	4.76	5.16	0.8					●		●	●
CNGA120404LS-4	4	2.2	12.7	4.76	5.16	0.4							●	
CNGA120408LS-4	4	2.2	12.7	4.76	5.16	0.8							●	
CNGA120404M-4	4	2.2	12.7	4.76	5.16	0.4								●
CNGA120408M-4	4	2.2	12.7	4.76	5.16	0.8								●
CNGA120412M-4	4	2.2	12.7	4.76	5.16	1.2								●
CNGA120408H-4	4	2.2	12.7	4.76	5.16	0.8								●
CNGG120404L-2BHF	2	2.5	12.7	4.76	5.16	0.4							●	●
CNGG120408L-2BHF	2	2.5	12.7	4.76	5.16	0.8							●	●
CNGG120412L-2BHF	2	2.5	12.7	4.76	5.16	1.2							○	○
CNGG120404L-4BHF	4	2.5	12.7	4.76	5.16	0.4							○	○
CNGG120408L-4BHF	4	2.5	12.7	4.76	5.16	0.8							○	○
CNGG120412L-4BHF	4	2.5	12.7	4.76	5.16	1.2							○	○
CNGG120404M-2BHM	2	2.5	12.7	4.76	5.16	0.4							●	●
CNGG120408M-2BHM	2	2.5	12.7	4.76	5.16	0.8							●	●
CNGG120412M-2BHM	2	2.5	12.7	4.76	5.16	1.2							○	○
CNGG120404M-4BHM	4	2.5	12.7	4.76	5.16	0.4							○	○
CNGG120408M-4BHM	4	2.5	12.7	4.76	5.16	0.8							○	○
CNGG120412M-4BHM	4	2.5	12.7	4.76	5.16	1.2							○	○

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Soldering Lug Type

DN□□

Diamond 55° with Hole



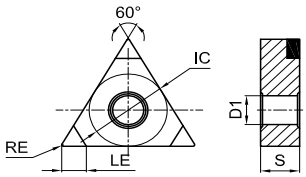
Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
DNGA150404LS-2	2	2.2	12.7	4.76	5.16	0.4	●			●			○	
DNGA150408LS-2	2	2.2	12.7	4.76	5.16	0.8							●	
DNGA150404M-2	2	2.2	12.7	4.76	5.16	0.4					●	○	●	●
DNGA150408M-2	2	2.2	12.7	4.76	5.16	0.8	●	●	●		●	●		●
DNGA150412M-2	2	2.2	12.7	4.76	5.16	1.2		○			○	●		●
DNGA150608M-2	2	2.2	12.7	6.35	5.16	0.8						○		○
DNGA150612M-2	2	2.2	12.7	6.35	5.16	1.2	○				○			○
DNGA150404LS-4	4	2.2	12.7	4.76	5.16	0.4							●	
DNGA150408LS-4	4	2.2	12.7	4.76	5.16	0.8							●	
DNGA150404M-4	4	2.2	12.7	4.76	5.16	0.4								●
DNGA150408M-4	4	2.2	12.7	4.76	5.16	0.8								●
DNGA150412M-4	4	2.2	12.7	4.76	5.16	1.2								●
DNGA150604M-4	4	2.2	12.7	6.35	5.16	0.4								●
DNGA150608M-4	4	2.2	12.7	6.35	5.16	0.8								●
DNGA150612M-4	4	2.2	12.7	6.35	5.16	1.2								●
DNGG150404L-2BHF	2	2.5	12.7	4.76	5.16	0.4							●	●
DNGG150408L-2BHF	2	2.5	12.7	4.76	5.16	0.8							●	●
DNGG150412L-2BHF	2	2.5	12.7	4.76	5.16	1.2							○	○
DNGG150404L-4BHF	4	2.5	12.7	4.76	5.16	0.4							○	○
DNGG150408L-4BHF	4	2.5	12.7	4.76	5.16	0.8							○	○
DNGG150412L-4BHF	4	2.5	12.7	4.76	5.16	1.2							○	○
DNGG150404M-2BHM	2	2.5	12.7	4.76	5.16	0.4							●	●
DNGG150408M-2BHM	2	2.5	12.7	4.76	5.16	0.8							●	●
DNGG150412M-2BHM	2	2.5	12.7	4.76	5.16	1.2							○	○
DNGG150404M-4BHM	4	2.5	12.7	4.76	5.16	0.4							○	○
DNGG150408M-4BHM	4	2.5	12.7	4.76	5.16	0.8							○	○
DNGG150412M-4BHM	4	2.5	12.7	4.76	5.16	1.2							○	○

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Soldering Lug Type

TN□□

Triangle 60° with Hole



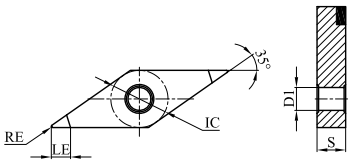
Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
TNGA160404LS-3	3	2.2	9.525	4.76	3.81	0.4							●	
TNGA160408LS-3	3	2.2	9.525	4.76	3.81	0.8				●			●	
TNGA160404M-3	3	2.2	9.525	4.76	3.81	0.4	●		●	●	●	●	●	●
TNGA160408M-3	3	2.2	9.525	4.76	3.81	0.8	○			●	●	●	●	●
TNGA160412M-3	3	2.2	9.525	4.76	3.81	1.2					○	○		○
TNGA160404H-3	3	2.2	9.525	4.76	3.81	0.8								●
TNGA160408H-3	3	2.2	9.525	4.76	3.81	0.8					○	○		●
TNGA160404LS-6	6	2.2	9.525	4.76	3.81	0.4							●	
TNGA160408LS-6	6	2.2	9.525	4.76	3.81	0.8							●	
TNGA160404M-6	6	2.2	9.525	4.76	3.81	0.4								●
TNGA160408M-6	6	2.2	9.525	4.76	3.81	0.8								●
TNGA160412M-6	6	2.2	9.525	4.76	3.81	1.2								●
TNGA160408H-6	6	2.2	9.525	4.76	3.81	0.8								●
TNGG160404L-3BHF	3	2.5	9.525	4.76	3.81	0.4							●	●
TNGG160408L-3BHF	3	2.5	9.525	4.76	3.81	0.8							●	●
TNGG160412L-3BHF	3	2.5	9.525	4.76	3.81	1.2							○	○
TNGG160404L-6BHF	6	2.5	9.525	4.76	3.81	0.4							○	○
TNGG160408L-6BHF	6	2.5	9.525	4.76	3.81	0.8							○	○
TNGG160412L-6BHF	6	2.5	9.525	4.76	3.81	1.2							○	○
TNGG160404M-3BHM	3	2.5	9.525	4.76	3.81	0.4							●	●
TNGG160408M-3BHM	3	2.5	9.525	4.76	3.81	0.8							●	●
TNGG160412M-3BHM	3	2.5	9.525	4.76	3.81	1.2							○	○
TNGG160404M-6BHM	6	2.5	9.525	4.76	3.81	0.4							○	○
TNGG160408M-6BHM	6	2.5	9.525	4.76	3.81	0.8							○	○
TNGG160412M-6BHM	6	2.5	9.525	4.76	3.81	1.2							○	○

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Soldering Lug Type

VN□□

Diamond 35° with Hole

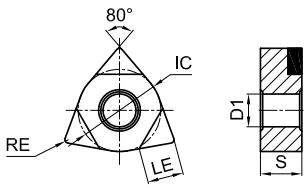


Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
VNGA160404LS-2	2	2.2	9.525	4.76	3.81	0.4				●			●	
VNGA160408LS-2	2	2.2	9.525	4.76	3.81	0.8				○			●	
VNGA160404M-2	2	2.2	9.525	4.76	3.81	0.4				●	●	●	●	●
VNGA160408M-2	2	2.2	9.525	4.76	3.81	0.8					●	●	○	●
VNGA160412M-2	2	2.2	9.525	4.76	3.81	1.2				●				●
VNGA160404LS-4	4	2.2	9.525	4.76	3.81	0.4							●	
VNGA160408LS-4	4	2.2	9.525	4.76	3.81	0.8							●	
VNGA160404M-4	4	2.2	9.525	4.76	3.81	0.4								●
VNGA160408M-4	4	2.2	9.525	4.76	3.81	0.8								●
VNGA160412M-4	4	2.2	9.525	4.76	3.81	1.2								●
VNGG160404L-2BHF	2	2.5	9.525	4.76	3.81	0.4							●	●
VNGG160408L-2BHF	2	2.5	9.525	4.76	3.81	0.8							●	●

●Stock ○Available Upon Order

WN□□

Hexagon 80° with Hole



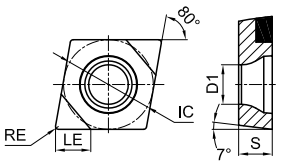
Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
WNGA080404LS-3	3	2.2	12.7	4.76	5.16	0.4				○			●	
WNGA080408LS-3	3	2.2	12.7	4.76	5.16	0.8				●			●	
WNGA080404M-3	3	2.2	12.7	4.76	5.16	0.4					●	●		●
WNGA080408M-3	3	2.2	12.7	4.76	5.16	0.8	●	○	○		●	●		●
WNGA080412M-3	3	2.2	12.7	4.76	5.16	1.2		○				●		○
WNGA080408H-3	3	2.2	12.7	4.76	5.16	0.8		●			●			●
WNGA080404LS-6	6	2.2	12.7	4.76	5.16	0.4							●	
WNGA080408LS-6	6	2.2	12.7	4.76	5.16	0.8							●	
WNGA080404M-6	6	2.2	12.7	4.76	5.16	0.4								●
WNGA080408M-6	6	2.2	12.7	4.76	5.16	0.8								●
WNGA080412M-6	6	2.2	12.7	4.76	5.16	1.2								●

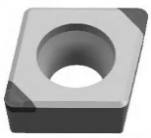
●Stock ○Available Upon Order

PCBN Turning Insert (Positive)-Soldering Lug Type

CC□□

Diamond 80° with Hole



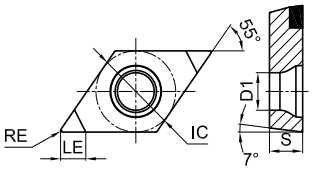
Order No.		Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
			LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
	CCGW060202L-2	2	2	6.35	2.38	2.8	0.2					○		●	●
	CCGW060204L-2	2	2	6.35	2.38	2.8	0.4			○	●	●		●	●
	CCGW060208L-2	2	2	6.35	2.38	2.8	0.8		○			○		○	
	CCGW060204M-2	2	2	6.35	2.38	2.8	0.4					●		●	●
	CCGW060208M-2	2	2	6.35	2.38	2.8	0.8				●			●	●
	CCGW09T304L-2	2	2	9.525	3.97	4.4	0.4	●			●			●	●
	CCGW09T308L-2	2	2	9.525	3.97	4.4	0.8				○	○		○	
	CCGW09T304M-2	2	2	9.525	3.97	4.4	0.4	●	○	○		●	●	●	●
	CCGW09T308M-2	2	2	9.525	3.97	4.4	0.8	●	○	○	●	●	●		●
	CCGW09T304H-2	2	2	9.525	3.97	4.4	0.4								●
	CCGW09T308H-2	2	2	9.525	3.97	4.4	0.8					●	○		●
	CCGT060204L-2BHF	2	2.5	6.35	2.38	2.8	0.4							○	○
	CCGT09T304L-2BHF	2	2.5	9.525	3.97	4.4	0.4							●	●
	CCGT09T308L-2BHF	2	2.5	9.525	3.97	4.4	0.8							●	●

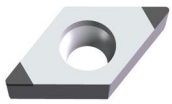
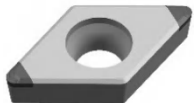
●Stock ○Available Upon Order

PCBN Turning Insert (Positive)-Soldering Lug Type

DC□□

Diamond 55° with Hole

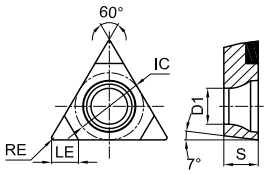


Order No.		Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
			LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
	DCGW070202L-2	2	2	6.35	2.38	2.8	0.2					●		●	●
	DCGW070204L-2	2	2	6.35	2.38	2.8	0.4		○		○	●		●	●
	DCGW070204M-2	2	2	6.35	2.38	2.8	0.4					○			○
	DCGW070208M-2	2	2	6.35	2.38	2.8	0.8					○			●
	DCGW11T304L-2	2	2	9.525	3.97	4.4	0.4	○		○				●	
	DCGW11T308L-2	2	2	9.525	3.97	4.4	0.8	○			○			●	
	DCGW11T302M-2	2	2	9.525	3.97	4.4	0.4							●	
	DCGW11T304M-2	2	2	9.525	3.97	4.4	0.4	●	●	●	●	●	●	●	●
	DCGW11T308M-2	2	2	9.525	3.97	4.4	0.8	●		●	●	●	●	●	●
	DCGT070204L-2BHF	2	2.5	6.35	2.38	2.8	0.4							○	○
	DCGT11T304L-2BHF	2	2.5	9.525	3.97	4.4	0.4							●	●
	DCGT11T308L-2BHF	2	2.5	9.525	3.97	4.4	0.8							●	●

●Stock ○Available Upon Order

TC□□

Triangle 60° with Hole



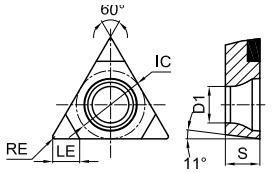
Order No.		Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
			LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
	TCGW110304L-3	3	2	6.35	3.18	3.4	0.4	○						○	
	TCGW110304M-3	3	2	6.35	3.18	3.4	0.4					●			○
	TCGW110308M-3	3	2	6.35	3.18	3.4	0.8						○		○

●Stock ○Available Upon Order

PCBN Turning Insert (Positive)-Soldering Lug Type

TP□□

Triangle 60° with Hole



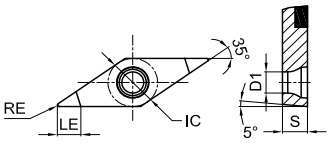
Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
TPGW080202L-1	1	2	4.76	2.38	2.34	0.2		●		○			○	
TPGW080204L-1	1	2	4.76	2.38	2.34	0.4				●			●	
TPGW080208L-1	1	2	4.76	2.38	2.34	0.8				○			○	
TPGW090202L-3	3	2	5.56	2.38	2.5	0.2				○	○		○	
TPGW090204L-3	3	2	5.56	2.38	2.5	0.4	●	○		○	●		●	
TPGW090208L-3	3	2	5.56	2.38	2.5	0.8	○						○	
TPGW110204L-3	3	2	6.35	2.38	2.8	0.4		●		○			○	
TPGW110208M-3	3	2	6.35	2.38	2.8	0.8								○
TPGW110302L-3	3	2	6.35	3.18	3.4	0.2							○	
TPGW110304L-3	3	2	6.35	3.18	3.4	0.4	●	●	○	●	●		●	●
TPGW110308L-3	3	2	6.35	3.18	3.4	0.8				●	●		●	●
TPGW110304M-3	3	2	6.35	3.18	3.4	0.4					○	○		○
TPGW110308M-3	3	2	6.35	3.18	3.4	0.8					○			○
TPGT110304L-3BHF	3	2.5	6.35	3.18	2.8	0.4							●	●
TPGT110308L-3BHF	3	2.5	6.35	3.18	2.8	0.8							●	●

●Stock ○Available Upon Order

PCBN Turning Insert (Positive)-Soldering Lug Type

VB□□

Diamond 35° with Hole

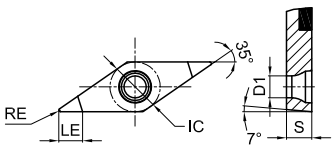


Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
VBGW110302L-2	2	2	6.35	3.18	2.8	0.2			○		○	○	○	
VBGW110304L-2	2	2	6.35	3.18	2.8	0.4			●	○	●		○	
VBGW110308L-2	2	2	6.35	3.18	2.8	0.8					○	○	○	
VBGW110304M-2	2	2	6.35	3.18	2.8	0.4					○			●
VBGW110308M-2	2	2	6.35	3.18	2.8	0.8					○			○
VBGW160404L-2	2	2	9.525	4.76	4.4	0.4	○				○		●	
VBGW160408L-2	2	2	9.525	4.76	4.4	0.8	○				○		○	
VBGW160404M-2	2	2	9.525	4.76	4.4	0.4				○	●	○		●
VBGW160408M-2	2	2	9.525	4.76	4.4	0.8				●	○	●	●	●

●Stock ○Available Upon Order

VC□□

Diamond 35° with Hole



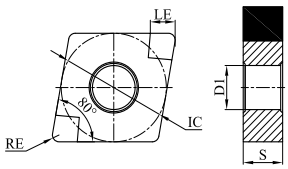
Order No.	Teeth	Dimensions (mm)					PCBN Grade		Coating PCBN					
		LE	IC	S	D1	RE	BKN115P	BSN115P	BKC120P	BHC115P	BHC125P	BHC135P	BHC210P	BHC225P
VCGW110302L-2	2	2	6.35	3.18	2.8	0.2			○				○	
VCGW110304L-2	2	2	6.35	3.18	2.8	0.4	●			○			●	
VCGW110308L-2	2	2	6.35	3.18	2.8	0.8				○			○	
VCGW110308M-2	2	2	6.35	3.18	2.8	0.8	○							○
VCGW160404L-2	2	2	9.525	4.76	4.4	0.4					○		○	○
VCGW160408L-2	2	2	9.525	4.76	4.4	0.8					○		○	
VCGW160402M-2	2	2	9.525	4.76	4.4	0.4							●	
VCGW160404M-2	2	2	9.525	4.76	4.4	0.4	●						●	
VCGW160408M-2	2	2	9.525	4.76	4.4	0.8					●			●

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Column Type

CN□□

Diamond 80° with Hole

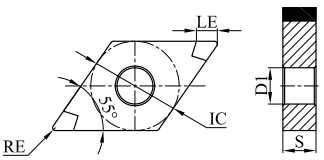


Order No.	Teeth	Dimensions (mm)					PCBN Grade	Coating PCBN	
		LE	IC	S	D1	RE	BKN225Z	BHC215Z	BHC225Z
CNGA120404LS-4	4	2.2	12.7	4.76	5.16	0.4	○	●	
CNGA120408LS-4	4	2.2	12.7	4.76	5.16	0.8	○	●	
CNGA120412LS-4	4	2.2	12.7	4.76	5.16	1.2	○	○	
CNGA120404M-4	4	2.2	12.7	4.76	5.16	0.4	○	○	○
CNGA120408M-4	4	2.2	12.7	4.76	5.16	0.8	●	●	●
CNGA120412M-4	4	2.2	12.7	4.76	5.16	1.2	○	○	●
CNGA120412H-4	4	2.2	12.7	4.76	5.16	1.2	●		●

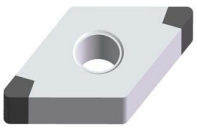
●Stock ○Available Upon Order

DN□□

Diamond 55° with Hole



Order No.	Teeth	Dimensions (mm)					PCBN Grade	Coating PCBN	
		LE	IC	S	D1	RE	BKN225Z	BHC215Z	BHC225Z
DNGA150404LS-4	4	2.2	12.7	4.76	5.16	0.4	○	○	
DNGA150408LS-4	4	2.2	12.7	4.76	5.16	0.8	○	○	
DNGA150404M-4	4	2.2	12.7	4.76	5.16	0.4	○	○	○
DNGA150408M-4	4	2.2	12.7	4.76	5.16	0.8	●	●	●
DNGA150412M-4	4	2.2	12.7	4.76	5.16	1.2	○	○	○
DNGA150412H-4	4	2.2	12.7	4.76	5.16	1.2	○	○	●

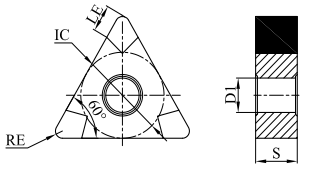


●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Column Type

TN□□

Triangle 60° with Hole

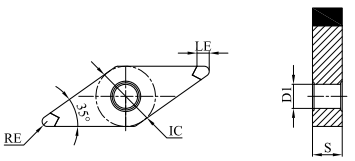


Order No.	Teeth	Dimensions (mm)					PCBN Grade	Coating PCBN	
		LE	IC	S	D1	RE	BKN225Z	BHC215Z	BHC225Z
TNGA160404LS-6	6	2.2	9.525	4.76	3.81	0.4	○	●	
TNGA160408LS-6	6	2.2	9.525	4.76	3.81	0.8	○	○	
TNGA160404M-6	6	2.2	9.525	4.76	3.81	0.4	○	○	●
TNGA160408M-6	6	2.2	9.525	4.76	3.81	0.8	●	●	●
TNGA160412M-6	6	2.2	9.525	4.76	3.81	1.2	○	○	●

●Stock ○Available Upon Order

VN□□

Diamond 35° with Hole



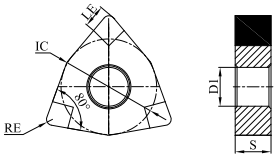
Order No.	Teeth	Dimensions (mm)					PCBN Grade	Coating PCBN	
		LE	IC	S	D1	RE	BKN225Z	BHC215Z	BHC225Z
VNGA160404LS-4	4	2.2	9.525	4.76	3.81	0.4	○	●	
VNGA160408LS-4	4	2.2	9.525	4.76	3.81	0.8	○	○	
VNGA160404M-4	4	2.2	9.525	4.76	3.81	0.4	○	○	○
VNGA160408M-4	4	2.2	9.525	4.76	3.81	0.8	●	●	●
VNGA160412M-4	4	2.2	9.525	4.76	3.81	1.2	○	○	○

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Column Type

WN□□

Hexagon 80° with Hole



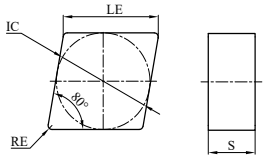
Order No.		Teeth	Dimensions (mm)					PCBN Grade	Coating PCBN	
			LE	IC	S	D1	RE	BKN225Z	BHC215Z	BHC225Z
	WNGA080404LS-6	6	2.2	12.7	4.76	5.16	0.4	○	●	
	WNGA080408LS-6	6	2.2	12.7	4.76	5.16	0.8	○	○	○
	WNGA080404M-6	6	2.2	12.7	4.76	5.16	0.4	●	○	○
	WNGA080408M-6	6	2.2	12.7	4.76	5.16	0.8	●	●	●
	WNGA080412M-6	6	2.2	12.7	4.76	5.16	1.2	●	○	●
	WNGA080412H-6	6	2.2	12.7	4.76	5.16	1.2	●	○	●

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Integral Type

CN□□

Diamond 80° Without Hole

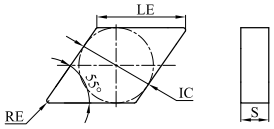


Order No.		Teeth	Dimensions (mm)				PCBN Grade	
			LE	IC	S	RE	BKN225S	BHN225S
	CNGN120404M-4	4	12.7	12.7	4.76	0.4	○	○
	CNGN120408LS-4	4	12.7	12.7	4.76	0.4	○	●
	CNGN120408M-4	4	12.7	12.7	4.76	0.8	○	○
	CNGN120412M-4	4	12.7	12.7	4.76	1.2	○	○
	CNGN120704M-4	4	12.7	12.7	7.94	0.4	○	○
	CNGN120708M-4	4	12.7	12.7	7.94	0.8	○	
	CNGN120712M-4	4	12.7	12.7	7.94	1.2	●	●
	CNGN120716M-4	4	12.7	12.7	7.94	1.6	○	○

●Stock ○Available Upon Order

DN□□

Diamond 55° Without Hole



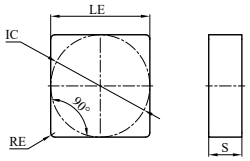
Order No.		Teeth	Dimensions (mm)				PCBN Grade	
			LE	IC	S	RE	BKN225S	BHN225S
	DNGN110308M-4	4	9.525	9.525	3.18	0.8	○	○
	DNGN110312M-4	4	9.525	9.525	3.18	1.2	○	○

●Stock ○Available Upon Order

PCBN Turning Insert (Negative)-Integral Type

SN□□

Quadrangle 90° Without Hole

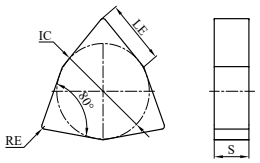


Order No.	Teeth	Dimensions (mm)				PCBN Grade	
		LE	IC	S	RE	BKN225S	BHN225S
SNGN090404M-8	8	9.525	9.525	4.76	0.4	○	○
SNGN090408M-8	8	9.525	9.525	4.76	0.8	○	○
SNGN090412M-8	8	9.525	9.525	4.76	1.2	○	○
SNGN120404M-8	8	12.7	12.7	4.76	0.4	○	○
SNGN120408M-8	8	12.7	12.7	4.76	0.8	○	○
SNGN120412M-8	8	12.7	12.7	4.76	1.2	●	○
SNGN120708M-8	8	12.7	12.7	7.94	0.8	○	○
SNGN120712M-8	8	12.7	12.7	7.94	1.2	○	○
SNGN120716M-8	8	12.7	12.7	7.94	1.6	●	○
SNGN150708M-8	8	15.875	15.875	7.94	0.8	○	○
SNGN150712M-8	8	15.875	15.875	7.94	1.2	○	○

●Stock ○Available Upon Order

WN□□

Hexagon 80° Without Hole



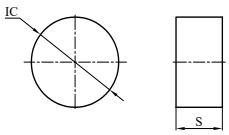
Order No.	Teeth	Dimensions (mm)				PCBN Grade	
		LE	IC	S	RE	BKN225S	BHN225S
WNGN080404M-6	6	8.72	12.7	4.76	0.4	○	○
WNGN080408M-6	6	8.72	12.7	4.76	0.8	○	○
WNGN080412M-6	6	8.72	12.7	4.76	1.2	○	○
WNGN080416M-6	6	8.72	12.7	4.76	1.6	○	○
WNGN080604M-6	6	8.72	12.7	6.35	0.4	○	○
WNGN080608M-6	6	8.72	12.7	6.35	0.8	○	○
WNGN080612M-6	6	8.72	12.7	6.35	1.2	○	○
WNGN080616M-6	6	8.72	12.7	6.35	1.6	○	○

●Stock ○Available Upon Order

PCBN Turning Insert (Positive)-Integral Type

RN□□

Circle 360° Without Hole

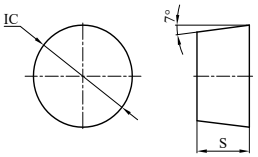


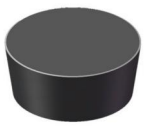
Order No.		Teeth	Dimensions (mm)				PCBN Grade	
			LE	IC	S	RE	BKN225S	BHN225S
	RNGN060300M	-	-	6	3.18	-	○	●
	RNGN090300M	-	-	9.525	3.18	-	○	●
	RNGN120400M	-	-	12.7	4.76	-	●	●
	RNGN120400H	-	-	12.7	4.76	-	●	○
	RNGN120700M	-	-	12.7	7.94	-	○	○
	RNGN150700M	-	-	15.875	7.94	-	○	○
	RNGN201000M	-	-	20	10	-	○	○

●Stock ○Available Upon Order

RC□□

Circle 360° Without Hole



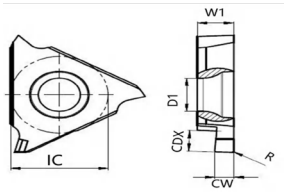
Order No.		Teeth	Dimensions (mm)				PCBN Grade	
			LE	IC	S	RE	BKN225S	BHN225S
	RCGN120700M	-	-	12.7	7.94	-		○
	RCGN160700M	-	-	16	7.94	-		○

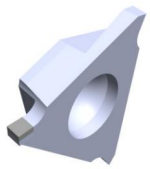
●Stock ○Available Upon Order

PCBN Parting Off and Cutting Insert

GB□□

Precision Cutting Insert



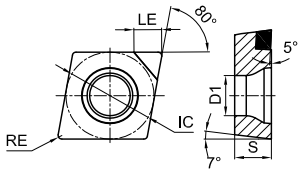
Order No.		Dimensions (mm)						PCBN Grade
		CW	CDX	RE	IC	W1	D1	BHN125P
	GB4125R-020	1.25	2.5	0.2	12.7	4.76	5.5	●
	GB4125L-020	1.25	2.5	0.2	12.7	4.76	5.5	●
	GB4150R-020	1.5	3.5	0.2	12.7	4.76	5.5	●
	GB4150L-020	1.5	3.5	0.2	12.7	4.76	5.5	●
	GB4200R-020	2	3.5	0.2	12.7	4.76	5.5	●
	GB4200L-020	2	3.5	0.2	12.7	4.76	5.5	●
	GB4250R-020	2.5	4	0.2	12.7	4.76	5.5	●
	GB4250L-020	2.5	4	0.2	12.7	4.76	5.5	●
	GB4300R-020	3	4	0.2	12.7	4.76	5.5	●
	GB4300L-020	3	4	0.2	12.7	4.76	5.5	●
	GB4350R-020	3.5	5	0.2	12.7	4.76	5.5	●
	GB4350L-020	3.5	5	0.2	12.7	4.76	5.5	●
	GB4400R-020	4	5	0.2	12.7	4.76	5.5	●
	GB4400L-020	4	5	0.2	12.7	4.76	5.5	●

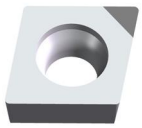
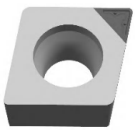
●Stock ○Available Upon Order

PCD Turning Insert (Positive)

CC□□

Diamond 80° with Hole



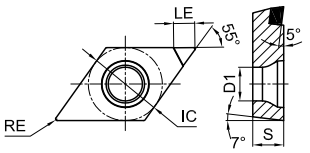
Order No.		Teeth	Dimensions (mm)					PCD Grade
			LE	IC	S	D1	RE	DNN125P
	CCGW060202GB-1	1	2.5	6.35	2.38	2.8	0.2	●
	CCGW060204GB-1	1	2.5	6.35	2.38	2.8	0.4	○
	CCGW09T302GB-1	1	3	9.525	3.97	4.4	0.2	●
	CCGW09T304GB-1	1	3	9.525	3.97	4.4	0.4	○
	CCGW09T308GB-1	1	3	9.525	3.97	4.4	0.8	○
	CCGW120404GB-1	1	3	12.7	4.76	5.5	0.4	●
	CCGW120408GB-1	1	3	12.7	4.76	5.5	0.8	○
	CCGW060202KB-1	1	2.5	6.35	2.38	2.8	0.2	●
	CCGW060204KB-1	1	2.5	6.35	2.38	2.8	0.4	○
	CCGW09T302KB-1	1	3	9.525	3.97	4.4	0.2	○
	CCGW09T304KB-1	1	3	9.525	3.97	4.4	0.4	●
	CCGW09T308KB-1	1	3	9.525	3.97	4.4	0.8	○
	CCGT060202K-1DNF	1	3	6.35	2.38	2.8	0.2	○
	CCGT060204K-1DNF	1	3	6.35	2.38	2.8	0.4	○
	CCGT09T302K-1DNF	1	3.5	9.525	3.97	4.4	0.2	●
	CCGT09T304K-1DNF	1	3.5	9.525	3.97	4.4	0.4	●
	CCGT09T308K-1DNF	1	3.5	9.525	3.97	4.4	0.8	●
	CCGT060204K-1DNM	1	3	6.35	2.38	2.8	0.4	○
	CCGT09T304K-1DNM	1	3.5	9.525	3.97	4.4	0.4	●
	CCGT09T308K-1DNM	1	3.5	9.525	3.97	4.4	0.8	●

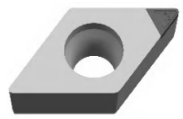
●Stock ○Available Upon Order

PCD Turning Insert (Positive)

DC□□

Diamond 55° with Hole



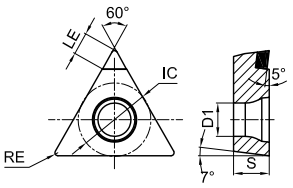
Order No.		Teeth	Dimensions (mm)					PCD Grade
			LE	IC	S	D1	RE	DNN125P
	DCGW070202GB-1	1	2.5	6.35	2.38	2.8	0.2	○
	DCGW070204GB-1	1	2.5	6.35	2.38	2.8	0.4	●
	DCGW11T302GB-1	1	3	9.525	3.97	4.4	0.2	○
	DCGW11T304GB-1	1	3	9.525	3.97	4.4	0.4	○
	DCGW11T308GB-1	1		9.525	3.97	4.4	0.8	●
	DCGW070202KB-1	1	2.5	6.35	2.38	2.8	0.2	○
	DCGW070204KB-1	1	2.5	6.35	2.38	2.8	0.4	●
	DCGW11T302KB-1	1	3	9.525	3.97	4.4	0.2	○
	DCGW11T304KB-1	1	3	9.525	3.97	4.4	0.4	●
	DCGW11T308KB-1	1	3	9.525	3.97	4.4	0.8	○
	DCGT070202K-1DNF	1	3	6.35	2.38	2.8	0.2	○
	DCGT070204K-1DNF	1	3	6.35	2.38	2.8	0.4	○
	DCGT11T302K-1DNF	1	3.5	9.525	3.97	4.4	0.2	●
	DCGT11T304K-1DNF	1	3.5	9.525	3.97	4.4	0.4	●
	DCGT11T308K-1DNF	1	3.5	9.525	3.97	4.4	0.8	●
	DCGT070204K-1DNM	1	3	6.35	2.38	2.8	0.4	○
	DCGT11T304K-1DNM	1	3.5	9.525	3.97	4.4	0.4	●
	DCGT11T308K-1DNM	1	3.5	9.525	3.97	4.4	0.8	●

●Stock ○Available Upon Order

PCD Turning Insert (Positive)

TC□□

Triangle 60° with Hole



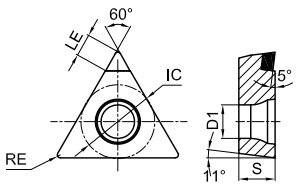
Order No.		Teeth	Dimensions (mm)					PCD Grade
			LE	IC	S	D1	RE	DNN125P
	TCGW080202GB-1	1	2.5	4.76	2.38	2.34	0.2	○
	TCGW080204GB-1	1	2.5	4.76	2.38	2.34	0.4	●
	TCGW090202GB-1	1	2.5	5.56	2.38	2.5	0.2	○
	TCGW090204GB-1	1	2.5	5.56	2.38	2.5	0.4	●
	TCGW110302GB-1	1	2.5	6.35	3.18	3.4	0.2	○
	TCGW110304GB-1	1	2.5	6.35	3.18	3.4	0.4	●
	TCGW080202KB-1	1	2.5	4.76	2.38	2.34	0.2	○
	TCGW080204KB-1	1	2.5	4.76	2.38	2.34	0.4	●
	TCGW090202KB-1	1	2.5	5.56	2.38	2.5	0.2	○
	TCGW090204KB-1	1	2.5	5.56	2.38	2.5	0.4	●
	TCGW110302KB-1	1	2.5	6.35	3.18	3.4	0.2	○
	TCGW110304KB-1	1	2.5	6.35	3.18	3.4	0.4	●

●Stock ○Available Upon Order

PCD Turning Insert (Positive)

TP□□

Triangle 60° with Hole



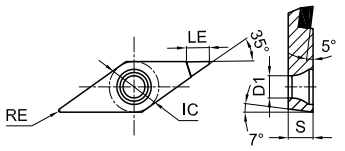
Order No.		Teeth	Dimensions (mm)					PCD Grade
			LE	IC	S	D1	RE	DNN125P
	TPGW080202GB-1	1	2.5	4.76	2.38	2.34	0.2	○
	TPGW080204GB-1	1	2.5	4.76	2.38	2.34	0.4	●
	TPGW090202GB-1	1	2.5	5.56	2.38	2.5	0.2	○
	TPGW090204GB-1	1	2.5	5.56	2.38	2.5	0.4	●
	TPGW110302GB-1	1	2.5	6.35	3.18	3.4	0.2	○
	TPGW110304GB-1	1	2.5	6.35	3.18	3.4	0.4	●
	TPGW160402GB-1	1	3	9.525	4.76	4.4	0.2	○
	TPGW160404GB-1	1	3	9.525	4.76	4.4	0.4	○
	TPGW160408GB-1	1	3	9.525	4.76	4.4	0.8	●
	TPGW080202KB-1	1	2.5	4.76	2.38	2.34	0.2	○
	TPGW080204KB-1	1	2.5	4.76	2.38	2.34	0.4	●
	TPGW090202KB-1	1	2.5	5.56	2.38	2.5	0.2	○
	TPGW090204KB-1	1	2.5	5.56	2.38	2.5	0.4	●
	TPGW110302KB-1	1	2.5	6.35	3.18	3.4	0.2	○
	TPGW110304KB-1	1	2.5	6.35	3.18	3.4	0.4	●
	TPGW160402KB-1	1	3	9.525	4.76	4.4	0.2	○
	TPGW160404KB-1	1	3	9.525	4.76	4.4	0.4	●
	TPGW160408KB-1	1	3	9.525	4.76	4.4	0.8	○
	TPGT080202K-1DNF	1	2.5	4.76	2.38	2.34	0.2	○
	TPGT080204K-1DNF	1	2.5	4.76	2.38	2.34	0.4	○
	TPGT090202K-1DNF	1	3	5.56	2.38	2.5	0.2	●
	TPGT090204K-1DNF	1	3	5.56	2.38	2.5	0.4	●
	TPGT110202K-1DNF	1	3	6.35	2.38	2.8	0.2	○
	TPGT110204K-1DNF	1	3	6.35	2.38	2.8	0.4	○
	TPGT110302K-1DNF	1	3	6.35	3.18	3.4	0.2	●
	TPGT110304K-1DNF	1	3	6.35	3.18	3.4	0.4	●
	TPGT110308K-1DNF	1	3	6.35	3.18	3.4	0.8	○
	TPGT160402K-1DNF	1	3.5	9.525	4.76	4.4	0.2	●
	TPGT160404K-1DNF	1	3.5	9.525	4.76	4.4	0.4	●
	TPGT160408K-1DNF	1	3.5	9.525	4.76	4.4	0.8	●
	TPGT080204K-1DNM	1	2.5	4.76	2.38	2.34	0.4	○
	TPGT090204K-1DNM	1	3	5.56	2.38	2.5	0.4	●
	TPGT110204K-1DNM	1	3	6.35	2.38	2.8	0.4	○
	TPGT110304K-1DNM	1	3	6.35	3.18	3.4	0.4	●
	TPGT110308K-1DNM	1	3	6.35	3.18	3.4	0.8	●
	TPGT160404K-1DNM	1	3.5	9.525	4.76	4.4	0.4	●
	TPGT160408K-1DNM	1	3.5	9.525	4.76	4.4	0.8	●

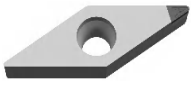
●Stock ○Available Upon Order

PCD Turning Insert (Positive)

VC□□

Diamond 35° with Hole

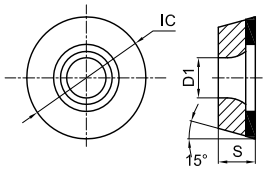


Order No.		Teeth	Dimensions (mm)					PCD Grade
			LE	IC	S	D1	RE	DNN125P
	VCGW110302GB-1	1	3	6.35	3.18	2.8	0.2	○
	VCGW110304GB-1	1	3	6.35	3.18	2.8	0.4	●
	VCGW160402GB-1	1	3	9.525	4.76	4.4	0.2	○
	VCGW160404GB-1	1	3	9.525	4.76	4.4	0.4	●
	VCGW160408GB-1	1	3	9.525	4.76	4.4	0.8	○
	VCGW110302KB-1	1	3	6.35	3.18	2.8	0.2	○
	VCGW110304KB-1	1	3	6.35	3.18	2.8	0.4	●
	VCGW160402KB-1	1	3	9.525	4.76	4.4	0.2	○
	VCGW160404KB-1	1	3	9.525	4.76	4.4	0.4	●
	VCGW160408KB-1	1	3	9.525	4.76	4.4	0.8	○
	VCGT110302K-1DNF	1	3.5	6.35	3.18	2.8	0.2	○
	VCGT110304K-1DNF	1	3.5	6.35	3.18	2.8	0.4	○
	VCGT160404K-1DNF	1	3.5	9.525	4.76	4.4	0.4	●
	VCGT160408K-1DNF	1	3.5	9.525	4.76	4.4	0.8	●
	VCGT160412K-1DNF	1	3.5	9.525	4.76	4.4	1.2	○
	VCGT110304K-1DNM	1	3.5	6.35	3.18	2.8	0.4	○
	VCGT160404K-1DNM	1	3.5	9.525	4.76	4.4	0.4	●
	VCGT160408K-1DNM	1	3.5	9.525	4.76	4.4	0.8	●
	VCGT160412K-1DNM	1	3.5	9.525	4.76	4.4	1.2	○

●Stock ○Available Upon Order

RD□□

Circle 360° with Hole



Order No.		Teeth	Dimensions (mm)			PCD Grade
			IC	S	D1	DNN125P
	RDEW080300GN-1	1	8	3.18	2.94	○
	RDEW100300GN-1	1	10	3.18	4.6	●
	RDEW120400GN-1	1	12	4.76	4.4	○
	RDEW160400GN-1	1	16	4.76	5.5	●

●Stock ○Available Upon Order

Recommended Cutting Data

PCBN Cutting Tools

ISO	Workpiece Material	Hardness	Cutting Range	Working Condition	Grade	Lower Limit-recommended-upper Limit		
						Cutting Speed Vc (m/min)	Cutting Depth ap (mm)	Feed f (mm/rev)
K	Nodular Cast Iron	QT450~QT700	Finishing	General	BKC120P	150-300-500	0.10-0.20-0.50	0.05-0.12-0.3
K	Alloy Cast Iron	⩾HB200	Finishing	General	BKN115P	200-400-800	0.05-0.20-0.50	0.05-0.20-0.40
K	Gray Cast Iron	HB200~230	Finishing	General	BKN115P	400-600-1500	0.05-0.20-0.50	0.05-0.20-0.40
K	Gray Cast Iron	HB200~230	Finishing-roughing	General	BKN225Z	400-600-1200	0.05-0.30-0.50	0.05-0.20-0.50
K	Gray Cast Iron	HB200~230	Finishing-roughing	General	BKN225S	400-600-1200	0.05-0.30-0.50	0.05-0.20-0.50
S	Powder Metallurgy	HRB50~90	Finishing	Continuous	BSN115P	50-150-300	0.05-0.20-0.50	0.05-0.12-0.30
H	High-hardness Material	⩾HRC50	Finishing	Continuous	BHC115P	120-150-220	0.05-0.10-0.20	0.05-0.10-0.20
H	High-hardness Material	⩾HRC50	Finishing-roughing	General	BHC125P	100-130-180	0.05-0.10-0.50	0.05-0.10-0.20
H	High-hardness Material	⩾HRC50	Finishing-semi-finishing	Interrupted	BHC135P	80-100-150	0.05-0.10-0.40	0.05-0.10-0.20
H	High-hardness Material	⩾HRC50	Finishing-semi-finishing	Continuous	BHC210P	100-150-260	0.05-0.10-0.20	0.05-0.10-0.20
H	High-hardness Material	⩾HRC50	Finishing-semi-finishing	Continuous	BHC215Z	120-150-230	0.05-0.10-0.20	0.05-0.10-0.15
H	High-hardness Material	⩾HRC50	Finishing-roughing	General	BHC225P	100-140-200	0.05-0.10-0.50	0.05-0.10-0.20
H	High-hardness Material	⩾HRC50	Finishing-roughing	General	BHC225Z	100-140-200	0.05-0.10-0.50	0.05-0.10-0.20
H	High-hardness Material	⩾HRC50	Finishing-roughing	General	BHN225S	100-150-190	0.05-0.10-0.50	0.05-0.10-0.20

PCBN Chip Breaker Insert

ISO	Workpiece Material	Hardness	Cutting Range	Pur-pose	Geome-try	Grade	Lower Limit-recommended-upper Limit		
							Cutting Speed Vc (m/min)	Cutting Depth ap (mm)	Feed f (mm/rev)
H	High-hardness Material	⩾HRC50	Finishing	Contin-uous	BHF	BHC210P	120-160-260	0.10-0.20-0.30	0.05-0.10-0.25
H	High-hardness Material	⩾HRC50	Semi-finishing	General	BHF	BHC225P	100-150-200	0.10-0.20-0.30	0.05-0.10-0.25
H	High-hardness Material	⩾HRC50	Finishing	Contin-uous	BHM	BHC210P	110-140-220	0.30-0.50-0.70	0.10-0.20-0.30
H	High-hardness Material	⩾HRC50	Semi-finishing	General	BHM	BHC225P	100-120-180	0.30-0.50-0.70	0.10-0.20-0.30

Recommended Cutting Data

PCD Cutting Tools

ISO	Workpiece Material	Cutting Range	Working Condition	Grade	Lower Limit-recommended-upper Limit		
					Cutting Speed Vc (m/min)	Cutting Depth ap (mm)	Feed f (mm/rev)
N	Aluminum Alloy	Finishing	General	DNN125P	300-1200-3000	0.05-0.20-0.50	0.05-0.10-0.20
	Copper Alloy	Finishing	General	DNN125P	200-500-1000	0.05-0.40-2.00	0.05-0.10-0.20
	Plastic	Finishing	General	DNN125P	100-600-1000	0.10-0.40-2.00	0.05-0.10-0.40
	Wood, Inorganic Board	Finishing	General	DNN125P	200-2000-4000	0.10-0.50-2.00	0.05-0.10-0.40
	Cemented Carbide	Finishing	General	DNN125P	10-20-30	0.05-0.20-0.50	0.05-0.10-0.20
	Graphite	Finishing	General	DNN125P	100-300-600	0.10-0.40-2.00	0.10-0.25-1.00

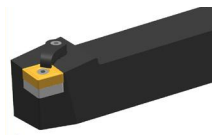
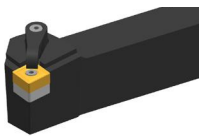
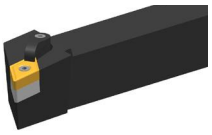
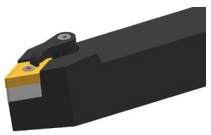
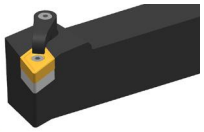
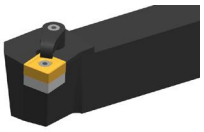
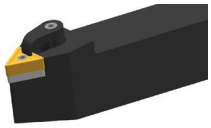
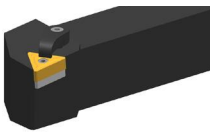
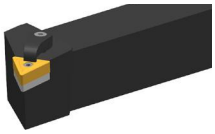
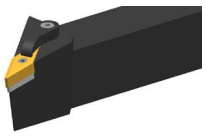
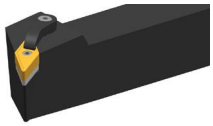
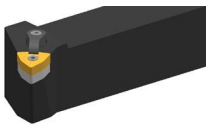
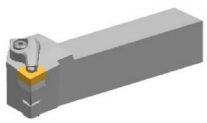
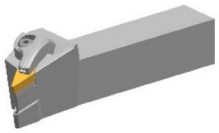
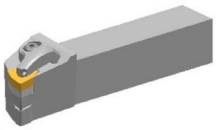
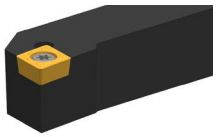
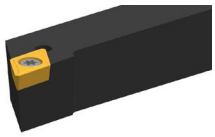
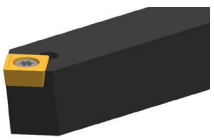
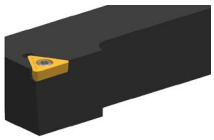
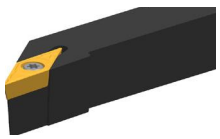
PCBN Chip Breaker Insert

ISO	Workpiece Material	Cutting Range	Working Condition	Grade	Lower Limit-recommended-upper Limit		
					Cutting Speed Vc (m/min)	Cutting Depth ap (mm)	Feed f (mm/rev)
N	Aluminum Alloy	Finishing	General	DNN125P	300-1200-3000	0.05-0.20-0.50	0.05-0.10-0.20
	Copper Alloy	Finishing	General	DNN125P	200-500-1000	0.05-0.40-2.00	0.05-0.10-0.20
	Plastic	Finishing	General	DNN125P	100-600-1000	0.10-0.40-2.00	0.05-0.10-0.40
	Wood, Inorganic Board	Finishing	General	DNN125P	200-2000-4000	0.10-0.50-2.00	0.05-0.10-0.40
	Cemented Carbide	Finishing	General	DNN125P	10-20-30	0.05-0.20-0.50	0.05-0.10-0.20
	Graphite	Finishing	General	DNN125P	100-300-600	0.10-0.40-2.00	0.10-0.25-1.00

F

STANDARD TURNING TOOL HOLDER

List of Turning Tool Holders

MCBNR/L	MCLNR/L	MDJNR/L	MDPNN	MDQNR/L
P158	P158	P159	P159	P160
				
MSBNR/L	MSKNR/L	MSSNR/L	MTENN	MTFNR/L
P160	P161	P161	P162	P162
				
MTGNR/L	MTJNR/L	MVJNR/L	MVQNR/L	MWLNR/L
P163	P163	P164	P164	P165
				
PCBNR/L	PCLNR/L	PDJNR/L	PSBNR/L	PSSNR/L
P165	P166	P167	P168	P169
				
PRDCN	PTGNR/L	PWLNR/L	DCLNR/L-HPC	SDUCR/L-HPC
P170	P171	P171	P172	P172
				
DVJNR/L-HPC	DWLNR/L-HPC			
P173	P173			
				
SCLCR/L	SDJCR/L	SSDCN	STGCR/L	SVJCR/L
P174	P174	P175	P175	P176
				

List of Turning Tool Holders

SWLCR/L	SCLCR/L	SCLCR/L-A16	SCKCR/L	SDUCR/L
P177	P180	P182	P182	P183
				
SDQCR/L	SDXCR/L	SSKCR/L	STUCR/L	STWCR/L
P184	P185	P185	P186	P186
				
STFCR/L	SVUCR/L	SWLCR/L	SCLPR/L	STFPR/L
P187	P188	P189	P189	P190
				

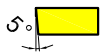
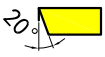
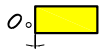
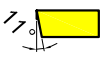
Type Representation Rules for External Diameter Turning Tool Holders

M	C	L	N	R
①	②	③	④	⑤

① Clamping Mechanism		
D	Double Clamping Type	
M	Wedge Locking Type Double Clamping Type for Heavy Cutting	
P	Lever Locking Type	
S	Screw Clamping Type	

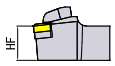
② Insert Shape		
C	80° Diamond	
D	55° Diamond	
R	Circular	
S	Square	
T	Regular Triangle	
V	35° Diamond	
W	Hexagon	
X	Special Shape	

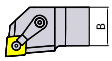
③ Tool Cutting Edge Angle	
A	
B	
D	
E	
F	
G	
J	
K	
L	
P	
Q	
S	
V	

④ Insert Relief Angle		
B	5 °	
C	7 °	
D	15 °	
E	20 °	
N	0 °	
P	11 °	

⑤ Cutting Direction	
R	
L	
N	

25	25	M	12
⑥	⑦	⑧	⑨

⑥ Tool Height	
	
Code	Height
08	8
10	10
12	12
16	16
20	20
25	25
32	32

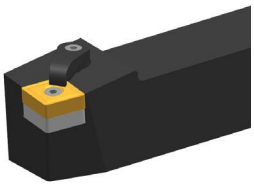
⑦ Tool Width	
	
Code	Width
08	8
10	10
12	12
16	16
20	20
25	25
32	32

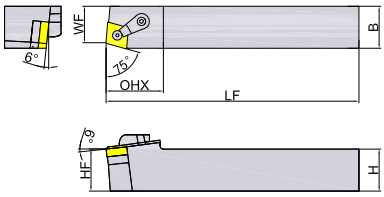
⑧ Tool Length	
	
Code	Width
E	70
F	80
H	100
K	125
M	150
P	170
Q	180
R	200

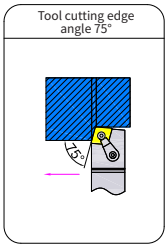
⑨ Cutting Edge Length (mm)							
Inscribed Circle	C	D	R	S	T	V	W
6.35	06	07	-	06	11	11	04
9.525	09	11	-	09	16	16	06
12.7	12	15	-	12	22	-	08
15.875	16	-	-	15	-	-	-
19.05	19	-	-	19	-	-	-
25.4	25	-	-	25	-	-	-
32	-	-	32	-	-	-	-

External Diameter Turning Tool Holder (Negative)

MCBNR/L



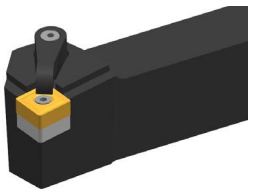


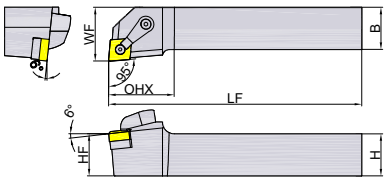


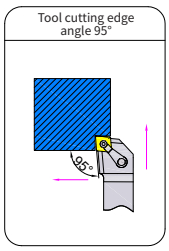
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MCBNR/L2020K12	20	20	125	32	20	17	CN**1204**	DCN1204MH	SPM060170H	CAM02H	PSDM060250H	TH25LH TH30LH	0.4	●	○
MCBNR/L2525M12	25	25	150	35	25	22	CN**1204**	DCN1204MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.78	●	●
MCBNR/L3232P12	32	32	170	35	32	27	CN**1204**	DCN1204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	●
MCBNR/L2525M16	25	25	150	42	25	22	CN**1606**	DCN1604MH	SPM080220FH	CAM03H	SDM060250H	TH30LH	0.78	●	○
MCBNR/L3232P19	32	32	170	42	32	27	CN**1906**	DCN1904MH	SPM100240FH	CAM05H	SDM080350FH	TH40LH	1.37	●	●

●Stock ○Available Upon Order

MCLNR/L





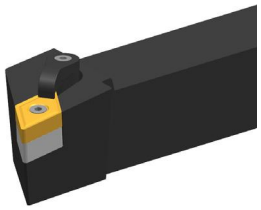


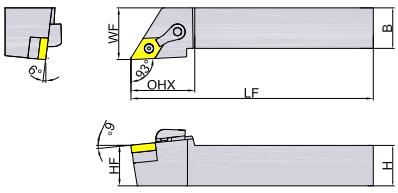
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MCLNR/L2020K12	20	20	125	32	20	25	CN**1204**	DCN1204MH	SPM060170H	CAM02H	PSDM060250H	TH25LH TH30LH	0.4	●	●
MCLNR/L2525M12	25	25	150	32	25	32	CN**1204**	DCN1204MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.78	●	●
MCLNR/L3232P12	32	32	170	32	32	40	CN**1204**	DCN1204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	●
MCLNR/L2525M16	25	25	150	38	25	32	CN**1606**	DCN1604MH	SPM080220FH	CAM03H	SDM060250H	TH30LH	0.78	●	●
MCLNR/L3232P16	32	32	170	38	32	40	CN**1606**	DCN1604MH	SPM080220FH	CAM03H	SDM060280H	TH30LH	1.37	●	●
MCLNR/L3232P19	32	32	170	42	32	40	CN**1906**	DCN1904MH	SPM100240FH	CAM05H	SDM080350FH	TH40LH	1.37	●	●

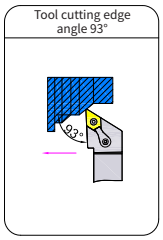
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MDJNR/L



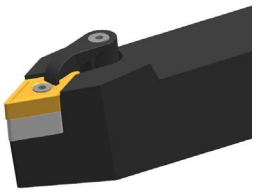


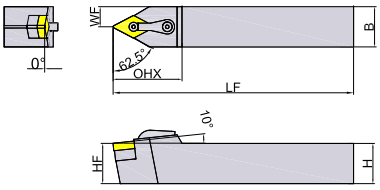


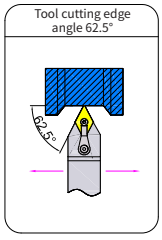
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MDJNR/L2020K11	20	20	125	32	20	25	DN**1104**	DDN1103MH	SPM050130H	CAM02H	PSDM060250H	TH20LH TH30LH	0.4	●	●
MDJNR/L2020K1504	20	20	125	38	20	25	DN**1504**	DDN1504MH	SPM060170H	CAM03H	PSDM060250H	TH25LH TH30LH	0.4	●	●
MDJNR/L2525M1504	25	25	150	38	25	32	DN**1504**	DDN1504MH	SPM060170H	CAM03H	SDM060250H	TH25LH TH30LH	0.78	●	●
MDJNR/L2525M1506	25	25	150	38	25	32	DN**1506**	DDN1504MH	SPM060190H	CAM03H	SDM060250H	TH25LH TH30LH	0.78	●	●
MDJNR/L3232P1506	32	32	170	38	32	40	DN**1506**	DDN1504MH	SPM060190H	CAM03H	SDM060280H	TH25LH TH30LH	1.37	●	●

●Stock ○Available Upon Order

MDPNN





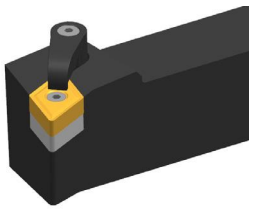


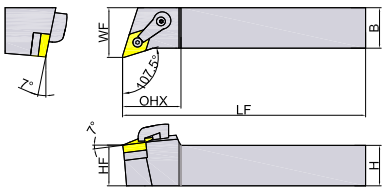
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock
	H	B	LF	OHX	HF	WF								
MDPNN2020K11	20	20	125	35	20	10	DN**1104**	DDN1103MH	SPM050130H	CAM02H	PSDM060250H	TH20LH TH30LH	0.38	●
MDPNN2020K1504	20	20	125	42	20	10	DN**1504**	DDN1504MH	SPM060170H	CAM03H	PSDM060250H	TH25LH TH30LH	0.38	●
MDPNN2525M1504	25	25	150	42	25	12.5	DN**1504**	DDN1504MH	SPM060170H	CAM03H	SDM060250H	TH25LH TH30LH	0.76	●
MDPNN2525M1506	25	25	150	42	25	12.5	DN**1506**	DDN1504MH	SPM060190H	CAM03H	SDM060250H	TH25LH TH30LH	0.76	●
MDPNN3232P1506	32	32	170	42	32	16	DN**1506**	DDN1504MH	SPM060190H	CAM03H	SDM060280H	TH25LH TH30LH	1.35	●

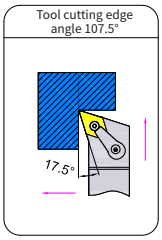
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MDQNR/L



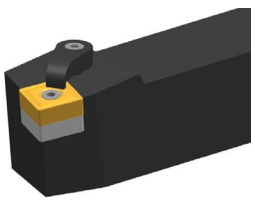


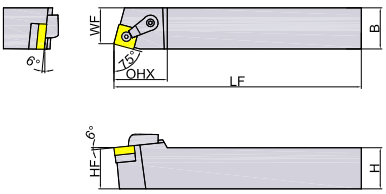


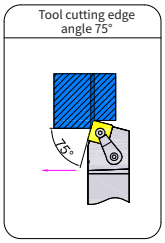
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MDQNR/L2020K11	20	20	125	32	20	25	DN**1104**	DDN1103MH	SPM050130H	CAM02H	PSDM060250H	TH20LH TH30LH	0.4	●	○
MDQNR/L2020K1504	20	20	125	38	20	25	DN**1504**	DDN1504MH	SPM060170H	CAM03H	PSDM060250H	TH25LH TH30LH	0.4	●	○
MDQNR/L2525M1504	25	25	150	38	25	32	DN**1504**	DDN1504MH	SPM060170H	CAM03H	SDM060250H	TH25LH TH30LH	0.78	●	○
MDQNR/L3232P1506	32	32	170	38	32	40	DN**1506**	DDN1504MH	SPM060190H	CAM03H	SDM060280H	TH25LH TH30LH	1.37	●	○

●Stock ○Available Upon Order

MSBNR/L





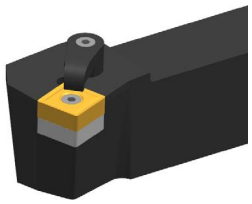


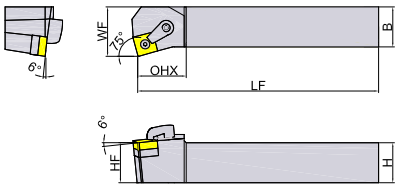
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MSBNR/L2020K12	20	20	125	32	20	17	SN**1204**	DSN1204MH	SPM060170H	CAM02H	PSDM060250H	TH25LH TH30LH	0.4	●	○
MSBNR/L2525M12	25	25	150	32	25	22	SN**1204**	DSN1204MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.78	●	○
MSBNR/L3232P12	32	32	170	32	32	27	SN**1204**	DSN1204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	○
MSBNR/L2525M15	25	25	150	38	25	22	SN**1506**	DSN1504MH	SPM080220FH	CAM03H	SDM060250H	TH30LH	0.78	●	○
MSBNR/L3232P19	32	32	170	42	32	27	SN**1906**	DSN1904MH	SPM100240FH	CAM05H	SDM080350FH	TH40LH	1.37	●	●

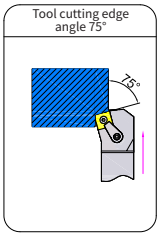
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MSKNR/L



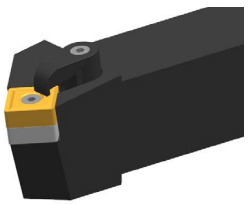


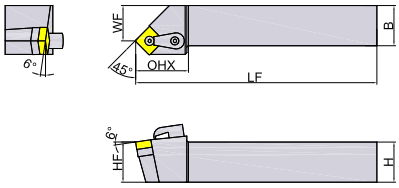


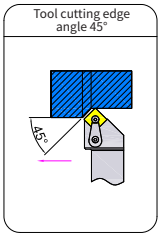
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MSKNR/L2020K12	20	20	125	35	20	25	SN**1204**	DSN1204MH	SPM060170H	CAM02H	PSDM060250H	TH25LH TH30LH	0.4	●	○
MSKNR/L2525M12	25	25	150	35	25	32	SN**1204**	DSN1204MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.78	●	○
MSKNR/L3232P12	32	32	170	35	32	40	SN**1204**	DSN1204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	○
MSKNR/L2525M15	25	25	150	42	25	32	SN**1506**	DSN1504MH	SPM080220FH	CAM03H	SDM060250H	TH30LH	0.78	●	○
MSKNR/L3232P19	32	32	170	48	32	40	SN**1906**	DSN1904MH	SPM100240FH	CAM05H	SDM080350FH	TH40LH	1.37	●	○

●Stock ○Available Upon Order

MSSNR/L





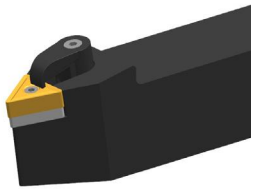


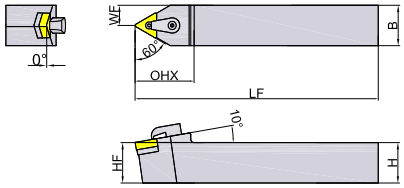
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MSSNR/L2020K12	20	20	125	32	20	25	SN**1204**	DSN1204MH	SPM060170H	CAM02H	PSDM060250H	TH25LH TH30LH	0.39	●	●
MSSNR/L2525M12	25	25	150	32	25	32	SN**1204**	DSN1204MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.77	●	●
MSSNR/L3232P12	32	32	170	32	32	40	SN**1204**	DSN1204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.36	●	○
MSSNR/L2525M15	25	25	150	38	25	32	SN**1506**	DSN1504MH	SPM080220FH	CAM03H	SDM060250H	TH30LH	0.77	●	○
MSSNR/L3232P19	32	32	170	42	32	40	SN**1906**	DSN1904MH	SPM100240FH	CAM05H	SDM080350FH	TH40LH	1.36	●	●

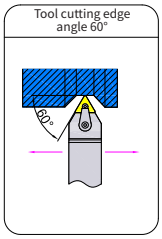
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MTENN



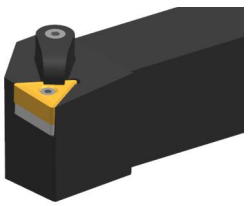


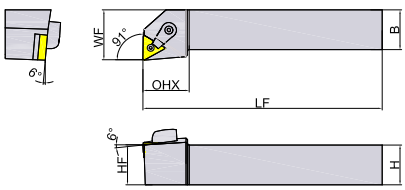


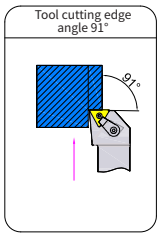
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock
	H	B	LF	OHX	HF	WF								
MTENN2020K16	20	20	125	32	20	10	TN**1604**	DTN1603MH	SPM050130H	CAM02H	PSDM060250H	TH20LH TH30LH	0.38	●
MTENN2525M16	25	25	150	32	25	12.5	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.76	●
MTENN3232P16	32	32	170	35	32	16	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060280H	TH20LH TH30LH	1.35	○
MTENN3232P22	32	32	170	38	32	16	TN**2204**	DTN2204MH	SPM060170H	CAM02H	SDM060280H	TH25L H TH30LH	1.35	●

●Stock ○Available Upon Order

MTFNR/L





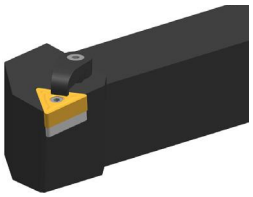


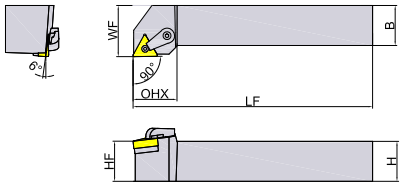
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MTFNR/L2020K16	20	20	125	32	20	25	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.4	●	○
MTFNR/L2525M16	25	25	150	32	25	32	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.78	●	○
MTFNR/L3232P16	32	32	170	32	32	40	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060280H	TH20LH TH30LH	1.37	●	○
MTFNR/L3232P22	32	32	170	38	32	40	TN**2204**	DTN2204MH	SPM060170H	CAM02H	SDM060280H	TH25L H TH30LH	1.37	●	○

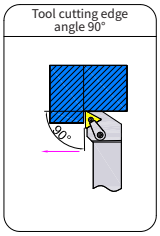
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MTGNR/L



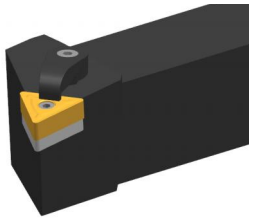


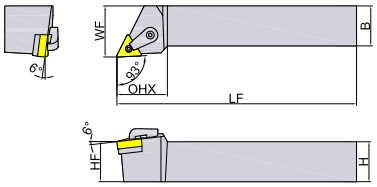


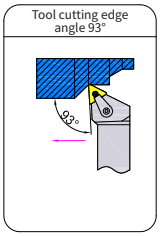
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MTGNR/L2020K16	20	20	125	32	20	25	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.4	●	○
MTGNR/L2525M16	25	25	150	32	25	32	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.78	●	●
MTGNR/L3232P16	32	32	170	32	32	40	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060280H	TH20LH TH30LH	1.37	●	○
MTGNR/L3232P22	32	32	170	38	32	40	TN**2204**	DTN2204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	○

●Stock ○Available Upon Order

MTJNR/L





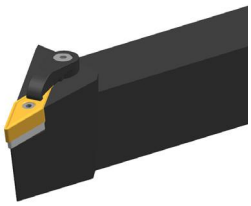


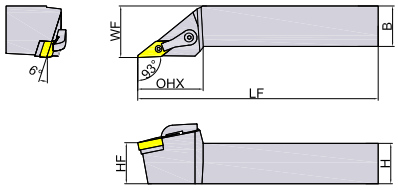
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MTJNR/L2020K16	20	20	125	32	20	25	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.4	●	●
MTJNR/L2525M16	25	25	150	32	25	32	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060250H	TH20LH TH30LH	0.78	●	●
MTJNR/L3232P16	32	32	170	32	32	40	TN**1604**	DTN1603MH	SPM050130H	CAM02H	SDM060280H	TH20LH TH30LH	1.37	●	○
MTJNR/L3232P22	32	32	170	38	32	40	TN**2204**	DTN2204MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	●

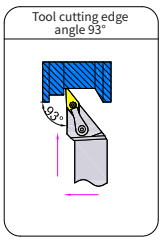
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MVJNR/L



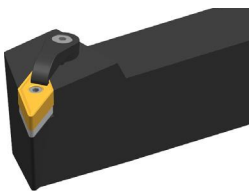


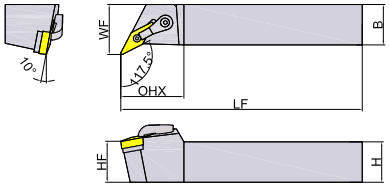


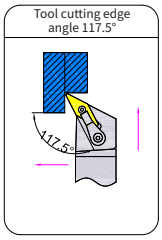
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MVJNR/L2020K16	20	20	125	45	20	25	VN**1604**	DVN1603MH	SPM050130H	CAM04H	PSDM060250H	TH20LH TH30LH	0.4	●	●
MVJNR/L2525M16	25	25	150	45	25	32	VN**1604**	DVN1603MH	SPM050130H	CAM04H	SDM060250H	TH20LH TH30LH	0.78	●	●
MVJNR/L3232P16	32	32	170	45	32	40	VN**1604**	DVN1603MH	SPM050130H	CAM04H	SDM060280H	TH20LH TH30LH	1.37	●	●

●Stock ○Available Upon Order

MVQNR/L





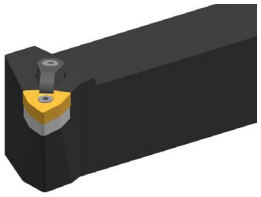


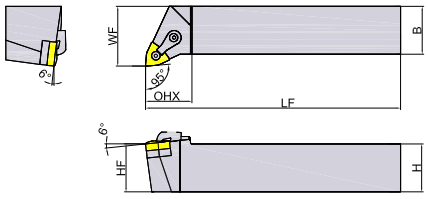
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MVQNR/L2020K16	20	20	125	38	20	25	VN**1604**	DVN1603MH	SPM050130H	CAM02H	PSDM060250H	TH20LH TH30LH	0.4	●	●
MVQNR/L2525M16	25	25	150	38	25	32	VN**1604**	DVN1603MH	SPM050130H	CAM03H	SDM060250H	TH20LH TH30LH	0.78	●	●
MVQNR/L3232P16	32	32	170	38	32	40	VN**1604**	DVN1603MH	SPM050130H	CAM03H	SDM060280H	TH20LH TH30LH	1.37	●	●

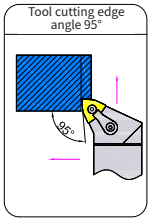
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

MWLNR/L



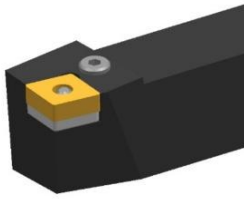


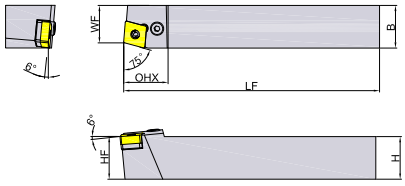


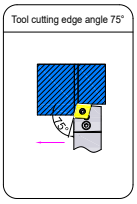
Order No.	Dimensions (mm)						Matched Insert	Shim	Pin	Clamp Plate	Stud	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
MWLNR/L2525M06T3	25	25	150	28	25	32	WN**06T3**	DWN0603MH	SPM050130H	CAM01H	SDM050200H	TH20LH TH25LH	0.78	●	●
MWLNR/L2020K0604	20	20	125	28	20	25	WN**0604**	DWN0603MH	SPM050130H	CAM01H	SDM050200H	TH20LH TH25LH	0.4	●	●
MWLNR2525M0604	25	25	150	28	25	32	WN**0604**	DWN0603MH	SPM050130H	CAM01H	SDM050200H	TH20LH TH25LH	0.78	●	●
MWLNR/L2020K08	20	20	125	32	20	25	WN**0804**	DWN0804MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.78	●	●
MWLNR/L2525M08	25	25	150	35	25	32	WN**0804**	DWN0804MH	SPM060170H	CAM02H	SDM060250H	TH25LH TH30LH	0.4	●	●
MWLNR/L3232P08	32	32	170	35	32	40	WN**0804**	DWN0804MH	SPM060170H	CAM02H	SDM060280H	TH25LH TH30LH	1.37	●	●

●Stock ○Available Upon Order

PCBNR/L





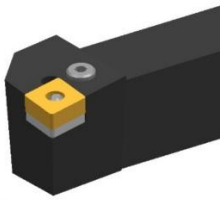


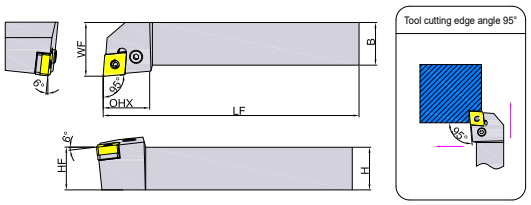
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PCBNR/L2020K12	20	20	125	30	20	17	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.4	●	○
PCBNR/L2525M12	25	25	150	26	25	22	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PCBNR/L3232P12	32	32	170	27	32	29	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○
PCBNR/L2525M16	25	25	150	32	25	22	CN**1606**	DCN1604PD	PA5D	LA5D	SLM080250FD	TH30LD	0.78	●	○
PCBNR/L3232P16	32	32	170	33	32	27	CN**1606**	DCN1604PD	PA5D	LA5D	SLM080250FD	TH30LD	1.37	●	○
PCBNR/L3232P19	32	32	170	38	32	27	CN**1906**	DCN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	1.37	●	○
PCBNR/L4040S19	40	40	250	38	40	35	CN**1906**	DCN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	3.2	●	○
PCBNR/L4040S2509	40	40	250	50	40	37	CN**2509**	DCN2504PD	PA8D	LA8D	SLM120360FD	TH50LD	3.2	●	○

●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

PCLNR/L



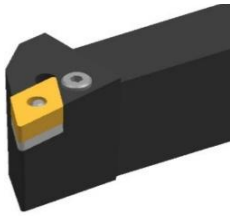


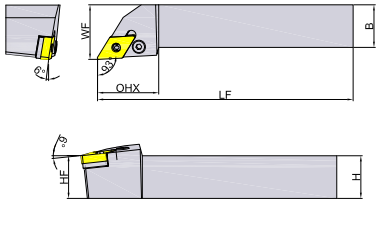
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PCLNR/L2020K12	20	20	125	28	20	26	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.4	●	○
PCLNR/L2525M12	25	25	150	28	25	32	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PCLNR/L3225P12	32	25	170	32	32	32	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.09	●	○
PCLNR/L3232P12	32	32	170	32	32	39	CN**1204**	DCN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○
PCLNR/L2525M16	25	25	150	36	25	32	CN**1606**	DCN1604PD	PA5D	LA5D	SLM080250FD	TH30LD	0.78	●	○
PCLNR/L3225P16	32	25	170	36	32	32	CN**1606**	DCN1604PD	PA5D	LA5D	SLM080250FD	TH30LD	1.09	●	○
PCLNR/L3232P16	32	32	170	36	32	39	CN**1606**	DCN1604PD	PA5D	LA5D	SLM080250FD	TH30LD	1.37	●	○
PCLNR/L3232P19	32	32	170	40	32	40	CN**1906**	DCN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	1.37	●	○
PCLNR/L4040S19	40	40	250	40	40	49	CN**1906**	DCN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	3.2	●	○
PCLNR/L4040S2509	40	40	250	47	40	50	CN**2509**	DCN2504PD	PA8D	LA8D	SLM120360FD	TH50LD	3.2	●	○

●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

PDJNR/L



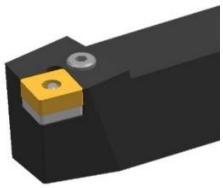


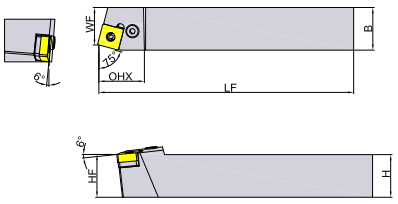
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PDJNR/L2020K11	20	20	125	25	20	25	DN**1104**	DDN11T2PD	PA3D	LA3D	SLM060130D	TH25LD	0.38	●	○
PDJNR/L2525M11	25	25	150	30	25	30	DN**1104**	DDN11T2PD	PA3D	LA3D	SLM060130D	TH25LD	0.78	●	○
PDJNR/L2020K1506	20	20	125	32	20	25	DN**1506**	DDN1503PD	PA4D	LA4BD	SLM080250FD	TH30LD	0.38	●	○
PDJNR/L2525M1506	25	25	150	35	25	32	DN**1506**	DDN1503PD	PA4D	LA4BD	SLM080250FD	TH30LD	0.78	●	○
PDJNR/L3225P1506	32	25	170	35	32	32	DN**1506**	DDN1503PD	PA4D	LA4BD	SLM080250FD	TH30LD	1.09	●	○
PDJNR/L3232P1506	32	32	170	35	32	38	DN**1506**	DDN1503PD	PA4D	LA4BD	SLM080250FD	TH30LD	1.37	●	○
PDJNR/L2020K1504	20	20	125	35	20	25	DN**1504**	DDN1503PD	PA4D	LA4D	SLM080210FD	TH30LD	0.4	●	○
PDJNR/L2525M1504	25	25	150	35	25	32	DN**1504**	DDN1503PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PDJNR/L3232P1504	32	32	170	35	32	38	DN**1504**	DDN1503PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○

●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

PSBNR/L



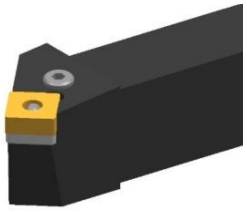


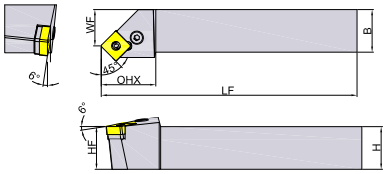
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PSBNR/L2020K12	20	20	125	28	20	17	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.4	●	○
PSBNR/L2525M12	25	25	150	28	25	22	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PSBNR/L3225P12	32	25	170	28	32	22	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.09	●	○
PSBNR/L3232P12	32	32	170	28	32	29	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○
PSBNR/L2525M15	25	25	150	32	25	22	SN**1506**	DSN1504PD	PA5D	LA5D	SLM080250FD	TH30LD	0.78	●	○
PSBNR/L3225P15	32	25	170	32	32	22	SN**1506**	DSN1504PD	PA5D	LA5D	SLM080250FD	TH30LD	1.09	●	○
PSBNR/L3232P15	32	32	170	32	32	28	SN**1506**	DSN1504PD	PA5D	LA5D	SLM080250FD	TH30LD	1.37	●	○
PSBNR/L3232P19	32	32	170	45	32	36	SN**1906**	DSN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	1.37	●	○
PSBNR/L4040S19	40	40	250	45	40	35	SN**1906**	DSN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	3.2	●	○
PSBNR/L4040S2507	40	40	250	50	40	35	SN**2507**	DSN2506PD	PA8D	LA8D	SLM120360FD	TH50LD	3.2	●	○
PSBNR/L4040S2509	40	40	250	50	40	35	SN**2509**	DSN2504PD	PA8D	LA8D	SLM120360FD	TH50LD	3.2	●	○

●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

PSSNR/L



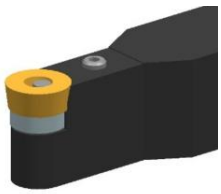


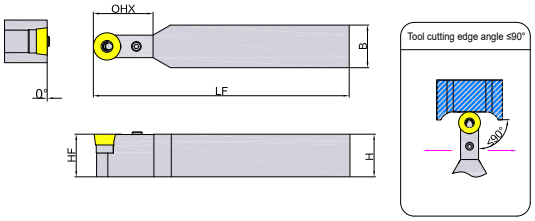
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PSSNR/L2020K12	20	20	125	28	20	25	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.4	●	○
PSSNR/L2525M12	25	25	150	32	25	30	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PSSNR/L3225P12	32	25	170	32	32	30	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.09	●	○
PSSNR/L3232P12	32	32	170	32	32	38	SN**1204**	DSN1203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○
PSSNR/L2525M15	25	25	150	35	25	30	SN**1506**	DSN1504PD	PA5D	LA5D	SLM080250FD	TH30LD	0.78	●	○
PSSNR/L3225P15	32	25	170	35	32	30	SN**1506**	DSN1504PD	PA5D	LA5D	SLM080250FD	TH30LD	1.09	●	○
PSSNR/L3232P15	32	32	170	35	32	38	SN**1506**	DSN1504PD	PA5D	LA5D	SLM080250FD	TH30LD	1.37	●	○
PSSNR/L3232P19	32	32	170	40	32	38	SN**1906**	DSN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	1.37	●	○
PSSNR/L4040S19	40	40	250	50	40	48	SN**1906**	DSN1904PD	PA6D	LA6D	SLM100270FD	TH40LD	3.2	●	○
PSSNR/L4040S2507	40	40	250	50	40	48	SN**2507**	DSN2506PD	PA8D	LA8D	SLM120360FD	TH50LD	3.2	●	○
PSSNR/L4040S2509	40	40	250	50	40	48	SN**2509**	DSN2504PD	PA8D	LA8D	SLM120360FD	TH50LD	3.2	●	○

●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

PRDCN



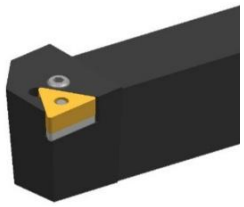


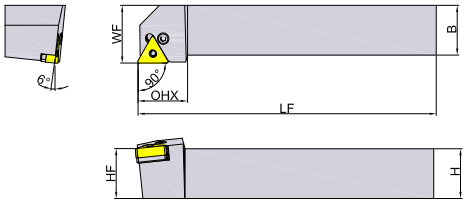
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock
	H	B	LF	OHX	HF	WF								
PRDCN2525M16	25	25	150	35	25	10	RCMX1606**	DRN1604PD	PA4D	LCL16CD	SLM060210D	TH25LD	0.78	●
PRDCN3232P16	32	32	170	32	32	16	RCMX1606**	DRN1604PD	PA4D	LCL16CD	SLM060210D	TH25LD	1.37	●
PRDCN3232P20	32	32	170	40	32	16	RCMX2006**	DRN2004PD	PA5D	LCL20CD	SLM080250FD	TH30LD	1.37	●
PRDCN4040S20	40	40	250	45	40	20	RCMX2006**	DRN2004PD	PA5D	LCL20CD	SLM080250FD	TH30LD	1.37	●
PRDCN3232P25	32	32	170	45	32	16	RCMX2507**	DRN2506PD	PA6D	LCL25CD	SLM100300FD	TH40LD	1.37	●
PRDCN4040S25	40	40	250	50	40	20	RCMX2507**	DRN2506PD	PA6D	LCL25CD	SLM100300FD	TH40LD	3.2	●

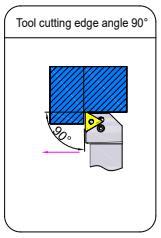
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

PTGNR/L



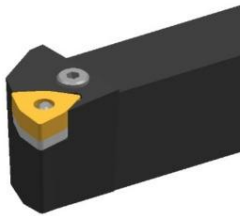


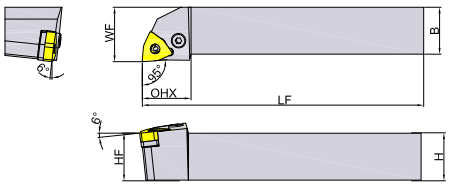


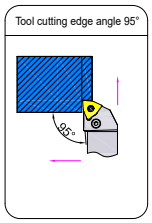
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PTGNR/L2020K16	20	20	125	25	20	23	TN**1604**	DTN16T2PD	PA3D	LA3D	SLM060170D	TH25LD	0.4	●	○
PTGNR/L2525M16	25	25	150	25	25	29	TN**1604**	DTN16T2PD	PA3D	LA3D	SLM060170D	TH25LD	0.78	●	○
PTGNR/L3225P16	32	25	170	32	32	29	TN**1604**	DTN16T2PD	PA3D	LA3D	SLM060170D	TH25LD	1.09	●	○
PTGNR/L3232P16	32	32	170	32	32	37	TN**1604**	DTN16T2PD	PA3D	LA3D	SLM060170D	TH25LD	1.37	●	○
PTGNR/L2525M22	25	25	150	30	25	30	TN**2204**	DTN2203PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PTGNR/L3225P22	32	25	170	32	32	30	TN**2204**	DTN2203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.09	●	○
PTGNR/L3232P22	32	32	170	32	32	37	TN**2204**	DTN2203PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○

●Stock ○Available Upon Order

PWLNR/L





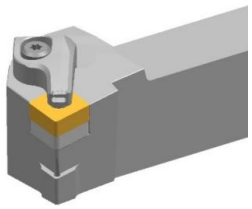


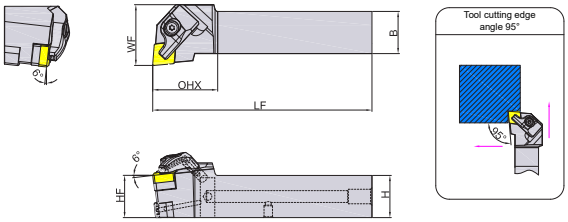
Order No.	Dimensions (mm)						Matched Insert	Shim	Dowel Pin	Lever r	Lever Screw	Wrench h	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF								R	L
PWLNR/L2020K0604	20	20	125	25	20	23	WN**0604**	DWN06T2PD	PA3D	LA3D	SLM060170D	TH25LD	0.4	●	○
PWLNR/L2525M0604	25	25	150	25	25	28	WN**0604**	DWN06T2PD	PA3D	LA3D	SLM060170D	TH25LD	0.78	●	○
PWLNR/L2020K08	20	20	125	26	20	25	WN**0804**	DWN0803PD	PA4D	LA4D	SLM080210FD	TH30LD	0.4	●	○
PWLNR/L2525M08	25	25	150	26	25	29	WN**0804**	DWN0803PD	PA4D	LA4D	SLM080210FD	TH30LD	0.78	●	○
PWLNR/L3232P08	32	32	170	26	32	37	WN**0804**	DWN0803PD	PA4D	LA4D	SLM080210FD	TH30LD	1.37	●	○

●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Negative)

DCLNR/L-HPC (High-pressure Internal Cooling)

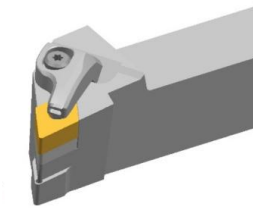


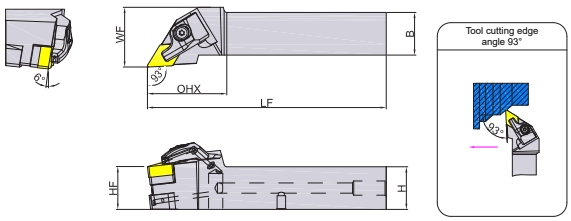


Order No.	Dimensions (mm)						Matched Insert	Shim	Shim Screw	Clamp Plate	Clamp Plate Screw	Spring	Wrench	Thread Plug	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF										R	L
DCLNR/ L2020X12-HPC	20	20	115	38.5	20	25	CN**1204**	DCN1204DD	SI60M040080-05612D	CAD01R/LD	SJM050250D	SPA7D	TT15PD	STBG1/8D	0.4	○	○
DCLNR/ L2525X12-HPC	25	25	130	38.5	25	32	CN**1204**	DCN1204DD	SI60M040080-05612D	CAD01R/LD	SJM050250D	SPA7D	TT15PD	STBG1/8D	0.78	○	○

●Stock ○Available Upon Order

DDJNR/L-HPC (High-pressure Internal Cooling)



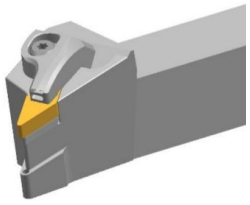


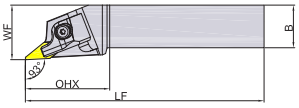
Order No.	Dimensions (mm)						Matched Insert	Shim	Shim Screw	Clamp Plate	Clamp Plate Screw	Spring	Wrench	Thread Plug	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF										R	L
DDJNR/ L2020X15-HPC	20	20	125	45	20	25	DN**1506**	DDN1504DD	SI60M040080-05612D	CAD01R/LD	SJM050250D	SPA7D	TT15PD	STBG1/8D	0.4	○	○
DDJNR/ L2525X15-HPC	25	25	140	45	25	32	DN**1506**	DDN1504DD	SI60M040080-05612D	CAD01R/LD	SJM050250D	SPA7D	TT15PD	STBG1/8D	0.78	○	○

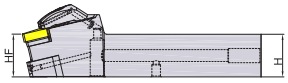
●Stock ○Available Upon Order

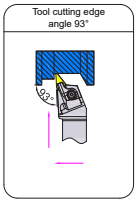
External Diameter Turning Tool Holder (Negative)

DVJNR/L-HPC (High-pressure Internal Cooling)





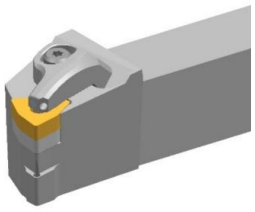


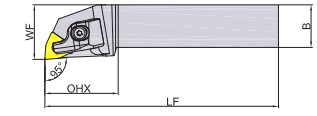


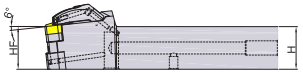
Order No.	Dimensions (mm)						Matched Insert	Shim	Shim Screw	Clamp Plate	Clamp Plate Screw	Spring	Wrench	Thread Plug	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF										R	L
DVJNR/ L2020X16-HPC	20	20	125	48	20	25	VN**1604**	DVN1603DD	SI60M040080-05612D	CAD02R/ LD	SJM050250D	SPA7D	TT15PD	STBG1/ 8D	0.4	○	○
DVJNR/ L2525X16-HPC	25	25	140	48	25	32	VN**1604**	DVN1603DD	SI60M040080-05612D	CAD02R/ LD	SJM050250D	SPA7D	TT15PD	STBG1/ 8D	0.78	○	○

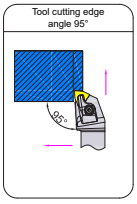
●Stock ○Available Upon Order

DWLNR/L-HPC (High-pressure Internal Cooling)







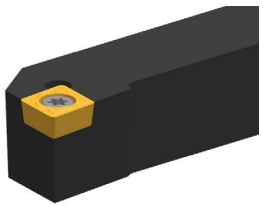


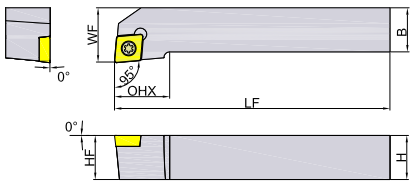
Order No.	Dimensions (mm)						Matched Insert	Shim	Shim Screw	Clamp Plate	Clamp Plate Screw	Spring	Wrench	Thread Plug	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF										R	L
PDWLNR/ L2020X08-HPC	20	20	120	40	20	25	WN**0804**	DWN0804DD	SI60M040080-05612D	CAD-03RD	SJM050250D	SPA7D	TT15PD	STB-G1/8D	0.4	○	○
PDWLNR/ L2525X08-HPC	25	25	135	40	25	32	WN**0804**	DWN0804DD	SI60M040080-05612D	CAD-03RD	SJM050250D	SPA7D	TT15PD	STB-G1/8D	0.78	○	○

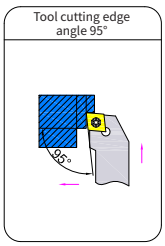
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Positive)

SCLCR/L



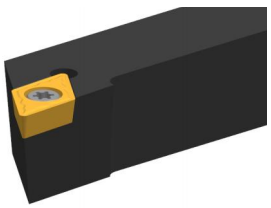


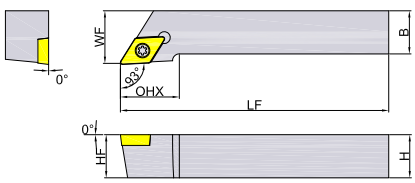


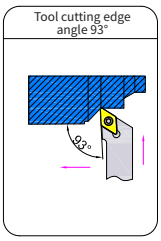
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF					R	L
SCLCR/L1010F06	10	10	80	12	10	12	CC**0602**	SI60M025060-03510H	TT08PH	0.06	●	●
SCLCR/L1212H09	12	12	100	20	12	16	CC**09T3**	SI60M040100-05812H	TT15PH	0.11	●	○
SCLCR/L1616H09	16	16	100	20	16	20	CC**09T3**	SI60M040100-05812H	TT15PH	0.2	●	●
SCLCR/L2020K09	20	20	125	20	20	25	CC**09T3**	SI60M040100-05812H	TT15PH	0.4	●	●
SCLCR/L2525M12	25	25	150	20	25	32	CC**1204**	SI60M050120-07012H	TT20PH	0.78	●	●

●Stock ○Available Upon Order

SDJCR/L





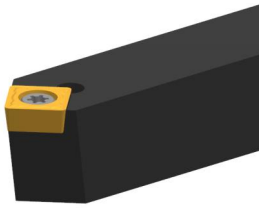


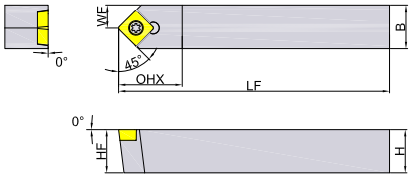
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF					R	L
SDJCR/L1010F07	10	10	80	15	10	12	DC**0702**	SI60M025060-03510H	TT08PH	0.06	●	●
SDJCR1212H07	12	12	100	15	12	16	DC**0702**	SI60M025060-03510H	TT08PH	0.11	●	
SDJCR/L1616H11	16	16	100	20	16	20	DC**11T3**	SI60M040100-05812H	TT15PH	0.2	●	●
SDJCR/L2020K11	20	20	125	22	20	25	DC**11T3**	SI60M040100-05812H	TT15PH	0.4	●	●
SDJCR/L2525M11	25	25	150	25	25	32	DC**11T3**	SI60M040100-05812H	TT15PH	0.78	●	●

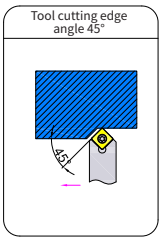
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Positive)

SSDCN



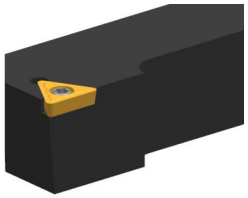


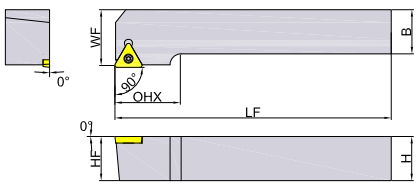


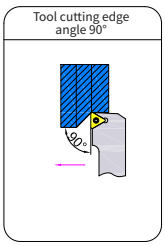
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock
	H	B	LF	OHX	HF	WF					
SSDCN1212H09	12	12	80	-	12	6	SC**09T3**	SI60M040100-05812H	TT15PH	0.1	●
SSDCN1616H09	16	16	100	-	16	8	SC**09T3**	SI60M040100-05812H	TT15PH	0.19	●
SSDCN2020K09	20	20	125	-	20	10	SC**09T3**	SI60M040100-05812H	TT15PH	0.39	○
SSDCN2525M12	25	25	150	-	25	12.5	SC**1204**	SI60M050120-07012H	TT20PH	0.77	●

●Stock ○Available Upon Order

STGCR/L





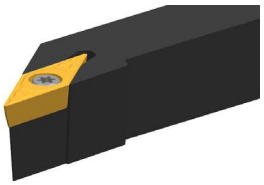


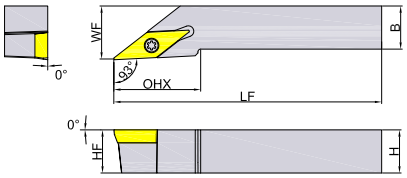
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF					R	L
STGCR1010F09	10	10	80	12	10	12	TC**0902**	SI60M022060-03008H	TT06PH	0.06	●	
STGCR/L1212H11	12	12	100	16	12	16	TC**1102**	SI60M025060-03510H	TT08PH	0.11	●	○
STGCR/L1616H11	16	16	100	20	16	20	TC**1102**	SI60M025060-03510H	TT08PH	0.2	●	●
STGCR/L2020K16	20	20	125	25	20	25	TC**16T3**	SI60M040100-05812H	TT15PH	0.4	●	●
STGCR/L2525M16	25	25	150	25	25	32	TC**16T3**	SI60M040100-05812H	TT15PH	0.78	●	●

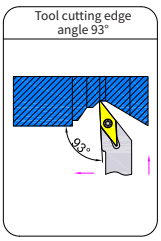
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Positive)

SVJCR/L





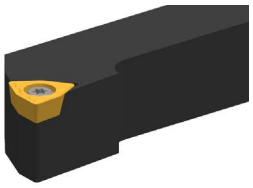


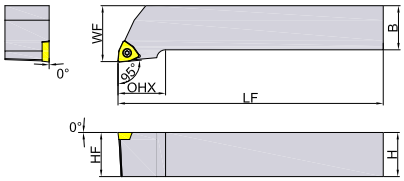
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF					R	L
SVJCR1212H11	12	12	100	25	12	16	VC**1103**	SI60M025060-03510H	TT08PH	0.1	●	
SVJCR/L1616H11	16	16	100	25	16	20	VC**1103**	SI60M025060-03510H	TT08PH	0.19	●	●
SVJCR/L2020K16	20	20	125	35	20	25	VC**1604**	SI60M040100-05812H	TT15PH	0.39	●	●
SVJCR/L2525M16	25	25	150	35	25	32	VC**1604**	SI60M040100-05812H	TT15PH	0.77	●	●

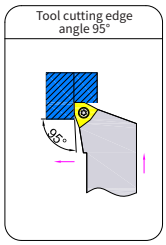
●Stock ○Available Upon Order

External Diameter Turning Tool Holder (Positive)

SWLCR/L







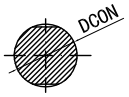
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H	B	LF	OHX	HF	WF					R	L
SWLCR/L1212H06	12	12	100	15	12	16	WC**06T3**	SI60M040100-05812H	TT15PH	0.11	●	●
SWLCR/L1616H06	16	16	100	15	16	20	WC**06T3**	SI60M040100-05812H	TT15PH	0.2	●	●
SWLCR/L2020K06	20	20	125	15	20	25	WC**06T3**	SI60M040100-05812H	TT15PH	0.4	●	●
SWLCR/L2525M06	25	25	150	20	25	32	WC**06T3**	SI60M040100-05812H	TT15PH	0.78	●	●

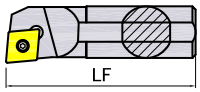
●Stock ○Available Upon Order

Type Representation Rules for Internal Hole Turning Tool Holders

S	16	M	S	C
①	②	③	④	⑤

① Tool Holder Material	
A	Steel Tool Holder with Cooling Hole
C	Cemented Carbide Tool Holder
E	Cemented Carbide Tool Holder with Cooling Hole
S	Steel Tool Holder

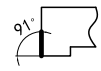
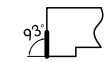
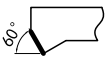
② Shank Diameter	
	
Code	Diameter
08	8
10	10
12	12
16	16
20	20
25	25
32	32

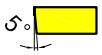
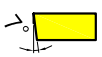
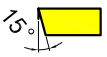
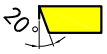
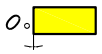
③ Shank Length	
	
Code	Height
F	80
H	100
K	125
M	150
N	160
Q	180
R	200
S	250
T	300
U	350

⑤ Insert Shape		
C	80° Diamond	
D	55° Diamond	
R	Circular	
S	Square	
T	Regular Triangle	
V	35° Diamond	
W	Hexagon	
X	Special Shape	

④ Clamping Type		
D	Double Clamping Type	
M	Module Locking Type Double Clamping Type for Heavy Cutting	
P	Lever Locking Type	
S	Screw Clamping Type	

L	C	R	09
⑥	⑦	⑧	⑨

⑥ Tool Cutting Edge Angle	
K	
L	
F	
U	
Q	
W	

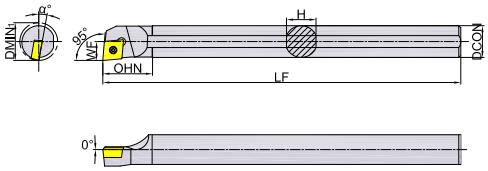
⑦ Insert Relief Angle		
B	5 °	
C	7 °	
D	15 °	
E	20 °	
N	0 °	
P	11 °	

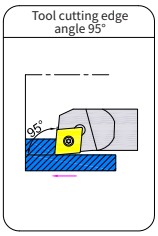
⑧ Direction	
R	
L	

⑨ Cutting Edge Length (mm)							
Inscribed Circle	C	D	R	S	T	V	W
6.35	06	07	-	06	11	11	04
9.525	09	11	-	09	16	16	06
12.7	12	15	-	12	22	-	08
15.875	16	-	-	15	-	-	-
19.05	19	-	-	19	-	-	-
25.4	25	-	-	25	-	-	-
32	-	-	32	-	-	-	-

Internal Hole Turning Tool Holder

SCLCR/L



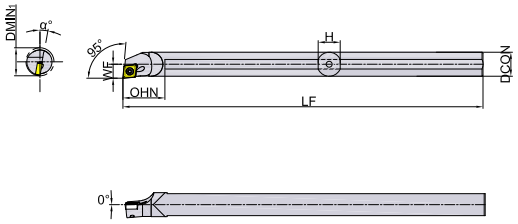


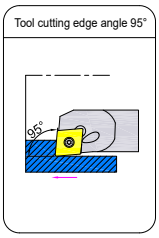
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-SCLCR/L06	10	8	5.5	125	15	7	13	CC**0602**	SI60M025050-03510H	TT08PH	0.05	●	●
S10K-SCLCR/L06	12	10	6.5	125	15	9	12	CC**0602**	SI60M025050-03510H	TT08PH	0.08	●	●
S12M-SCLCR/L06	16	12	7.5	150	20	11	10	CC**0602**	SI60M025060-03510H	TT08PH	0.14	●	●
S12M-SCLCR/L09	16	12	8	150	18	11	12	CC**09T3**	SI60M040080-05812H	TT15PH	0.14	●	●
S16Q-SCLCR/L09	20	16	10	180	24	15	10	CC**09T3**	SI60M040080-05812H	TT15PH	0.29	●	●
S20R-SCLCR/L09	25	20	12	200	30	18	8	CC**09T3**	SI60M040080-05812H	TT15PH	0.5	●	●
S25S-SCLCR/L09	32	25	16	250	38	23	6	CC**09T3**	SI60M040100-05812H	TT15PH	0.98	●	●
S25S-SCLCR/L12	32	25	16	250	38	23	8	CC**1204**	SI60M050120-07012H	TT20PH	0.98	●	●

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SCLCR/L (Internal Cooling)



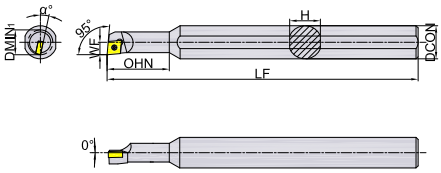


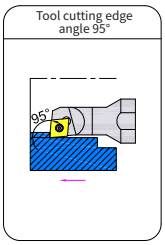
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
A08K-SCLCR/L06	10	8	4.5	125	14	7	13	CC*T0602**	SI60M025050-03510D	TT08PD	0.05	●	●
A10K-SCLCR/L06	12	10	6	125	17	9	12	CC*T0602**	SI60M025050-03510D	TT08PD	0.08	●	●
A12M-SCLCR/L06	16	12	7	150	17	11	10	CC*T0602**	SI60M025050-03510D	TT08PD	0.14	●	●
A16Q-SCLCR/L09	20	16	9	180	27	15	10	CC*T09T3**	SI60M040080-05710D	TT15PD	0.29	●	●
A20Q-SCLCR/L09	25	20	11	180	28	18	8	CC*T09T3**	SI60M040080-05710D	TT15PD	0.5	●	●
A25R-SCLCR/L09	32	25	14	200	35	23	6	CC*T09T3**	SI60M040080-05710D	TT15PD	0.98	●	●
E08K-SCLCR/L06	10	8	5	125	8	7.5	13	CC*T0602**	SI60M025050-03510D	TT08PD	0.08	○	○
E10M-SCLCR/L06	12	10	6	150	14	9.5	12	CC*T0602**	SI60M025050-03510D	TT08PD	0.16	○	○
E12Q-SCLCR/L06	14	12	7	180	14	11	10	CC*T0602**	SI60M025050-03510D	TT08PD	0.28	○	○
E16R-SCLCR/L09	18	16	9	200	20	15	10	CC*T09T3**	SI60M040080-05710D	TT15PD	0.56	○	○
E20S-SCLCR/L09	22	20	11	250	26	19	8	CC*T09T3**	SI60M040080-05710D	TT15PD	1.1	○	○
E25T-SCLCR/L09	28	25	14	300	29	23	6	CC*T09T3**	SI60M040080-05710D	TT15PD	2.06	○	○

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SCLCR/L-A16

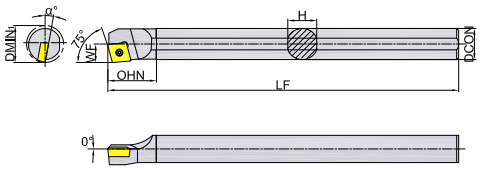


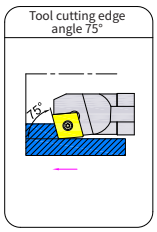


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S07M-SCLCR/L06-A16	9	16	4.25	150	18	15	15	CC**0602**	SI60M025050-03510H	TT08PH	0.22	●	○
S08M-SCLCR/L06-A16	10	16	5	150	25	15	13	CC**0602**	SI60M025050-03510H	TT08PH	0.22	●	○
S10M-SCLCR/L06-A16	13	16	6	150	26	15	12	CC**0602**	SI60M025050-03510H	TT08PH	0.22	●	●
S12M-SCLCR/L06-A16	15	16	7	150	28	15	10	CC**0602**	SI60M025060-03510H	TT08PH	0.22	●	○

●Stock ○Available Upon Order

SCKCR/L



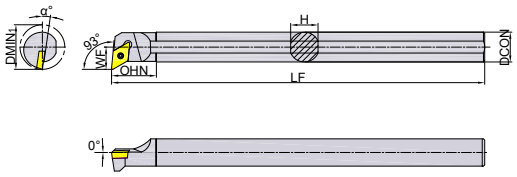


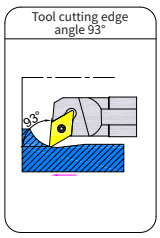
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-SCKCR/L06	10	8	5.5	125	12	7	13	CC**0602**	SI60M025050-03510H	TT08PH	0.05	●	○
S10K-SCKCR/L06	12	10	6.5	125	20	9	12	CC**0602**	SI60M025050-03510H	TT08PH	0.08	●	○
S12M-SCKCR/L06	16	12	8	150	22	11	10	CC**0602**	SI60M025060-03510H	TT08PH	0.14	○	○
S12M-SCKCR/L09	16	12	8	150	23	11	12	CC**09T3**	SI60M040080-05812H	TT15PH	0.14	●	○
S16Q-SCKCR/L09	20	16	10	180	28	15	10	CC**09T3**	SI60M040080-05812H	TT15PH	0.29	●	○
S20R-SCKCR/L09	25	20	12	200	29	18	8	CC**09T3**	SI60M040080-05812H	TT15PH	0.5	○	○
S25S-SCKCR/L09	32	25	16	250	37	23	6	CC**09T3**	SI60M040100-05812H	TT15PH	0.98	●	○

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SDUCR/L

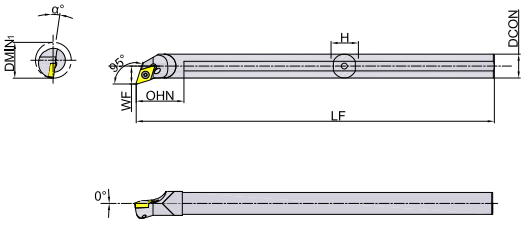


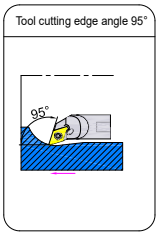


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S10K-SDUCR/L07	12	10	7	125	15	9	10	DC**0702**	SI60M025050-03510H	TT08PH	0.08	●	●
S12M-SDUCR/L07	16	12	9	150	22	11	8	DC**0702**	SI60M025060-03510H	TT08PH	0.14	●	●
S16Q-SDUCR/L07	20	16	11	180	27	15	6	DC**0702**	SI60M025060-03510H	TT08PH	0.29	●	●
S16Q-SDUCR/L11	20	16	11	180	28	15	6	DC**11T3**	SI60M040080-05812H	TT15PH	0.29	●	●
S20R-SDUCR/L11	25	20	13	200	30	18	6	DC**11T3**	SI60M040080-05812H	TT15PH	0.5	●	●
S25S-SDUCR/L11	32	25	16	250	38	23	4	DC**11T3**	SI60M040100-05812H	TT15PH	0.98	●	●

●Stock ○Available Upon Order

SDUCR/L (Internal Cooling)



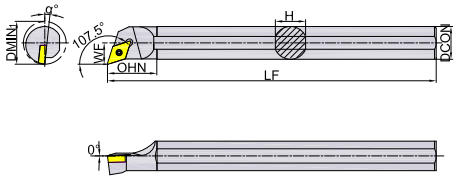


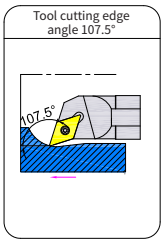
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
A10K-SDUCR/L07	13	10	7.7	125	15	9	10	DC*T0702**	SI60M025050-03510D	TT08PD	0.08	●	●
A12M-SDUCR/L07	16	12	8.5	150	22	11	8	DC*T0702**	SI60M025050-03510D	TT08PD	0.14	●	●
A16Q-SDUCR/L07	20	16	11	180	27	15	6	DC*T0702**	SI60M025050-03510D	TT08PD	0.29	●	●
A20Q-SDUCR/L11	25	20	14.5	180	30	18	6	DC*T11T3**	SI60M040080-05710D	TT15PD	0.5	●	●
A25R-SDUCR/L11	32	25	18.5	200	35	23	6	DC*T11T3**	SI60M040080-05710D	TT15PD	0.98	●	●
E10M-SDUCR/L07	13	10	7	150	14	9.5	10	DC*T0702**	SI60M025050-03510D	TT08PD	0.16	○	○
E12Q-SDUCR/L07	16	12	9	180	14	11	8	DC*T0702**	SI60M025050-03510D	TT08PD	0.28	○	○
E16R-SDUCR/L07	20	16	11	200	20	15	6	DC*T0702**	SI60M025050-03510D	TT08PD	0.56	○	○

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SDQCR/L

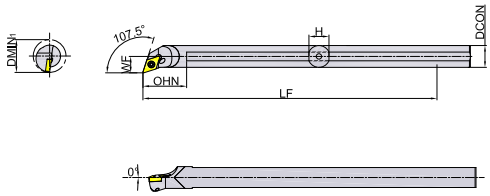


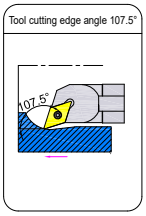


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S10K-SDQCR/L07	12	10	7	125	20	9	10	DC**0702**	SI60M025050-03510H	TT08PH	0.08	●	○
S12M-SDQCR/L07	16	12	9	150	20	11	8	DC**0702**	SI60M025060-03510H	TT08PH	0.14	●	○
S16Q-SDQCR/L07	20	16	11	180	25	15	6	DC**0702**	SI60M025060-03510H	TT08PH	0.29	●	○
S16Q-SDQCR/L11	20	16	11	180	24	15	6	DC**11T3**	SI60M040080-05812H	TT15PH	0.29	●	●
S20R-SDQCR/L11	25	20	13	200	32	19	6	DC**11T3**	SI60M040080-05812H	TT15PH	0.5	●	○
S25S-SDQCR/L11	32	25	16	250	33	23	4	DC**11T3**	SI60M040100-05812H	TT15PH	0.98	●	●

●Stock ○Available Upon Order

SDQCR/L (Internal Cooling)



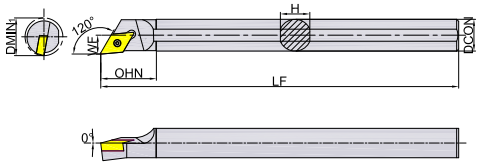


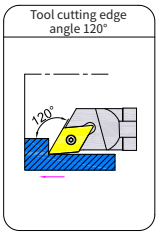
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
A10K-SDQCR/L07	13	10	7	125	20	9	10	DC*T0702**	SI60M025050-03510D	TT08PD	0.08	●	○
A12M-SDQCR/L07	16	12	9	150	22	11	8	DC*T0702**	SI60M025050-03510D	TT08PD	0.14	●	○
A16Q-SDQCR/L07	20	16	11	180	27	15	6	DC*T0702**	SI60M025050-03510D	TT08PD	0.29	●	○
A20Q-SDQCR/L11	25	20	13	180	35	18	6	DC*T11T3**	SI60M040080-05710D	TT15PD	0.5	●	○
A25R-SDQCR/L11	32	25	17	200	38	23	4	DC*T11T3**	SI60M040080-05710D	TT15PD	0.98	●	●

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SDXCR/L

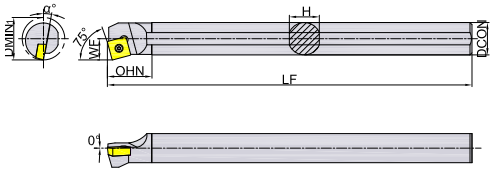


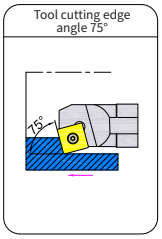


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-SDXCR/L07	10	8	5.5	125	18	7	12	DC**0702**	SI60M025050-03510H	TT08PH	0.05	●	○
S10K-SDXCR/L07	12	10	6.5	125	18	9	10	DC**0702**	SI60M025050-03510H	TT08PH	0.08	●	○
S12M-SDXCR/L07	16	12	8	150	22	11	8	DC**0702**	SI60M025060-03510H	TT08PH	0.14	●	○
S16Q-SDXCR/L07	20	16	10	180	32	15	6	DC**0702**	SI60M040100-05812H	TT08PH	0.29	●	○
S20R-SDXCR/L11	25	20	12	200	38	18	6	DC**11T3**	SI60M040080-05812H	TT15PH	0.5	●	●
S25S-SDXCR/L11	32	25	14	250	45	23	4	DC**11T3**	SI60M040100-05812H	TT15PH	0.98	●	○

●Stock ○Available Upon Order

SSKCR/L



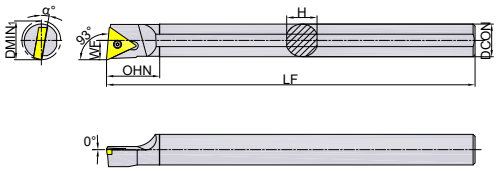


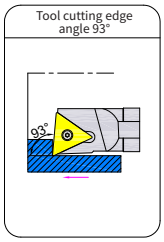
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S12M-SSKCR/L09	16	12	9	150	22	11	10	SC**09T3**	SI60M040080-05812H	TT15PH	0.14	○	○
S16Q-SSKCR/L09	20	16	11	180	29	15	10	SC**09T3**	SI60M040080-05812H	TT15PH	0.29	●	○
S20R-SSKCR/L09	25	20	13	200	29	18	8	SC**09T3**	SI60M040080-05812H	TT15PH	0.5	●	○
S25S-SSKCR/L12	32	25	17	250	38	23	6	SC**1204**	SI60M050120-07012H	TT20PH	0.98	○	○

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

STUCR/L

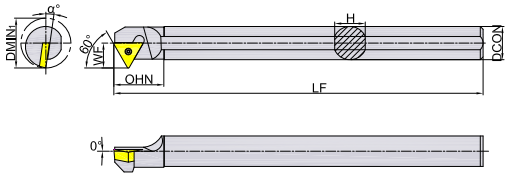


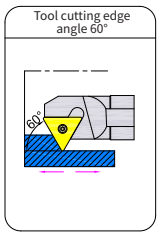


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-STUCR/L09	10	8	5.5	125	15	7	15	TC**0902**	SI60M022040-03008H	TT06PH	0.05	●	○
S10K-STUCR/L09	12	10	6.5	125	15	9	13	TC**0902**	SI60M022040-03008H	TT06PH	0.08	●	○
S10K-STUCR/L11	12	10	6.5	125	15	9	12	TC**1102**	SI60M025050-03510H	TT08PH	0.08	●	○
S12M-STUCR/L11	16	12	8	150	21	11	10	TC**1102**	SI60M025060-03510H	TT08PH	0.14	●	○
S16Q-STUCR/L11	20	16	10	180	27	15	8	TC**1102**	SI60M025060-03510H	TT08PH	0.29	●	○
S20R-STUCR/L11	25	20	12	200	27	18	6	TC**1102**	SI60M025060-03510H	TT08PH	0.5	●	
S20R-STUCR/L16	25	20	12	200	27	18	4	TC**16T3**	SI60M040080-05812H	TT15PH	0.5	●	○
S25S-STUCR/L16	32	25	16	250	38	23	6	TC**16T3**	SI60M040100-05812H	TT15PH	0.98	●	

●Stock ○Available Upon Order

STWCR/L



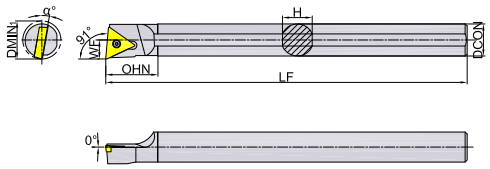


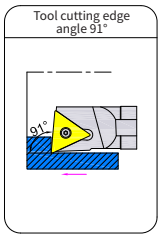
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-STWCR/L09	10	8	6	125	16	7	15	TC**0902**	SI60M022040-03008H	TT06PH	0.05	●	○
S10K-STWCR/L11	12	10	8	125	20	9	10	TC**1102**	SI60M025050-03510H	TT08PH	0.08	●	○
S12M-STWCR/L11	16	12	9	150	20	11	8	TC**1102**	SI60M025060-03510H	TT08PH	0.14	●	○
S16Q-STWCR/L11	20	16	11	180	27	15	6	TC**1102**	SI60M025060-03510H	TT08PH	0.29	○	○
S20R-STWCR11	25	20	13	200	30	18	4	TC**1102**	SI60M025060-03510H	TT08PH	0.5	○	
S20R-STWCR/L16	25	20	15	200	32	18	8	TC**16T3**	SI60M040080-05812H	TT15PH	0.5	○	○
S25S-STWCR/L16	32	25	17	250	44	23	6	TC**16T3**	SI60M040100-05812H	TT15PH	0.98	●	○

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

STFCR/L

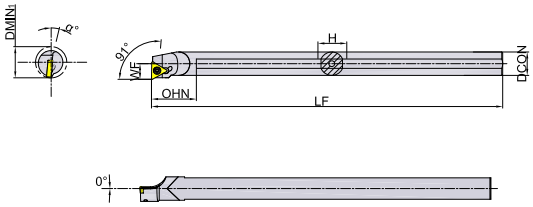


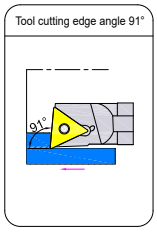


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-STFCR/L09	10	8	5.5	125	15	7	15	TC**0902**	SI60M022040-03008H	TT06PH	0.05	●	○
S10K-STFCR/L09	12	10	6.5	125	15	9	10	TC**0902**	SI60M022040-03008H	TT06PH	0.08	●	●
S12M-STFCR/L09	16	12	8	150	20	11	8	TC**0902**	SI60M022060-03008H	TT06PH	0.14	●	○
S12M-STFCR/L11	16	12	8	150	25	11	6	TC**1102**	SI60M025060-03510H	TT08PH	0.14	●	●
S16Q-STFCR/L11	20	16	10	180	27	15	4	TC**1102**	SI60M025060-03510H	TT08PH	0.29	●	●
S20R-STFCR/L11	25	20	12	200	27	18	8	TC**1102**	SI60M025060-03510H	TT08PH	0.5	●	●
S20R-STFCR/L16	25	20	12	200	27	18	6	TC**16T3**	SI60M040080-05812H	TT15PH	0.5	●	○
S25S-STFCR/L16	32	25	16	250	40	23		TC**16T3**	SI60M040100-05812H	TT15PH	0.98	●	●

●Stock ○Available Upon Order

STFCR/L (Internal Cooling)



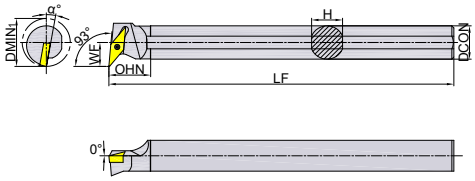


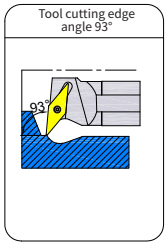
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
A10K-STFCR/L09	12	10	6.8	125	10	9	13	TC*T0902**	SI60M022060-03008D	TT06PD	0.08	●	●
A12M-STFCR/L09	16	12	8	150	10	11	10	TC*T0902**	SI60M022060-03008D	TT06PD	0.14	●	○
S12M-STFCR/L1102	14	12	6.5	150	25	11	10	TC*T1102**	SI60M022050-03008D	TT08PD	0.14	●	●
A16Q-STFCR/L1102	18	16	9	180	25	15	8	TC**1102**	SI60M022050-03008D	TT08PD	0.29	●	●
A20Q-STFCR/L1102	25	20	11	180	25	18	6	TC**1102**	SI60M022050-03008D	TT08PD	0.5	●	●
A25R-STFCR/L16	32	25	17	200	40	23	6	TC*T16T3**	SI60M040080-05710D	TT15PD	0.98	●	●

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SVUCR/L

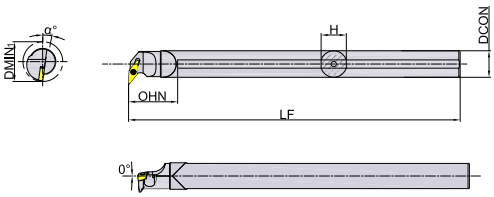


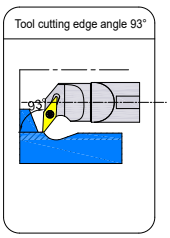


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S16Q-SVUCR/L11	20	16	12	180	25	15	10	VC**1103**	SI60M025060-03510H	TT08PH	0.29	●	○
S20R-SVUCR/L11	25	20	16	200	26	18	8	VC**1103**	SI60M025060-03510H	TT08PH	0.5	●	●
S25S-SVUCR/L16	33	25	20	250	36	23	8	VC**1604**	SI60M040100-05812H	TT15PH	0.98	●	●

●Stock ○Available Upon Order

SVUCR/L (Internal Cooling)



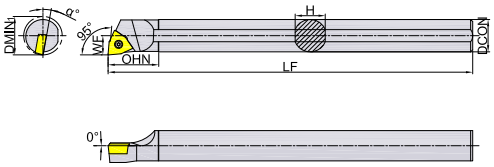


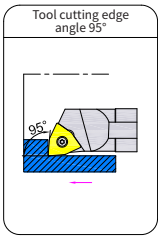
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
A16Q-SVUCR/L11	22	16	13.5	180	24	15	10	VC*T1103**	SI60M025050-03510D	TT08PD	0.29	●	○
A20Q-SVUCR/L16	31	20	19	180	32	19	8	VC*T1604**	SI60M040080-05710D	TT15PD	0.5	●	●
A25R-SVUCR/L16	35	25	20	200	32	23	8	VC*T1604**	SI60M040080-05710D	TT15PD	0.98	●	●

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

SWLCR/L

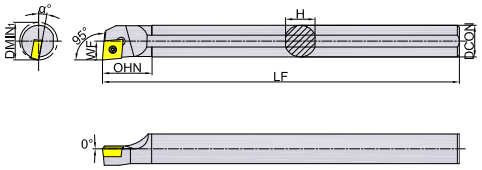


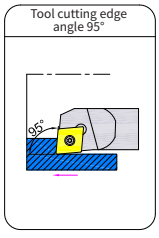


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S12M-SWLCR/L06	16	12	8	150	20	11	12	WC**06T3**	SI60M040080-05812H	TT15PH	0.14	●	●
S16Q-SWLCR/L06	20	16	10	180	25	14.8	10	WC**06T3**	SI60M040080-05812H	TT15PH	0.29	●	●
S20R-SWLCR/L06	25	20	12	200	28	18.4	8	WC**06T3**	SI60M040080-05812H	TT15PH	0.5	●	●
S25S-SWLCR/L06	32	25	16	250	40	23.4	6	WC**06T3**	SI60M040100-05812H	TT15PH	0.98	●	●

●Stock ○Available Upon Order

SCLPR/L



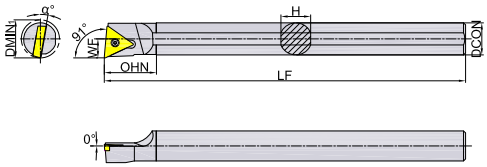


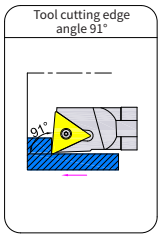
Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN1	DCON	WF	LF	OHN	H	α°					R	L
S08K-SCLPR/L06	10	8	5.5	125	15	7	13	CP**0602**	SI60M025050-03510H	TT08PH	0.05	●	●
S10K-SCLPR/L06	12	10	6.5	125	15	9	12	CP**0602**	SI60M025050-03510H	TT08PH	0.08	●	●
S12M-SCLPR/L06	16	12	8	150	20	11	10	CP**0602**	SI60M025050-03510H	TT08PH	0.14	●	●
S12M-SCLPR/L09	16	12	8	150	26	11	12	CP**09T3**	SI60M040080-05812H	TT15PH	0.14	●	●
S16Q-SCLPR/L09	20	16	10	180	27	15	10	CP**09T3**	SI60M040080-05812H	TT15PH	0.29	●	●
S20R-SCLPR/L09	25	20	12	200	29	18	8	CP**09T3**	SI60M040080-05812H	TT15PH	0.5	●	○
S25S-SCLPR/L09	32	25	16	250	38	23	6	CP**09T3**	SI60M040100-05812H	TT15PH	0.98	●	●

●Stock ○Available Upon Order

Internal Hole Turning Tool Holder

STFPR/L





Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock
	DMIN1	DCON	WF	LF	OHN	H	α°					R
S10K-STFPR1102	12	10	6.5	125	16	9	12	TP**1102**	SI60M025050-03510H	TT08PH	0.08	●
S12M-STFPR1102	16	12	8	150	25	11	10	TP**1102**	SI60M025050-03510H	TT08PH	0.14	●
S16Q-STFPR1102	20	16	10	180	27	15	8	TP**1102**	SI60M025060-03510H	TT08PH	0.29	●
S20R-STFPR1102	25	20	12	200	30	18	6	TP**1102**	SI60M025060-03510H	TT08PH	0.5	○
S20R-STFPR16T3	25	20	12	200	30	18	4	TP**16T3**	SI60M040080-05812H	TT15PH	0.5	●
S25S-STFPR16T3	32	25	16	250	40	23	6	TP**16T3**	SI60M040100-05812H	TT15PH	0.98	○

●Stock ○Available Upon Order

G

PARTING OFF AND GROOVING TOOLS

Type Representation Rules for Parting Off and Grooving Inserts

GT Series Insert

GT D 300 E 020 R 06 - MC

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series Name
GT

② Teeth
S=Single Edged
D=Double Edged

③ Cutting Width
Cutting Width<10mm The First Digit is Omitted, 300=3.0mm
Cutting Width⩾10mm Not Omitted, 1000=10.0mm

④ Tool Apron Code	
Insert	Matching Tool Holder
B	B
C	C
D	D (Preferred), C
E	E (Preferred), D, C
F	F
G	G (Preferred), F
H	H (Preferred), G, F
J	J

⑤ Tip Arc Radius
020=0.20mm

⑥ Insert Direction
R=Right-handed
L=Left-hand
□=Middle

⑦ Lead Angle
06=6°
15=15°
□=0°

⑧ Geometry	
The First Letter	The Second Letter
F=Low Feed	C=Parting Off
M=Medium Feed	T=Turning
R=High Feed	G=Grooving
O=Specific Optimized	R=Profile Machining

Type Representation Rules for Parting Off and Grooving Inserts

GK Series Insert

GK D 40 02 R 15 - MT

① ② ③ ④ ⑤ ⑥ ⑦

① Series Name
GK

② Teeth
S=Single Edged
D=Double Edged

③ Cutting Width
30=3.0mm
40=4.0mm

④ Tip Arc Radius
02=0.2mm
04=0.4mm
20=2.0mm

⑤ Insert Direction
R=Right-handed
L=Left-hand
□=Middle

⑥ Lead Angle
15=15°
□=0°

⑦ Geometry	
The First Letter	The Second Letter
F=Low Feed	C=Parting Off
M=Medium Feed	T=Turning
R=High Feed	G=Grooving
O=Specific Optimized	R=Profile Machining

Type Representation Rules for Parting Off and Grooving Inserts

GB Series Insert

GB R 4 100 R - 050

① ② ③ ④ ⑤ ⑥

① Series Name
GB

② Insert Type
R=Round Nose
□=Square Nose

③ Insert Size	
3	IC=9.525mm
4	IC=12.7mm

④ Cutting Width
100=1.00mm

⑤ Insert Direction
R=Right-handed
L=Left-hand

⑥ Tip Arc Radius
050=0.5mm

Type Representation Rules for Parting Off and Grooving Inserts

GN Series Insert

① Series Name
GN

② Machining Type
G=Grooving
R=Profile

③ Additional Information
D=Deep Grooving

④ Additional Information
P=Positive Rake Angle
□=No Rake Angle

⑤ Insert Thickness
2=3.81mm
3=4.95mm

⑥ Cutting Width
Metric System: M150=1.5mm
Imperial System: 125=0.125inch

⑦ Insert Direction
R=Right-handed
L=Left-hand

Notes: The GN series is the original G-NOTCH series.

Type Representation Rules for Parting Off and Grooving Inserts

GST Series Insert

GSTS A 2 R 150 R 16 - U

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Series Name
GSTC
GSTS (Thin)

② Insert Size	
Unique to the GSTS Series	
A	Insert Height=8.7mm
B	Insert Height=9.5mm

③ Insert Thickness
2=2.2mm
3=3.0mm
4=4.0mm

④ Insert Direction
R=Right-handed
L=Left-hand

⑤ Cutting Tool Width
150=1.5mm

⑥ Lead Angle Direction
R=Right-biased
L=Left-biased
N=No Bias

⑦ Lead Angle
16=16°
20=20°

⑧ Geometry 		
Code	Specifications	GAN
U	GSTC3*N-U	15 °
	GSTSA*-U	
	GSTC4*-U	20 °
	GSTSB*-U	
	GSTC3*R16-U	24 °
T	GSTC*-T	12 °
N	GSTC*-N	0 °
	GSTC*R20-N	

Type Representation Rules for Parting Off and Grooving Tool Holders

GT Series Tool Holder

GT E P R 2525 M 45-H 25 D65-S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩ ⑪

① Series Name
GT

② Machining Type
E=External Machining
I=Internal Hole Making
F=End Face Machining

③ Shape Of Tool Holder
U=Grinding Undercut
P=Vertical Type
□=Linear

④ Tool Direction
R=Right-handed
L=Left-hand
N=Middle

⑤ Shank Size
External Diameter Tool Holder: Height*Width
Tool Holder with Internal Hole: Minimum Machining Diameter*Shank Diameter

⑨ Maximum Cutting Depth	
Conventional Tool	25: CDX=25mm
Dedicated Tool for Automatic Lathe	D16:CUTDIA =16mm

⑩ Minimum Diameter of the First Cut
Unique to End Face Machining
D65:DAXIN=65mm

⑥ Length of Tool Holder	
Code	Length
F	85 mm
H	100 mm
J	110 mm
JX	120 mm
K	125 mm
M	150 mm
Q	180 mm
R	200 mm
S	250 mm
T	300 mm
U	350 mm

⑦ Shank Angle
Unique to the U-shaped Tool Holder
45=45°
75=75°

⑪ Additional Information
S=With Curve Reinforcement
C=With High-Pressure Cooling
SC=With Curve Reinforcement and High-Pressure Cooling
□=Without Curve Reinforcement

⑧ Tool Apron Code	
Tool Holder	Matched Insert
B	B
C	C (Preferred), D, E
D	D (Preferred), E
E	E
F	F (Preferred), G, H
G	G (Preferred), H
H	H
J	J

Type Representation Rules for Parting Off and Grooving Tool Holders

GK Series Tool Holder

GK F P R 2525-4 T25 D65-S

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

① Series Name
GK

② Machining Type
E=External Machining
I=Internal Hole Making
F=End Face Machining

③ Shape Of Tool Holder
U=Grinding Undercut
P=Vertical Type
□=Linear

④ Tool Direction
R=Right-handed
L=Left-hand
N=Middle

⑤ Shank Size
External Diameter Tool Holder: Height*Width
Tool Holder with Internal Hole: Minimum Machining Diameter*Shank Diameter

⑥ Insert Cutting Width
4=4.0mm

⑦ Maximum Cutting Depth
T25: CDX=25mm

⑧ Minimum Diameter of the First Cut
Unique to End Face Machining
D65:DAXIN=65mm

⑨ Additional Information
S=With Curve Reinforcement
□=Without Curve Reinforcement

Type Representation Rules for Parting Off and Grooving Tool Holders

GB Series Tool Holder

GB	E	R	2525	M	4	15
①	②	③	④	⑤	⑥	⑦

① Series Name
GB

② Machining Type
E=External Machining
I=Internal Hole Making

③ Tool Direction
R=Right-handed
L=Left-hand

④ Shank Size
External Diameter Tool Holder: Height*Width
Tool Holder with Internal Hole: Minimum Machining Diameter*Shank Diameter

⑤ Length of Tool Holder	
Code	Length
K	125 mm
M	150 mm
Q	180 mm
R	200 mm

⑥ Insert Size	
3	IC=9.525mm
4	IC=12.7mm

⑦ Suitable Insert Width Range	
Unique to GB4 External Diameter Tool Holder	
15	1.0≤W＜2.5
25	2.5≤W＜3.3
35	3.3≤W

Notes: When selecting the GBI tool holder, the right-handed (R) insert is applicable to the left-hand (L) tool holder, and the left-hand (L) insert is applicable to the right-handed (R) tool holder.

Type Representation Rules for Parting Off and Grooving Tool Holders

GN Series Tool Holder

GN	S	R	2525	M	3
①	②	③	④	⑤	⑥

① Series Name
GN

② Machining Type	
External Machining	S=Linear
	E=Vertical
	R=Grinding Undercut
Internal Hole Making	A=Vertical Internal Cooling

③ Tool Direction
R=Right-handed
L=Left-hand

④ Shank Size
External Diameter Tool Holder: Height*Width
Tool Holder with Internal Hole: Shank Diameter

⑤ Length Of Tool Holder	
Code	Length
D	60 mm
E	70 mm
F	80 mm
H	100 mm
J	110 mm
K	125 mm
M	150 mm
P	170 mm
Q	180 mm
R	200 mm

⑥ Insert Thickness
2=3.81mm
3=4.95mm

Notes: ① When selecting the GNE/GNA tool holder, the right-handed (R) insert is applicable to the left-hand (L) tool holder, and the left-hand (L) insert is applicable to the right-handed (R) tool holder.
② The GN series is the original G-NOTCH series.

Type Representation Rules for Parting Off and Grooving Tool Holders

GST Series Tool Holder

GSTS R 1212 JK A 2 – RS

① ② ③ ④ ⑤ ⑥ ⑦

① Series Name
GST
GSTS (thin)

② Insert Direction
R=Right-Handed
L=Left-Hand
N=Middle

③ Shank Size
External Diameter Tool Holder: Height*Width

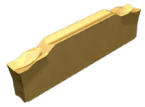
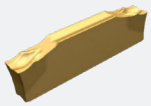
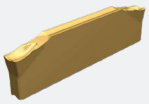
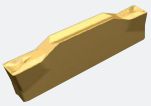
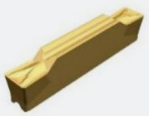
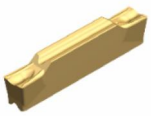
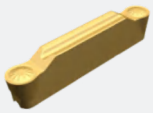
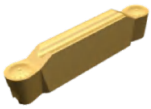
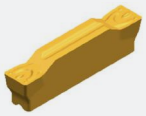
④ Length of Tool Holder	
Code	Length
JK	120 mm

⑤ Insert Size	
Unique to the GSTS Series	
A	Insert Height=8.7mm
B	Insert Height=9.5mm

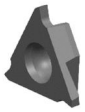
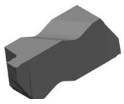
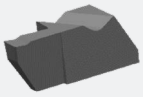
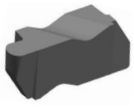
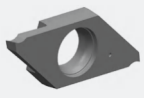
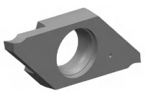
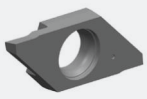
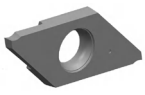
⑥ Insert Thickness
2=2.2mm
3=3.0mm
4=4.0mm

⑦ Additional Information
RS=Sub-spindle Tool Holder

List of Parting Off and Grooving Inserts

Series Name	Machining Type	Diagram	Geometry	Application	Tool Width Range	Page No.
GT	Parting Off		FC	Low Feed Parting Off	2.00-4.00 (mm)	P204
			MC	Medium Feed Parting Off	1.50-5.00 (mm)	P205
			RC	High Feed Parting Off	2.00-6.00 (mm)	P206
			OC	Specific Optimized Parting Off	2.00 (mm)	P207
	Grooving		FG	Low Feed Grooving	1.50-8.00 (mm)	P208-P210
			MG	Medium Feed Grooving	2.00-8.00 (mm)	P211
	Turning		FT	Low Feed Turning	1.50-8.00 (mm)	P212
			MT	Medium Feed Turning	2.00-8.00 (mm)	P213
			OT	Specific Optimized Turning	3.00-5.00 (mm)	P214
	Profile		MR	Medium Feed Profile	2.00-8.00 (mm)	P215
			OR	Specific Optimized Profile	2.00-8.00 (mm)	P216
GK	Turning		MT	Medium Feed Turning	2.00-8.00 (mm)	P217
	Profile		MR	Medium Feed Profile	2.00-8.00 (mm)	P218

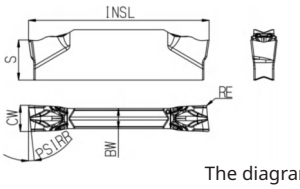
List of Parting Off and Grooving Inserts

Series Name	Machining Type	Diagram	Geometry	Application	Tool Width Range	Page No.
GB	Grooving		GB	Precision Grooving	0.33-4.30 (mm)	P219-P222
	Profile		GBR	Precision Profile	1.00-4.00 (mm)	P223
GN	Grooving		GNGP	Precision Grooving	0.50-4.80 (mm)	P224-P225
			GNGDP	Precision Deep Grooving	1.50-4.80 (mm)	P226
	Profile		GNR	Precision Profile	1.00-3.18 (mm)	P227
GSTC	Parting off		U	Small Part Parting Off (Sharp Cutting Edge)	0.50-2.00 (mm)	P228-P229
			T	Small Part Parting Off (Enhanced Cutting Edge)	1.00-2.00 (mm)	P230
			N	Small Part Parting Off (Geometry-free Sharp Tip)	0.50-2.00 (mm)	P231-P232
GSTS	Parting off		U	Small Part Parting Off-used for Sub-spindle (Sharp Cutting Edge)	1.50-2.00 (mm)	P233

Parting Off and Grooving Inserts-GT Series

FC

Low Feed Parting Off Inserts

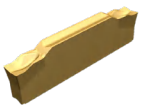


The diagram shows the right hand

★ Preferred ☆ Alternative

P	☆		★	☆		
M			☆	★		
K			★			
S			★	☆		

Order No.	Tool Apron Code SSC	Dimensions (mm) CW±0.05	RE±0.05	INSL	BW	S	PSIR^{R}/$_{L}$	Coated Cemented Carbide GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C015-FC	C	2.00	0.15	20.0	1.60	4.45	0 °	●		●	●		
GTD250D015-FC	D	2.50	0.15	20.0	2.00	4.52	0 °	●		●	●		
GTD300E015-FC	E	3.00	0.15	20.0	2.30	4.58	0 °	●		●	●		
GTD400F015-FC	F	4.00	0.15	25.0	3.20	4.50	0 °	●		●	●		
GTD200C015R06-FC	C	2.00	0.15	21.0	1.60	4.45	6 °	●		●	●		
GTD200C015L06-FC		2.00	0.15	21.0	1.60	4.45	6 °	●		●	●		
GTD250D015R06-FC	D	2.50	0.15	21.0	2.00	4.52	6 °	●		●	●		
GTD250D015L06-FC		2.50	0.15	21.0	2.00	4.52	6 °			●			
GTD300E015R06-FC	E	3.00	0.15	21.0	2.30	4.58	6 °	●		●	●		
GTD300E015L06-FC		3.00	0.15	21.0	2.30	4.58	6 °	●		●	●		
GTD400F015R06-FC	F	4.00	0.15	26.0	3.20	4.50	6 °	●		●	●		
GTD400F015L06-FC		4.00	0.15	26.0	3.20	4.50	6 °			●			



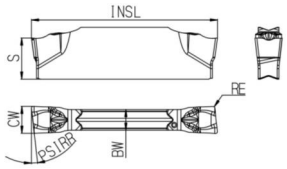
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

MC

Medium Feed Parting Off Insert

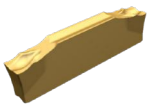


The diagram shows the right hand

★ Preferred ☆ Alternative

P	☆		★	☆		
M			☆	★		
K			★			
S			★	☆		

Order No.	Tool Apron Code SSC	Dimensions (mm)						Coated Cemented Carbide					
		CW±0.05	RE±0.05	INSL	BW	S	PSIR$^{R}/_{L}$	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD150B020-MC	B	1.50	0.20	14.0	1.26	4.21	0 °	●		●	●		
GTD200C020-MC	C	2.00	0.20	20.0	1.60	4.45	0 °	●		●	●		
GTD250D020-MC	D	2.50	0.20	20.0	2.00	4.53	0 °	●		●	●		
GTD300E020-MC	E	3.00	0.20	20.0	2.30	4.55	0 °	●		●	●		
GTD400F020-MC	F	4.00	0.20	25.0	3.20	4.50	0 °	●		●	●		
GTD500G020-MC	G	5.00	0.20	25.0	4.20	4.58	0 °	●		●	●		
GTD200C020R06-MC	C	2.00	0.20	20.4	1.60	4.45	6 °	●		●	●		
GTD200C020L06-MC		2.00	0.20	20.4	1.60	4.45	6 °	●		●	●		
GTD200C002L15-MC		2.00	0.02	21.5	1.60	4.47	15 °			●	○		
GTD200C002R15-MC		2.00	0.02	21.5	1.60	4.47	15 °			●	○		
GTD200C020R15-MC		2.00	0.20	20.8	1.60	4.44	15 °			●	●		
GTD200C020L15-MC		2.00	0.20	20.8	1.60	4.44	15 °			●	●		
GTD250D020R06-MC	D	2.50	0.20	20.5	2.00	4.53	6 °	●		●	●		
GTD250D020L06-MC		2.50	0.20	20.5	2.00	4.53	6 °	●		●	●		
GTD300E020R06-MC	E	3.00	0.20	20.7	2.30	4.58	6 °	●		●	●		
GTD300E020L06-MC		3.00	0.20	20.7	2.30	4.58	6 °	●		●	●		
GTD300E002L15-MC		3.00	0.02	21.6	2.30	4.61	15 °			●	●		
GTD300E002R15-MC		3.00	0.02	21.6	2.30	4.61	15 °			●	●		
GTD300E020L15-MC		3.00	0.20	20.9	2.30	4.58	15 °			●	●		
GTD300E020R15-MC		3.00	0.20	20.9	2.30	4.58	15 °			●	●		
GTD400F020R06-MC	F	4.00	0.20	25.6	3.20	4.50	6 °	●		●	●		
GTD400F020L06-MC		4.00	0.20	25.6	3.20	4.50	6 °	●		●	●		
GTD500G020R06-MC	G	5.00	0.20	25.9	4.20	4.58	6 °	●		●			
GTD500G020L06-MC		5.00	0.20	25.9	4.20	4.58	6 °	●		●			



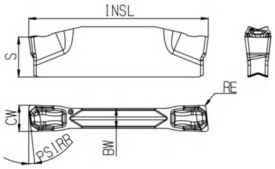
◎ Suitable tool holder. See P234-P243
Notes: RE=0.02mm material tolerance is ±0.01mm

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

RC

High Feed Parting Off Insert



The diagram shows the right hand

★ Preferred ☆ Alternative

P	☆		★	☆		
M			☆	★		
K			★			
S			★	☆		

Order No.	Tool Apron Code SSC	Dimensions (mm) CW±0.05	RE±0.05	INSL	BW	S	PSIR$^{R}/_{L}$	Coated Cemented Carbide GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C020-RC	C	2.00	0.20	20.0	1.60	4.45	0 °	●		●	●		
GTD250D030-RC	D	2.50	0.30	20.0	2.00	4.52	0 °	●		●	●		
GTD300E030-RC	E	3.00	0.30	20.0	2.30	4.58	0 °	●		●	●		
GTD400F030-RC	F	4.00	0.30	25.0	3.20	4.50	0 °	●		●	●		
GTD500G040-RC	G	5.00	0.40	25.0	4.20	4.58	0 °	●		●	●		
GTD600H040-RC	H	6.00	0.40	25.0	5.20	4.67	0 °	●		●	●		
GTD200C020R06-RC	C	2.00	0.20	20.6	1.60	4.45	6 °	●		●	●		
GTD200C020L06-RC		2.00	0.20	20.6	1.60	4.45	6 °	●		●	●		
GTD250D030R06-RC	D	2.50	0.30	20.6	2.00	4.54	6 °	●		●	●		
GTD250D030L06-RC		2.50	0.30	20.6	2.00	4.54	6 °	●		●	●		
GTD300E030R06-RC	E	3.00	0.30	20.7	2.30	4.58	6 °	●		●	●		
GTD300E030L06-RC		3.00	0.30	20.7	2.30	4.58	6 °	●		●	●		
GTD400F030R06-RC	F	4.00	0.30	25.9	3.20	4.50	6 °	●		●	●		
GTD400F030L06-RC		4.00	0.30	25.9	3.20	4.50	6 °	●		●			
GTD500G040R06-RC	G	5.00	0.40	25.9	4.20	4.60	6 °	●		●			
GTD500G040L06-RC		5.00	0.40	25.9	4.20	4.60	6 °	●		●			

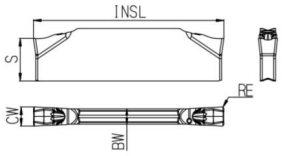
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

OC

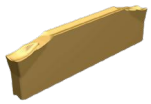
Specific Optimized Parting Off Insert



★ Preferred ☆ Alternative

P			★	☆		
M			☆	★		
K			★			
S			★	☆		

Order No.	Tool Apron Code SSC	Dimensions (mm)						Coated Cemented Carbide					
		CW±0.05	RE±0.05	INSL	BW	S	PSIRR/L	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C020-OC	C	2.00	0.20	20.0	1.60	4.45	0 °			●	●		



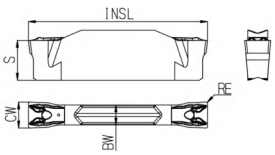
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

FG

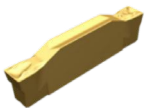
Low Feed Grooving Insert



★ Preferred ☆ Alternative

P	☆		★			☆
M			★			☆
K			★			☆
S			★			☆

Order No.	Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
		CW±0.02	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD150B010-FG	B	1.50	0.10	14.8	1.15	4.21			●			●
GTD198C020-FG	C	1.98	0.20	20.7	1.60	4.45			●			
GTD200C020-FG	C	2.00	0.20	20.7	1.60	4.45	●		●			●
GTD200C040-FG	C	2.00	0.40	20.7	1.60	4.45			●			●
GTD224C020-FG	C	2.24	0.20	20.7	1.60	4.45			○			○
GTD239D020-FG	D	2.39	0.20	20.7	2.00	4.53			●			●
GTD239D040-FG	D	2.39	0.40	20.7	2.00	4.53			●			●
GTD246D030-FG	D	2.46	0.30	20.7	2.00	4.53			○			○
GTD267D020-FG	D	2.67	0.20	20.7	2.00	4.53			○			
GTD279D030-FG	D	2.79	0.30	20.7	2.00	4.53			●			●
GTD300E020-FG	E	3.00	0.20	20.7	2.30	4.58	●		●			●
GTD300E030-FG	E	3.00	0.30	20.7	2.30	4.58			●			●
GTD300E040-FG	E	3.00	0.40	20.7	2.30	4.58			●			●
GTD310E020-FG	E	3.10	0.20	20.7	2.30	4.58			●			
GTD318E020-FG	E	3.18	0.20	20.7	2.30	4.58			●			●
GTD318E040-FG	E	3.18	0.40	20.7	2.30	4.58			●			
GTD318E080-FG	E	3.18	0.80	20.7	2.30	4.58			●			●
GTD361E030-FG	E	3.61	0.30	20.7	2.30	4.58			●			●
GTD396F020-FG	F	3.96	0.20	25.7	3.20	4.50			○			○
GTD396F040-FG	F	3.96	0.40	25.7	3.20	4.50			○			
GTD396F080-FG	F	3.96	0.80	25.7	3.20	4.50			○			○
GTD400F020-FG	F	4.00	0.20	25.7	3.20	4.50	●		●			●
GTD400F040-FG	F	4.00	0.40	25.7	3.20	4.50			●			●
GTD452F020-FG	F	4.52	0.20	25.7	3.20	4.50			●			



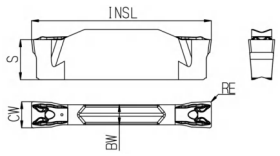
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

FG

Low Feed Grooving Insert



★ Preferred ☆ Alternative

	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
P	☆		★			☆
M			★			☆
K			★			☆
S			★			☆

Order No.	Tool Apron Code SSC	Dimensions (mm) CW±0.02	RE±0.05	INSL	BW	S	Coated Cemented Carbide GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD470F050-FG	F	4.70	0.50	25.7	3.20	4.50			●			
GTD475F040-FG		4.75	0.40	25.7	3.20	4.50			●			
GTD475F080-FG		4.75	0.80	25.7	3.20	4.50			●			
GTD480F050-FG		4.80	0.50	25.7	3.20	4.50			●			
GTD500F020-FG		5.00	0.20	25.7	3.20	4.50	●		●			●
GTD500F040-FG		5.00	0.40	25.7	3.20	4.50			●			●
GTD541G020-FG	G	5.41	0.20	25.7	4.20	4.58			○			
GTD556G050-FG		5.56	0.50	25.7	4.20	4.58			○			○
GTD600H020-FG	H	6.00	0.20	25.7	5.20	4.67	●		●			●
GTD635H040-FG		6.35	0.40	25.7	5.20	4.67			○			
GTD635H050-FG		6.35	0.50	25.7	5.20	4.67			○			
GTD635H080-FG		6.35	0.80	25.7	5.20	4.67			○			
GTD714H080-FG		7.14	0.80	25.7	5.20	4.67			●			
GTD792J080-FG	J	7.92	0.80	31.0	6.60	6.39			○			
GTD800J020-FG		8.00	0.20	31.0	6.60	6.39	●		●			

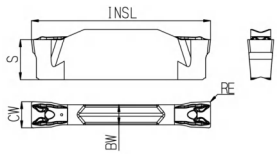
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

FG

Low Feed Grooving Insert (Circlip Slot)



★ Preferred ☆ Alternative						
P			★			☆
M			★			☆
K			★			☆
S			★			☆

Order No.		Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
			CW+0.13 +0.09	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
	GTD185C010-FG	C	1.85	0.10	20.7	1.60	4.45			●			●
	GTD215C010-FG		2.15	0.10	20.7	1.60	4.45			●			
	GTD265D020-FG	D	2.65	0.20	20.7	2.00	4.53			●			
	GTD315E020-FG	E	3.15	0.20	20.7	2.30	4.58			●			
	GTD415F020-FG	F	4.15	0.20	25.7	3.20	4.5			●			
	GTD515G020-FG	G	5.15	0.20	25.7	4.20	4.58			●			

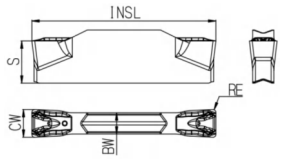
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

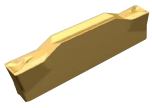
MG

Medium Feed Grooving Insert



★ Preferred ☆ Alternative							
P	☆	☆	★	☆	☆		
M			★	☆			
K		☆	☆		★		
S			★	☆			

Order No.	Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
		CW±0.05	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C020-MG	C	2.00	0.20	20.0	1.60	4.45	●		●	●	●	
GTD239C020-MG		2.39	0.20	20.0	1.60	4.45	○		●		●	
GTD300E030-MG	E	3.00	0.30	20.0	2.30	4.58	●	●	●	●	●	
GTD318E030-MG		3.18	0.30	20.0	2.30	4.58	○		●	○	●	
GTD400F030-MG	F	4.00	0.30	25.0	3.20	4.50	○		●	○	●	
GTD475G030-MG	G	4.75	0.30	25.0	4.20	4.58	○		●		●	
GTD500G040-MG		5.00	0.40	25.0	4.20	4.58	●	●	●	●	●	
GTD600H040-MG	H	6.00	0.40	25.0	5.20	4.67	●		●	●	●	
GTD635H030-MG		6.35	0.30	25.0	5.20	4.67	○		●		●	
GTD792J030-MG	J	7.92	0.30	30.0	6.60	6.39			●			
GTD800J050-MG		8.00	0.50	30.0	6.60	6.39	○		●		●	



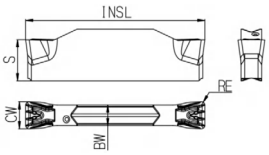
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

FT

Low Feed Turning Insert



★ Preferred ☆ Alternative

P	☆		★		☆	☆
M			★			☆
K			☆		★	☆
S			★			☆

Order No.	Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
		CW±0.05	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD150B020-FT	B	1.50	0.20	14.0	1.26	4.21			●			
GTD200C020-FT	C	2.00	0.20	20.0	1.60	4.45			●			●
GTD250D020-FT	D	2.50	0.20	20.0	2.00	4.53			●			●
GTD300E020-FT	E	3.00	0.20	20.0	2.30	4.58	●		●		●	●
GTD300E040-FT		3.00	0.40	20.0	2.30	4.58			●			●
GTD400F020-FT	F	4.00	0.20	25.0	3.20	4.50			●			●
GTD400F040-FT		4.00	0.40	25.0	3.20	4.50	●		●		●	●
GTD400F080-FT		4.00	0.80	25.0	3.20	4.50			●			●
GTD500G040-FT	G	5.00	0.40	25.0	4.20	4.59	●		●		●	●
GTD500G080-FT		5.00	0.80	25.0	4.20	4.59			●			●
GTD600H040-FT	H	6.00	0.40	25.0	5.20	4.68	●		●		●	●
GTD600H080-FT		6.00	0.80	25.0	5.20	4.68			●			●
GTD600H100-FT		6.00	1.00	25.0	5.20	4.68			●			●
GTD800J040-FT	J	8.00	0.40	30.0	6.60	6.39			●			●
GTD800J080-FT		8.00	0.80	30.0	6.60	6.39	●		●		●	●
GTD800J120-FT		8.00	1.20	30.0	6.60	6.39			●			●

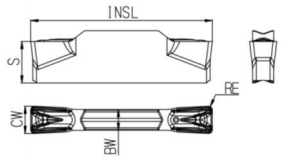
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

MT

Medium Feed Turning Insert



★ Preferred ☆ Alternative

P	☆	☆	★	☆	☆	☆
M			★	☆		☆
K		☆	☆		★	☆
S			★	☆		☆

Order No.	Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
		CW±0.05	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C020-MT	C	2.00	0.20	20.0	1.60	4.45	●		●	●	●	●
GTD300E040-MT	E	3.00	0.40	20.0	2.30	4.58	●	●	●	●	●	●
GTD400F040-MT	F	4.00	0.40	25.0	3.20	4.50	●	●	●	●	●	●
GTD400F080-MT		4.00	0.80	25.0	3.20	4.50	○	●	●	○	●	●
GTD500G040-MT	G	5.00	0.40	25.0	4.20	4.59	●	●	●	●	●	●
GTD500G080-MT		5.00	0.80	25.0	4.20	4.59	○	●	●	○	●	●
GTD600H040-MT	H	6.00	0.40	25.0	5.20	4.68	○	●	●		●	●
GTD600H080-MT		6.00	0.80	25.0	5.20	4.68	●	●	●	●	●	●
GTD800J080-MT	J	8.00	0.80	30.0	6.60	6.39	○	●	●	○	●	●
GTD800J120-MT		8.00	1.20	30.0	6.60	6.39	○	●	●		●	

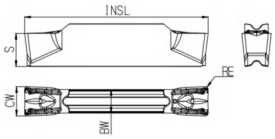
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

OT

Specific Optimized Turning Insert



★ Preferred ☆ Alternative

P		☆	★		☆	☆
M			★			☆
K		☆	☆		★	☆
S			★			☆

Order No.	Tool Apron Code SSC	Dimensions (mm) CW±0.05	RE±0.05	INSL	BW	S	Coated Cemented Carbide GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
 GTD300E030-OT	E	3.00	0.30	20.0	2.30	4.58		●	●		●	●
GTD400F040-OT	F	4.00	0.40	25.0	3.20	4.50		●	●		●	●
GTD500G040-OT	G	5.00	0.40	25.0	4.20	4.58		●	●		●	●

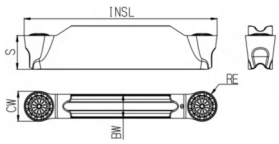
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

MR

Medium Feed Profile Insert



★ Preferred ☆ Alternative

P	☆	☆	★		☆	☆
M			★			☆
K		☆	☆		★	☆
S			★			☆

Order No.	Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
		CW±0.05	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C100-MR	C	2.00	1.00	20.6	1.60	4.45	●	○	●		●	●
GTD300D150-MR	D	3.00	1.50	20.7	2.00	4.53	●	●	●		●	●
GTD318D159-MR		3.18	1.59	20.7	2.00	4.53	●	○	●		●	●
GTD400E200-MR	E	4.00	2.00	20.0	2.30	4.58	●	●	●		●	●
GTD400F200-MR	F	4.00	2.00	25.7	3.20	4.50	●	●	●		●	●
GTD475F238-MR		4.75	2.38	25.7	3.20	4.50			●		●	
GTD500F250-MR		5.00	2.50	25.7	3.20	4.50	●	●	●		●	●
GTD600G300-MR	G	6.00	3.00	25.7	4.20	4.58	●	●	●		●	●
GTD635G318-MR		6.35	3.18	25.7	4.20	4.58			●		●	
GTD800J400-MR	J	8.00	4.00	32.1	6.25	6.39	●	●	●		●	●

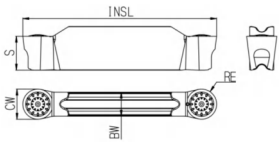
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GT Series

OR

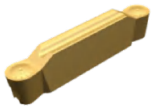
Specific Optimized Profile Insert



★ Preferred ☆ Alternative

P	☆		★			☆
M			★			☆
K			☆			★
S			★			☆

Order No.	Tool Apron Code SSC	Dimensions (mm)					Coated Cemented Carbide					
		CW±0.02	RE±0.05	INSL	BW	S	GM1230	GP1120	GST7135	GAT7125	GK1115	GST7115
GTD200C100-OR	C	2.00	1.00	20.6	1.60	4.45	●		●			●
GTD239C120-OR	C	2.39	1.20	20.6	1.60	4.45			●			
GTD300D150-OR	D	3.00	1.50	20.7	2.00	4.53	●		●			●
GTD318D159-OR	D	3.18	1.59	20.7	2.00	4.53			●			●
GTD396F198-OR	F	3.96	1.98	25.7	3.20	4.50			●			
GTD400F200-OR	F	4.00	2.00	25.7	3.20	4.50	●		●			●
GTD450F225-OR	F	4.50	2.25	25.7	3.20	4.50			●			
GTD475F238-OR	F	4.75	2.38	25.7	3.20	4.50			●			●
GTD500F250-OR	F	5.00	2.50	25.7	3.20	4.50	●		●			●
GTD600G300-OR	G	6.00	3.00	25.7	4.20	4.58	●		●			●
GTD635G318-OR	G	6.35	3.18	25.7	4.20	4.58			●			
GTD714H357-OR	H	7.14	3.57	25.0	5.20	4.67			●			
GTD800J400-OR	J	8.00	4.00	32.1	6.25	6.39	●		●			●



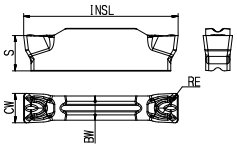
◎ Suitable tool holder. See P234-P243

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GK Series

MT

Medium Feed Turning Insert



★ Preferred ☆ Alternative

P	☆	★		☆	☆
M				★	
K				☆	★
S				★	

Order No.	Dimensions (mm)					Coated Cemented Carbide				
	CW±0.05	RE±0.05	INSL	BW	S	GP1105	GP1225	GA4230	GA4330	GK1115
GKD2002-MT	2.00	0.20	16.1	1.60	3.50	●	●	●	●	●
GKD2502-MT	2.50	0.20	18.6	2.00	3.85	●	●	●	●	●
GKD3004-MT	3.00	0.40	21.2	2.35	4.80	●	●	●	●	●
GKD4004-MT	4.00	0.40	21.0	3.30	4.80	●	●	●	●	●
GKD5004-MT	5.00	0.40	26.0	4.10	5.80	●	●	●	●	●
GKD5008-MT	5.00	0.80	26.0	4.10	5.80	●	●	●	●	●
GKD6004-MT	6.00	0.40	26.0	5.00	5.80	○	●	●	●	●
GKD6008-MT	6.00	0.80	26.0	5.00	5.80	○	●	●	●	●
GKD8008-MT	8.00	0.80	31.0	6.00	6.50	○	●	○	●	●

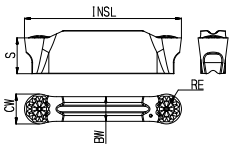
◎ Suitable tool holder. See P244-P248

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GK Series

MR

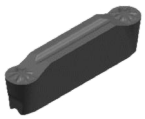
Medium Feed Profile Insert



★ Preferred ☆ Alternative

P	☆	★	☆		☆
M			★		
K			☆		★
S			★		

Order No.	Dimensions (mm)					Coated Cemented Carbide				
	CW±0.05	RE±0.05	INSL	BW	S	GP1105	GP1225	GA4230	GA4330	GK1115
GKD2010-MR	2.00	1.00	16.0	1.60	3.50	●	●	●		●
GKD3015-MR	3.00	1.50	21.2	2.35	4.80	●	●	●		●
GKD4020-MR	4.00	2.00	21.0	3.30	4.80	●	●	●		●
GKD5025-MR	5.00	2.50	26.0	4.10	5.80	●	●	●		●
GKD6030-MR	6.00	3.00	25.9	5.00	5.80	●	●	●		●
GKD8040-MR	8.00	4.00	31.0	6.00	6.50	●	●	●		●



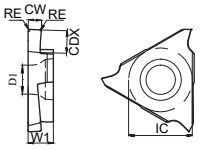
◎ Suitable tool holder. See P244-P248

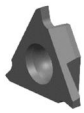
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GB Series

GB

Precision Grooving Insert



Order No.		Dimensions (mm)						Coated Cemented Carbide
		CW±0.025	RE	CDX	IC	W1	D1	GA4230
	GB3033R-005	0.33	0.05	1.0	9.525	3.18	4.4	●
	GB3050R-005	0.50	0.05	1.0	9.525	3.18	4.4	●
	GB3050L-005	0.50	0.05	1.0	9.525	3.18	4.4	●
	GB3075R-010	0.75	0.1	2.0	9.525	3.18	4.4	●
	GB3075L-010	0.75	0.1	2.0	9.525	3.18	4.4	●
	GB3080R-005	0.80	0.05	2.0	9.525	3.18	4.4	●
	GB3080L-005	0.80	0.05	2.0	9.525	3.18	4.4	●
	GB3095R-005	0.95	0.05	2.0	9.525	3.18	4.4	●
	GB3095R-010	0.95	0.1	2.0	9.525	3.18	4.4	●
	GB3100R-005	1.00	0.05	2.0	9.525	3.18	4.4	●
	GB3100R-010	1.00	0.1	2.0	9.525	3.18	4.4	●
	GB3120R-010	1.20	0.1	2.0	9.525	3.18	4.4	●
	GB3120L-010	1.20	0.1	2.0	9.525	3.18	4.4	●
	GB3120R-020	1.20	0.2	2.0	9.525	3.18	4.4	●
	GB3125R-010	1.25	0.1	2.0	9.525	3.18	4.4	●
	GB3125L-010	1.25	0.1	2.0	9.525	3.18	4.4	●
	GB3140R-010	1.40	0.1	2.0	9.525	3.18	4.4	●
	GB3140L-010	1.40	0.1	2.0	9.525	3.18	4.4	●
	GB3140R-020	1.40	0.2	2.0	9.525	3.18	4.4	●
	GB3140L-020	1.40	0.2	2.0	9.525	3.18	4.4	●
	GB3145R-010	1.45	0.1	2.0	9.525	3.18	4.4	●

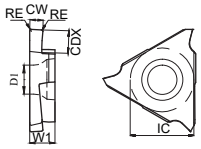
◎ Suitable tool holder. See P249-P250

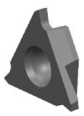
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GB Series

GB

Precision Grooving Insert



Order No.		Dimensions (mm)						Coated Cemented Carbide
		CW±0.025	RE	CDX	IC	W1	D1	GA4230
	GB3150R-010	1.50	0.1	2.0	9.525	3.18	4.4	●
	GB3150L-010	1.50	0.1	2.0	9.525	3.18	4.4	●
	GB3150R-020	1.50	0.2	2.0	9.525	3.18	4.4	●
	GB3150L-020	1.50	0.2	2.0	9.525	3.18	4.4	●
	GB3175R-010	1.75	0.1	2.0	9.525	3.18	4.4	●
	GB3175L-010	1.75	0.1	2.0	9.525	3.18	4.4	○
	GB3200R-010	2.00	0.1	2.5	9.525	3.18	4.4	●
	GB3200L-010	2.00	0.1	2.5	9.525	3.18	4.4	●
	GB3200R-020	2.00	0.2	2.5	9.525	3.18	4.4	●
	GB3200L-020	2.00	0.2	2.5	9.525	3.18	4.4	●
	GB3250R-010	2.50	0.1	2.5	9.525	3.18	4.4	●
	GB3250L-010	2.50	0.1	2.5	9.525	3.18	4.4	●
	GB3250R-020	2.50	0.2	2.5	9.525	3.18	4.4	●
	GB3250L-020	2.50	0.2	2.5	9.525	3.18	4.4	●
	GB3300R-020	3.00	0.2	2.5	9.525	3.18	4.4	●
	GB3300L-020	3.00	0.2	2.5	9.525	3.18	4.4	●

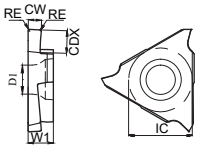
◎ Suitable tool holder. See P249-P250

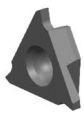
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GB Series

GB

Precision Grooving Insert



Order No.		Dimensions (mm)						Coated Cemented Carbide
		CW±0.025	RE	CDX	IC	W1	D1	GA4230
	GB4085R-020	0.85	0.2	2.1	12.7	4.76	5.5	○
	GB4125R-020	1.25	0.2	2.0	12.7	4.76	5.5	●
	GB4125L-020	1.25	0.2	2.0	12.7	4.76	5.5	●
	GB4140L-020	1.40	0.2	3.5	12.7	4.76	5.5	○
	GB4150R-010	1.50	0.1	3.5	12.7	4.76	5.5	●
	GB4150R-020	1.50	0.2	3.5	12.7	4.76	5.5	●
	GB4150L-020	1.50	0.2	3.5	12.7	4.76	5.5	●
	GB4175L-010	1.75	0.1	3.5	12.7	4.76	5.5	○
	GB4175R-020	1.75	0.2	3.5	12.7	4.76	5.5	●
	GB4185R-020	1.85	0.2	3.5	12.7	4.76	5.5	○
	GB4185L-020	1.85	0.2	3.8	12.7	4.76	5.5	○
	GB4200R-005	2.00	0.05	3.8	12.7	4.76	5.5	○
	GB4200R-010	2.00	0.1	3.8	12.7	4.76	5.5	○
	GB4200R-020	2.00	0.2	3.5	12.7	4.76	5.5	●
	GB4200L-020	2.00	0.2	3.5	12.7	4.76	5.5	●
	GB4200R-030	2.00	0.3	3.5	12.7	4.76	5.5	●
	GB4200R-050	2.00	0.5	3.8	12.7	4.76	5.5	○

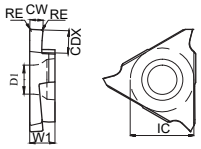
◎ Suitable tool holder. See P249-P250

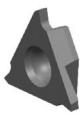
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GB Series

GB

Precision Grooving Insert



Order No.		Dimensions (mm)						Coated Cemented Carbide
		CW±0.025	RE	CDX	IC	W1	D1	GA4230
	GB4210R-050	2.10	0.5	4.0	12.7	4.76	5.5	●
	GB4220R-030	2.20	0.3	4.0	12.7	4.76	5.5	●
	GB4235R-050	2.35	0.5	4.2	12.7	4.76	5.5	○
	GB4240R-050	2.40	0.5	4.3	12.7	4.76	5.5	●
	GB4250R-030	2.50	0.3	4.0	12.7	4.76	5.5	●
	GB4250L-030	2.50	0.3	4.0	12.7	4.76	5.5	●
	GB4265R-030	2.65	0.3	4.0	12.7	4.76	5.5	●
	GB4300R-030	3.00	0.3	4.0	12.7	4.76	5.5	●
	GB4300L-030	3.00	0.3	4.0	12.7	4.76	5.5	●
	GB4330R-030	3.30	0.3	5.2	12.7	4.76	5.5	○
	GB4350R-030	3.50	0.3	5.2	12.7	4.76	5.5	●
	GB4350L-030	3.50	0.3	5.2	12.7	4.76	5.5	●
	GB4400R-020	4.00	0.2	5.2	12.7	4.76	5.5	○
	GB4400R-040	4.00	0.4	5.2	12.7	4.76	5.5	●
	GB4400L-040	4.00	0.4	5.2	12.7	4.76	5.5	●
	GB4430R-040	4.30	0.4	5.2	12.7	4.76	5.5	○

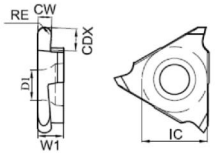
◎ Suitable tool holder. See P249-P250

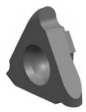
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GB Series

GBR

Precision Profile Insert



Order No.		Dimensions (mm)						Coated Cemented Carbide
		CW±0.025	RE	CDX	IC	W1	D1	GA4230
	GBR4100R-050	1.00	0.5	2.0	12.7	4.76	5.5	●
	GBR4100L-050	1.00	0.5	2.0	12.7	4.76	5.5	○
	GBR4150R-075	1.50	0.75	3.5	12.7	4.76	5.5	●
	GBR4150L-075	1.50	0.75	3.5	12.7	4.76	5.5	●
	GBR4200R-100	2.00	1.0	3.5	12.7	4.76	5.5	●
	GBR4200L-100	2.00	1.0	3.5	12.7	4.76	5.5	●
	GBR4250R-125	2.50	1.25	4.0	12.7	4.76	5.5	○
	GBR4250L-125	2.50	1.25	4.0	12.7	4.76	5.5	○
	GBR4300R-150	3.00	1.5	4.0	12.7	4.76	5.5	○
	GBR4300L-150	3.00	1.5	4.0	12.7	4.76	5.5	○
	GBR4400R-200	4.00	2.0	5.0	12.7	4.76	5.5	●
	GBR4400L-200	4.00	2.0	5.0	12.7	4.76	5.5	●

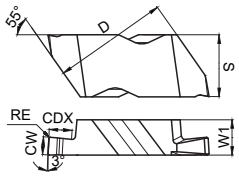
◎ Suitable tool holder. See P249-P250

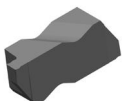
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GN Series

GNGP

Precision Grooving Insert (Positive Rake Angle)



Order No.		Insert Specifications	Dimensions (mm)						Coated Cemented Carbide		
			CW±0.025	RE	CDX	S	W1	D	GST7115	GST7135	GM3225
	GNGP2M050R	2	0.50	0.09	0.64	5.56	3.81	8.74	●	○	
	GNGP2M050L	2	0.50	0.09	0.64	5.56	3.81	8.74	●	○	
	GNGP2031R	2	0.79	0.09	1.27	5.56	3.81	8.74			●
	GNGP2031L	2	0.79	0.09	1.27	5.56	3.81	8.74			●
	GNGP2M080R	2	0.80	0.09	1.27	5.56	3.81	8.74	●	○	
	GNGP2M080L	2	0.80	0.09	1.27	5.56	3.81	8.74	●	○	
	GNGP2M100R	2	1.00	0.09	1.27	5.56	3.81	8.74	●	○	●
	GNGP2M100L	2	1.00	0.09	1.27	5.56	3.81	8.74			●
	GNGP2047R	2	1.19	0.09	1.27	5.56	3.81	8.74			●
	GNGP2047L	2	1.19	0.09	1.27	5.56	3.81	8.74			●
	GNGP2M120R	2	1.20	0.09	1.27	5.56	3.81	8.74	●	○	
	GNGP2M120L	2	1.20	0.09	1.27	5.56	3.81	8.74	●	○	
	GNGP2M150R	2	1.50	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M150L	2	1.50	0.19	2.79	5.56	3.81	8.74			●
	GNGP2062R	2	1.58	0.19	2.79	5.56	3.81	8.74			●
	GNGP2062L	2	1.58	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M170R	2	1.70	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M170L	2	1.70	0.19	2.79	5.56	3.81	8.74			●
	GNGP2070L	2	1.78	0.19	2.79	5.56	3.81	8.74			●
	GNGP2078R	2	1.98	0.19	2.79	5.56	3.81	8.74			●
	GNGP2078L	2	1.98	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M200R	2	2.00	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M200L	2	2.00	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M220R	2	2.20	0.19	2.79	5.56	3.81	8.74			●
	GNGP2M220L	2	2.20	0.19	2.79	5.56	3.81	8.74			●
	GNGP2094R	2	2.38	0.19	2.79	5.56	3.81	8.74			●
	GNGP2094L	2	2.38	0.19	2.79	5.56	3.81	8.74			○
	GNGP2M250R	2	2.50	0.19	2.79	5.56	3.81	8.74			○
	GNGP2M250L	2	2.50	0.19	2.79	5.56	3.81	8.74			○
	GNGP2125R	2	3.18	0.19	2.79	5.56	3.81	8.74			●
	GNGP2125L	2	3.18	0.19	2.79	5.56	3.81	8.74			●

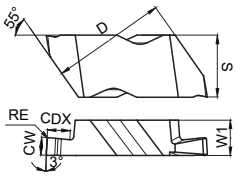
◎ Suitable tool holder. See P251-P253

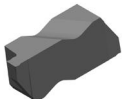
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GN Series

GNGP

Precision Grooving Insert (Positive Rake Angle)



Order No.		Insert Specifications	Dimensions (mm)						Coated Cemented Carbide		
			CW±0.025	RE	CDX	S	W1	D	GST7115	GST7135	GM3225
	GNGP3031R	3	0.79	0.09	1.27	8.74	4.95	16.10			●
	GNGP3031L	3	0.79	0.09	1.27	8.74	4.95	16.10			●
	GNGP3M100R	3	1.00	0.19	1.91	8.74	4.95	16.10			●
	GNGP3M100L	3	1.00	0.19	1.91	8.74	4.95	16.10			●
	GNGP3047R	3	1.19	0.19	1.91	8.74	4.95	16.10			●
	GNGP3047L	3	1.19	0.19	1.91	8.74	4.95	16.10			●
	GNGP3M120R	3	1.20	0.19	1.91	8.74	4.95	16.10	●	○	
	GNGP3M120L	3	1.20	0.19	1.91	8.74	4.95	16.10	●	○	
	GNGP3M150R	3	1.50	0.19	2.39	8.74	4.95	16.10	●	○	●
	GNGP3M150L	3	1.50	0.19	2.39	8.74	4.95	16.10	●	○	●
	GNGP3062R	3	1.58	0.19	2.39	8.74	4.95	16.10			●
	GNGP3062L	3	1.58	0.19	2.39	8.74	4.95	16.10			●
	GNGP3070L	3	1.78	0.19	2.39	8.74	4.95	16.10			●
	GNGP3078R	3	1.98	0.19	2.39	8.74	4.95	16.10			●
	GNGP3078L	3	1.98	0.19	2.39	8.74	4.95	16.10			●
	GNGP3M200R	3	2.00	0.19	2.39	8.74	4.95	16.10	●	○	●
	GNGP3M200L	3	2.00	0.19	2.39	8.74	4.95	16.10			●
	GNGP3094R	3	2.39	0.19	3.81	8.74	4.95	16.10			●
	GNGP3094L	3	2.39	0.19	3.81	8.74	4.95	16.10			●
	GNGP3M250R	3	2.50	0.19	3.81	8.74	4.95	16.10	●	○	●
	GNGP3M250L	3	2.50	0.19	3.81	8.74	4.95	16.10	●	○	●
	GNGP3M275R	3	2.75	0.19	3.81	8.74	4.95	16.10			●
	GNGP3M300R	3	3.00	0.19	3.81	8.74	4.95	16.10			●
	GNGP3M300L	3	3.00	0.19	3.81	8.74	4.95	16.10			○
	GNGP3125R	3	3.18	0.19	3.81	8.74	4.95	16.10			●
	GNGP3125L	3	3.18	0.19	3.81	8.74	4.95	16.10			○
	GNGP3M350R	3	3.50	0.19	3.81	8.74	4.95	16.10			○
	GNGP3M350L	3	3.50	0.19	3.81	8.74	4.95	16.10			○
	GNGP3189R	3	4.80	0.57	3.81	8.74	4.95	16.10			●
	GNGP3189L	3	4.80	0.57	3.81	8.74	4.95	16.10			●

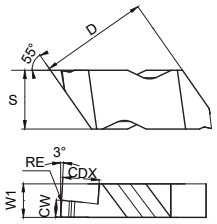
◎ Suitable tool holder. See P251-P253

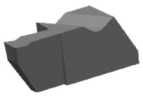
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GN Series

GNGDP

Precision Deep Grooving Insert (Positive Rake Angle)



Order No.		Insert Specifications	Dimensions (mm)						Coated Cemented Carbide		
			CW±0.025	RE	CDX	S	W1	D	GST7115	GST7135	GM3225
	GNGDP2M150R	2	1.50	0.19	4.07	5.56	3.81	10.92	●		
	GNGDP2M150L	2	1.50	0.19	4.07	5.56	3.81	10.92	●		
	GNGDP2M200R	2	2.00	0.19	5.07	5.56	3.81	10.92	●		
	GNGDP2M200L	2	2.00	0.19	5.07	5.56	3.81	10.92	●		
	GNGDP2M250L	2	2.50	0.19	5.07	5.56	3.81	10.92	●		
	GNGDP3062R	3	1.58	0.19	3.18	8.74	4.95	18.20	●		
	GNGDP3062L	3	1.58	0.19	3.18	8.74	4.95	18.20	●	○	
	GNGDP3M200L	3	2.00	0.19	4.09	8.74	4.95	18.20	●		
	GNGDP3094R	3	2.39	0.19	6.35	8.74	4.95	18.20	●	○	
	GNGDP3094L	3	2.39	0.19	6.35	8.74	4.95	18.20	●	○	
	GNGDP3M250R	3	2.50	0.19	6.35	8.74	4.95	18.20	●	○	
	GNGDP3M250L	3	2.50	0.19	6.35	8.74	4.95	18.20	●	○	
	GNGDP3M300R	3	3.00	0.19	6.35	8.74	4.95	18.20	●	●	
	GNGDP3M300L	3	3.00	0.19	6.35	8.74	4.95	18.20	●	●	
	GNGDP3125R	3	3.18	0.19	6.35	8.74	4.95	18.20			●
	GNGDP3125L	3	3.18	0.19	6.35	8.74	4.95	18.20			●
	GNGDP3189R	3	4.80	0.57	6.35	8.74	4.95	18.20			●
	GNGDP3189L	3	4.80	0.57	6.35	8.74	4.95	18.20			●

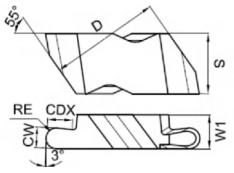
◎ Suitable tool holder. See P251-P253

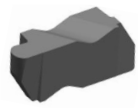
●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GN Series

GNR

Precision Profile Insert



Order No.		Insert Specifications	Dimensions (mm)						Coated Cemented Carbide		
			CW±0.025	RE	CDX	S	W1	D	GST7115	GST7135	GM3225
	GNR2M050R	2	1.00	0.50	1.27	5.56	3.81	8.74	●	○	
	GNR2M050L	2	1.00	0.50	1.27	5.56	3.81	8.74	●	●	
	GNR2M075R	2	1.50	0.75	2.79	5.56	3.81	8.74	●	●	
	GNR2M075L	2	1.50	0.75	2.79	5.56	3.81	8.74	●	●	
	GNR2M100R	2	2.00	1.00	2.79	5.56	3.81	8.74	●	●	
	GNR2M100L	2	2.00	1.00	2.79	5.56	3.81	8.74	●	●	
	GNR2M125R	2	2.50	1.25	2.79	5.56	3.81	8.74		○	
	GNR3031L	3	1.58	0.79	2.39	8.74	4.95	16.10	●	●	
	GNR3M100R	3	2.00	1.00	2.39	8.74	4.95	16.10	●	●	○
	GNR3M100L	3	2.00	1.00	2.39	8.74	4.95	16.10	●	●	●
	GNR3M150R	3	3.00	1.50	3.81	8.74	4.95	16.10	●	●	●
	GNR3M150L	3	3.00	1.50	3.81	8.74	4.95	16.10	●	●	●
	GNR3047L	3	2.39	1.19	3.81	8.74	4.95	16.10	●	●	●
	GNR3047R	3	2.39	1.19	3.81	8.74	4.95	16.10	●	●	●
	GNR3062R	3	3.18	1.59	3.81	8.74	4.95	16.10			●
	GNR3078L	3	3.96	1.98	3.81	8.74	4.95	16.10	●	●	

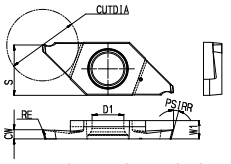
◎ Suitable tool holder. See P251-P253

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GST Series

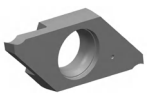
GSTC-U

Parting Off Insert (Sharp Cutting Edge)



The diagram shows the right hand

Order No.	Dimensions (mm)							Coated Cemented Carbide	
	CW±0.02	CUTDIA	RE	W1	S	D1	PSIRR	GAT7115	GAT7125
GSTC3R050N-U	0.50	5	0.03	3	8.7	5	0 °	●	○
GSTC3L050N-U	0.50	5	0.03	3	8.7	5	0 °	○	○
GSTC3R070N-U	0.70	8	0.03	3	8.7	5	0 °	●	●
GSTC3L070N-U	0.70	8	0.03	3	8.7	5	0 °	○	○
GSTC3R100N-U	1.00	12	0.03	3	8.7	5	0 °	●	●
GSTC3L100N-U	1.00	12	0.03	3	8.7	5	0 °	●	●
GSTC3R125N-U	1.25	12	0.03	3	8.7	5	0 °	○	●
GSTC3L125N-U	1.25	12	0.03	3	8.7	5	0 °	●	●
GSTC3R150N-U	1.50	12	0.03	3	8.7	5	0 °	●	●
GSTC3L150N-U	1.50	12	0.03	3	8.7	5	0 °	●	○
GSTC3R200N-U	2.00	12	0.03	3	8.7	5	0 °	●	●
GSTC3L200N-U	2.00	12	0.03	3	8.7	5	0 °	○	○
GSTC3R050R16-U	0.50	5	0.03	3	8.7	5	16 °	●	○
GSTC3L050R16-U	0.50	5	0.03	3	8.7	5	16 °	●	○
GSTC3R070R16-U	0.70	8	0.03	3	8.7	5	16 °	○	○
GSTC3L070R16-U	0.70	8	0.03	3	8.7	5	16 °	○	○
GSTC3R100R16-U	1.00	12	0.03	3	8.7	5	16 °	●	●
GSTC3L100R16-U	1.00	12	0.03	3	8.7	5	16 °	●	●
GSTC3R125R16-U	1.25	12	0.03	3	8.7	5	16 °	○	●
GSTC3L125R16-U	1.25	12	0.03	3	8.7	5	16 °	○	○
GSTC3R150R16-U	1.50	12	0.03	3	8.7	5	16 °	●	○
GSTC3L150R16-U	1.50	12	0.03	3	8.7	5	16 °	●	○
GSTC3R200R16-U	2.00	12	0.03	3	8.7	5	16 °	●	●
GSTC3L200R16-U	2.00	12	0.03	3	8.7	5	16 °	●	○



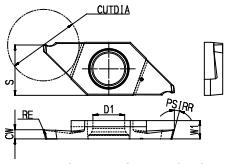
◎ Suitable tool holder. See P254-P255

●Stock ○Available Upon Order

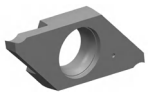
Parting Off and Grooving Inserts-GST Series

GSTC-U

Parting Off Insert (Sharp Cutting Edge)



The diagram shows the right hand

Order No.		Dimensions (mm)							Coated Cemented Carbide	
		CW±0.02	CUTDIA	RE	W1	S	D1	PSIRR	GAT7115	GAT7125
	GSTC4R150N-U	1.50	16	0.05	4	9.5	5	0 °	●	●
	GSTC4L150N-U	1.50	16	0.05	4	9.5	5	0 °	●	○
	GSTC4R200N-U	2.00	16	0.05	4	9.5	5	0 °	○	●
	GSTC4L200N-U	2.00	16	0.05	4	9.5	5	0 °	○	○
	GSTC4R150R16-U	1.50	16	0.05	4	9.5	5	16 °	●	○
	GSTC4L150R16-U	1.50	16	0.05	4	9.5	5	16 °	●	●
	GSTC4R200R16-U	2.00	16	0.05	4	9.5	5	16 °	●	○
	GSTC4L200R16-U	2.00	16	0.05	4	9.5	5	16 °	●	○

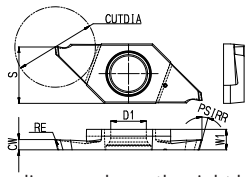
◎ Suitable tool holder. See P254-P255

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GST Series

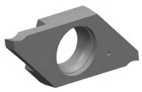
GSTC-T

Parting Off Insert (Enhanced Cutting Edge)



The diagram shows the right hand

Order No.	Dimensions (mm)							Coated Cemented Carbide	
	CW±0.02	CUTDIA	RE	W1	S	D1	PSIRR	GAT7115	GAT7125
GSTC3R100N-T	1.00	12	0.08	3	8.7	5	0 °	●	●
GSTC3L100N-T	1.00	12	0.08	3	8.7	5	0 °	●	●
GSTC3R150N-T	1.50	12	0.08	3	8.7	5	0 °	●	○
GSTC3L150N-T	1.50	12	0.08	3	8.7	5	0 °	○	●
GSTC3R200N-T	2.00	12	0.08	3	8.7	5	0 °	●	○
GSTC3L200N-T	2.00	12	0.08	3	8.7	5	0 °	○	○
GSTC3R100R16-T	1.00	12	0.08	3	8.7	5	16 °	●	●
GSTC3L100R16-T	1.00	12	0.08	3	8.7	5	16 °	○	●
GSTC3R150R16-T	1.50	12	0.08	3	8.7	5	16 °	●	●
GSTC3L150R16-T	1.50	12	0.08	3	8.7	5	16 °	○	○
GSTC3R200R16-T	2.00	12	0.08	3	8.7	5	16 °	●	○
GSTC3L200R16-T	2.00	12	0.08	3	8.7	5	16 °	○	○
GSTC4R150N-T	1.50	16	0.08	4	9.5	5	0 °	●	○
GSTC4L150N-T	1.50	16	0.08	4	9.5	5	0 °	○	○
GSTC4R200N-T	2.00	16	0.08	4	9.5	5	0 °	○	○
GSTC4L200N-T	2.00	16	0.08	4	9.5	5	0 °	○	○
GSTC4R150R16-T	1.50	16	0.08	4	9.5	5	16 °	●	○
GSTC4L150R16-T	1.50	16	0.08	4	9.5	5	16 °	●	○
GSTC4R200R16-T	2.00	16	0.08	4	9.5	5	16 °	○	●
GSTC4L200R16-T	2.00	16	0.08	4	9.5	5	16 °	○	○



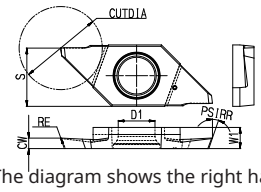
◎ Suitable tool holder. See P254-P255

●Stock ○Available Upon Order

Parting Off and Grooving Inserts-GST Series

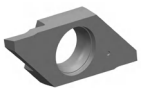
GSTC-N

Parting Off Insert (Geometry-free Sharp Tip)



The diagram shows the right hand

Order No.	Dimensions (mm)							Coated Cemented Carbide	
	CW±0.02	CUTDIA	RE	W1	S	D1	PSIRR	GAT7115	GAT7125
GSTC3R050N-N	0.50	5	0	3	8.7	5	0 °	○	○
GSTC3L050N-N	0.50	5	0	3	8.7	5	0 °	○	○
GSTC3R070N-N	0.70	8	0	3	8.7	5	0 °	○	○
GSTC3L070N-N	0.70	8	0	3	8.7	5	0 °	●	●
GSTC3R100N-N	1.00	12	0	3	8.7	5	0 °	○	●
GSTC3L100N-N	1.00	12	0	3	8.7	5	0 °	●	○
GSTC3R150N-N	1.50	12	0	3	8.7	5	0 °	○	○
GSTC3L150N-N	1.50	12	0	3	8.7	5	0 °	○	○
GSTC3R200N-N	2.00	12	0	3	8.7	5	0 °	○	○
GSTC3L200N-N	2.00	12	0	3	8.7	5	0 °	○	○
GSTC3R050R20-N	0.50	5	0	3	8.7	5	20 °	○	○
GSTC3L050R20-N	0.50	5	0	3	8.7	5	20 °	○	○
GSTC3R070R20-N	0.70	8	0	3	8.7	5	20 °	○	○
GSTC3L070R20-N	0.70	8	0	3	8.7	5	20 °	○	○
GSTC3R100R20-N	1.00	12	0	3	8.7	5	20 °	○	○
GSTC3L100R20-N	1.00	12	0	3	8.7	5	20 °	○	○
GSTC3R150R20-N	1.50	12	0	3	8.7	5	20 °	○	○
GSTC3L150R20-N	1.50	12	0	3	8.7	5	20 °	○	●
GSTC3R200R20-N	2.00	12	0	3	8.7	5	20 °	○	○
GSTC3L200R20-N	2.00	12	0	3	8.7	5	20 °	○	○



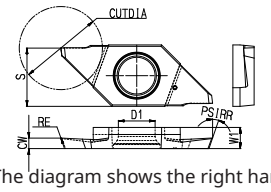
◎ Suitable tool holder. See P254-P255

●Stock ○Available Upon Order

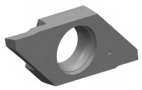
Parting Off and Grooving Inserts-GST Series

GSTC-N

Parting Off Insert (Geometry-free Sharp Tip)



The diagram shows the right hand

Order No.		Dimensions (mm)							Coated Cemented Carbide	
		CW±0.02	CUTDIA	RE	W1	S	D1	PSIRR	GAT7115	GAT7125
	GSTC4R150N-N	1.50	16	0	4	9.5	5	0 °	○	○
	GSTC4L150N-N	1.50	16	0	4	9.5	5	0 °	○	○
	GSTC4R200N-N	2.00	16	0	4	9.5	5	0 °	○	○
	GSTC4L200N-N	2.00	16	0	4	9.5	5	0 °	○	●
	GSTC4R150R20-N	1.50	16	0	4	9.5	5	20 °	○	○
	GSTC4L150R20-N	1.50	16	0	4	9.5	5	20 °	○	○
	GSTC4R200R20-N	2.00	16	0	4	9.5	5	20 °	○	○
	GSTC4L200R20-N	2.00	16	0	4	9.5	5	20 °	○	○

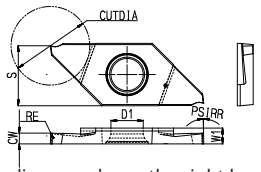
◎ Suitable tool holder. See P254-P255

●Stock ○Available Upon Order

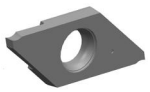
Parting Off and Grooving Inserts-GST Series

GSTS-U

Parting Off Insert-used for Sub-spindle (Sharp Cutting Edge)



The diagram shows the right hand

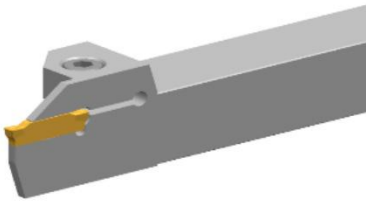
Order No.		Dimensions (mm)							Coated Cemented Carbide	
		CW±0.02	CUTDIA	RE	W1	S	D1	PSIRR	GAT7115	GAT7125
	GSTSA2R100N-U	1.00	6	0.05	2.2	8.7	4.4	0 °	○	○
	GSTSA2L100N-U	1.00	6	0.05	2.2	8.7	4.4	0 °	●	●
	GSTSA2R150N-U	1.50	9	0.05	2.2	8.7	4.4	0 °	○	●
	GSTSA2L150N-U	1.50	9	0.05	2.2	8.7	4.4	0 °	●	○
	GSTSA2R200N-U	2.00	12	0.05	2.2	8.7	4.4	0 °	○	○
	GSTSA2L200N-U	2.00	12	0.05	2.2	8.7	4.4	0 °	○	○
	GSTSB2R150N-U	1.50	14	0.05	2.2	9.5	4.4	0 °	●	○
	GSTSB2L150N-U	1.50	14	0.05	2.2	9.5	4.4	0 °	○	○
	GSTSB2R200N-U	2.00	16	0.05	2.2	9.5	4.4	0 °	○	○
	GSTSB2L200N-U	2.00	16	0.05	2.2	9.5	4.4	0 °	○	○

◎ Suitable tool holder. See P256

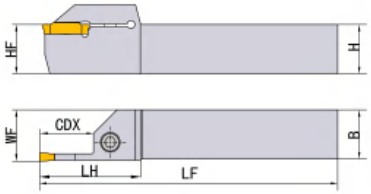
●Stock ○Available Upon Order

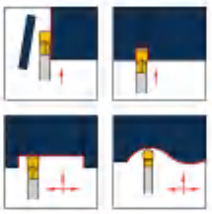
Parting Off and Grooving Tool Holders-GT Series

External Diameter Tool Holder



The diagram shows the right hand



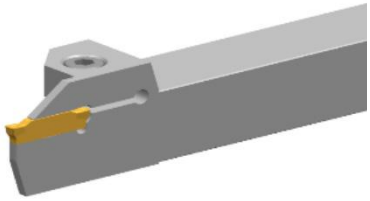


Order No.	Tool Apron Code SSC	Dimensions (mm)						Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	LF	LH	WF					R	L
GTER/L1616H-B08	B	16	16	8	100	29	17	SCAM050160H	TH40LH	3.0	0.38	●	●
GTER/L1616H-B15		16	16	15	100	36.5	17	SCAM050160H	TH40LH	3.5	0.18	●	●
GTER/L2020K-B08		20	20	8	125	29	21	SCAM050200H	TH40LH	3.0	0.38	●	●
GTER/L2020K-B15		20	20	15	125	36.5	21	SCAM050200H	TH40LH	3.5	0.36	●	●
GTER/L2525M-B08		25	25	8	150	29	26	SCAM060200H	TH50LH	4.5	0.70	●	●
GTER/L2525M-B15		25	25	15	150	36.5	26	SCAM060200H	TH50LH	4.5	0.67	●	●
GTER/L1616H-C08	C	16	16	8	100	29	17	SCAM050160H	TH40LH	3.0	0.38	●	●
GTER/L1616H-C15		16	16	15	100	36.5	17	SCAM050160H	TH40LH	4.0	0.18	●	●
GTER/L2020K-C08		20	20	8	125	29	21	SCAM050200H	TH40LH	4.0	0.36	●	●
GTER/L2020K-C15		20	20	15	125	36.5	21	SCAM050200H	TH40LH	3.0	0.38	●	●
GTER/L2020K-C17		20	20	17	125	44.8	21	SCAM050200H	TH40LH	4.0	0.37	●	●
GTER/L2525M-C08		25	25	8	150	29	26	SCAM060200H	TH50LH	4.5	0.71	●	●
GTER/L2525M-C15		25	25	15	150	36.5	26	SCAM060200H	TH50LH	4.5	0.68	●	●
GTER/L1616H-D10	D	16	16	10	100	32	17	SCAM050160H	TH40LH	3.0	0.37	●	●
GTER/L1616H-D20		16	16	20	100	44.8	17	SCAM050160H	TH40LH	4.0	0.18	●	●
GTER/L2020K-D10		20	20	10	125	32	21	SCAM050200H	TH40LH	3.0	0.37	●	●
GTER/L2020K-D20		20	20	20	125	44.8	21	SCAM050200H	TH40LH	4.0	0.35	●	●
GTER/L2525M-D10		25	25	10	150	32	26	SCAM060200H	TH50LH	4.5	0.70	●	●
GTER/L2525M-D20		25	25	20	150	44.8	26	SCAM060200H	TH50LH	4.5	0.66	●	●
GTER/L3225P-D20		32	25	20	170	44.8	26	SCAM060200H	TH50LH	4.5	0.96	●	○
GTER/L3232P-D20		32	32	20	170	44.8	33	SCAM060200H	TH50LH	4.5	1.23	●	●
GTER/L1616H-E10	E	16	16	10	100	32	17	SCAM050160H	TH40LH	4.0	0.18	●	●
GTER/L1616H-E20		16	16	20	100	44.8	17	SCAM050160H	TH40LH	3.5	0.37	●	●
GTER/L2020K-E10		20	20	10	125	32	21	SCAM050200H	TH40LH	3.5	0.38	●	●

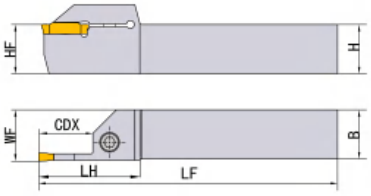
●Stock ○Available Upon Order

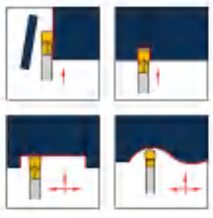
Parting Off and Grooving Tool Holders-GT Series

External Diameter Tool Holder



The diagram shows the right hand



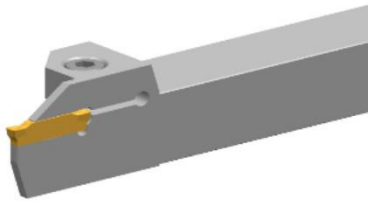


Order No.	Tool Apron Code SSC	Dimensions (mm)						Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	LF	LH	WF					R	L
GTER/L2020K-E20	E	20	20	20	125	44.8	21	SCAM050200H	TH40LH	4.0	0.35	●	●
GTER/L2525M-E10		25	25	10	150	32	26	SCAM060200H	TH50LH	4.0	0.70	●	●
GTER/L2525M-E20		25	25	20	150	44.8	26	SCAM060200H	TH50LH	4.5	0.65	●	●
GTER/L3225P-E10		32	25	10	170	32	26	SCAM060200H	TH50LH	4.5	1.22	○	○
GTER/L3225P-E20		32	25	20	170	44.8	26	SCAM060200H	TH50LH	4.0	1.31	○	○
GTER/L3232P-E10		32	32	10	170	32	33	SCAM060200H	TH50LH	4.0	1.00	●	○
GTER/L3232P-E20		32	32	20	170	44.8	33	SCAM060200H	TH50LH	4.5	0.95	●	●
GTER/L1616H-F13	F	16	16	13	100	36.5	17	SCAM050160H	TH40LH	4.0	0.19	●	●
GTER/L1616H-F25		16	16	25	100	47	17	SCAM050160H	TH40LH	4.5	0.17	○	○
GTER/L2020K-F13		20	20	13	125	36.5	21	SCAM050200H	TH40LH	4.0	0.37	●	●
GTER/L2020K-F25		20	20	25	125	47	21	SCAM050200H	TH40LH	4.5	0.33	●	●
GTER/L2525M-F13		25	25	13	150	36.5	26	SCAM060200H	TH50LH	4.0	0.67	●	●
GTER/L2525M-F20		25	25	20	150	44.8	26	SCAM060200H	TH50LH	4.5	0.65	○	○
GTER/L2525M-F25		25	25	25	150	47	26	SCAM060200H	TH50LH	4.5	0.65	●	●
GTER/L3225P-F13		32	25	13	170	36.5	26	SCAM060200H	TH50LH	4.5	1.17	○	○
GTER/L3225P-F25		32	25	25	170	47	26	SCAM060200H	TH50LH	4.0	1.28	○	○
GTER/L3232P-F13		32	32	13	170	36.5	33	SCAM060200H	TH50LH	4.0	0.99	●	●
GTER/L3232P-F25		32	32	25	170	47	33	SCAM060200H	TH50LH	4.5	0.92	●	●
GTER/L2020K-G13	G	20	20	13	125	36.5	21	SCAM050200H	TH40LH	4.5	0.37	●	●
GTER/L2020K-G22		20	20	22	125	44.8	21	SCAM050200H	TH40LH	4.5	0.35	●	●
GTER/L2525M-G13		25	25	13	150	36.5	26	SCAM060200H	TH50LH	4.5	0.70	●	●
GTER/L2525M-G22		25	25	22	150	44	26	SCAM060200H	TH50LH	4.5	0.64	●	●
GTER/L2525M-G25		25	25	25	150	47	26	SCAM060200H	TH50LH	4.5	0.63	●	●
GTER/L2525M-G32		25	25	32	150	54.8	26	SCAM060200H	TH50LH	4.5	0.13	●	●

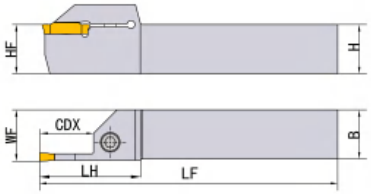
●Stock ○Available Upon Order

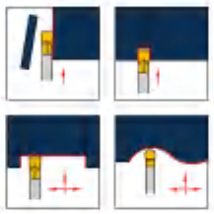
Parting Off and Grooving Tool Holders-GT Series

External Diameter Tool Holder



The diagram shows the right hand





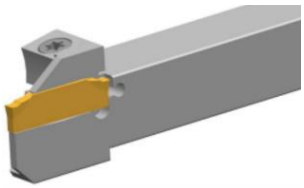
Order No.	Tool Apron Code SSC	Dimensions (mm)						Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	LF	LH	WF					R	L
GTER/L3225P-G13	G	32	25	13	170	36.5	26	SCAM060200H	TH50LH	4.5	1.00	●	○
GTER/L3225P-G32		32	25	32	170	54.8	26	SCAM060200H	TH50LH	4.5	0.91	●	○
GTER/L3232P-G13		32	32	13	170	36.5	33	SCAM060200H	TH50LH	4.5	1.29	●	●
GTER/L3232P-G25		32	32	25	170	47	33	SCAM060200H	TH50LH	4.5	1.20	●	●
GTER/L3232P-G32		32	32	32	170	54.8	33	SCAM060200H	TH50LH	4.5	1.16	●	●
GTER/L2525M-H16	H	25	25	16	150	44.8	26	SCAM060200H	TH50LH	4.5	0.68	●	●
GTER/L2525M-H25		25	25	25	150	47	26	SCAM060200H	TH50LH	4.5	0.64	●	●
GTER/L2525M-H32		25	25	32	150	54.8	26	SCAM060200H	TH50LH	4.5	0.61	●	●
GTER/L3225P-H16		32	25	16	170	44.8	26	SCAM060200H	TH50LH	4.5	1.00	●	○
GTER/L3225P-H32		32	25	32	170	54.8	26	SCAM060200H	TH50LH	4.5	0.91	●	○
GTER/L3232P-H16		32	32	16	170	44.8	33	SCAM060200H	TH50LH	4.5	1.28	●	●
GTER/L3232P-H25		32	32	25	170	47	33	SCAM060200H	TH50LH	4.5	1.20	●	●
GTER/L3232P-H32		32	32	32	170	54.8	33	SCAM060200H	TH50LH	4.5	1.15	●	●
GTER/L2525M-J16	J	25	25	16	150	44.8	26	SCAM080260H	TH60LH	7.0	0.68	●	●
GTER/L2525M-J24		25	25	24	150	54.8	26	SCAM080260H	TH60LH	7.0	0.66	●	●
GTER/L2525M-J40		25	25	40	150	62.8	26	SCAM080260H	TH60LH	7.0	0.60	●	●
GTER/L3232P-J24		32	32	24	170	54.8	33	SCAM080260H	TH60LH	7.0	1.16	●	●
GTER/L3232P-J32		32	32	32	170	54.8	33	SCAM080260H	TH60LH	7.0	1.23	●	●
GTER/L3232P-J40		32	32	40	170	62.8	33	SCAM080260H	TH60LH	7.0	1.12	●	●

●Stock ○Available Upon Order

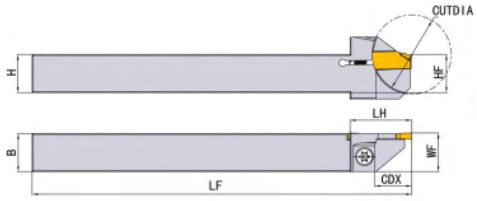
Parting Off and Grooving Tool Holders-GT Series

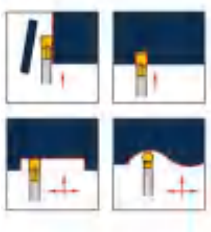
External Diameter Tool Holder

Dedicated for Automatic Lathe



The diagram shows the right hand





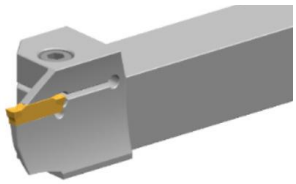
Order No.	Tool Apron Code SSC	Dimensions (mm)							Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	CUTDIA	LF	LH	WF					R	L
GTER/L1212F-BD16-S		12	12	8	16	85	19.5	12.45	SI60M040160-05718H	TT15PH	3.0	0.09	●	●
GTER/L1212JX-BD16-S		12	12	8	16	120	19.5	12.45	SI60M040160-05718H	TT15PH	3.0	0.13	●	●
GTER/L1212F-BD24-S	B	12	12	12	24	85	19.5	12.15	SI60M040160-05718H	TT15PH	3.0	0.09	●	●
GTER/L1212JX-BD24-S		12	12	12	24	120	19.5	12.15	SI60M040160-05718H	TT15PH	3.0	0.13	●	●
GTER/L1616JX-BD16-S		16	16	8	16	120	19.5	11.90	SI60M040160-05718H	TT15PH	3.0	0.24	●	●
GTER/L1010F-CD24-S		10	10	12	24	85	19.5	10.20	SI60M040160-05718H	TT15PH	3.0	0.06	●	●
GTER/L1212F-CD24-S		12	12	12	24	85	19.5	12.20	SI60M040160-05718H	TT15PH	3.0	0.09	●	●
GTER/L1212JX-CD24-S		12	12	12	24	120	19.5	12.20	SI60M040160-05718H	TT15PH	3.0	0.13	●	●
GTER/L1616JX-CD16-S	C	16	16	8	16	120	24.5	16.00	SI60M040160-05718H	TT15PH	3.0	0.22	●	●
GTER/L1616JX-CD24-S		16	16	12	24	120	24.5	16.00	SI60M040160-05718H	TT15PH	3.0	0.22	●	●
GTER/L1616JX-CD32-S		16	16	16	32	120	24.5	16.20	SI60M040160-05718H	TT15PH	3.0	0.21	●	●
GTER/L2020K-CD34-S		20	20	17	34	125	32.5	20.20	SCAM050160H①	TH40LH②	4.0	0.36	○	●
GTER/L1212F-DD24-S		12	12	12	24	85	19.5	12.25	SI60M040160-05718H	TT15PH	3.0	0.13	○	○
GTER/L1212JX-DD24-S	D	12	12	12	24	120	19.5	12.25	SI60M040160-05718H	TT15PH	3.0	0.13	●	●
GTER/L1616JX-DD32-S		16	16	16	32	120	24.5	16.25	SI60M040160-05718H	TT15PH	3.0	0.22	●	●
GTER/L1212JX-ED24-S		12	12	12	24	120	19.5	12.30	SI60M040160-05718H	TT15PH	3.0	0.13	●	●
GTER/L1616JX-ED16-S		16	16	8	16	120	24.5	16.30	SI60M040160-05718H	TT15PH	3.0	0.22	●	●
GTER/L1616JX-ED32-S		16	16	16	32	120	24.5	16.30	SI60M040160-05718H	TT15PH	3.0	0.22	●	●
GTER/L1616JX-ED34-S	E	16	16	17	34	120	24.5	16.30	SI60M040160-05718H	TT15PH	3.0	0.22	●	●
GTER/L1616JX-ED38-S		16	16	19	38	120	29	16.30	SI60M040160-05718H	TT15PH	3.0	0.22	○	○
GTER/L2012JX-ED42-S		20	12	21	42	120	31	16.30	SI60M050160-07214H	TT20PH	3.5	0.20	○	○
GTER/L2020JX-ED42-S		20	20	21	42	120	31	12.30	SI60M050160-07214H	TT20PH	3.5	0.20	●	●

① Hex socket screw ② L-wrench

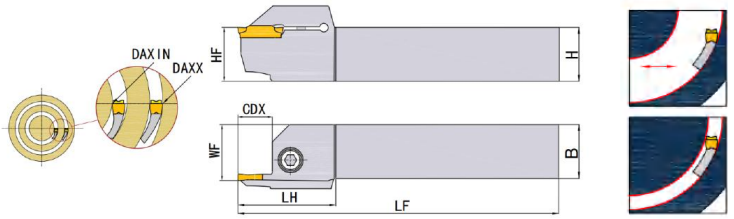
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GT Series

Face Holder-linear



The diagram shows the right hand

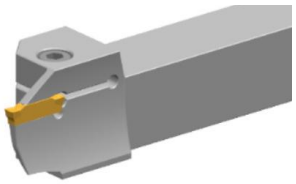


Order No.	Tool Apron Code SSC	Dimensions (mm)								Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	DAXIN	DAXX	LF	LH	WF					R	L
GTFR/L2020K-E12-D38	E	20	20	12	38	48	125	32	21	SCAM050200H	TH40LH	4.0	0.38	●	●
GTFR/L2020K-E12-D42		20	20	12	42	60	125	32	21	SCAM050200H	TH40LH	4.0	0.38	●	●
GTFR/L2020K-E12-D54		20	20	12	54	75	125	32	21	SCAM050200H	TH40LH	4.0	0.38	●	●
GTFR/L2020K-E12-D67		20	20	12	67	100	125	32	21	SCAM050200H	TH40LH	4.5	0.38	○	○
GTFR/L2020K-E12-D90		20	20	12	90	130	125	32	21	SCAM050200H	TH40LH	4.5	0.38	●	○
GTFR/L2020K-E12-D130		20	20	12	130	300	125	32	21	SCAM050200H	TH40LH	4.5	0.37	○	○
GTFR/L2525M-E18-D38		25	25	18	38	48	150	40	26	SCAM060200H	TH50LH	5.0	0.68	●	●
GTFR/L2525M-E18-D42		25	25	18	42	60	150	40	26	SCAM060200H	TH50LH	5.0	0.68	●	●
GTFR/L2525M-E18-D54		25	25	18	54	75	150	40	26	SCAM060200H	TH50LH	5.0	0.68	●	●
GTFR/L2525M-E18-D67		25	25	18	67	100	150	40	26	SCAM060200H	TH50LH	5.0	0.68	●	●
GTFR/L2525M-E18-D90		25	25	18	90	130	150	40	26	SCAM060200H	TH50LH	5.0	0.67	●	●
GTFR/L2525M-E18-D130		25	25	18	130	300	150	40	26	SCAM060200H	TH50LH	5.0	0.67	●	●
GTFR/L2020K-F12-D40	F	20	20	12	40	60	125	34	21	SCAM050200H	TH40LH	4.5	0.39	●	●
GTFR/L2020K-F12-D52		20	20	12	52	72	125	34	21	SCAM050200H	TH40LH	4.5	0.38	●	●
GTFR/L2020K-F12-D64		20	20	12	64	100	125	34	21	SCAM050200H	TH40LH	4.5	0.38	○	○
GTFR/L2020K-F12-D92		20	20	12	92	140	125	34	21	SCAM050200H	TH40LH	4.5	0.38	○	○
GTFR/L2020K-F12-D132		20	20	12	132	230	125	34	21	SCAM050200H	TH40LH	5.0	0.38	○	○
GTFR/L2020K-F12-D220		20	20	12	220	500	125	34	21	SCAM050200H	TH40LH	5.0	0.38	○	○
GTFR/L2525M-F12-D40		25	25	12	40	60	150	34	26	SCAM060200H	TH50LH	5.5	0.71	●	●
GTFR/L2525M-F12-D52		25	25	12	52	72	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-F12-D64		25	25	12	64	100	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-F12-D92		25	25	12	92	140	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-F12-D132		25	25	12	132	230	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-F12-D220		25	25	12	220	500	150	34	26	SCAM060200H	TH50LH	5.5	0.69	●	●
GTFR/L2525M-F12-D300		25	25	12	300	1100	150	34	26	SCAM060200H	TH50LH	5.5	0.69	●	●

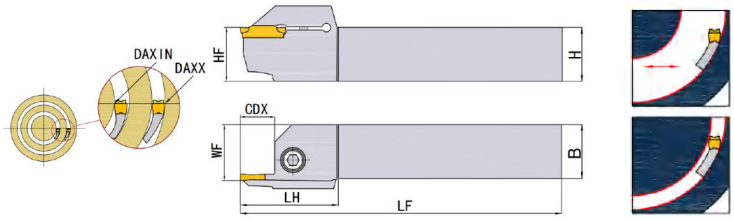
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GT Series

Face Holder-linear



The diagram shows the right hand

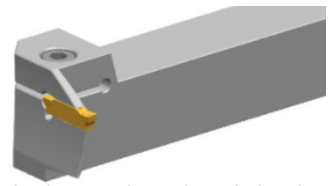


Order No.	Tool Apron Code SSC	Dimensions (mm)								Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	DAX-IN	DAXX	LF	LH	WF					R	L
GTFR/L2525M-G12-D40	G	25	25	12	40	70	150	34	26	SCAM060200H	TH50LH	5.5	0.71	●	●
GTFR/L2525M-G12-D60		25	25	12	60	95	150	34	26	SCAM060200H	TH50LH	5.5	0.71	●	●
GTFR/L2525M-G12-D85		25	25	12	85	130	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-G12-D120		25	25	12	120	180	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-G12-D175		25	25	12	175	500	150	34	26	SCAM060200H	TH50LH	5.5	0.70	●	●
GTFR/L2525M-H12-D40	H	25	25	12	40	70	150	35	26	SCAM060200H	TH50LH	5.5	0.71	●	●
GTFR/L2525M-H12-D58		25	25	12	58	100	150	35	26	SCAM060200H	TH50LH	5.5	0.71	●	●
GTFR/L2525M-H12-D88		25	25	12	88	180	150	35	26	SCAM060200H	TH50LH	6.0	0.70	●	●
GTFR/L2525M-H12-D168		25	25	12	168	400	150	35	26	SCAM060200H	TH50LH	6.0	0.70	●	●
GTFR/L2525M-J15-D75	J	25	25	15	75	115	150	39	26	SCAM080260H	TH60LH	7.0	0.70	●	●
GTFR/L2525M-J15-D110		25	25	15	110	150	150	39	26	SCAM080260H	TH60LH	7.0	0.70	●	●
GTFR/L2525M-J15-D140		25	25	15	140	1100	150	39	26	SCAM080260H	TH60LH	7.0	0.69	●	●
GTFR/L2525M-J24-D50		25	25	24	50	80	150	55	26	SCAM080260H	TH60LH	7.0	0.69	●	●
GTFR/L2525M-J24-D75		25	25	24	75	115	150	55	26	SCAM080260H	TH60LH	7.0	0.68	●	●
GTFR/L2525M-J24-D110		25	25	24	110	150	150	55	26	SCAM080260H	TH60LH	7.0	0.68	●	●
GTFR/L2525M-J24-D140		25	25	24	140	1100	150	55	26	SCAM080260H	TH60LH	7.0	0.67	●	●
GTFR/L3225P-J24-D110		32	25	24	110	150	170	55	26	SCAM080260H	TH60LH	7.0	0.98	○	○
GTFR/L3225P-J24-D140		32	25	24	140	540	170	55	26	SCAM080260H	TH60LH	7.0	1.24	●	○

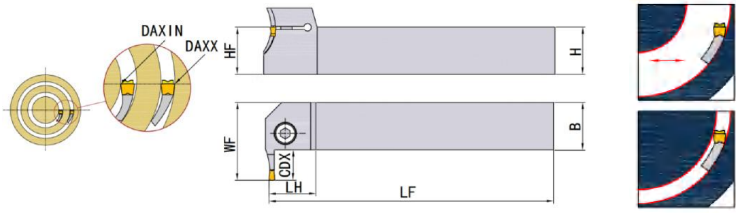
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GT Series

Face Holder-vertical



The diagram shows the right hand

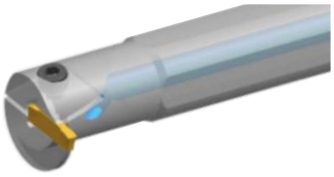


Order No.	Tool Apron Code SSC	Dimensions (mm)								Screw	Wrench	Recom-mended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	DAXIN	DAXX	LF	LH	WF					R	L
GTFPR/L2525M-E09-D70	E	25	25	9	70	100	150	24	35.5	SCAM060200H	TH50LH	5.5	0.78	●	○
GTFPR/L2525M-E09-D110		25	25	9	110	170	150	24	35.5	SCAM060200H	TH50LH	5.5	0.78	●	●
GTFPR/L2525M-F12-D40	F	25	25	12	40	60	150	24	38.5	SCAM060200H	TH50LH	5.5	0.77	●	●
GTFPR/L2525M-F12-D52		25	25	12	52	72	150	24	38.5	SCAM060200H	TH50LH	5.5	0.77	●	●
GTFPR/L2525M-F12-D64		25	25	12	64	100	150	24	38.5	SCAM060200H	TH50LH	5.5	0.77	●	●
GTFPR/L2525M-F12-D92		25	25	12	92	140	150	24	38.5	SCAM060200H	TH50LH	5.5	0.77	●	●
GTFPR/L2525M-F12-D132		25	25	12	132	230	150	24	38.5	SCAM060200H	TH50LH	5.5	0.76	●	○
GTFPR/L2525M-F12-D220		25	25	12	220	500	150	24	38.5	SCAM060200H	TH50LH	5.5	0.76	●	○
GTFPR/L2525M-F12-D300		25	25	12	300	1100	150	24	38.5	SCAM060200H	TH50LH	5.5	0.76	●	○
GTFPR/L2525M-G15-D70	G	25	25	15	70	100	150	24	41.5	SCAM060200H	TH50LH	5.5	0.79	●	○
GTFPR/L2525M-G15-D110		25	25	15	110	170	150	24	41.5	SCAM060200H	TH50LH	5.5	0.78	●	○
GTFPR/L2525M-H18-D168	H	25	25	18	168	400	150	32	44.5	SCAM060200H	TH50LH	6.0	0.78	●	○
GTFPR/L2525M-J20-D50	J	25	25	20	50	80	150	32	46.5	SCAM080260H	TH60LH	7.0	0.79	●	○
GTFPR/L2525M-J20-D75		25	25	20	75	115	150	32	46.5	SCAM080260H	TH60LH	7.0	0.78	●	○
GTFPR/L2525M-J20-D110		25	25	20	110	150	150	32	46.5	SCAM080260H	TH60LH	7.0	0.78	●	○
GTFPR/L2525M-J20-D140		25	25	20	140	630	150	32	46.5	SCAM080260H	TH60LH	7.0	0.76	●	○
GTFPR/L3225P-J20-D110		32	25	20	110	150	170	32	46.5	SCAM080260H	TH60LH	7.0	1.12	●	○
GTFPR/L3225P-J20-D140		32	25	20	140	630	170	32	46.5	SCAM080260H	TH60LH	7.0	1.10	●	○

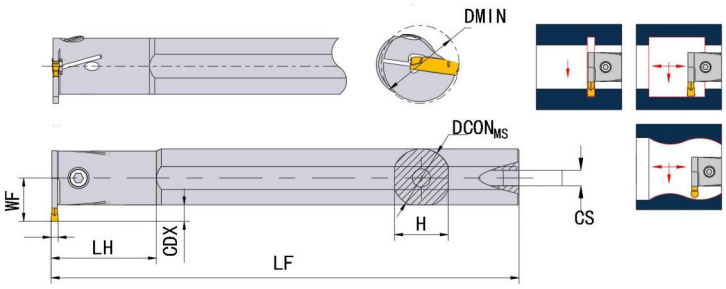
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GT Series

Tool Holder with Internal Hole



The diagram shows the right hand



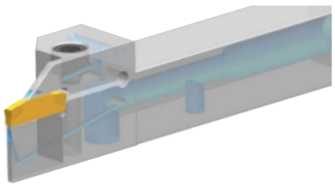
Order No.	Tool Apron Code SSC	Dimensions (mm)							Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		DMIN	$DCON_{MS}$	CDX	WF	LF	LH	H					R	L
GTIR/L3220Q-B05	B	32	20	5	15.0	180	30	18	SI60M040140-05718H①	TT15PH②	3.5	0.37	●	●
GTIR/L3220Q-C06	C	32	20	6	16.0	180	30	18	SI60M040140-05718H①	TT15PH②	3.5	0.37	●	●
GTIR/L3225R-C06		32	25	6	18.5	200	35	23	SCAM040160H	TH30LH	3.5	0.65	●	●
GTIR/L4032S-C09		40	32	9	25.0	250	45	30	SCAM040160H	TH30LH	4.0	1.40	●	●
GTIR/L3220Q-E06	E	32	20	6	16.0	180	30	18	SI60M040140-05718H①	TT15PH②	4.0	0.37	●	●
GTIR/L3225R-E09		32	25	9	21.5	200	35	23	SCAM050160H	TH40LH	4.5	0.64	●	●
GTIR/L4032S-E09		40	32	9	25.0	250	45	30	SCAM050160H	TH40LH	4.5	1.40	●	●
GTIR/L5040T-E12		50	40	12	32.0	300	55	38	SCAM050200H	TH40LH	4.5	2.61	●	●
GTIR/L3225R-F09	F	32	25	9	21.5	200	35	23	SCAM050160H	TH40LH	4.5	0.63	●	●
GTIR/L4032S-F10		40	32	10	26.0	250	45	30	SCAM060160H	TH50LH	5.0	1.39	●	●
GTIR/L5040T-F12		50	40	12	32.0	300	55	38	SCAM060200H	TH50LH	5.0	2.61	●	●
GTIR/L6050U-F13		60	50	13	38.0	350	65	48	SCAM060250H	TH50LH	5.0	4.93	●	●
GTIR/L3225R-G09	G	32	25	9	21.5	200	35	23	SCAM050160H	TH40LH	4.5	0.64	●	●
GTIR/L4032S-G11		40	32	11	27.0	250	45	30	SCAM060160H	TH50LH	5.0	1.38	●	●
GTIR/L5040T-G12		50	40	12	32.0	300	55	38	SCAM060200H	TH50LH	5.5	2.61	●	●
GTIR/L6050U-G13		60	50	13	38.0	350	65	48	SCAM060250H	TH50LH	5.5	4.93	●	●
GTIR/L5040T-H12	H	50	40	12	32.0	300	55	38	SCAM060200H	TH50LH	5.5	2.61	●	●
GTIR/L6050U-H13		60	50	13	38.0	350	65	48	SCAM060250H	TH50LH	5.5	4.93	●	●

① Torx screw ② Flag-shaped wrench

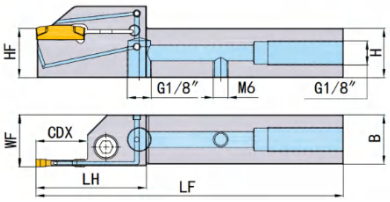
●Stock ○Available Upon Order

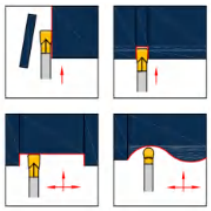
Parting Off and Grooving Tool Holders-GT Series

External Diameter Tool Holder-high-pressure Internal Cooling



The diagram shows the right hand





Order No.	Tool Apron Code SSC	Dimensions (mm)						Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	LF	LH	WF					R	L
GTER/L2020K-E20-C	E	20	20	20	125	44.8	21	SCAM050200H	TH40LH	4.0	0.32	●	●
GTER/L2525M-E20-C		25	25	20	150	44.8	26	SCAM060200H	TH50LH	4.5	0.61	●	●
GTER/L2525M-F25-C	F	25	25	25	150	47	26	SCAM060200H	TH50LH	4.5	0.59	●	●
GTER/L2525M-G25-C	G	25	25	25	150	47	26	SCAM060200H	TH50LH	4.5	0.59	●	●
GTER/L2525M-H25-C	H	25	25	25	150	47	26	SCAM060200H	TH50LH	4.5	0.60	●	●
GTER/L3232P-J24-C	J	32	32	24	170	54.8	33	SCAM060200H	TH50LH	7.0	1.19	●	●

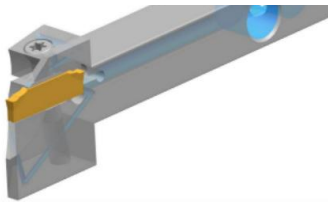
Recommended maximum cooling fluid pressure: 150bar

●Stock ○Available Upon Order

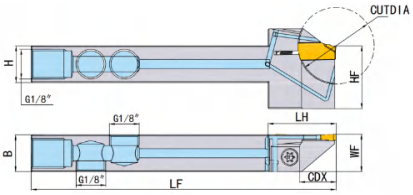
Parting Off and Grooving Tool Holders-GT Series

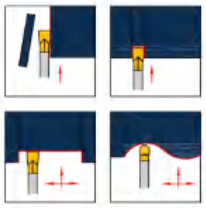
External Diameter Tool Holder-high-pressure Internal Cooling

Dedicated for Automatic Lathe



The diagram shows the right hand





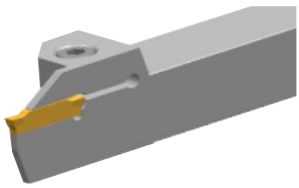
Order No.	Tool Apron Code SSC	Dimensions (mm)							Screw	Wrench	Recommended Torque (NM)	Weight (KG)	In Stock	
		H=HF	B	CDX	CUT-DIA	LF	LH	WF					R	L
GTER/L1212H-CD24-SC	C	12	12	12	24	100	22.5	12.2	SI60M040160-05718H	TT15PH	3.0	0.10	●	●
GTER/L1616H-CD32-SC		16	16	16	32	100	26.5	16.2	SI60M040160-05718H	TT15PH	3.0	0.17	●	●
GTER/L1212H-ED24-SC	E	12	12	12	24	100	22.5	12.3	SI60M040160-05718H	TT15PH	3.0	0.10	●	●
GTER/L1616H-ED32-SC		16	16	16	32	100	26.5	16.3	SI60M040160-05718H	TT15PH	3.0	0.17	●	●

Recommended maximum cooling fluid pressure: 150bar

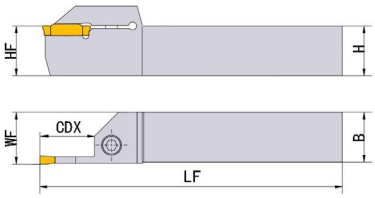
●Stock ○Available Upon Order

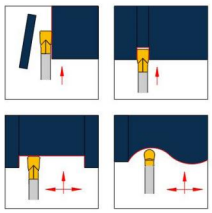
Parting Off and Grooving Tool Holders-GK Series

External Diameter Tool Holder



The diagram shows the right hand



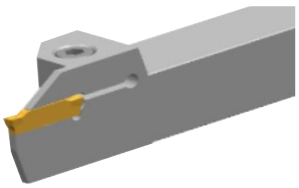


Order No.	Dimensions (mm)					Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	LF	WF					R	L
GKER/L1616-2T14	16	16	14	100	17	GKD20...	SCAM050200H	TH40LH	0.20	●	●
GKER/L2020-2T14	20	20	14	125	21		SCAM050200H	TH40LH	0.39	●	●
GKER/L2525-2T14	25	25	14	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L1616-2.5T16	16	16	16	100	17	GKD25...	SCAM050200H	TH40LH	0.20	●	○
GKER/L2020-2.5T16	20	20	16	125	21		SCAM050200H	TH40LH	0.39	●	●
GKER/L2525-2.5T16	25	25	16	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L1616-3T10	16	16	10	100	17	GKD30...	SCAM050200H	TH40LH	0.20	●	○
GKER/L1616-3T18	16	16	18	100	17		SCAM050200H	TH40LH	0.20	●	●
GKER/L2020-3T10	20	20	10	125	21		SCAM050200H	TH40LH	0.39	●	●
GKER/L2020-3T18	20	20	18	125	21		SCAM050200H	TH40LH	0.39	●	●
GKER/L2525-3T10	25	25	10	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L2525-3T18	25	25	18	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L3225-3T18	32	25	18	170	26		SCAM060250H	TH50LH	1.07	●	●
GKER/L3232-3T18	32	32	18	170	33		SCAM060250H	TH50LH	1.37	●	●
GKER/L2020-4T10	20	20	10	125	21	GKD40...	SCAM050200H	TH40LH	0.39	●	●
GKER/L2020-4T18	20	20	18	125	21		SCAM050200H	TH40LH	0.39	●	●
GKER/L2525-4T10	25	25	10	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L2525-4T18	25	25	18	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L3225-4T18	32	25	18	170	26		SCAM060250H	TH50LH	1.07	●	●
GKER/L3232-4T18	32	32	18	170	33		SCAM060250H	TH50LH	1.37	●	●
GKER/L2020-5T15	20	20	15	125	21	GKD50...	SCAM050200H	TH40LH	0.39	○	○
GKER/L2020-5T23	20	20	23	125	21		SCAM050200H	TH40LH	0.39	●	●
GKER/L2525-5T15	25	25	15	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L2525-5T23	25	25	23	150	26		SCAM060250H	TH50LH	0.74	●	●

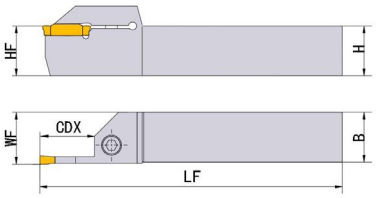
●Stock ○Available Upon Order

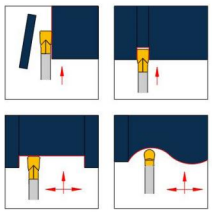
Parting Off and Grooving Tool Holders-GK Series

External Diameter Tool Holder



The diagram shows the right hand





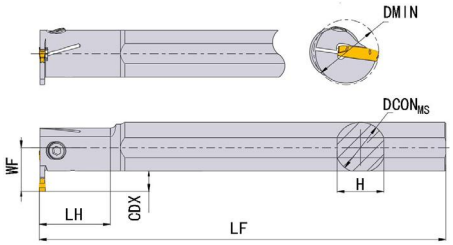
Order No.	Dimensions (mm)					Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	LF	WF					R	L
GKER/L3225-5T23	32	25	23	170	26	GKD50...	SCAM060250H	TH50LH	1.07	●	●
GKER/L3232-5T15	32	32	15	170	33		SCAM060250H	TH50LH	1.37	●	●
GKER/L3232-5T23	32	32	23	170	33		SCAM060250H	TH50LH	1.37	●	●
GKER/L2020-6T23	20	20	23	125	21	GKD60...	SCAM050200H	TH40LH	0.39	●	○
GKER/L2525-6T15	25	25	15	150	26		SCAM060250H	TH50LH	1.37	●	●
GKER/L2525-6T23	25	25	23	150	26		SCAM060250H	TH50LH	0.74	●	●
GKER/L3225-6T23	32	25	23	170	26		SCAM060250H	TH50LH	1.07	●	●
GKER/L3232-6T23	32	32	23	170	33		SCAM050200H	TH50LH	1.37	●	●
GKER/L2525-8T15	25	25	15	150	26.5	GKD80...	SCAM060250H	TH50LH	0.74	○	○
GKER/L2525-8T28	25	25	28	150	26.5		SCAM060250H	TH50LH	0.74	●	○
GKER/L3232-8T28	32	32	28	170	33.5		SCAM060250H	TH50LH	1.37	●	●

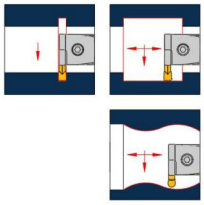
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GK Series

Tool Holder with Internal Hole

The diagram shows the right hand



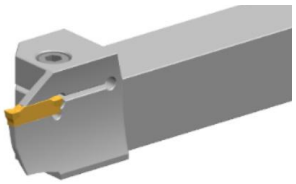


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN	$DCON_{MS}$	CDX	WF	LF	LH	H					R	L
GKIR/L2016-2T04	20	16	4	12	125	35	15	GKD20...	SCAM040100H	TH30LH	0.20	●	●
GKIR/L2520-2T05	25	20	5	14.5	150	45	18		SCAM040160H	TH30LH	0.37	●	●
GKIR/L2925-2T05	29	25	5	17	200	45	23		SCAM050200H	TH40LH	0.77	●	●
GKIR/L2520-2.5T05	25	20	5	14.5	150	45	18	GKD25...	SCAM040160H	TH30LH	0.37	●	○
GKIR/L2925-2.5T05	29	25	5	17	200	45	23		SCAM050200H	TH40LH	0.77	●	●
GKIR/L2520-3T06	25	20	6	15.5	150	45	18	GKD30...	SCAM040160H	TH30LH	0.37	●	●
GKIR/L3125-3T06	31	25	6	18.5	200	45	23		SCAM050200H	TH40LH	0.77	●	●
GKIR/L3732-3T06	37	32	6	21.5	250	65	30		SCAM050200H	TH40LH	1.58	●	●
GKIR/L2520-4T06	25	20	6	15.5	150	45	18	GKD40...	SCAM040160H	TH30LH	0.37	●	●
GKIR/L3125-4T06	31	25	6	18.5	200	45	23		SCAM050200H	TH40LH	0.77	●	●
GKIR/L3732-4T06	37	32	6	21.5	250	65	30		SCAM050200H	TH40LH	1.58	●	●
GKIR/L3125-5T08	31	25	8	19.5	200	45	23	GKD50...	SCAM050200H	TH40LH	0.77	●	●
GKIR/L3732-5T08	37	32	8	21.5	250	65	30		SCAM050200H	TH40LH	1.58	●	●
GKIR/L3125-6T08	31	25	8	19.5	200	45	23	GKD60...	SCAM050200H	TH40LH	0.77	●	○
GKIR/L3732-6T08	37	32	8	21.5	250	65	30		SCAM050200H	TH40LH	1.58	●	●
GKIR/L3732-8T10	37	32	10	23.4	250	65	30	GKD80...	SCAM050200H	TH40LH	1.58	○	○
GKIR/L4540-8T10	45	40	10	27.2	300	70	37		SCAM050200H	TH40LH	2.96	○	○

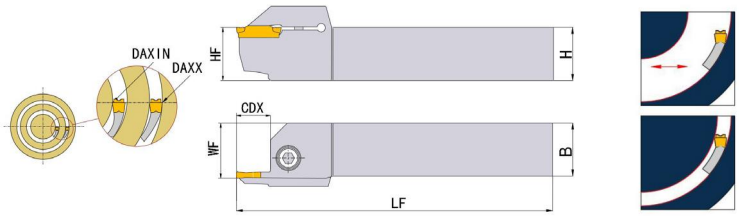
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GK Series

Face Holder-linear



The diagram shows the right hand

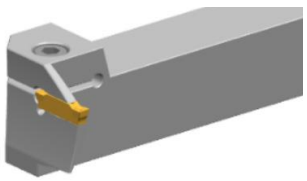


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	DAXIN	DAXX	LF	WF					R	L
GKFR/L2525-2T12D75	25	25	12	75	100	150	26	GKD20...	SCAM060200H	TH50LH	0.72	○	○
GKFR/L2525-2T12D90	25	25	12	90	150	150	26		SCAM060200H	TH50LH	0.74	●	○
GKFR/L2525-3T15D68	25	25	15	68	100	150	26	GKD30...	SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-3T15D90	25	25	15	90	160	150	26		SCAM060200H	TH50LH	0.74	●	●
GKFR/L2020-4T15D62	20	20	15	62	120	150	26	GKD40...	SCAM050160H	TH40LH	0.39	○	●
GKFR/L2525-4T15D62	25	25	15	62	120	150	26		SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-4T15D112	25	25	15	112	200	150	26		SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-4T25D62	25	25	25	62	120	150	26		SCAM060200H	TH50LH	0.74	●	○
GKFR/L2525-5T10D150	25	25	10	150	300	150	26	GKD50...	SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-5T25D68	25	25	25	68	95	150	26		SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-5T25D85	25	25	25	85	130	150	26		SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-6T25D68	25	25	25	68	100	150	26	GKD60...	SCAM060200H	TH50LH	0.74	●	○
GKFR/L2525-6T25D88	25	25	25	88	180	150	26		SCAM060200H	TH50LH	0.74	●	●
GKFR/L2525-8T25D45	25	25	25	45	80	150	26	GKD80...	SCAM060200H	TH50LH	0.74	●	○

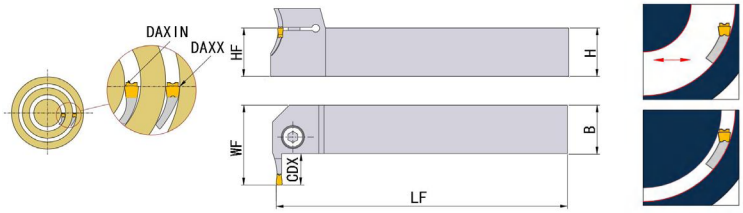
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GK Series

Face Holder-vertical



The diagram shows the right hand

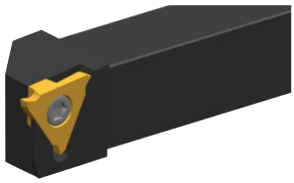


Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	DAXIN	DAXX	LF	WF					R	L
GKFPR/L2525-4T15D60	25	25	15	60	120	150	41	GKD40...	SCAM060200H	TH50LH	0.74	●	●
GKFPR/L2525-4T15D112	25	25	15	112	200	150	41		SCAM060200H	TH50LH	0.74	●	●

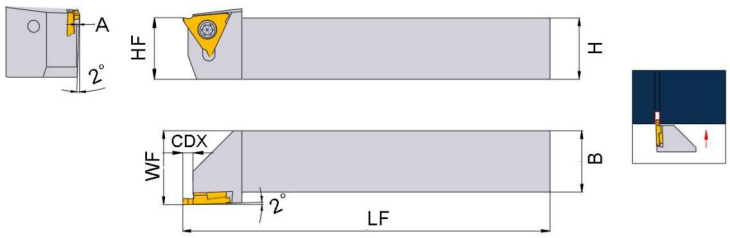
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GB Series

External Diameter Tool Holder



The diagram shows the right hand



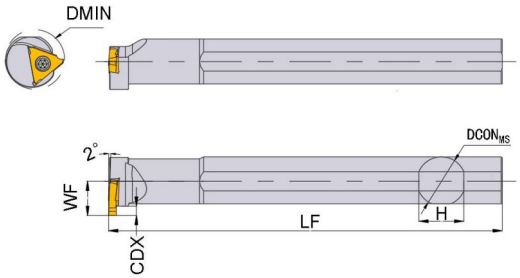
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	LF	WF	A					R	L
GBER/L2020K3	20	20	2.5	125	25	—	GB3...	SI60M035120-05316H	TT15PH	0.39	●	●
GBER/L2525M3	25	25	2.5	150	30	—	GB3...	SI60M035120-05316H	TT15PH	0.74	●	●
GBER/L2020K415	20	20	4.0	125	25	1.0	GB4...(1.0≤W<2.5)	SI60M050120-07217H	TT20PH	0.39	●	●
GBER/L2525M415	25	25	4.0	150	30	1.0	GB4...(1.0≤W<2.5)	SI60M050120-07217H	TT20PH	0.74	●	●
GBER/L2020K425	20	20	4.5	125	25	2.0	GB4...(2.5≤W<3.3)	SI60M050120-07217H	TT20PH	0.39	●	○
GBER/L2525M425	25	25	4.5	150	30	2.0	GB4...(2.5≤W<3.3)	SI60M050120-07217H	TT20PH	0.74	●	○
GBER/L2020K435	20	20	5.5	125	25	3.0	GB4...(3.3≤W<4.3)	SI60M050120-07217H	TT20PH	0.39	○	○
GBER/L2525M435	25	25	5.5	150	30	3.0	GB4...(3.3≤W<4.3)	SI60M050120-07217 H	TT20PH	0.74	●	○

●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GB Series

Tool Holder with Internal Hole

The diagram shows the right hand



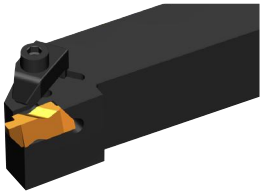
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	DMIN	$DCON_{MS}$	CDX	WF	LF	H					R	L
GBIR/L2620Q3	26	20	3	13	180	18	GB3...	SI60M035120-05316H	TT15PH	0.44	●	●
GBIR/L3525R4	35	25	4.5	17.5	200	23	GB4...	SI60M050120-07217H	TT20PH	0.77	●	●

The right-handed (R) insert is applicable to the left-hand (L) tool holder, and the left-handed (L) insert is applicable to the right-handed (R) tool holder.

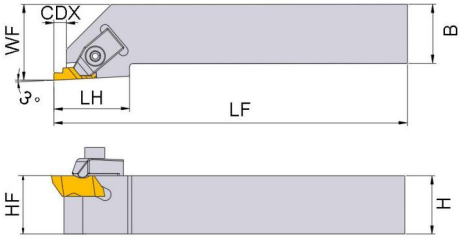
●Stock ○Available Upon Order

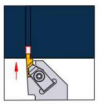
Parting Off and Grooving Tool Holders-GN Series

External Diameter Tool Holder-linear



The diagram shows the right hand





Order No.	Dimensions (mm)						Matched Insert	Screw	Clamp Plate	Wrench	Weight (KG)	In Stock
	H=HF	B	CDX	LF	WF	LH						
GNSR1616H2	16	16	3.5	100	20	19	GN.2R	SCAM040120H	CAN02RH	TH30LH	0.20	●
GNSR2020K2	20	20	3.5	125	25	19		SCAM040120H	CAN02RH	TH30LH	0.38	○
GNSR2525M2	25	25	3.5	150	32	19		SCAM040120H	CAN02RH	TH30LH	0.74	○
GNSL1616H2	16	16	3.5	100	20	19	GN.2L	SCAM040120H	CAN02LH	TH30LH	0.20	○
GNSL2020K2	20	20	3.5	125	25	19		SCAM040120H	CAN02LH	TH30LH	0.38	○
GNSL2525M2	25	25	3.5	150	32	19		SCAM040120H	CAN02LH	TH30LH	0.74	○
GNSR2020K3	20	20	5.3	125	25	32	GN.3R	SCAM050200H	CAN03RH	TH40LH	0.39	●
GNSR2525M3	25	25	5.3	150	32	32		SCAM050200H	CAN03RH	TH40LH	0.74	●
GNSL2020K3	20	20	5.3	125	25	32	GN.3L	SCAM050200H	CAN03LH	TH40LH	0.39	○
GNSL2525M3	25	25	5.3	150	32	32		SCAM050200H	CAN03LH	TH40LH	0.74	●

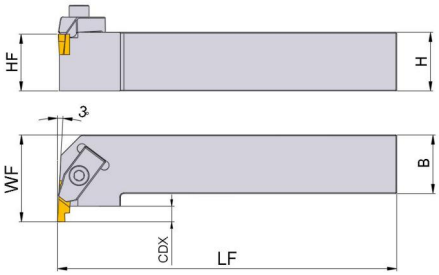
When used with GNGDP inserts, CDX shall be subject to that of the inserts.

●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GN Series

External Diameter Tool Holder-vertical

The diagram shows the right hand



Order No.	Dimensions (mm)					Matched Insert	Screw	Clamp Plate	Wrench	Weight (KG)	In Stock
	H=HF	B	CDX	LF	WF						
GNER2020K2	20	20	3.5	125	25	GN.2L	SCAM040120H	CAN02LH	TH30LH	0.38	○
GNER2525M2	25	25	3.5	150	32		SCAM040120H	CAN02LH	TH30LH	0.39	○
GNEL2020K2	20	20	3.5	125	25	GN.2R	SCAM040120H	CAN02RH	TH30LH	0.38	○
GNEL2525M2	25	25	3.5	150	32		SCAM040120H	CAN02RH	TH30LH	0.39	○
GNER2525M3	25	25	5.3	150	32	GN.3L	SCAM050200H	CAN03LH	TH40LH	0.39	○
GNEL2525M3	25	25	5.3	150	32	GN.3R	SCAM050200H	CAN03RH	TH40LH	0.39	○

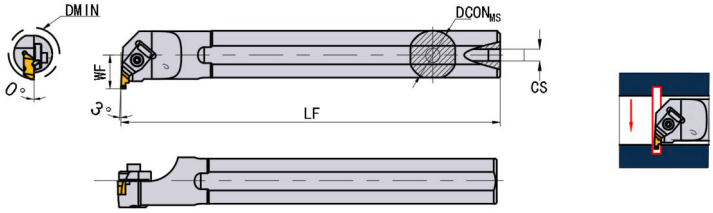
① The right-handed (R) insert is applicable to the left-hand (L) tool holder, and the left-hand (L) insert is applicable to the right-handed (R) tool holder.
② When used with GNGDP inserts, CDX shall be subject to that of the inserts.

●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GN Series

Tool Holder with Internal Hole

The diagram shows the right hand



Order No.	Dimensions (mm)					Matched Insert	Screw	Clamp Plate	Wrench	Weight (KG)	In Stock
	DMIN	$DCON_{MS}$	WF	LF	CS						
GNAR20Q2	26	20	13	180	1/8-27 NPT	GN.2L	SCAM040120H	CAN02LH	TH30LH	0.44	○
GNAR25R2	34	25	17	200	1/4-18 NPT		SCAM040120H	CAN02LH	TH30LH	0.77	○
GNAL20Q2	26	20	13	180	1/8-27 NPT	GN.2R	SCAM040120H	CAN02RH	TH30LH	0.44	●
GNAL25R2	34	25	17	200	1/4-18 NPT		SCAM040120H	CAN02RH	TH30LH	0.77	○
GNAR25R3	34	25	17	200	1/4-18 NPT	GN.3L	SCAM050200H	CAN03LH	TH40LH	0.77	○
GNAL25R3	34	25	17	200	1/4-18 NPT	GN.3R	SCAM050200H	CAN03RH	TH40LH	0.77	○

① The right-handed (R) insert is applicable to the left-hand (L) tool holder, and the left-hand (L) insert is applicable to the right-handed (R) tool holder.
② When used with GNGDP inserts, CDX shall be subject to that of the inserts.

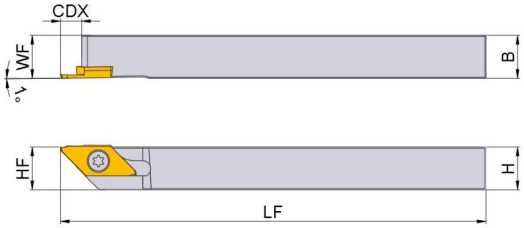
●Stock ○Available Upon Order

Parting Off and Grooving Tool Holders-GST Series

External Diameter Tool Holder

Dedicated for Automatic Lathe

The diagram shows the right hand



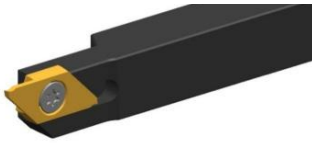
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	CUTDIA	LF	WF					R	L
GSTR/L1010JK3	10	10	6	12	120	10	GSTC3R/L**	SSAM045095Q	TT10PQ	0.09	●	○
GSTR/L1212JK3	12	12	6	12	120	12		SSAM045095Q	TT10PQ	0.14	●	●
GSTR/L1616JK3	16	16	6	12	120	16		SSAM045095Q	TT10PQ	0.24	●	○
GSTR/L2020JK3	20	20	6	12	120	20		SSAM045095Q	TT10PQ	0.40	●	○
GSTR/L1010JK4	10	10	8	16	120	10	GSTC4R/L**	SSAM045095Q	TT10PQ	0.09	●	○
GSTR/L1212JK4	12	12	8	16	120	12		SSAM045095Q	TT10PQ	0.14	●	●
GSTR/L1616JK4	16	16	8	16	120	16		SSAM045095Q	TT10PQ	0.24	●	○
GSTR/L2020JK4	20	20	8	16	120	20		SSAM045095Q	TT10PQ	0.40	●	○

●Stock ○Available Upon Order

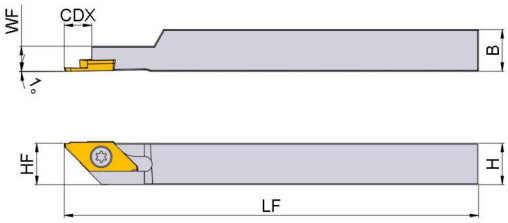
Parting Off and Grooving Tool Holders-GST Series

External Diameter Tool Holder

Used for Sub-spindle of Automatic Lathe



The diagram shows the right hand



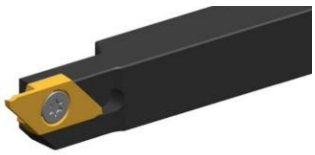
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	CUTDIA	LF	WF					R	L
GSTR/L1010JK3-RS	10	10	6	12	120	7.2	GSTC3R/L**	SSAM045070Q	TT10PQ	0.09	●	○
GSTR/L1212JK3-RS	12	12	6	12	120	7.2		SSAM045070Q	TT10PQ	0.14	●	○
GSTR/L1010JK4-RS	10	10	8	16	120	7.2	GSTC4R/L**	SSAM045070Q	TT10PQ	0.09	●	○
GSTR/L1212JK4-RS	12	12	8	16	120	7.2		SSAM045070Q	TT10PQ	0.14	●	●

●Stock ○Available Upon Order

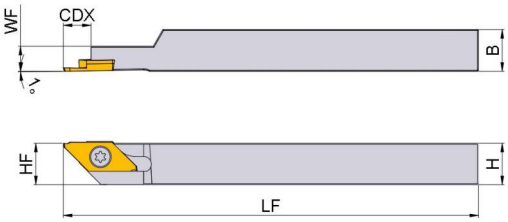
Parting Off and Grooving Tool Holders-GST Series

External Diameter Tool Holder

Used for Sub-spindle of Automatic Lathe (Matching Thin Insert)



The diagram shows the right hand



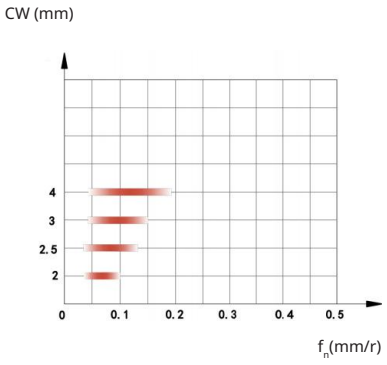
Order No.	Dimensions (mm)						Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	CUTDIA	LF	WF					R	L
GSTSR/L1010JKA2-RS	10	10	6	12	120	5	GSTSA2R/L**	SSAM040046Q	TT10PQ	0.09	●	●
GSTSR/L1212JKA2-RS	12	12	6	12	120	5		SSAM040046Q	TT10PQ	0.14	●	●
GSTSR/L1010JKB2-RS	10	10	8	16	120	5	GSTSB2R/L**	SSAM040046Q	TT10PQ	0.09	●	●
GSTSR/L1212JKB2-RS	12	12	8	16	120	5		SSAM040046Q	TT10PQ	0.14	●	●

●Stock ○Available Upon Order

Recommended Cutting Data
GT Series

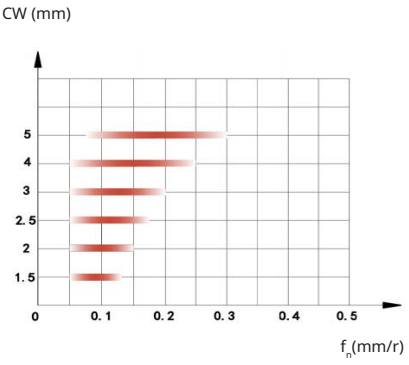
GT-FC

⊙ Radial Infeed



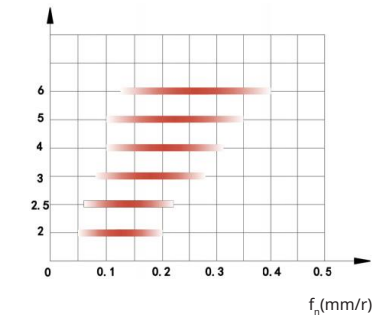
GT-MC

⊙ Radial Infeed



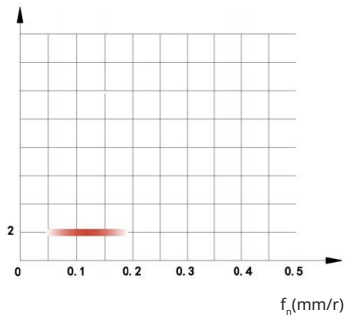
GT-RC

⊙ Radial Infeed



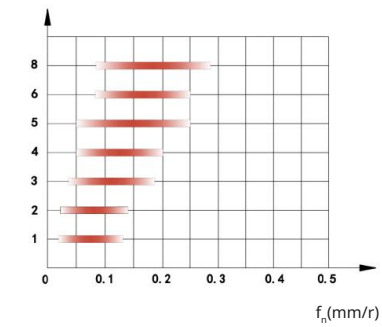
GT-OC

⊙ Radial Infeed

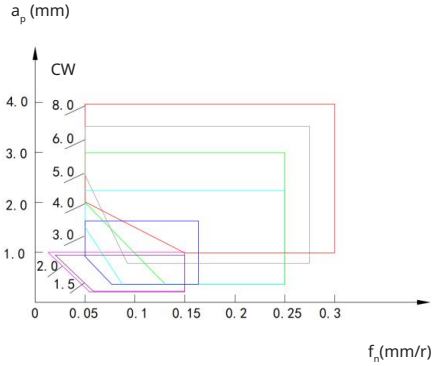


GT-FG

⊙ Radial Infeed



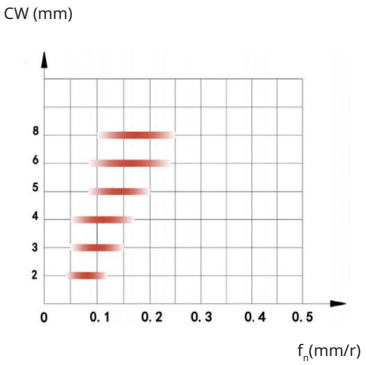
⊙ Axial Feed



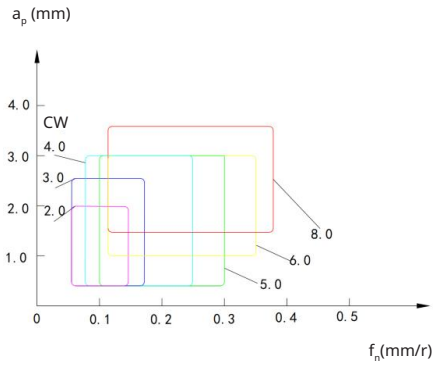
Recommended Cutting Data
GT Series

GT-MG

⊙ Radial Infeed

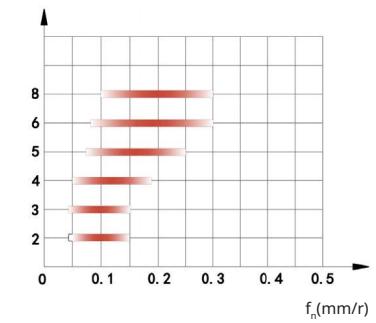


⊙ Axial Feed

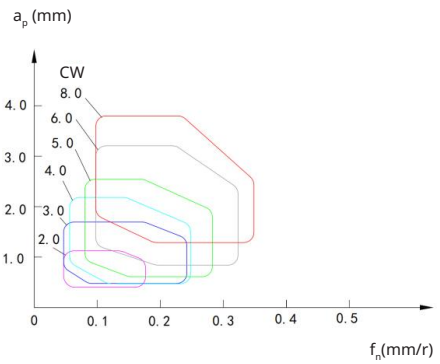


GT-FT

⊙ Radial Infeed

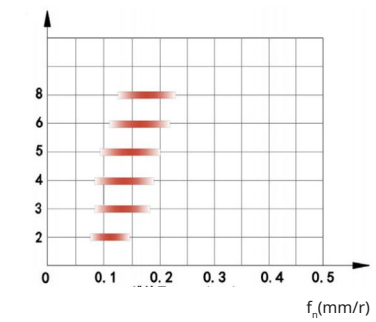


⊙ Axial Feed

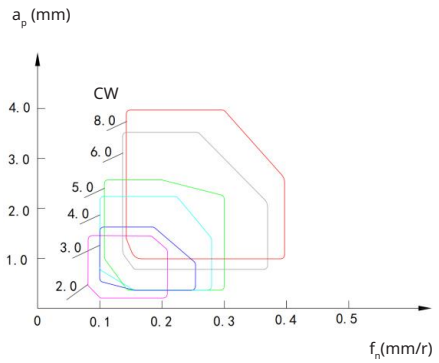


GT-MT

⊙ Radial Infeed



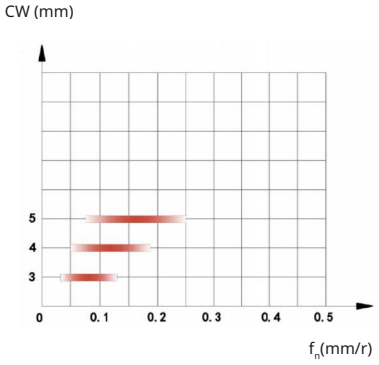
⊙ Axial Feed



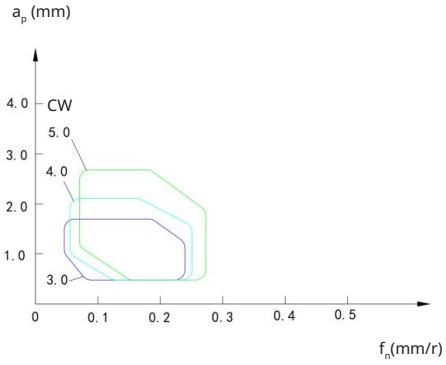
Recommended Cutting Data
GT Series

GT-OT

⊙ Radial Infeed

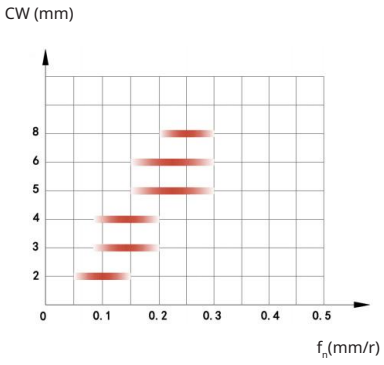


⊙ Axial Feed

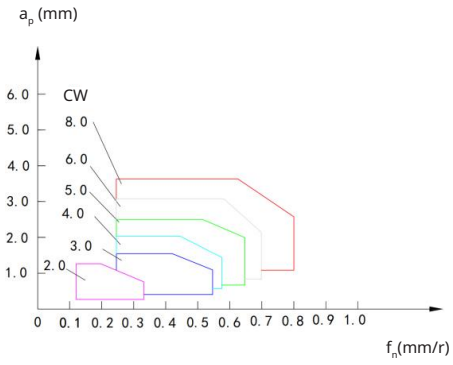


GT-MR

⊙ Radial Infeed

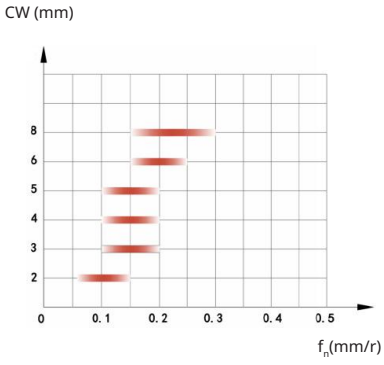


⊙ Axial Feed

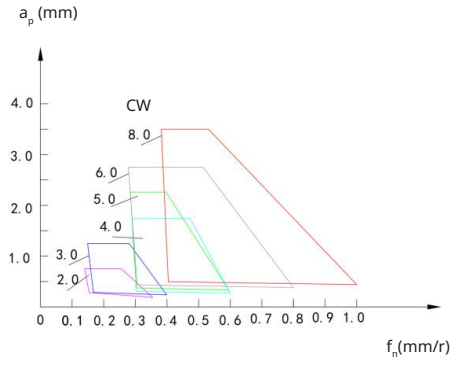


GT-OR

⊙ Radial Infeed



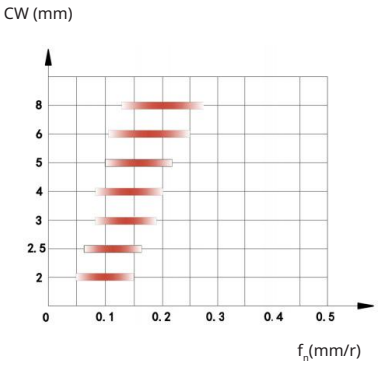
⊙ Axial Feed



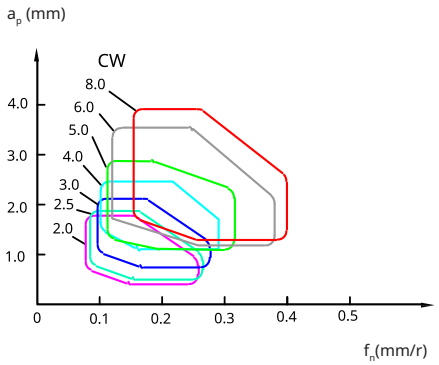
Recommended Cutting Data
GK Series

GK-MT

⊙ Radial Infeed

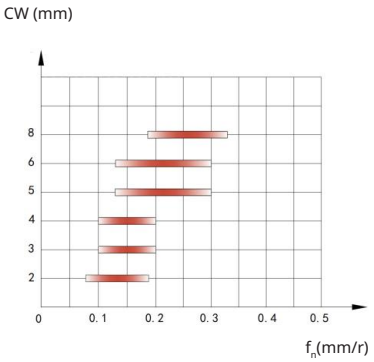


⊙ Axial Feed

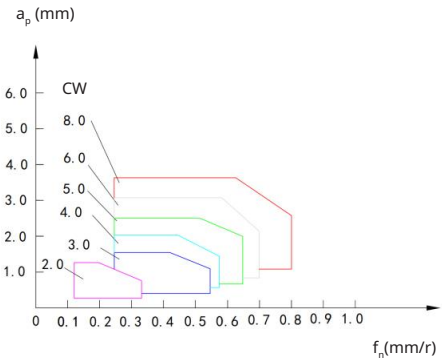


GK-MR

⊙ Radial Infeed



⊙ Axial Feed



Recommended Cutting Data

GB series

ISO	Workpiece Material	f_n(mm/r)				
		CW (mm)				
		0.33-1.0	1.0-2.0	2.5-3.0	3.3-4.0	4.0-4.3
P	Carbon steel	①.0.03~0.08	①.0.04~0.09 ②.0.04~0.09	①.0.05~0.10 ②.0.05~0.10	①.0.05~0.12 ②.0.05~0.10	①.0.05~0.12 ②.0.05~0.10
	Alloy steel	①.0.03~0.07	①.0.04~0.08 ②.0.04~0.08	①.0.05~0.09 ②.0.05~0.09	①.0.05~0.10 ②.0.05~0.10	①.0.05~0.10 ②.0.05~0.10
M	Stainless steel	①.0.03~0.07	①.0.04~0.08 ②.0.04~0.08	①.0.05~0.09 ②.0.05~0.09	①.0.05~0.10 ②.0.05~0.10	①.0.05~0.10 ②.0.05~0.10
K	Cast iron	①.0.03~0.08	①.0.04~0.09 ②.0.04~0.09	①.0.05~0.10 ②.0.05~0.10	①.0.05~0.12 ②.0.05~0.10	①.0.05~0.12 ②.0.05~0.10

① Radial Infeed ② Axial infeed

GN series

CW (mm)	f_n(mm/r)
0.50-1.50	0.08 (0.03-0.12)
1.50-2.50	0.10 (0.04-0.16)
2.50-3.50	0.12 (0.05-0.20)
3.50-4.80	0.14 (0.05-0.25)

GST series

ISO	Workpiece Material	Hardness (HB)	Series	f_n(mm/r)
P	Steel	⩽300	GSTC	0.02(0.01-0.03)
			GSTS	0.02(0.01-0.03)
M	Stainless steel	⩽300	GSTC	0.015(0.01-0.02)
			GSTS	0.015(0.01-0.02)

Recommended Cutting Data

ISO	Workpiece Material	Hard-ness (HB)	Cutting Speed Vc (m/min)									
			GM1230	GP1225	GP1120	GA4230	GA4330	GAT7125	GAT7115	GST7135	GK1115	GST7115
P	Carbon Steel	80–250	100 (60-165)	120 (80-220)	140 (100-250)	110 (70-180)	110 (70-180)	100 (60-160)	105 (70-170)	115 (80-190)	150 (110-260)	120 (90-200)
	Low Alloy Steel	140–260	95 (45-155)	110 (60-180)	130 (80-230)	105 (50-165)	105 (50-165)	95 (45-150)	100 (55-160)	110 (60-170)	140 (90-240)	115 (70-185)
	High Alloy Steel	180–300	90 (45-145)	110 (60-180)	120 (80-220)	100 (50-150)	100 (50-150)	90 (45-140)	95 (50-150)	105 (60-160)	130 (80-230)	110 (65-170)
	Cast Steel	180–300	80 (40-125)	110 (60-180)	110 (45-180)	90 (40-130)	90 (40-130)	80 (40-120)	85 (40-120)	95 (40-150)	115 (50-190)	100 (40-150)
M	Ferritic Martensitic	150–270				100 (50-150)	100 (50-150)	90 (45-130)	95 (50-110)	105 (60-160)		110 (65-170)
	Austenitic	150–270				105 (50-165)	105 (50-165)	95 (45-140)	100 (50-165)	110 (60-165)		115 (70-180)
K	Malleable Cast Iron	150–230			130 (95-230)	105 (65-175)	105 (65-175)			110 (75-185)	140 (100-240)	115 (85-195)
	Grey Cast Iron	150–230			120 (95-215)	100 (55-160)	100 (55-160)			105 (65-165)	130 (100-230)	110 (75-180)
	Nodular Cast Iron	160–260			110 (70-210)	95 (45-145)	95 (45-145)			100 (55-155)	120 (70-220)	105 (60-165)
S	High-tem-perature Alloy	130–400				30 (15-60)	30 (15-60)			35 (15-60)		40 (30-70)
	Titanium Alloy	130–400				30 (20-60)	30 (20-60)			35 (20-60)		40 (35-70)

H

THREAD TURNING TOOL

Type Representation Rules for Thread Turning Inserts

16 E R 1.50 ISO - TC

① ② ③ ④ ⑤ ⑥

① Insert Size	
Code	IC(mm)
08	5
11	6.35
16	9.525
22	12.7
27	15.875

② Thread Type
E=External Thread
I=Internal Thread
□=internal and External Threads

③ Insert Direction
R=Right-hand
L=Left-hand
□=Left/Right-hand

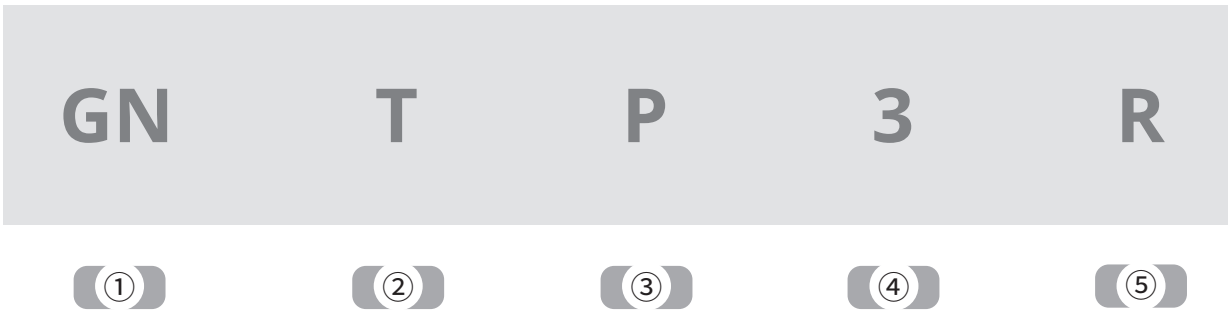
④ Pitch		
Fully Thread Profile Pitch Range		
mm	TPI	
0.35-5.0	72-5	
Partial Thread Profile Pitch Range		
Code	mm	TPI
A	0.5-1.5	48-16
AG	0.5-3.0	48-8
G	1.75-3.0	14-8
N	3.5-5.0	7-5

⑤ Thread Standard	
60=60° General Thread	ACME=American Trapezoidal Thread
55=55° General Thread	STACME=American Short Tooth Trapezoidal Thread
ISO=ISO Metric Screw Thread	ABUT=American Serrated Thread
UN=American Unified Thread	BBUT=British Serrated Thread
W=British Whitworth Thread	SAGE=Metric Serrated Thread
NPT=American National Standard Taper Pipe Thread	API=API Standard Thread
NPTF=National (American) Pipe Thread	BUT=API Buttress Thread
BSPT=British National Standard Taper Pipe Thread	APIRD=API Round Thread for Casing and Tubing
RD=Round Thread DIN405	MJ=Metric Aerospace Thread
RD20400=Round Thread 20400	UNJ=American Aerospace Thread
TR=Metric Trapezoidal Thread	PG=German Standard PG Thread

⑥ Additional Information
Used to Define the Number of Teeth or Geometry, etc.

Type Representation Rules for Thread Turning Inserts

GN Series Insert



① Series Name
GN

② Machining Type
T=60° General Threading

③ Additional Information
P=Positive Rake Angle
□=No Rake Angle

④ Insert Thickness
2=3.81mm
3=4.95mm

⑤ Insert Direction
R=Right-hand
L=Left-hand

Notes: The GN series is the original G-NOTCH series.

Type Representation Rules for Thread Turning Inserts

GST Series Insert

GSTT	3	R	A	60	005
①	②	③	④	⑤	⑥

① Series Name
GSTT

② Insert Thickness
3=3.0mm

③ Insert Direction
R=Right-hand
L=Left-hand

④ Tip Offset Direction
A=Left-biased
B=Right-biased

⑤ Thread Standard
60=60° General Thread
55=55° General Thread

⑥ Crest Arc Size
005=0.05mm

Type Representation Rules for Thread Turning Tool Holders

S E R 2525 M 16 □ - A16

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Clamping Type
S=Clamping Type by Screw
C=Clamping Type by Clamp Plate

② Machining Type
E=External Machining
I=Internal Hole Making

③ Tool Direction
R=Right-hand
L=Left-hand

④ Shank Size
External Diameter Tool Holder: Height*width
Tool Holder with Internal Hole Shank Diameter (Example: 0025=Diameter 25mm)

⑤ Length of Tool Holder	
Code	Length
F	80 mm
H	100 mm
K	125 mm
M	150 mm
N	160 mm
P	170 mm
Q	180 mm
R	200 mm
S	250 mm
T	300 mm
U	350 mm
V	400 mm

⑥ Insert Size	
Code	Insert IC Value
08	5 mm
11	6.35 mm
16	9.525 mm
22	12.7 mm
27	15.875 mm

⑦ Tool Holder Material	
A	Steel Tool Holder with Cooling Hole
C	Cemented Carbide Tool Holder
E	Cemented Carbide Tool Holder with Cooling Hole
□	Steel Tool Holder

⑧ Additional Information	
Tool Holder with Internal Hole	A16= Shank Diameter Reinforced-Diameter 16mm

Type Representation Rules for Thread Turning Tool Holders

GN Series Tool Holder

GN	S	R	2525	M	3
①	②	③	④	⑤	⑥

① Series Name
GN

② Machining Type	
External Machining	S=Linear
	E=Vertical
	R=Grinding Undercut
Internal Hole Making	A=Vertical Internal Cooling

③ Tool Direction
L=Left-hand
R=Right-hand

④ Shank Size
External Diameter Tool Holder: Height*Width
Tool Holder with Internal Hole Shank Diameter

⑤ Length of Tool Holder	
Code	Length
D	60 mm
E	70 mm
F	80 mm
H	100 mm
K	125 mm
M	150 mm
P	170 mm
Q	180 mm
R	200 mm

⑥ Insert Thickness
2=3.81mm
3=4.95mm

Notes: ① When selecting the tool holder with internal hole, the Right-hand (R) insert is applicable to the left-hand (L) tool holder, and the left-hand (L) insert is applicable to the Right-hand (R) tool holder.
② The GN series is the original G-NOTCH series.

Type Representation Rules for Thread Turning Tool Holders

GST Series Tool Holder

GSTS R 1212 JK A 2 – RS

① ② ③ ④ ⑤ ⑥ ⑦

① Series Name
GST
GSTS (thin)

② Insert Direction
R=Right-hand
L=Left-hand
N=Middle

③ Shank Size
External Diameter Tool Holder: Height*Width

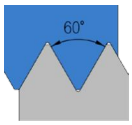
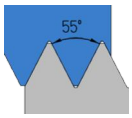
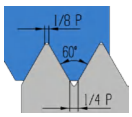
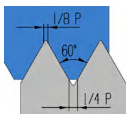
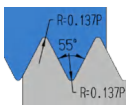
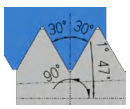
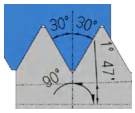
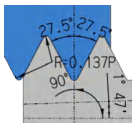
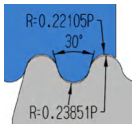
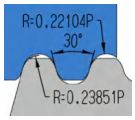
④ Length of Tool Holder	
Code	Length
JK	120 mm

⑤ Insert Size	
Unique to the GSTS Series	
A	Insert Height=8.7mm
B	Insert Height=9.5mm

⑥ Insert Thickness
2=2.2mm
3=3.0mm
4=4.0mm

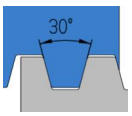
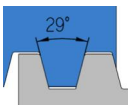
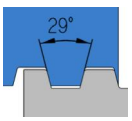
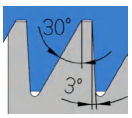
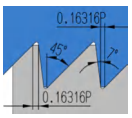
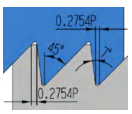
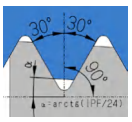
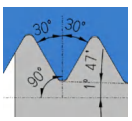
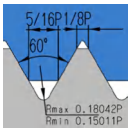
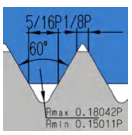
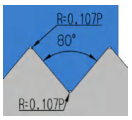
⑦ Additional Information
RS=Sub-spindle Tool Holder

List of Thread Turning Inserts

Application fields	Thread Type	Thread Diagram	Thread Code	Pitch	Page No.
Threads for General Machinery Industry	60° General Thread		60	0.2-5.0 (mm)	P272, P295, P296
	55° General Thread		55	48-5 (TPI)	P273, P296
	ISO Metric Screw Thread		ISO	0.4-6.0 (mm)	P274-P275
	UN Thread		UN	24-7 (TPI)	P276
Threads for Pipe Installation and Connection	Whitworth Thread		W	19-8 (TPI)	P277
	NPT Thread		NPT	27-8 (TPI)	P278
	NPTF Thread		NPTF	18-11.5 (TPI)	P279
	BSPT Thread		BSPT	28-11 (TPI)	P280
	Round Thread (DIN405)		RD	10-4 (TPI)	P281
	Round Thread (DIN20400)		RD20400	3.0-4.0 (mm)	P282

Notes: In the thread diagram, the blue color represents the internal thread, while the gray color represents the external thread.

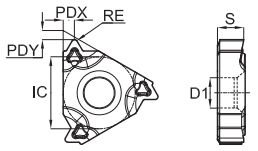
List of Thread Turning Inserts

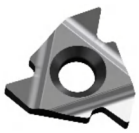
Application fields	Thread Type	Thread Diagram	Thread Code	Pitch	Page No.
Transmission Thread	TR Thread		TR	1.5-7.0 (mm)	P283
	ACME Thread		ACME	16-4 (TPI)	P284
	STACME Thread		STACME	16-3 (TPI)	P285
	SAGE Thread		SAGE	2.0-4.0 (mm)	P286
	ABUT Thread		ABUT	20-6 (TPI)	P287
	BBUT Thread		BBUT	16-8 (TPI)	P288
Threads for Petroleum Industry	API Thread		API	5-4 (TPI)	P289
	APIRD Thread		APIRD	10-8 (TPI)	P290
Threads for Aerospace Industry	MJ Thread		MJ	1.0-3.0 (mm)	P291
	UNJ Thread		UNJ	32-8 (TPI)	P292-P293
Threads for Electric Industry	PG Thread		PG	20-16 (TPI)	P294

Notes: In the thread diagram, the blue color represents the internal thread, while the gray color represents the external thread.

60° General Thread

▶ External Thread

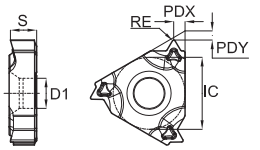


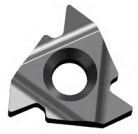
Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ERA60-TC	0.5-1.5	0.8	0.9	0.08	9.525	3.47	4		●	●
	16ERAG60-TC	0.5-3.0	1.1	1.5	0.08	9.525	3.47	4		●	●
	16ERG60-TC	1.75-3.0	1.2	1.7	0.25	9.525	3.47	4		●	●
	22ERN60-TC	3.5-5.0	1.7	2.5	0.51	12.7	4.71	5		●	●
	16ELAG60	0.5-3.0	1.1	1.5	0.08	9.525	3.47	4		○	

●Stock ○Available Upon Order

60° General Thread

▶ Internal Thread

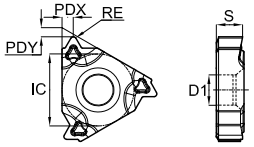


Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	08IRA60-TC	0.5-1.5	0.6	0.7	0.08	5.00	2.25	2.68		●	●
	11IRA60-TC	0.5-1.5	0.8	0.9	0.08	6.35	3.00	3.2		●	●
	16IRA60-TC	0.5-1.5	0.8	0.9	0.08	9.525	3.47	4		●	●
	16IRAG60-TC	0.5-3.0	1.1	1.5	0.08	9.525	3.47	4		●	●
	16IRG60-TC	1.75-3.0	1.2	1.7	0.13	9.525	3.47	4		●	●
	22IRN60-TC	3.5-5.0	1.7	2.5	0.25	12.7	4.71	5		●	●
	08ILA60	0.5-1.5	0.6	0.7	0.08	5.00	2.25	2.68		●	
	22IRN60	3.5-5.0	1.8	2.5	0.36	12.7	4.71	5		●	

●Stock ○Available Upon Order

55° General Thread

▶ External Thread

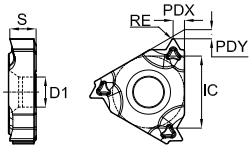


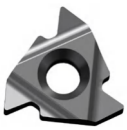
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ERA55-TC	48-16	0.8	0.9	0.08	9.525	3.47	4		●	●
	16ERAG55-TC	48-8	1.1	1.5	0.08	9.525	3.47	4		●	●
	16ERG55-TC	14-8	1.2	1.7	0.21	9.525	3.47	4		●	●
	22ERN55-TC	7-5	1.7	2.5	0.44	12.7	4.71	5		●	●

●Stock ○Available Upon Order

55° General Thread

▶ Internal Thread

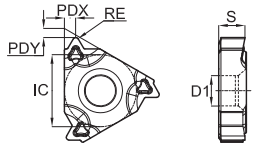


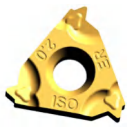
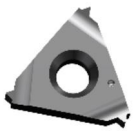
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IRA55-TC	48-16	0.8	0.9	0.08	6.35	3.00	3.2		●	●
	16IRA55-TC	48-16	0.8	0.9	0.08	9.525	3.47	4		●	●
	16IRAG55-TC	48-8	1.1	1.5	0.08	9.525	3.47	4		●	●
	16IRG55-TC	14-8	1.2	1.7	0.21	9.525	3.47	4		●	●
	22IRN55-TC	7-5	1.7	2.5	0.44	12.7	4.71	5		●	●
	08IRA55	48-16	0.6	0.7	0.08	5	2.25	2.68		●	

●Stock ○Available Upon Order

ISO Metric Screw Thread

▶ External Thread

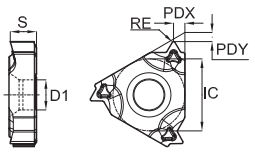


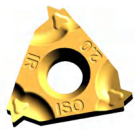
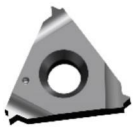
Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER1.00ISO-TC	1.00	0.8	0.7	0.14	9.525	3.47	4		●	●
	16ER1.25ISO-TC	1.25	0.8	0.9	0.18	9.525	3.47	4		●	●
	16ER1.50ISO-TC	1.50	0.8	1.0	0.22	9.525	3.47	4		●	●
	16ER1.75ISO-TC	1.75	1.2	1.2	0.25	9.525	3.47	4		●	●
	16ER2.00ISO-TC	2.00	1.2	1.3	0.29	9.525	3.47	4		●	●
	16ER2.50ISO-TC	2.50	1.2	1.5	0.36	9.525	3.47	4		●	●
	16ER3.00ISO-TC	3.00	1.2	1.5	0.43	9.525	3.47	4		●	●
	22ER3.50ISO-TC	3.50	1.6	2.3	0.45	12.7	4.71	5		●	●
	22ER4.00ISO-TC	4.00	1.6	2.3	0.52	12.7	4.71	5		●	●
	22ER4.50ISO-TC	4.50	1.7	2.4	0.58	12.7	4.71	5		●	●
	22ER5.00ISO-TC	5.00	1.7	2.5	0.63	12.7	4.71	5		●	●
	22ER5.50ISO-TC	5.50	1.9	2.7	0.72	12.7	4.71	5		●	●
	22ER6.00ISO-TC	6.00	1.9	2.7	0.78	12.7	4.71	5		○	●
	16ER0.40ISO	0.40	0.6	0.5	0.06	9.525	3.47	4			○
	16ER0.50ISO	0.50	0.6	0.5	0.10	9.525	3.47	4		●	●
	16ER0.70ISO	0.70	0.8	0.7	0.10	9.525	3.47	4			○
	16ER0.75ISO	0.75	0.8	0.7	0.10	9.525	3.47	4			●
	16ER0.80ISO	0.80	0.6	0.6	0.10	9.525	3.47	4			●
	16ER1.00ISO	1.00	0.7	0.6	0.14	9.525	3.47	4		●	●
	16EL1.00ISO	1.00	0.7	0.7	0.14	9.525	3.47	4			●
	16ER1.25ISO	1.25	0.8	0.9	0.18	9.525	3.47	4			○
	16EL1.50ISO	1.50	0.8	1.0	0.22	9.525	3.47	4		●	●
	16ER1.75ISO	1.75	1.0	1.2	0.25	9.525	3.47	4			○
	16EL2.00ISO	2.00	1.2	1.3	0.29	9.525	3.47	4		●	●
	22ER4.00ISO	4.00	1.6	2.3	0.57	12.7	4.71	5			○

●Stock ○Available Upon Order

ISO Metric Screw Thread

▶ Internal Thread

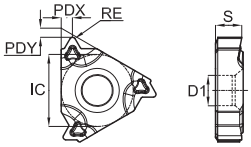


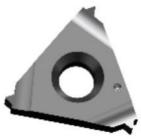
Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IR1.00ISO-TC	1.00	0.8	0.7	0.07	6.35	3.00	3.2		●	●
	11IR1.25ISO-TC	1.25	0.8	0.9	0.09	6.35	3.00	3.2		●	●
	11IR1.50ISO-TC	1.50	0.8	1.0	0.11	6.35	3.00	3.2		●	●
	11IR1.75ISO-TC	1.75	0.9	1.1	0.13	6.35	3.00	3.2		●	●
	11IR2.00ISO-TC	2.00	0.9	1.1	0.15	6.35	3.00	3.2		●	●
	16IR1.00ISO-TC	1.00	0.8	0.7	0.07	9.525	3.47	4		●	●
	16IR1.25ISO-TC	1.25	0.8	0.9	0.09	9.525	3.47	4		●	●
	16IR1.50ISO-TC	1.50	0.8	1.0	0.11	9.525	3.47	4		●	●
	16IR1.75ISO-TC	1.75	1.2	1.2	0.13	9.525	3.47	4		●	●
	16IR2.00ISO-TC	2.00	1.2	1.3	0.15	9.525	3.47	4		●	●
	16IR2.50ISO-TC	2.50	1.2	1.5	0.18	9.525	3.47	4		●	●
	16IR3.00ISO-TC	3.00	1.2	1.5	0.22	9.525	3.47	4		●	●
	22IR3.50ISO-TC	3.50	1.6	2.3	0.22	12.7	4.71	5		●	●
	22IR4.00ISO-TC	4.00	1.6	2.3	0.25	12.7	4.71	5		●	●
	22IR4.50ISO-TC	4.50	1.6	2.4	0.28	12.7	4.71	5		●	●
	22IR5.00ISO-TC	5.00	1.6	2.3	0.32	12.7	4.71	5		●	●
	22IR5.50ISO-TC	5.50	1.6	2.3	0.36	12.7	4.71	5		●	●
	22IR6.00ISO-TC	6.00	1.6	2.4	0.39	12.7	4.71	5		●	●
	11IR0.75ISO	0.75	0.6	0.6	0.04	6.35	3	3.2		○	
	11IL1.50ISO	1.50	0.8	1.0	0.11	6.35	3	3.2		○	
	11IR1.50ISO	1.50	0.8	1.0	0.109	6.35	3	3.2		●	
	16IR0.50ISO	0.50	0.6	0.4	0.03	9.525	3.47	4		●	
	16IR0.75ISO	0.75	0.6	0.6	0.04	9.525	3.47	4		○	
	16IL1.00ISO	1.00	0.6	0.7	0.07	9.525	3.47	4		○	
	16IR1.50ISO	1.50	0.8	1.0	0.11	9.525	3.47	4		○	
	16IL1.50ISO	1.50	0.8	1.0	0.11	9.525	3.47	4		●	
	16IR2.00ISO	2.00	1.0	1.3	0.15	9.525	3.47	4		○	
	16IL2.00ISO	2.00	1.0	1.3	0.15	9.525	3.47	4		●	
	16IL3.00ISO	3.00	1.2	1.5	0.22	9.525	3.47	4		○	
	22IL4.00ISO	4.00	1.6	2.3	0.25	12.7	4.71	5		○	

●Stock ○Available Upon Order

UN

▶ External Thread

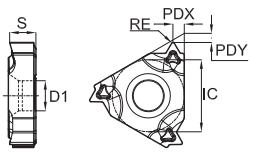


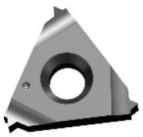
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER24UN-TC	24	0.8	0.8	0.15	9.525	3.47	4		●	●
	16ER20UN-TC	20	0.8	0.9	0.18	9.525	3.47	4		●	●
	16ER18UN-TC	18	0.8	1.0	0.20	9.525	3.47	4		●	●
	16ER16UN-TC	16	0.9	1.1	0.23	9.525	3.47	4		●	●
	16ER14UN-TC	14	1.2	1.5	0.26	9.525	3.47	4		●	●
	16ER12UN-TC	12	1.2	1.5	0.31	9.525	3.47	4		●	●
	16ER9UN-TC	9	1.2	1.7	0.42	9.525	3.47	4		●	●
	16ER8UN-TC	8	1.3	1.7	0.46	9.525	3.47	4		●	●
	16ER20UN	20	0.8	0.9	0.18	9.525	3.47	4			○
	16ER10UN	10	1.2	1.6	0.41	9.525	3.47	4		●	
	22ER7UN	7	1.6	2.3	0.47	12.7	4.71	5			○

●Stock ○Available Upon Order

UN

▶ Internal Thread

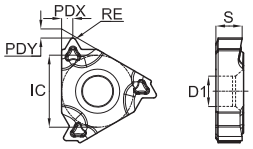


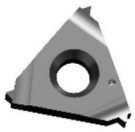
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IR20UN-TC	20	0.8	0.9	0.09	6.35	3.00	3.2		●	●
	11IR18UN-TC	18	0.8	1.0	0.10	6.35	3.00	3.2		●	●
	16IR24UN-TC	24	0.8	0.8	0.08	9.525	3.47	4		●	●
	16IR20UN-TC	20	0.8	0.9	0.09	9.525	3.47	4		●	●
	16IR18UN-TC	18	0.8	1.0	0.10	9.525	3.47	4		●	●
	16IR16UN-TC	16	0.9	1.1	0.12	9.525	3.47	4		●	●
	16IR14UN-TC	14	1.2	1.5	0.13	9.525	3.47	4		●	●
	16IR12UN-TC	12	1.2	1.5	0.16	9.525	3.47	4		●	●
	16IR8UN-TC	8	1.3	1.7	0.23	9.525	3.47	4		●	●
	16IR10UN	10	1.1	1.5	0.183	9.525	3.47	4		●	

●Stock ○Available Upon Order

W

▶ External Thread

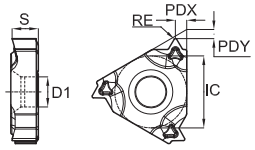


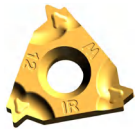
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER19W-TC	19	0.8	1.0	0.17	9.525	3.47	4		●	●
	16ER18W-TC	18	0.8	1.0	0.18	9.525	3.47	4		○	○
	16ER16W-TC	16	0.9	1.1	0.20	9.525	3.47	4		●	●
	16ER14W-TC	14	1.2	1.5	0.24	9.525	3.47	4		●	●
	16ER12W-TC	12	1.2	1.5	0.28	9.525	3.47	4		●	●
	16ER11W-TC	11	1.2	1.5	0.30	9.525	3.47	4		●	●
	16ER10W-TC	10	1.1	1.5	0.34	9.525	3.47	4		●	○
	16ER8W	8	1.2	1.5	0.41	9.525	3.47	4			○

●Stock ○Available Upon Order

W

▶ Internal Thread

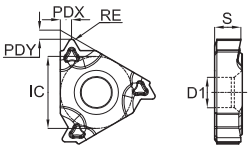


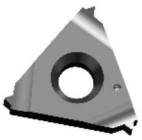
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IR19W-TC	19	0.9	1.1	0.19	6.35	3.00	3.2		●	●
	11IR14W-TC	14	0.9	1.1	0.27	6.35	3.00	3.2		●	●
	16IR19W-TC	19	0.8	1.0	0.17	9.525	3.47	4		●	●
	16IR18W-TC	18	0.8	1.0	0.18	9.525	3.47	4		●	○
	16IR16W-TC	16	0.9	1.1	0.20	9.525	3.47	4		●	○
	16IR14W-TC	14	1.2	1.5	0.24	9.525	3.47	4		●	●
	16IR12W-TC	12	1.2	1.5	0.28	9.525	3.47	4		●	●
	16IR11W-TC	11	1.2	1.5	0.30	9.525	3.47	4		●	●
	16IR8W-TC	8	1.2	1.5	0.41	9.525	3.47	4		●	●

●Stock ○Available Upon Order

NPT

▶ External Thread

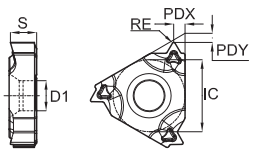


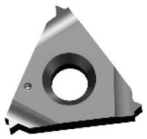
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER27NPT-TC	27	0.7	0.8	0.13	9.525	3.47	4		●	●
	16ER18NPT-TC	18	0.8	1.0	0.20	9.525	3.47	4		●	●
	16ER14NPT-TC	14	1.2	1.5	0.22	9.525	3.47	4		●	●
	16ER11.5NPT-TC	11.5	1.2	1.5	0.25	9.525	3.47	4		●	●
	16ER8NPT-TC	8	1.3	1.8	0.30	9.525	3.47	4		●	●
	16ER27NPT	27	0.07	0.7	0.80	9.525	3.47	4		●	
	16ER18NPT	18	0.8	1.0	0.08	9.525	3.47	4		●	
	16ER14NPT	14	1.2	1.5	0.08	9.525	3.47	4		●	
	16ER11.5NPT	11.5	1.2	1.5	0.091	9.525	3.47	4		●	

●Stock ○Available Upon Order

NPT

▶ Internal Thread

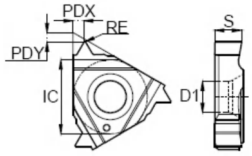


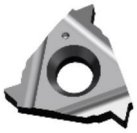
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IR18NPT-TC	18	0.8	1.0	0.20	6.35	3.00	3.2		●	●
	16IR27NPT-TC	27	0.7	0.8	0.13	9.525	3.47	4		○	○
	16IR18NPT-TC	18	0.8	1.0	0.20	9.525	3.47	4		●	●
	16IR14NPT-TC	14	1.2	1.5	0.22	9.525	3.47	4		●	●
	16IR11.5NPT-TC	11.5	1.2	1.5	0.25	9.525	3.47	4		●	●
	16IR8NPT-TC	8	1.3	1.8	0.30	9.525	3.47	4		●	●
	11IR18NPT	18	0.8	1.1	0.081	6.35	3	3.2		●	
	11IL18NPT	18	0.8	1.1	0.081	6.35	3	3.2		●	
	16IR14NPT	14	1.2	1.5	0.08	9.525	3.47	4		●	
	16IR11.5NPT	11.5	1.2	1.5	0.107	9.525	3.47	4		●	

●Stock ○Available Upon Order

NPTF

▶ External Thread

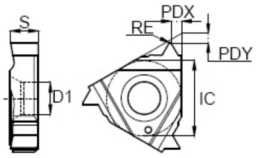


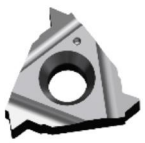
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER18NPTF	18	0.8	1.0	0.08	9.525	3.47	4		○	
	16ER14NPTF	14	1.0	1.2	0.08	9.525	3.47	4		○	
	16ER11.5NPTF	11.5	1.2	1.5	0.08	9.525	3.47	4		○	

●Stock ○Available Upon Order

NPTF

▶ Internal Thread

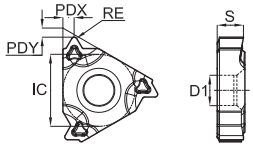


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16IR18NPTF	18	0.8	1.0	0.08	9.525	3.47	4		○	
	16IR14NPTF	14	1.0	1.2	0.08	9.525	3.47	4		○	
	16IR11.5NPTF	11.5	1.2	1.5	0.08	9.525	3.47	4		○	

●Stock ○Available Upon Order

BSPT

▶ External Thread

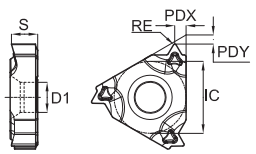


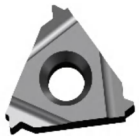
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER28BSPT-TC	28	0.7	0.8	0.11	9.525	3.47	4		●	●
	16ER19BSPT-TC	19	0.8	1.0	0.17	9.525	3.47	4		●	●
	16ER14BSPT-TC	14	1.2	1.5	0.24	9.525	3.47	4		●	●
	16ER11BSPT-TC	11	1.2	1.5	0.30	9.525	3.47	4		●	●

●Stock ○Available Upon Order

BSPT

▶ Internal Thread

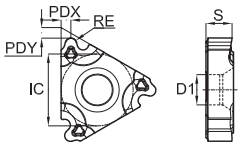


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IR19BSPT-TC	19	0.8	1.0	0.18	6.35	3.00	3.2		●	●
	11IR14BSPT-TC	14	0.9	1.1	0.24	6.35	3.00	3.2		●	●
	16IR28BSPT-TC	28	0.7	0.8	0.11	9.525	3.47	4		○	○
	16IR19BSPT-TC	19	0.8	1.0	0.17	9.525	3.47	4		●	●
	16IR14BSPT-TC	14	1.2	1.5	0.24	9.525	3.47	4		●	●
	16IR11BSPT-TC	11	1.2	1.5	0.30	9.525	3.47	4		●	●
	16IR11BSPT	11	1.2	1.5	0.32	9.525	3.47	4		●	

●Stock ○Available Upon Order

RD(DIN405)

▶ External Thread

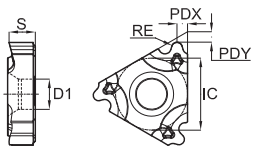


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER8RD-TC	8	1.4	1.3	0.75	9.525	3.47	4		●	○
	16ER6RD-TC	6	1.4	1.5	1.00	9.525	3.47	4		●	○
	16ER10RD	10	1.1	1.2	0.609	9.525	3.47	4	○		
	22ER4RD	4	2.2	2.3	1.52	12.7	4.71	5	●	●	

●Stock ○Available Upon Order

RD(DIN405)

▶ Internal Thread

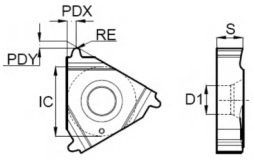


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16IR8RD-TC	8	1.4	1.3	0.70	9.525	3.47	4		●	○
	16IR6RD-TC	6	1.4	1.5	0.936	9.525	3.47	4		●	○
	16IR10RD	10	1.1	1.2	0.564	9.525	3.47	4	○		
	22IR4RD	4	2.2	2.3	1.44	12.7	4.71	5	●	●	

●Stock ○Available Upon Order

RD(DIN20400)

▶ External Thread

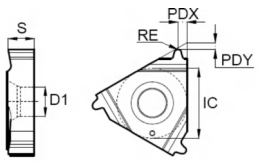


Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	22ER3.0RD20400	3.0	1.3	1.7	0.66	12.7	4.71	5	○		
	22ER4.0RD20400	4.0	1.6	2.2	0.88	12.7	4.71	5	○		

●Stock ○Available Upon Order

RD(DIN20400)

▶ Internal Thread

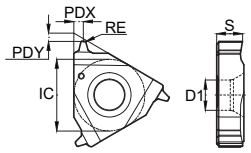


Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	22IR3.0RD20400	3.0	1.3	1.7	0.66	12.7	4.71	5	○		

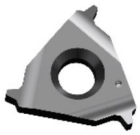
●Stock ○Available Upon Order

TR

▶ External Thread



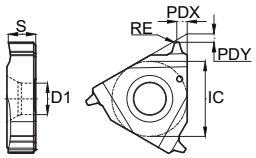
Order No.	Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11ER1.5TR	1.5	1.0	1.1	0.10	6.35	3	3.2		○	
16ER1.5TR	1.5	1.0	1.1	0.10	9.525	3.47	4		●	
16ER2.0TR	2.0	1.1	1.3	0.18	9.525	3.47	4		●	
16ER3.0TR	3.0	1.2	1.5	0.11	9.525	3.47	4		●	
22ER4.0TR	4.0	1.7	1.9	0.25	12.7	4.71	5	○	●	
22ER5.0TR	5.0	1.9	2.1	0.25	12.7	4.71	5	●	●	
22ER6.0TR	6.0	1.9	2.1	0.25	12.7	4.71	5	○	●	
27ER6.0TR	6.0	1.9	2.1	0.25	15.875	6.26	6.16		○	
27ER7.0TR	7.0	2.4	2.7	0.25	15.875	6.26	6.16		○	



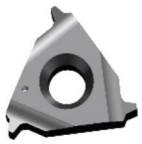
●Stock ○Available Upon Order

TR

▶ Internal Thread



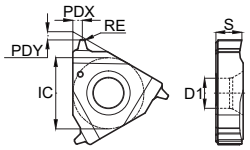
Order No.	Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11IR1.5TR	1.5	0.9	1.0	0.47	6.35	3	3.2		○	
16IR1.5TR	1.5	1.0	1.1	0.10	9.525	3.47	4		●	
16IR2.0TR	2.0	1.0	1.3	0.18	9.525	3.47	4		●	
16IL3.0TR	3.0	1.1	1.3	0.15	9.525	3.47	4		○	
16IR3.0TR	3.0	1.1	1.3	0.15	9.525	3.47	4		●	
22IR4.0TR	4.0	1.6	1.9	0.25	12.7	4.71	5		●	
22IR5.0TR	5.0	1.84	2.2	0.25	12.7	4.71	5		●	
22IR6.0TR	6.0	1.9	2.2	0.25	12.7	4.71	5		●	
27IR6.0TR	6.0	1.9	2.2	0.25	15.875	6.276	6.16		○	
27IR7.0TR	7.0	2.5	2.8	0.25	15.875	6.15	6.16		○	



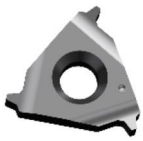
●Stock ○Available Upon Order

ACME

▶ External Thread



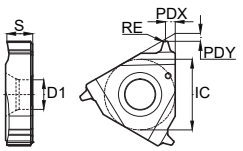
Order No.	Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11ER16ACME	16	0.9	1.0	0.08	6.35	3	3.2		○	
16ER16ACME	16	0.9	1.0	0.08	9.525	3.47	4		○	
16ER14ACME	14	0.9	1.0	0.08	9.525	3.47	4		○	
16ER12ACME	12	1.1	1.3	0.12	9.525	3.47	4		●	
16ER10ACME	10	1.1	1.0	0.1	9.525	3.47	4		●	
16ER8ACME	8	1.3	1.5	0.15	9.525	3.47	4		●	
16EL8ACME	8	1.4	1.8	0.15	9.525	3.47	4		○	
16ER7ACME	7	1.6	2.0	0.25	9.525	3.47	4		○	
16ER6ACME	6	1.6	1.8	0.08	9.525	3.47	4		○	
22ER6ACME	6	1.65	1.75	0.08	12.7	4.71	5	○	●	
22EL6ACME	6	1.8	2.1	0.08	12.7	4.71	5		○	
22ER5ACME	5	2	2.2	0.12	12.7	4.71	5	●	●	
27ER4ACME	4	2.4	2.7	0.15	15.875	6.15	6.16		●	



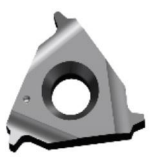
●Stock ○Available Upon Order

ACME

▶ Internal Thread



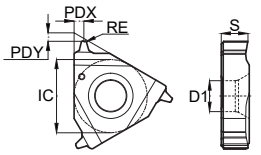
Order No.	Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11IR16ACME	16	0.9	1.0	0.08	6.35	3	3.2		○	
16IR16ACME	16	1.0	1.1	0.08	9.525	3.47	4		○	
16IR14ACME	14	0.9	1.0	0.08	9.525	3.47	4		○	
16IR12ACME	12	1.1	1.3	0.08	9.525	3.47	4		●	
16IR10ACME	10	1.2	1.3	0.08	9.525	3.47	4		○	
16IR8ACME	8	1.4	1.8	0.15	9.525	3.47	4		●	
16IL8ACME	8	1.4	1.8	0.15	9.525	3.47	4		○	
16IR7ACME	7	1.6	1.9	0.15	9.525	3.47	4		○	
16IR6ACME	6	1.6	1.8	0.11	9.525	3.47	4		●	
22IR6ACME	6	1.65	1.8	0.11	12.7	4.71	5		●	
22IL6ACME	6	1.8	2.1	0.11	12.7	4.71	5		○	
22IR5ACME	5	2	2.2	0.12	12.7	4.71	5		●	
27IR4ACME	4	2.4	2.7	0.15	15.875	6.15	6.16		●	



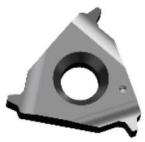
●Stock ○Available Upon Order

STACME

▶ External Thread



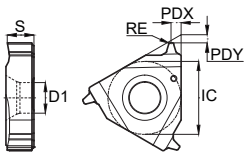
Order No.	Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11ER16STACME	16	0.9	1.0	0.08	6.35	3	3.2		○	
16ER16STACME	16	0.9	1.0	0.08	9.525	3.47	4		○	
16ER14STACME	14	1.0	1.1	0.08	9.525	3.47	4		●	
16ER12STACME	12	1.1	1.1	0.10	9.525	3.47	4		●	
16ER10STACME	10	1.2	1.2	0.10	9.525	3.47	4		●	
16ER8STACME	8	1.4	1.4	0.10	9.525	3.47	4		●	
16EL8STACME	8	1.4	1.5	0.20	9.525	3.47	4		○	
16ER6STACME	6	1.5	1.5	0.11	9.525	3.47	4		●	
22ER6STACME	6	1.7	1.9	0.11	12.7	4.71	5	○	●	
22EL6STACME	6	1.7	1.9	0.11	12.7	4.71	5		○	
22ER5STACME	5	2.1	2.3	0.12	12.7	4.71	5		○	
22ER4STACME	4	2.15	2.4	0.27	12.7	4.71	5		●	
27ER4STACME	4	2.4	2.7	0.27	15.875	6.15	6.16		○	
27ER3STACME	3	3	3.3	0.35	15.875	6.15	6.16		○	



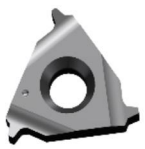
●Stock ○Available Upon Order

STACME

▶ Internal Thread



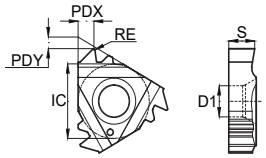
Order No.	Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11IR16STACME	16	0.9	1.0	0.08	6.35	3	3.2		○	
16IR16STACME	16	0.9	1.0	0.08	9.525	3.47	4		○	
16IR14STACME	14	1.0	1.1	0.08	9.525	3.47	4		●	
16IR12STACME	12	1.1	1.1	0.08	9.525	3.47	4		●	
16IR10STACME	10	1.2	1.3	0.10	9.525	3.47	4		●	
16IR8STACME	8	1.2	1.1	0.1	9.525	3.47	4		●	
16IL8STACME	8	1.2	1.1	0.1	9.525	3.47	4		○	
16IR6STACME	6	1.8	1.8	0.12	9.525	3.47	4		●	
22IR6STACME	6	1.7	1.8	0.12	12.7	4.71	5	○	●	
22IL6STACME	6	1.7	1.8	0.12	12.7	4.71	5		○	
22IR5STACME	5	2.1	2.3	0.12	12.7	4.71	5		●	
22IR4STACME	4	2.3	2.4	0.27	12.7	4.71	5		●	
27IR4STACME	4	2.4	2.7	0.27	15.875	6.15	6.16		○	
27IR3STACME	3	3.0	3.3	0.35	15.875	6.15	6.16		○	

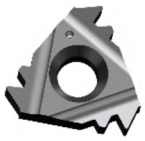


●Stock ○Available Upon Order

SAGE

▶ External Thread

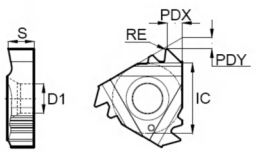


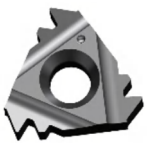
Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER2.0SAGE	2.0	1.3	1.8	0.22	9.525	3.47	4		○	
	22ER3.0SAGE	3.0	1.6	2.3	0.34	12.7	4.71	5		○	
	22ER4.0SAGE	4.0	1.8	2.7	0.46	12.7	4.71	5		●	

●Stock ○Available Upon Order

SAGE

▶ Internal Thread

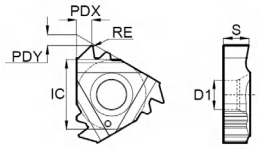


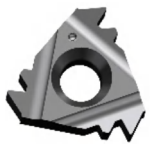
Order No.		Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16IR2.0SAGE	2.0	1.5	1.9	0.12	9.525	3.47	4		○	
	22IR3.0SAGE	3.0	1.9	2.5	0.11	12.7	4.71	5		○	
	22IR4.0SAGE	4.0	2.0	2.8	0.14	12.7	4.71	5		○	

●Stock ○Available Upon Order

ABUT

▶ External Thread

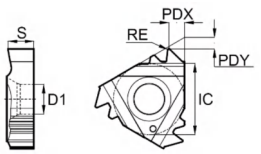


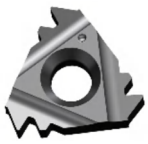
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER20ABUT	20	1.0	1.3	0.08	9.525	3.47	4		○	
	16ER16ABUT	16	1.3	1.9	0.08	9.525	3.47	4		○	
	16ER12ABUT	12	1.3	1.9	0.12	9.525	3.47	4		○	
	16ER10ABUT	10	1.5	2.1	0.15	9.525	3.47	4		○	
	22ER8ABUT	8	2.0	3.0	0.18	12.7	4.71	5		○	
	22ER6ABUT	6	2.2	3.3	0.23	12.7	4.71	5		○	

●Stock ○Available Upon Order

ABUT

▶ Internal Thread

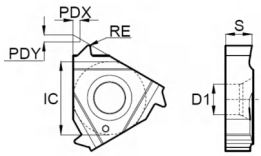


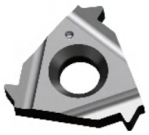
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16IR20ABUT	20	1.0	1.3	0.08	9.525	3.47	4		○	
	16IR16ABUT	16	1.3	1.8	0.08	9.525	3.47	4		●	
	16IR12ABUT	12	1.4	2.0	0.12	9.525	3.47	4		○	
	16IR10ABUT	10	1.5	2.2	0.15	9.525	3.47	4		○	
	22IR8ABUT	8	2.0	3.0	0.18	12.7	4.71	5		○	
	22IR6ABUT	6	2.2	3.3	018	12.7	4.71	5		○	

●Stock ○Available Upon Order

BBUT

▶ External Thread

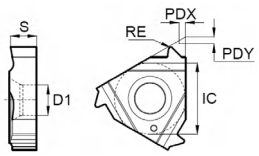


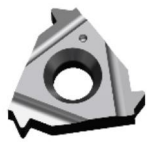
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER16BBUT	16	1.1	1.5	0.16	9.525	3.47	4		○	
	16ER12BBUT	12	1.3	1.9	0.22	9.525	3.47	4		○	
	16ER10BBUT	10	1.4	2.0	0.27	9.525	3.47	4		○	
	16ER8BBUT	8	1.6	2.2	0.35	9.525	3.47	4		○	

●Stock ○Available Upon Order

BBUT

▶ Internal Thread

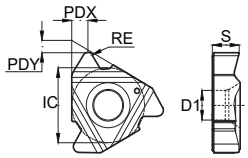


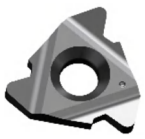
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16IR16BBUT	16	1.1	1.5	0.16	9.525	3.47	4		○	
	16IR12BBUT	12	1.3	1.9	0.22	9.525	3.47	4		○	
	16IR10BBUT	10	1.4	2.0	0.27	9.525	3.47	4		○	
	16IR8BBUT	8	1.6	2.2	0.35	9.525	3.47	4		○	

●Stock ○Available Upon Order

API

▶ External Thread

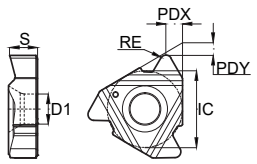


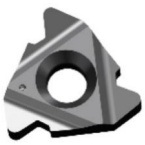
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	22ER5API403	5	2.0	2.6	0.511	12.7	4.71	5	○		
	22ER4API382	4	2.1	2.8	0.971	12.7	4.71	5	●	●	
	22ER4API383	4	1.9	2.7	0.971	12.7	4.71	5	○	○	
	22ER4API502	4	1.9	2.8	0.639	12.7	4.71	5		●	
	22ER4API503	4	2.1	2.7	0.639	12.7	4.71	5		○	

●Stock ○Available Upon Order

API

▶ Internal Thread

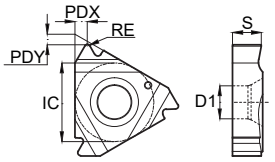


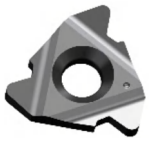
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	22IR5API403	5	2.0	2.7	0.515	12.7	4.71	5	●		
	22IR4API382	4	2.1	2.8	0.979	12.7	4.71	5	●	●	
	22IR4API383	4	1.9	2.7	0.979	12.7	4.71	5	○	○	
	22IR4API502	4	2.0	2.7	0.644	12.7	4.71	5	●	●	
	22IR4API503	4	2.0	2.8	0.644	12.7	4.71	5	○		

●Stock ○Available Upon Order

API RD

▶ External Thread

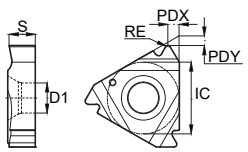


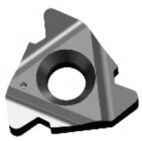
Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER10APIRD	10	1.48	1.5	0.435	9.525	3.47	4		●	
	16ER8APIRD	8	1.3	1.5	0.359	9.525	3.47	4	●	●	

●Stock ○Available Upon Order

API RD

▶ Internal Thread

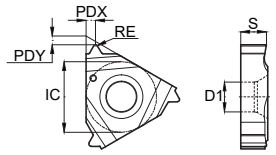


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16IR10APIRD	10	1.5	1.3	0.361	9.525	3.47	4		●	
	16IR8APIRD	8	1.5	1.3	0.438	9.525	3.47	4	○	●	

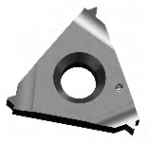
●Stock ○Available Upon Order

MJ

▶ External Thread



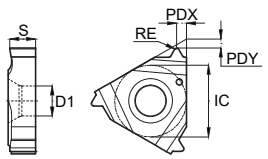
Order No.	Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
16ER1.00MJ	1.00	0.6	0.7	0.165	9.525	3.47	4		●	
16ER1.25MJ	1.25	0.8	0.9	0.207	9.525	3.47	4		●	
16ER1.50MJ	1.50	0.8	1.1	0.24	9.525	3.47	4		●	
16EL1.50MJ	1.50	0.8	1.1	0.24	9.525	3.47	4		○	
16ER1.75MJ	1.75	0.9	1.2	0.29	9.525	3.47	4		○	
16ER2.00MJ	2.00	1.0	1.3	0.33	9.525	3.47	4		●	
16ER2.50MJ	2.50	1.1	1.5	0.41	9.525	3.47	4		○	
16ER3.00MJ	3.00	1.2	1.6	0.50	9.525	3.47	4		○	



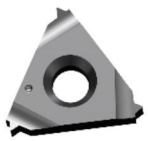
●Stock ○Available Upon Order

MJ

▶ Internal Thread



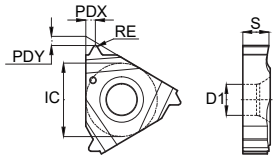
Order No.	Pitch (mm)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11IR1.00MJ	1.00	0.6	0.7	0.07	6.35	3	3.2		○	
11IR1.25MJ	1.25	0.8	0.9	0.08	6.35	3	3.2		○	
11IR1.50MJ	1.50	0.7	1.0	0.09	6.35	3	3.2		○	
11IR2.00MJ	2.00	1.0	1.3	0.13	6.35	3	3.2		○	
16IR1.00MJ	1.00	0.6	0.7	0.07	9.525	3.47	4		●	
16IR1.25MJ	1.25	0.8	0.9	0.08	9.525	3.47	4		○	
16IR1.50MJ	1.50	0.8	1.0	0.09	9.525	3.47	4		○	
16IR2.00MJ	2.00	1.0	1.3	0.13	9.525	3.47	4		○	
16IR2.50MJ	2.50	1.1	1.5	0.15	9.525	3.47	4		○	
16IR3.00MJ	3.00	1.2	1.6	0.18	9.525	3.47	4		○	



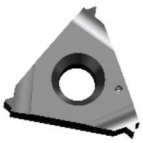
●Stock ○Available Upon Order

UNJ

▶ External Thread



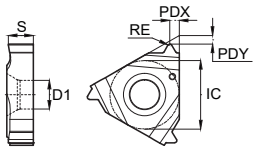
Order No.	Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11ER32UNJ	32	0.6	0.7	0.13	6.35	3	3.2		○	
11ER28UNJ	28	0.6	0.7	0.15	6.35	3	3.2		○	
11ER24UNJ	24	0.6	0.7	0.18	6.35	3	3.2		○	
11ER20UNJ	20	0.7	0.9	0.21	6.35	3	3.2		○	
11ER18UNJ	18	0.8	1.0	0.23	6.35	3	3.2		○	
11ER16UNJ	16	0.8	1.0	0.25	6.35	3	3.2		○	
11ER14UNJ	14	1.0	1.2	0.30	6.35	3	3.2		○	
16ER32UNJ	32	0.6	0.7	0.13	9.525	3.47	4		●	
16ER28UNJ	28	0.6	0.7	0.15	9.525	3.47	4		●	
16ER24UNJ	24	0.6	0.7	0.175	9.525	3.47	4		○	
16ER20UNJ	20	0.7	0.9	0.21	9.525	3.47	4		●	
16ER18UNJ	18	0.8	1.0	0.23	9.525	3.47	4		●	
16ER16UNJ	16	0.8	1.0	0.263	9.525	3.47	4		○	
16ER14UNJ	14	1.0	1.2	0.30	9.525	3.47	4		○	
16ER12UNJ	12	1.0	1.2	0.35	9.525	3.47	4		○	
16ER10UNJ	10	1.1	1.4	0.42	9.525	3.47	4		○	
16ER8UNJ	8	1.4	1.7	0.54	9.525	3.47	4		○	



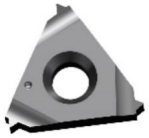
●Stock ○Available Upon Order

UNJ

▶ Internal Thread



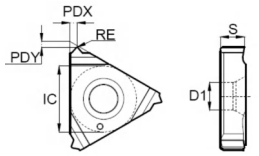
Order No.	Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
		PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
11IR32UNJ	32	0.6	0.6	0.025	6.35	3	3.2		○	
11IR28UNJ	28	0.6	0.7	0.05	6.35	3	3.2		○	
11IR24UNJ	24	0.6	0.8	0.05	6.35	3	3.2		○	
11IR20UNJ	20	0.7	0.9	0.07	6.35	3	3.2		○	
11IR18UNJ	18	0.8	1.0	0.07	6.35	3	3.2		○	
11IR16UNJ	16	0.8	1.0	0.07	6.35	3	3.2		○	
11IR14UNJ	14	1.0	1.2	0.1	6.35	3	3.2		○	
16IR32UNJ	32	0.6	0.6	0.05	9.525	3.47	4		○	
16IR28UNJ	28	0.5	0.7	0.05	9.525	3.47	4		○	
16IR24UNJ	24	0.6	0.8	0.05	9.525	3.47	4		○	
16IR20UNJ	20	0.7	0.9	0.07	9.525	3.47	4		○	
16IR18UNJ	18	0.8	1.0	0.07	9.525	3.47	4		○	
16IR16UNJ	16	0.8	1.0	0.07	9.525	3.47	4		●	
16IR14UNJ	14	1.0	1.2	0.10	9.525	3.47	4		○	
16IR12UNJ	12	1.0	1.3	0.12	9.525	3.47	4		○	
16IR10UNJ	10	1.0	1.4	0.15	9.525	3.47	4		○	
16IR8UNJ	8	1.0	1.4	0.19	9.525	3.47	4		○	

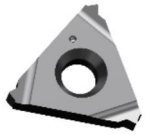


●Stock ○Available Upon Order

PG

▶ External Thread

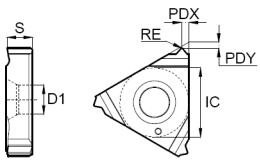


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	16ER20PG	20	0.8	0.9	0.14	9.525	3.47	4		○	
	16ER18PG	18	0.8	0.9	0.09	9.525	3.47	4		○	
	16ER16PG	16	0.8	1.0	0.12	9.525	3.47	4		○	

●Stock ○Available Upon Order

PG

▶ Internal Thread

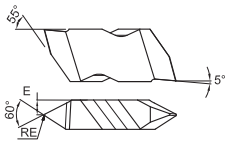


Order No.		Pitch (TPI)	Dimensions (mm)						Coated Cemented Carbide		
			PDY	PDX	RE	IC	S	D1	GM3215	GM3225	GM3325
	11IR20PG	20	0.7	0.9	0.08	6.35	3	3.2		○	
	11IR18PG	18	0.8	1.0	0.09	6.35	3	3.2		○	
	11IR16PG	16	0.8	1.0	0.12	6.35	3	3.2		○	
	16IR20PG	20	0.7	0.9	0.08	9.525	3.47	4		○	
	16IR18PG	18	0.8	1.0	0.09	9.525	3.47	4		○	
	16IR16PG	16	0.8	1.0	0.12	9.525	3.47	4		○	

●Stock ○Available Upon Order

GNTP

▶ 60° General Thread Inserts, with Rake Angle

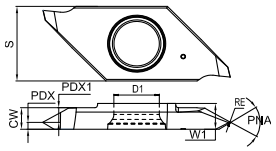


Order No.		Insert Specifications	Pitch				Dimensions (mm)		Coated Cemented Carbide
			External Thread (mm)	Internal Thread (mm)	External Thread (TPI)	Internal Thread (TPI)	RE	E	GM3225
	GNTP2L	2	0.70-3.00	1.25-3.50	8-36	7-20	0.10	1.91	●
	GNTP2R	2	0.70-3.00	1.25-3.50	8-36	7-20	0.10	1.91	●
	GNTP3L	3	1.25-4.00	2.00-5.00	4-20	5-12	0.17	2.49	●
	GNTP3R	3	1.25-4.00	2.00-5.00	4-20	5-12	0.17	2.49	●

●Stock ○Available Upon Order

GSTT

▶ Small Part Threading Inserts

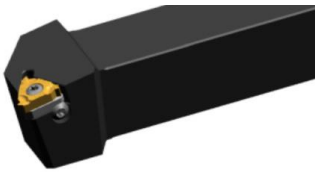


Order No.		Pitch		Dimensions (mm)								Coated Cemented Carbide	
		mm	TPI	W1	CW	S	D1	RE	PDX	PDX1	PNA	GAT7115	GAT7125
	GSTT3LA6000	0.2-5.0	64-48	3	2.5	8.7	5.2	-	2.1	0.4	60 °	●	●
	GSTT3LB6000	0.2-5.0	64-48	3	2.5	8.7	5.2	-	0.4	2.1	60 °	●	●
	GSTT3LA60005	0.5-1.25	48-24	3	2.5	8.7	5.2	0.05	1.7	0.8	60 °	●	●
	GSTT3LB60005	0.5-1.25	48-24	3	2.5	8.7	5.2	0.05	0.8	1.7	60 °	●	●
	GSTT3LN6001	1-1.5	24-18	3	2.5	8.7	5.2	0.1	1.25	1.25	60 °	●	●
	GSTT3LA55005	-	40-16	3	2.5	8.7	5.2	0.05	1.7	0.8	55 °	●	●
	GSTT3LB55005	-	40-16	3	2.5	8.7	5.2	0.05	0.8	1.7	55 °	●	●
	GSTT3RA6000	0.2-0.6	64-48	3	2.5	8.7	5.2	-	0.4	2.1	60 °	●	●
	GSTT3RB6000	0.2-0.6	64-48	3	2.5	8.7	5.2	-	2.1	0.8	60 °	●	●
	GSTT3RA60005	0.5-1.25	48-24	3	2.5	8.7	5.2	0.05	0.8	1.7	60 °	●	●
	GSTT3RB60005	0.5-1.25	48-24	3	2.5	8.7	5.2	0.05	1.7	0.8	60 °	●	●
	GSTT3RN6001	1-1.5	24-18	3	2.5	8.7	5.2	0.1	1.25	1.25	60 °	●	●
	GSTT3RA55005	-	40-16	3	2.5	8.7	5.2	0.05	0.8	1.7	55 °	●	●
	GSTT3RB55005	-	40-16	3	2.5	8.7	5.2	0.05	1.7	0.8	55 °	●	●

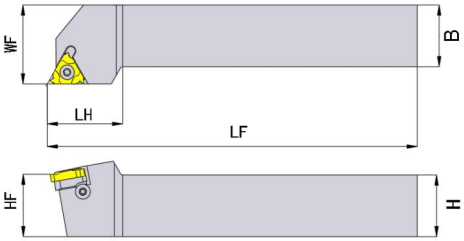
●Stock ○Available Upon Order

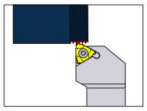
Thread Turning Tool Holders

External Diameter Tool Holder



The diagram shows the right hand



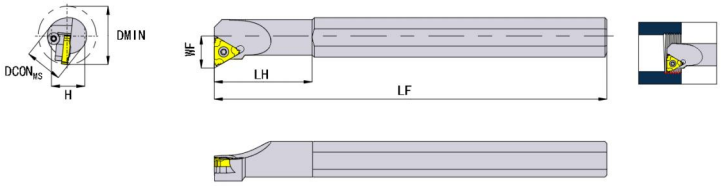


Order No.	Dimensions (mm)					Suitable Insert	Screw	Shim	Shim Screw	Wrench	Shim Wrench	Weight (KG)	In Stock	
	H=HF	B	LF	WF	LH								R	L
SER/L1212F11	12	12	80	14	16	11ER/L...	SI60M025080-03510H	\	\	TT08PH	\	0.09	●	●
SER/L1212F16	12	12	80	16	21		SI60M035090-05312H	\	\	TT15PH	\	0.09	●	
SER1212H16	12	12	100	16	21		SI60M035090-05312H	\	\	TT15PH	\	0.09	○	
SER/L1616H16	16	16	100	20	24		SI60M035120-05316H	DEN16P15SH	SSBM030060H	TT15PH	TH25LH	0.20	●	●
SER/L2020K16	20	20	125	25	27	16ER/L...	SI60M035120-05316H	DEN16P15SH	SSBM030060H	TT15PH	TH25LH	0.39	●	●
SER/L2525M16	25	25	150	32	32		SI60M035120-05316H	DEN16P15SH	SSBM030060H	TT15PH	TH25LH	0.74	●	●
SER3225P16	32	25	170	40	30		SI60M035120-05316H	DEN16P15SH	SSBM030060H	TT15PH	TH25LH	0.96	○	
SER/L3232P16	32	32	170	40	31		SI60M035120-05316H	DEN16P15SH	SSBM030060H	TT15PH	TH25LH	1.37	●	○
SER/L2525M22	25	25	150	32	31		SI60M040160-07013H	DEN22P15SH	SSBM040060H	TT20PH	TH30LH	0.74	●	○
SER3225P22	32	25	170	40	32	22ER/L...	SI60M040160-07013H	DEN22P15SH	SSBM040060H	TT20PH	TH30LH	0.96	○	
SER/L3232P22	32	32	170	40	32		SI60M040160-07013H	DEN22P15SH	SSBM040060H	TT20PH	TH30LH	1.37	●	○
SER/L4040R22	40	40	200	50	32		SI60M040160-07013H	DEN22P15SH	SSBM040060H	TT20PH	TH30LH	2.51	○	○
SER2525M27	25	25	150	32	25		SI60M050160-07212H	DEN27P15SH	SSBM040060H	TT20PH	TH30LH	0.74	○	
SER/L3232P27	32	32	170	40	33	27ER/L...	SI60M050160-07212H	DEN27P15SH	SSBM040060H	TT20PH	TH30LH	1.37	●	●
SER/L4040R27	40	40	200	50	33		SI60M050160-07212H	DEN27P15SH	SSBM040060H	TT20PH	TH30LH	2.51	○	●

●Stock ○Available Upon Order

Thread Turning Tool Holders

Tool Holder with Internal Hole



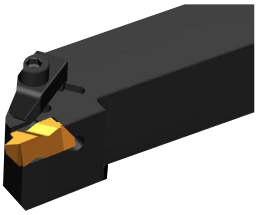
The diagram shows the right hand

Order No.	Dimensions (mm)						Suitable Insert	Screw	Shim	Shim Screw	Wrench	Shim Wrench	Weight (KG)	In Stock	
	DMIN	$DCON_{MS}$	H	LF	WF	LH								R	L
SIR/L0008K08	9.9	8	7.4	125	4.95	20	08IR/L...	SI60M022050-03008H	\	\	TT06PH	\	0.05	●	●
SIR/L0010K11	13	10	9	125	6.5	25		SI60M025060-03510H	\	\	TT08PH	\	0.08	●	●
SIR0010H11	13	10	9	100	6.5	25		SI60M025060-03510H	\	\	TT08PH	\	0.08	○	
SIR/L0010K11-A16	13	16	15	125	6.5	30	11IR/L...	SI60M025060-03510H	\	\	TT08PH	\	0.20	●	○
SIR/L0012K11	15	12	11	125	7.4	28		SI60M025060-03510H	\	\	TT08PH	\	0.11	●	○
SIR/L0012K11-A16	15	16	15	125	7.4	36		SI60M025060-03510H	\	\	TT08PH	\	0.20	●	○
SIR/L0013M16	19	13	15	150	9.4	32		SI60M035090-05312H	\	\	TT15PH	\	0.24	●	○
SIR/L0016Q16	21	16	15	180	10.8	40		SI60M035090-05312H	\	\	TT15PH	\	0.28	●	
SIR0016N16	21	16	15	160	10.8	40		SI60M035090-05312H	\	\	TT15PH	\	0.28	○	
SIR/L0020Q16	24	20	18	180	13.1	40		SI60M035120-05316H	DIN16P15SH	SSBM030060H	TT15PH	TH25LH	0.44	●	●
SIR0020P16	24	20	18	170	13.1	40	16IR/L...	SI60M035120-05316H	DIN16P15SH	SSBM030060H	TT15PH	TH25LH	0.44	○	
SIR/L0025R16	29	25	23	200	15.6	45		SI60M035120-05316H	DIN16P15SH	SSBM030060H	TT15PH	TH25LH	0.77	●	○
SIR/L0032S16	38	32	30	250	19.1	50		SI60M035120-05316H	DIN16P15SH	SSBM030060H	TT15PH	TH25LH	1.58	●	○
SIR/L0040T16	44	40	38	300	23.1	55		SI60M035120-05316H	DIN16P15SH	SSBM030060H	TT15PH	TH25LH	2.96	○	○
SIR/L0050U16	60	50	48	350	28.1	50		SI60M035120-05316H	DIN16P15SH	SSBM030060H	TT15PH	TH25LH	5.39	○	○
SIR/L0020Q22	26	20	18	180	13.2	40		SI60M040120-07010H	\	\	TT20PH	\	0.44	●	●
SIR/L0025R22	32	25	23	200	16.4	46		SI60M040160-07013H	DIN22P15SH	SSBM040060H	TT20PH	TH30LH	0.77	●	●
SIR/L0032S22	39	32	30	250	19.9	50	22IR/L...	SI60M040160-07013H	DIN22P15SH	SSBM040060H	TT20PH	TH30LH	1.58	●	○
SIR/L0040T22	47	40	38	300	23.9	55		SI60M040160-07013H	DIN22P15SH	SSBM040060H	TT20PH	TH30LH	2.96	○	○
SIR/L0050U22	57	50	48	350	28.9	70		SI60M040160-07013H	DIN22P15SH	SSBM040060H	TT20PH	TH30LH	5.39	○	○
SIR/L0032S27	42	32	30	250	20.9	50		SI60M050160-07212H	DIN27P15SH	SSBM040060H	TT20PH	TH30LH	1.58	○	○
SIR/L0040T27	50	40	38	300	25	55	27IR/L...	SI60M050160-07212H	DIN27P15SH	SSBM040060H	TT20PH	TH30LH	2.96	○	○
SIR/L0050U27	60	50	48	350	30.1	70		SI60M050160-07212H	DIN27P15SH	SSBM040060H	TT20PH	TH30LH	5.39	○	○

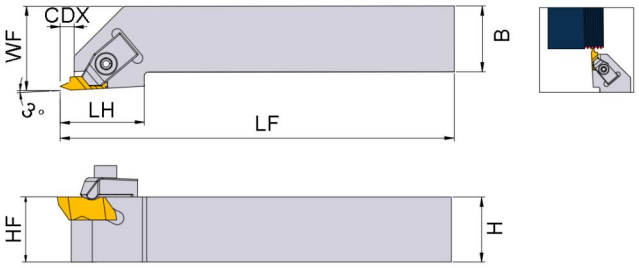
●Stock ○Available Upon Order

Thread Turning Tool Holders-GN Series

External Diameter Tool Holder-linear



The diagram shows the right hand



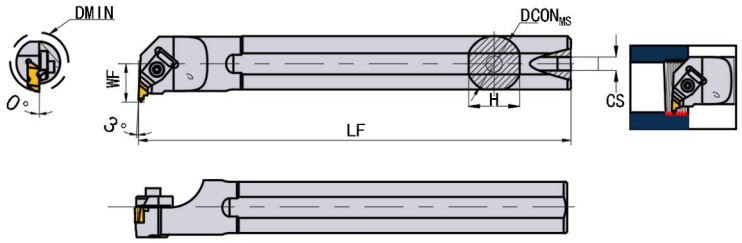
Order No.	Dimensions (mm)						Matched Insert	Screw	Clamp Plate	Wrench	Weight (KG)	In Stock
	H=HF	B	CDX	LF	WF	LH						
GNSR1616H2	16	16	3.5	100	20	19	GN.2R	SCAM040120H	CAN02RH	TH30LH	0.20	●
GNSR2020K2	20	20	3.5	125	25	19		SCAM040120H	CAN02RH	TH30LH	0.38	○
GNSR2525M2	25	25	3.5	150	32	19		SCAM040120H	CAN02RH	TH30LH	0.74	○
GNSL1616H2	16	16	3.5	100	20	19	GN.2L	SCAM040120H	CAN02LH	TH30LH	0.20	○
GNSL2020K2	20	20	3.5	125	25	19		SCAM040120H	CAN02LH	TH30LH	0.38	○
GNSL2525M2	25	25	3.5	150	32	19		SCAM040120H	CAN02LH	TH30LH	0.74	○
GNSR2020K3	20	20	5.3	125	25	32	GN.3R	SCAM050200H	CAN03RH	TH40LH	0.39	●
GNSR2525M3	25	25	5.3	150	32	32		SCAM050200H	CAN03RH	TH40LH	0.74	●
GNSL2020K3	20	20	5.3	125	25	32	GN.3L	SCAM050200H	CAN03LH	TH40LH	0.39	○
GNSL2525M3	25	25	5.3	150	32	32		SCAM050200H	CAN03LH	TH40LH	0.74	●

●Stock ○Available Upon Order

Thread Turning Tool Holders-GN Series

Tool Holder with Internal Hole

The diagram shows the right hand



Order No.	Dimensions (mm)					Matched Insert	Screw	Clamp Plate	Wrench	Weight (KG)	In Stock
	DMIN	$DCON_{MS}$	WF	LF	CS						
GNAR20Q2	26	20	13	180	1/8-27 NPT	GN.2L	SCAM040120H	CAN02LH	TH30LH	0.44	○
GNAR25R2	34	25	17	200	1/4-18 NPT		SCAM040120H	CAN02LH	TH30LH	0.77	○
GNAL20Q2	26	20	13	180	1/8-27 NPT	GN.2R	SCAM040120H	CAN02RH	TH30LH	0.44	●
GNAL25R2	34	25	17	200	1/4-18 NPT		SCAM040120H	CAN02RH	TH30LH	0.77	○
GNAR25R3	34	25	17	200	1/4-18 NPT	GN.3L	SCAM050200H	CAN03LH	TH40LH	0.77	○
GNAL25R3	34	25	17	200	1/4-18 NPT	GN.3R	SCAM050200H	CAN03RH	TH40LH	0.77	○

① The Right-hand (R) insert is applicable to the left-hand (L) tool holder, and the left-hand (L) insert is applicable to the Right-hand (R) tool holder.

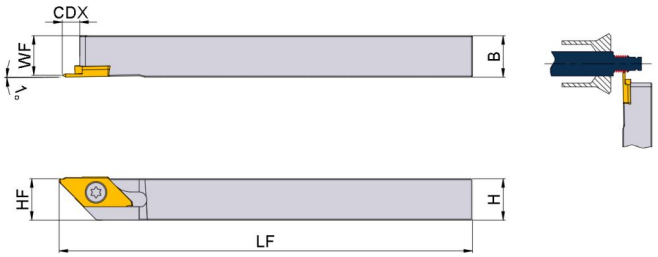
●Stock ○Available Upon Order

Thread Turning Tool Holders-GST Series

External Diameter Tool Holder

Dedicated for Automatic Lathe

The diagram shows the right hand



Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	CUTDIA	LF	HF	WF					R	L
GSTR/L1010JK3	10	10	6	12	120	10	10	GSTT3R/L	SSAM045095Q	TT10PQ	0.09	●	○
GSTR/L1212JK3	12	12	6	12	120	12	12		SSAM045095Q	TT10PQ	0.14	●	●
GSTR/L1616JK3	16	16	6	12	120	16	16		SSAM045095Q	TT10PQ	0.24	●	○
GSTR/L2020JK3	20	20	6	12	120	20	20		SSAM045095Q	TT10PQ	0.40	●	○
GSTR/L1010JK4	10	10	8	16	120	10	10	GSTT4R/L	SSAM045095Q	TT10PQ	0.09	●	○
GSTR/L1212JK4	12	12	8	16	120	12	12		SSAM045095Q	TT10PQ	0.14	●	●
GSTR/L1616JK4	16	16	8	16	120	16	16		SSAM045095Q	TT10PQ	0.24	●	○
GSTR/L2020JK4	20	20	8	16	120	20	20		SSAM045095Q	TT10PQ	0.40	●	○

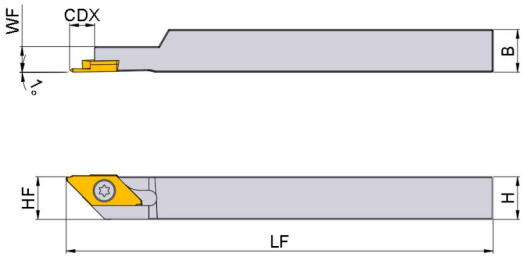
●Stock ○Available Upon Order

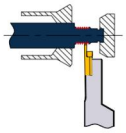
Thread Turning Tool Holders-GST Series

External Diameter Tool Holder

Used for Sub-spindle of Automatic Lathe

The diagram shows the right hand





Dedicated for automatic lathe

Order No.	Dimensions (mm)							Matched Insert	Screw	Wrench	Weight (KG)	In Stock	
	H=HF	B	CDX	CUTDIA	LF	HF	WF					R	L
GSTR/L1010JK3-RS	10	10	6	12	120	10	7.2	GSTT3R/L	SSAM045070Q	TT10PQ	0.09	●	○
GSTR/L1212JK3-RS	12	12	6	12	120	12	7.2		SSAM045070Q	TT10PQ	0.14	●	○
GSTR/L1010JK4-RS	10	10	6	12	120	10	7.2	GSTT4R/L	SSAM045070Q	TT10PQ	0.09	●	○
GSTR/L1212JK4-RS	12	12	6	12	120	12	7.2		SSAM045070Q	TT10PQ	0.14	●	●

●Stock ○Available Upon Order

Recommended Cutting Data (Number of Tool Paths)

Pitch	0.5	0.75	1	1.25	1.5	1.75	2	2.5	3	3.5	4	4.5	5	5.5	6
TPI	48	32	24	20	16	14	12	10	8	7	6	5.5	5	4.5	4
Number of Tool Paths	4-6	4-7	4-8	5-9	5-10	5-10	6-12	8-14	8-16	9-17	9-18	10-19	10-20	11-20	11-21

Recommended Cutting Data (Cutting Speed)

ISO	Workpiece Material			Hardness	Cutting Range	Purpose	Chip Breaker	Grade	Cutting Speed Vc (m/min)
P	Carbon Steel	Low-carbon (C=0.1-0.25%)		HB125	Finishing, Semi-finishing	Continuous	TC	GM3325	120-160-230
		Medium-carbon (C=0.25-0.55%)		HB150					100-150-195
		High-carbon (C=0.55-0.80%)		HB170					90-140-180
	Low Alloy Steel	Non-hardening		HB180					100-130-180
		Hardening		HB275					75-100-140
		Hardening		HB350					60-80-130
	High Alloy Steel	Annealing		HB200					80-110-140
		Hardening		HB325					70-90-115
	Cast Steel	Unalloyed		HB180					180-200-220
		Low Alloy		HB200					70-110-150
		High Alloy		HB225					60-100-120
		Manganese Steel (12-14%Mn)		HB250					30-40-50
M	Stainless Steel	Austenitic		HB180	Finishing, Semi-finishing	Continuous	TC	GM3325	90-120-140
		Ferritic/Martensitic		HB200					70-140-170
		Duplex Stainless Steel		HB230					60-90-120
K	Malleable Cast Iron	Ferritic		HB130	Finishing, Semi-finishing	Continuous	TC	GM3325	110-130-170
		Pearlite		HB230					85-100-145
	Grey Cast Iron	Low Tensile Strength		HB180					100-120-160
		High Tensile Strength		HB260					80-100-140
	Nodular Cast Iron	Ferritic		HB160					110-125-160
		Pearlite		HB250					80-100-120
N	Forged Aluminum Alloy	Non-aging		HB60	Finishing, Semi-finishing	Continuous	TC	GM3325	350-500-700
		Aging		HB100					300-400-500
	Cast Aluminum Alloy	Non-aging		HB75					300-450-500
		Aging		HB90					200-290-400
		Silicon Containing (13-22%Si)		HB130					100-200-300
	Copper and Copper Alloy	Brass		HB90					100-220-300
		Bronze and Lead-free Copper		HB100					80-180-255
S	Heat-resisting Alloy	Iron-based	Annealing	HB200	Finishing, Semi-finishing	Continuous	TC	GM3325	35-45-60
			Aging	HB280					25-35-50
		Nickel-based and Cobalt-based	Annealing	HB250					15-25-30
			Aging	HB350					10-15-25
			Casting	HB320					10-13-20
	Titanium Alloy	Commercially Pure (99.5% Ti)		400Rm					140-150-170
		α+β Alloy		1050Rm					50-60-70
H	High-hardness Material	Hardened Steel		HRC55	Finishing, Semi-finishing	Continuous	TC	GM3325	40-45-50
		Chilled Cast Iron		HB400					30-40-50

Recommended Cutting Data of GST Series Threading Tool

Recommended Values for the Number of Tool Paths and Radial Infeed

Type		Pitch (mm)	Model	Tip (RE)	Total Cutting Depth (mm)	Number of Tool Paths (Times)	1	2	3	4	5	6	7	8	9	10
Metric Screw Thread	External Thread	0.20	GSTT 3R/L A/B6000	Max 0.05 Plain	0.15	4	0.06	0.04	0.03	0.02						
					0.19	4	0.07	0.06	0.04	0.02						
		0.30			0.23	4	0.08	0.07	0.06	0.02						
		0.35			0.27	5	0.08	0.07	0.06	0.04	0.02					
		0.40			0.30	5	0.10	0.08	0.06	0.04	0.02					
		0.45			0.34	6	0.10	0.08	0.06	0.04	0.04	0.02				
		0.50	GSTT 3R/L A/B6000	Max 0.05 Plain	0.38	6	0.10	0.10	0.07	0.05	0.04	0.02				
			GSTT 3R/L A/B60005	0.05	0.33	5	0.10	0.10	0.07	0.04	0.02					
		0.60	GSTT 3R/L A/B6000	Max 0.05 Plain	0.45	7	0.10	0.10	0.08	0.06	0.05	0.04	0.02			
			GSTT 3R/L A/B60005	0.05	0.40	6	0.10	0.10	0.08	0.06	0.04	0.02				
		0.70	GSTT 3R/L A/B60005	0.05	0.48	6	0.10	0.10	0.10	0.10	0.06	0.02				
		0.75		0.05	0.52	7	0.10	0.10	0.10	0.08	0.07	0.05	0.02			
		0.80		0.05	0.56	7	0.10	0.10	0.10	0.10	0.08	0.06	0.02			
		1.00	GSTT 3R/L A/B60005 GSTT 3R/L N6001	0.05	0.71	8	0.15	0.15	0.12	0.10	0.08	0.06	0.03	0.02		
				0.05	0.66	7	0.18	0.15	0.12	0.10	0.06	0.03	0.02			
		1.25		0.10	0.90	9	0.20	0.18	0.13	0.10	0.10	0.07	0.05	0.05	0.02	
				0.05	0.85	8	0.20	0.18	0.13	0.10	0.10	0.07	0.05	0.02		
		1.50	GSTT 3R/L N6001	0.10	1.04	10	0.20	0.18	0.14	0.12	0.10	0.10	0.08	0.05	0.05	0.02

Cutting Speed Recommendations

ISO	Workpiece Material	Hardness (HB)	Series	Grade	Linear Speed Vc(m/min)
P	Steel	⩽300	GSTT	GAT7115	120(60-180)
				GAT7125	90(40-150)
M	Stainless Steel	⩽300	GSTT	GAT7115	100(60-150)
				GAT7125	80(40-130)

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APPENDIX

Chip Breaker Comparison Table

ISO	Tool Type	Application	GESAC	Sandvik	Seco	Iscar	Kenna-Metal	Walter	Mitsubi-shi	Sumito-mo	Tungaloy	Kyocera	Taegutec	Korloy
P	Nega-tive	Finishing	GF QF TF SPL	PF QF LC	FF1 FF2 MF2	NF F3P	FP FN	FP5	LP SA SY SH	LU SU SE	TS TSF ZF	PP HQ CQ XQ	FA FG	VL VF VB
		Semi-finishing (L&R)	TS SV	K						UM HM	P S	25R	VF	
		Semi-finishing	GM QM TP	PM QM	M3 MF5	TF GN M3P	MP MN	MP3 MP5	MA MP	GU GE UX	TM DM AM	PQ PG PS GS PT	MC MP PC MT	VM LP MP GM
		Semi-finishing with Wiper	WMV	WMX WM	W-M3	WG	MW	NM	MW	GUW	SW ASW	WE WQ	WT	LW
		Rough-finish	QR	PR	M5 M6 MR6 MR7	NR T3P	RP RN	RP5 RP7	RP GH	MU ME MX	TH THS	GT PH	RT	GR
		Heavy Turning	QH	HR	RR9	R3P	RH	NRR	HX HV	HU HW HF	TU TUS		HT HY HD HZ	VT VH
	Posi-tive	Finishing	MM FP SPL	PF UF	MF2 F1	PF F3P	FP LF	FP4	FP FV LP	LU LB SU	PSF PS PSS	PP XQ	FA FG	VF VL
		Semi-finishing	TP GP	PM UM	M3 F2	PP SM 14	MP	MP4	MP MV	SF MU	PM	HQ	PC MT	HMP MP C25
		Rough-finish	KM	PR UR	M5		MF	RP4						
M	Nega-tive	Finishing	SF YF	MF	MF1	VL SF F3M	FP FS LF	NF4 NMS	FH SH LM	SU EF	SF	MQ GU	EA	HA VP2
		Semi-finishing	SM LM	23 MM QM	M1 MF3 MF4	TF PP M3M	MS MP	NM4	MM MS MA	EX GU	SM	MS MU HU	FG SF EM MP	GS HS MM
		Rough-finish	LR	MR	M5 MF5	NM R3M	RP	NR4 NR5	RM RK GH	EM MU	SH	TK ST	ET	VM RM
	Posi-tive	Finishing	MM FP	UF MF	F1	PF	LF	PM	FM LM	SU	PSF	GQ	FG	HFP VP1
		Semi-finishing-Roughing	MM GP	UM MM	MF2	SM	MF	PM5	MM MV no code	MU	PS PM	MQ	SA	HMP C25

Chip Breaker Comparison Table

ISO	Tool Type	Applica-tion	GESAC	Sandvik	Seco	Iscar	Kenna-Metal	Walter	Mitsubi-shi	Sumito-mo	Tungaloy	Kyocera	Taegutec	Korloy
K	Nega-tive	Semi-finishing	MK UK	KF KM	M4	GN	FN UN	MK5	LK MK GK	UZ UX	CF CM Com-plete Cycle	KQ KG C Com-plete Cycle	KT	MK GR VR
		Semi-finishing with Wiper	WMV	WMX WM	W-M3	WG	MW	NM	MW	GUW	SW ASW	WE WQ	WT	LW
		Rough-finish	HK	KR	M5 M6	NR	UN RP	RK5 RK7	GH RK	GZ	CH	KH GC ZS	RT	RK
	Positive	Finishing-Semi-finishing	MM GP	KF KM		14 19	MF	FK6 MK4	MK Com-plete Cycle	MU	CM	GK		HMP
		Rough-finish	KM	KM KR	M5		MP	RK4 RK6	Tablet	US	Tablet		MT	C25
N	Positive	General Machining	AL	AL	AL	AS	HP	PM2	AZ	AG	AL	AH	FL	AK
S	Nega-tive	Finishing-Semi-finishing	EL SML	SGF	MF1	PP	MS	MS3	MJ	EX	HRF	TK	ML	VP2
	Nega-tive	Semi-finishing	EM SMM	SM	M1	TF	UP	NMS	MS	EG	HRM	MS	MGS	VP3

Grade Comparison Table

ISO	Coat-ing	Code	GESAC	Sandvik	Seco	Iscar	Kenna-Metal	Walter	Mitsubi-shi	Sumito-mo	Tungaloy	Kyocera	Taegutec	Korloy
P	CVD	P01	GPT6110 GP1105	GC4205 GC4305	TP0500 TP0501 TP1000	IC9150 IC8150	KCP05B KC9105	WPP05S WPP05	UE6105 UE6005	AC810P	T9205 T9115 T9015	CA510 CA5505	TT8105 TT8115	NC3010
		P10	GPT6110 GP1115 GP1120	GC4215 GC4315 GC4415	TP0500 TP0501 TP1500 TP1501	IC9150 IC8150	KCP10B KC9110 KC9315	WPP10S WPP10	UE6010 UE6110 MC6015	AC810P AC8025P AC820P	T9215 T9115 T9015	CA515 CA5515	TT8105 TT8115	NC3010 NC3215
		P20	GPT6120 GPT6130 GP1120 GP1225	GC4225 GC4325 GC4425	TP1500 TP1501 TP2500 TP2501 TP2000	IC9250 IC8250	KCP25B KC9125 KC9225 KC9325	WPP20S WPP20	UE6120 UE6020 MC6025	AC820P	T9225 T9125 T9025	CA525 CA5525	TT8125 TT8115 TT5100	NC3225 NC3120
		P30	GPT6120 GPT6130 GP1225 GP1130 GP1135	GC4235 GC4335	TP2500 TP2501 TP3501 TP3500	IC635 IC9350 IC8350	KCP30B KC9140 KC9240	WPP30S WPP30	MC6035 UE6035	AC830P AC630M	T9235 T9135	CA530 CA5535	TT8125 TT5100 TT8135 TT7100	NC3030 NC5330
		P40	GP1135	GC4240 GC4335	TP3500 TP40	IC635	KCP40B KC9240	WPP30S WPP30	MC6035 UH6400	AC830P AC630M	T9235 T9135	CA530 CA5535	TT5100 TT8135 TT7100	NC3030 NC5330
	PVD	P01										PR1005		
		P10		GC1525 GC1025	CP200 TH1000 TS2000	IC250 IC507 IC570	KCU10 KC5010 KC5510		MS6015 VP10MF		AH710	PR1005 PR1115 PR1215		PC8110
		P20	GM3225	GC1525 GC1020 GC1125 GC1025	CP250 TS2500	IC908 IC928 IC1008 IC1028 IC3028	KCU25 KC5025 KC5525		VP15TF VP20MF	AC520U	AH710 AH330	PR930 PR1025 PR1115 PR1215 PR1425 PR1225	TT9020 TT7010 TT7220	PC5300 PC8115
		P30	GM3225	GC1125 GC1025	CP500	IC928 IC1008 IC1028 IC3028	KC5525		VP15TF VP20MF	AC530U	GH330 GH730 AH120 AH330 AH740	PR1025 RR1225 PR1535	TT8020 TT9020 TT7220	
		P40	GM3225	GC1145 GC2145	CP500	IC928 IC1008 IC1028	KC5525		VP15TF VP20MF		AH140		TT8020	

Grade Comparison Table

ISO	Coat-ing	Code	GESAC	Sandvik	Seco	Iscar	Kenna-Metal	Walter	Mitsubi-shi	Sumito-mo	Tungaloy	Kyocera	Taegutec	Korloy
M	PVD	M10	GM3215	GC1105 GC1115 GC1525		IC520	KCS10	WXM10	VP10RT	AC510U	AH110 AH8005	PR1025 PR1215	TT5080	PC8105
		M20	GM3220	GC1025 GC1115 GC1125 GC1525	TS2000 TS2500 CP200	IC520 IC507 IC807 IC907	KC5010 KC5510 KCU10	WSM10 WSM10S	VP10RT VP15TF VP20MF VP20RT UP20M	AC520U	AH120 AH630 AH8015 SH725 GH330	PR930 PR1025 PR1125 PR1215 PR1425 PR1225	TT9030 TT8010	PC8110 PC8115
		M30	GM3220 GM3225	GC1125 GC2035	TS2500 CP200 CP500	IC520 IC507 IC807 IC907 IC308 IC3028	KC5025 KC5525 KCU25	WSM20 WSM21 WSM20S	VP15TF VP20MF VP20RT UP20M MP7035	AC530U AC6040M	AH630 AH725 SH725 SH730 GH730	PR1125 PR1225 PR1535	TT9080 TT8020	PC5300 PC9030
		M40	GM3225	GC1125 GC2035	CP500 CP600	IC3028 IC308 IC908 IC928	KC5025 KC5525 KCU25	WSM30 WSM30S	MP7035	AC6040M	AH645			PC5400
	CVD	M10	GM1115	GC2015 GC2220		IC9250 IC520M	KCM15B	WAM10	MC7015	AC610M		CA6515	TT9215	NC9115
		M20	GM1115	GC1515 GC2015 GC2025 GC2220	TM2000 TP200	IC9025 IC9350 IC4050	KCM15B KCM25B	WAM20	MC7015 US7020 MC7025	AC6020M AC630M	T6120	CA6525	TT9215 TT9225	NC9125 NC9025 NC5330
		M30	GM1125 GM1230	GC2040 GC235	TM2000 TM4000 TP40	IC9350 IC4050 IC635	KCM25B KCM35B	WAM20	MC7025 US735	AC6030M AC630M AC830P	T6130		TT9225 TT9235	NC9135
		M40	GM1125 GM1230	GC235	TM4000	IC635	KCM35B KCP40B		US735				TT9235	
K	CVD	K01	GK1115	GC3205	TK1001 TH1500 TK1000	IC5005 IC8150	KCP05B KCP10B KCL05B	WKK10S WAK10	UC5105 MC5005	AC4010K AC405K	T5105	CA310 CA4010 CA4505 CA5505	TT7005	NC6205 NC6210
		K10	GK1115 GK1120	GC3205 GC3210 GC3215	TK1001 TK2001 TK2000 TP0500 TP1500	IC5005 IC5010	KCK15B TN5015B	WKK10S WAK10	UC5105 UC5115 MC5005 MC5015	AC4015K AC405K AC415K	T515 T5105 T5115	CA315 CA4515 CA4010 CA4115 CA4120	TT7005 TT7015	NC6205 NC6210 NC315K
		K20	GK1115 GK1120 GK1125	GC4325 GC3215 GC3220 GC3225	TK2001 TP2500	IC5010	KCK20B KCP25B	WKK10S WKK20S WAK10 WAK20	UC5115 MC5015	AC4015K AC415K AC420K	T5115 T5125	CA315 CA4515 CA4115 CA4120 CA4515	TT7015 TT7310	NC6215 NC315K NC5330 PC5300
		K30	GK1125	GC3040 GC4335	TK2001 TP2500 TP200			WAK30 WKP30S	UC5115 MC5015	AC420K AC820P	T5125	CA320 CA4120		NC5330 PC5300
N	PVD	N01	GN9110 GNT7120	H10 H13A			K605			H1 H2	KS05F	KW10		H01
		N10	GN9110 GNT7120		890 H15	IC20	K313 K110M THM	WK10	HTi10	EH10 EH510	TH10 H10T	KW10 GW15	K10	
		N20	GN9120 GNT7120		HX KX 883 H15 H25	IC20	K715 KMF K600			G10E EH20 EH520	KS15F		K20	
		N30	GN9130 GNT7120		H25 883		G13 THR							
S		S10	GST7115 GST7120 GS3115	GC1105	TS2000 TS2500	IC807 IC907	KCU10 KC5010	WSM10S	VP10RT MP9015	AC510U AC5015S	AH8015 AH905 SH730 AH110	PR005S PR015S	TT8010	AH8005 AH8015
		S20	GST7130	GC1115 GC1125	CP500	IC808 IC908	KCU25 KC5025	WSM20S	MP9015	AC510U AC520U AC5025S	AH8015 AH120 AH725	PR015S PR1535	TT8020	AH8015 AH7025

Cermet Grade Comparison Table

ISO	Coat-ing	Code	GESAC	Sandvik	Seco	Iscar	Ken-naMeta	Mitsubishi	Sumito-mo	Tungaloy	Kyocera	Taegutec	Korloy
P	None	P01				IC20N	KT1120	NX1010	T110A T1000A	NS520	TN610		CN20
		P10	GP91TM GP92TM	CT5015	TP1020	IC20N IC75T	KT1120 KT175	NX2525	T1200A T1500A	NS520 NS9530	TN610 TN60	CT3000	CN20 CN1000 CN1500
		P20	GP91TM GP92TM	CT5015	TP1020	IC20N IC75T IC30N	KT125	NX2525 NX3035	T1200A T1500A	NS9530 NS530 NS730	TN620 TN90	CT3000	CN1000 CN1500 CN2000
		P30				IC75T IC30N		NX3035 NX4545	T250A	NS740			CN2500
	PVD	P01-P20	GP31TM	GC1525	TP1030	IC520N IC530N	KT315 KTP10	AP25N VP25N MP3025 VP45N	T1500Z T2000Z T3000Z	J530 GT9530 GT530 GT730	PV710 PV720	PV3010	CC1500 CC2500

Comparison Table of PCBN&PCD Grades

ISO	Classification Code	GESAC	Sandvik	SECO	ISCAR	Kenna	Walter	Mitsubishi	Sumitomo	Tungaloy	Kyocera	TaeguTec	KORLOY
K	K01	BKN115P BKC120P	CB7525	CBN050C CBN300P	IB50 IB85	KB1630 KB1345	WCB80	MB710	BN500 BNC500 BN7000	BX910 BX930 BX950	KBN475	TB730	KB370
	K10	BKN115P BKN225Z BKN225S	CB50 CB7050	CBN20 CBN200 CBN300	IB55	KB9610	WCB50	MB5015 MB4020	BN7000 BN500	BX470 BX480 BX950	KBN60M KBN900	KB90A	KB350
	K20	BKN115P BKN225Z BKN225S		CBN350 CBN500 CBN600	IB90	KB9640	WCB80	BC5030 MB730 MBS140	BN7000 BNS800	BXC90 BX90S	KBN900		DBS800
H	H01	BHC210P BKN225Z	CB20	CBN050C CBN010 CBN10 CBN100	IB25HC IB20H	KB1610	WCB30	BC8105 MB810	BNC2010 BNC100 BN1000 BN2000 BNX10	BXM10 BX310 BXC30	KBN05M KBM10M KBN510	TB610 KB50	KB410 KB1000
	H10	BHC210P BHC115P BHC215Z BHC125P	CB7105 CB7015 CB50 CB7050	CBN160C CBN150 CBN060K CBN200	IB50	KB9610 KB5610 KB1615 KB1625	WCB50	BC8110 MBC010 MB825	BNC2010 BNC2020 BNC160 BNC200 BN2000	BXM10 BX330	KBN05M KBM10M KBN25M KBN510 KBN525	TB650 KB50	DNC250 KB320 KB2000
	H20	BHC225P BHC125P BHC225Z BHN225S	CB7115 CB7025 CB7525	CBN400C CBN300P CH2540 CBN350 CBN500	IB25HA IB55	KB5625 KB1340	WCB80	BC8120 MBC020 MB8025	BNC2020 BNC200 BNX20	BXM20 BXC50 BX380	KBN25M KBN30M KBN35M KBN900	TB670	KB420
	H30	BHC135P	CB7525	CH3515	IB55	KB9640 KB5630		BC8130 MB835	BNC300 BN350 BNX25	BXM20 BXC50 BXA20	KBN30M KBN35M KBN900	TB730 KB90A	DNC350 KB335 KB425
S	S01	BSN115P		CBN200		KB5630	WCB80	MB4020	BN7000	BX470 BX480	KBN65M KBN70M KBN570 KBN65B	KB90 KB90A	KB370
N	N01		CD05	PCD05		KD1405 PD100		MD205	DA1000 DA90	DX180 DX160	KPD001	TD810	DP200
	N10	DN- N125P	CD10	PCD10	ID5	KD1415 KD1400	WD10	MD220	DA1000 DA150	DX140 DX110	KPD001 KPD010 KPD230 KPD250		DP200
	N20	DN- N125P		PCD20		KD1425		MD230	DA1000 DA2200	DX120	KPD001 KPD010 KPD230 KPD250	KP300	DP150
	N30			PCD30 PCD30M		KD1400		MD2030	DA1000 DA2200	DX110			DP90

Selection Guide for Small Part Turning Tools

GAT7115 has a relatively good machining effect on stainless steels such as 303 and 304. GAT7125 has a relatively good machining effect on medium and high hardness stainless steel materials such as 316L. GAT7120A has a relatively good machining effect on plain steel, free cutting steel and so on.

Coated Cemented Carbide Grades

Range of Machining	GESAC	Kyocera	NTK	Sumitomo	TaeguTec	Mitsubishi	Tungaloy
High-speed Machining	GAT7115	PR1225	DM4/DT4/ST4	AC5015S AC520U			AH725
Low-speed Wear Resistance	GAT7120	PR930	TM4/ZM3/QM3	AC1030U		VP15TF	
Light Interrupted	GAT7125	PR1535	TM4/QM3	AC5025S	TT9020		SH730
General Machining of Steel Parts	GAT7120A	PR1725	TM4/ZM3/QM3				
Dedicated to Free Cutting Steel		PR1705	VM1				

Selection Guide for Small Part Turning Tools

Turning Geometry

Product Series	Product geometry						
	GESAC	Kyocera	NTK	Tungaloy	Sumitomo	Mitsubishi	TaeguTec
General Grooving Series	Negative-P	S	KHG/K	W	FY	F	
	Positive-P	F	KHG/K	W	FY	F	
	G	U	UHG/U·U1	JPP	FX	SS	
	S	Y	UHG/U·U1				
3d Chip Breaker Series	AF	CF	AMX				
	AK	SK/SKS	UL	JS			SA
	BF	GF	AZ7/YL/AM3		FC/SI		
	BK	CK	CL	JS			
	MM	GQ	YL		SC/SI		
Back-turning Series	GSAB	ABS	TBP		SBT		
	GSTB	TKFB		JXB JTB		BTAT	

Series	Features	Geometry	Recommended Working Conditions
General Grooving Series	1. It is divided into left-handed and right-handed types, and shall be selected according to the machining conditions. 2. Sharp cutting edge effectively reduces cutting force. 3. It is general for external diameter turning, and for end face turning with small cutting depths.	P	The design of the skewed slot makes it suitable for working conditions with small cutting depths and endows it with good chip removal and chip breaking capabilities.
		G	The design with a large rake angle and a long straight slot can meet the machining requirements of small feeds and relatively large cutting depths.
		S	The design of the tool cutting edge inclination angle and the long straight slot has a good chip guiding effect, realizes the general machining of small part products, and is suitable for the finishing-semi-finishing conditions.
3d Chip Breaker Series	1. It is generally applicable for both left-handed and right-handed use. 2. Chip processing can be carried out when the feed and cutting depth change. 3. It is generally applicable for external diameter and end face turning.	AF	The design with a small slot width and a large rake angle enables a tiny cutting depth ranging from 0.02 to 0.2mm. It has a good chip breaking effect and can help obtain a good machined surface.
		AK	With a sharp edge and the design of tool cutting edge inclination angle, it can achieve variable cutting depths and has good chip removal and chip guiding effects, thus obtaining a good machined surface.
		BF	It features a chip breaker and a design with a small rake angle. It is suitable for working conditions with small cutting depths that focus on chip processing. The high-strength tool tip meets the requirements of general machining.
		BK	The design with a large slot width and tool cutting edge inclination angle has a good chip removal effect and can obtain an excellent machined surface.
		MM	It features a design of twin rake angles and a double-curved chip breaker. It has a wide machining range and excellent performance in chip breaking and chip removal. It is suitable for the field of roughing for small parts.

Selection Guide for Small Part Turning Tools

Grooving and Parting Off

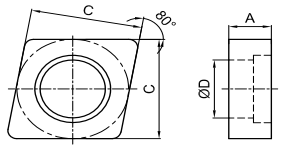
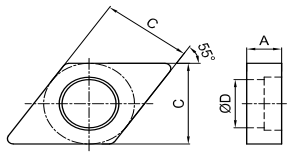
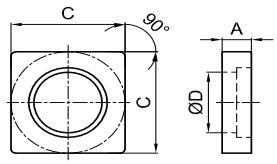
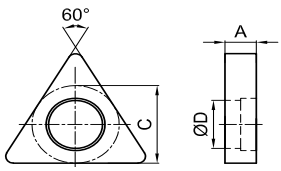
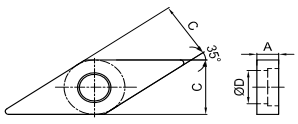
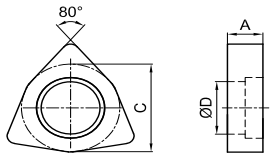
Product Series	Product Categories	GESAC	Kyocera	NTK	TaeguTec	Mitsubishi	Tungaloy	KORLOY	ISCAR
Shallow Slot	Three Edged Shallow Slot	Customized GB	TGF GBA	GTMH		GTAH	JSTG	TBGF	
Deep Slot	—	GKD	KGM	KGWP		GY2M	JCTE		
Grinding Type Parting Off	Vertically-Installed (General)	GSTC	TKF	CTP		CTAH	JXGR	SBC	SCH
	Vertically-Installed (Thin)	GSTS	TKFS						
Compression Type Parting Off	Slotted	GTD	GDM	CDTP	TDJ	GY	JCGWS	MGMN	DGN

Series	Selection of Lead Angles	Features	Geom-etry	Recommended Working Conditions
GSTC	The insert without lead angle can effectively prevent insert tipping and chip curling and have a longer service life; The insert with a lead angle can reduce the core size of solid rods and prevent residual rings and deformation in the hollow tube.	Conventional parting off tool, which is usually accompanied with right-handed tool holders. The left-handed tool holder is mainly used when the workpiece is clamped for parting off under assistance of a sub-spindle.	U	With a large rake angle and a small tip design, it has good sharpness and can effectively optimize the surface quality of the workpiece being machined.
			T	Strengthened insert, of which larger tip arc and smaller rake angle ensure edge strength and effectively improve the service life of the tool.
			N	The design of large flat slot and no tip ensures insert sharpness and also effectively improve the service life of the tool.
GSTS		Mainly used for clamping and parting off under assistance of the sub-spindle; when the workpiece diameter is small and suppresses the overhang depth of the spindle, thin inserts are beneficial for machining in narrow spaces.	U	With a large rake angle and a small tip design, it has good sharpness and can effectively optimize the surface quality of the workpiece being machined.
GSTT		Conventional threaded tools are generally suitable for the machining of General 55° and General 60° threads.	-	With a sharp rake angle design, it is suitable for the threading of general small parts.

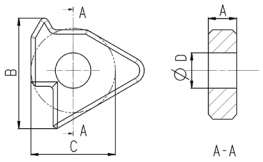
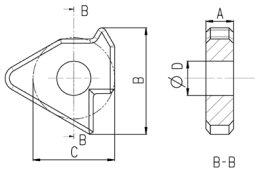
Thread

Product Series	Product Categories	GESAC	Kyocera	NTK	Tungaloy	ISCAR
Vertically-installed	Two Edged	GSTT	TKFT	TTP	JSXB	SCI

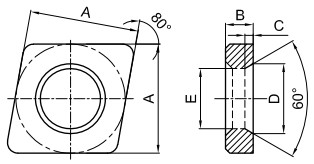
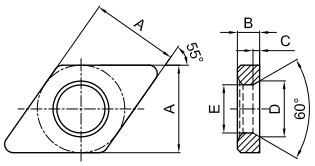
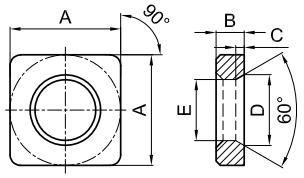
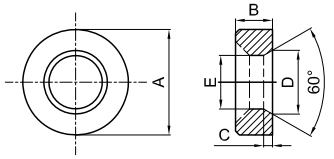
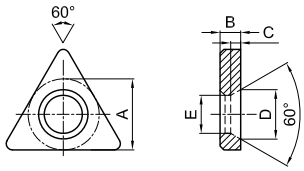
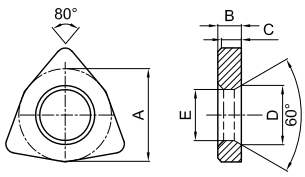
List of Accessory Specifications (Shim)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	DCN1204MH	4.76		12.4	7.4				External Diameter-M Type
	DCN1604MH	4.76		15.6	9.8				
	DCN1904MH	4.76		18.6	11.6				
	DDN1103MH	3.3		9.2	5.9				External Diameter-M Type
	DDN1504MH	4.76		12.4	7.4				
	DSN1204MH	4.76		12.4	7.4				External Diameter-M Type
	DSN1504MH	4.76		15.6	9.8				
	DSN1904MH	4.76		18.6	11.6				
	DTN1603MH	3.3		9.2	5.9				External Diameter-M Type
	DTN2204MH	4.76		12.4	7.4				
	DVN1603MH	3.3		9.2	5.9				External Diameter-M Type
	DWN0603MH	3.3		9.2	5.9				External Diameter-M Type
	DWN0804MH	4.76		12.4	7.4				

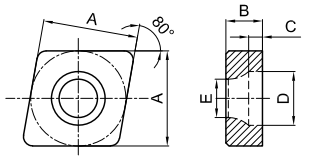
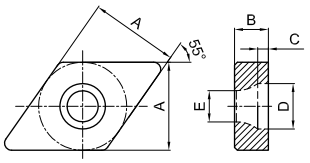
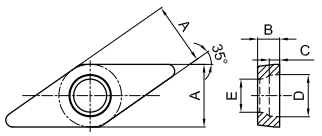
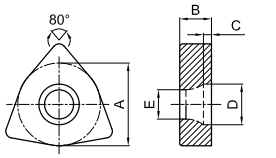
List of Accessory Specifications (Shim)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	DEN16P15SH	3.21	14.21	9.525	3.5				SER/L*16*
	DEN22P15SH	4.019	18.474	12.7	4.0				SER/L*22*
	DEN27P15SH	4.748	24.428	15.875	5.0				SER/L*27*
	DIN16P15SH	3.21	14.21	9.525	3.5				SIR/L*16*
	DIN22P15SH	4.019	18.474	12.7	4.0				SIR/L*22*
	DIN27P15SH	4.748	24.428	15.875	5.0				SIR/L*27*

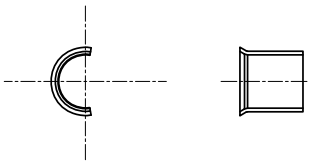
List of Accessory Specifications (Shim)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	DCN1203PD	12.5	3.18	0.98	8	6.9			External Diameter-P Type
	DCN1604PD	15.7	4.76	1.1	9.2	7.9			
	DCN1904PD	18.85	4.76	1.472	11.7	10			
	DCN2504PD	24.4	4.76	3.12	16.6	13			
	DDN11T2PD	9.35	2.7	0.7	9	5.2			External Diameter-P Type
	DDN1503PD	12.5	3.18	0.95	8	6.9			
	DSN1203PD	12.5	3.18	0.95	8	6.9			External Diameter-P Type
	DSN1504PD	15.7	4.76	1.13	9.2	7.9			
	DSN1904PD	18.75	4.76	1.47	11.7	10			
	DSN2506PD	24.4	6.35	3.29	16.6	12.8			
	DSN2504PD	24.4	4.76	2.5	15.68	12.8			
	DRN1204PD	9.8	3.18	1.13	6.2	4.9			External Diameter-P Type
	DRN1604PD	13.6	4.76	1.8	10.5	6.9			
	DRN2004PD	17.3	4.76	1.8	11.5	7.9			
	DRN2506PD	21.8	6.35	1.77	12.04	10			
	DTN16T2PD	9.35	2.7	1.3	6.5	5			External Diameter-P Type
	DTN2203PD	12.5	3.18	0.95	8	6.9			
	DWN06T2PD	9.35	2.7	1.3	6.5	5			External Diameter-P Type
	DWN0803PD	12.5	3.18	0.95	8	6.9			

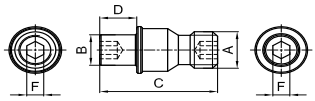
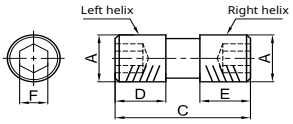
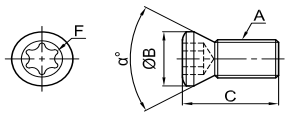
List of Accessory Specifications (Shim)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	DCN1204DD	12.4	4.76	1.6	6.2	4.4			External Diameter-D Type
	DCN1606DD	15.8	6.35	3	8.2	5.5			
	DDN1504DD	12.2	4.76	1.6	6.2	4.4			External Diameter-D Type
	DVN1603DD	9.1	3.18	1	6	4.4			External Diameter-D Type
	DWN0804DD	12.4	4.76	1.6	6.2	4.4			External Diameter-D Type

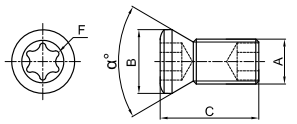
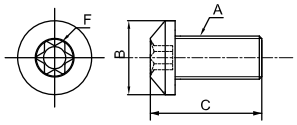
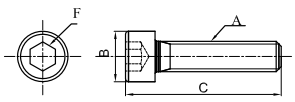
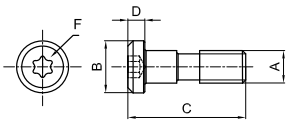
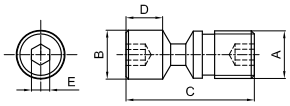
List of Accessory Specifications (Pad)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	PA3D	5	5.5						External Diameter-P Type
	PA4D	6.7	7						
	PA5D	7.8	8.5						
	PA6D	9.8	11						
	PA8D	13.05	12						

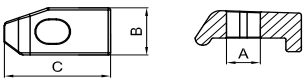
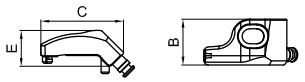
List of Accessory Specifications (Screw)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	SPM050130H	M5X0.8	3.7	13.2	5		2		External Diameter-M Type
	SPM060170H	M6X1.0	5	17.2	5.5		2.5		
	SPM060190H	M6X1.0	5	18.8	7.1		2.5		
	SPM080220FH	M8X1.0	6.2	21.8	6.7		3		
	SPM100240FH	M10X1.0	7.7	23.5	7		4		
	SDM060200H	M6X1.0		20	7	7	3		External Diameter-M Type
	SDM060250H	M6X1.0		25	9	9	3		
	SDM060280H	M6X1.0		28	9	9	3		
	SDM080350FH	M8X1.0		35	11	11	4		
	SI60M022060-03008H	M2.2X0.4	3.0	6			TT06	60	External Diameter-S Type Internal Hole-S Type Parting Of and Groov-ing Tool Holders Thread tool holder
	SI60M025060-03510H	M2.5X0.45	3.5	6			TT08	60	
	SI60M025080-03510H	M2.5X0.45	3.5	8			TT15	60	
	SI60M035090-05312H	M3.5×0.6	5.3	9			TT15	60	
	SI60M035120-05316H	M3.5×0.6	5.3	12			TT15	60	
	SI60M040100-05812H	M4X0.7	5.5	10			TT15	60	
	SI60M040120-07010H	M4X0.7	7	12			TT15	60	
	SI60M040140-05718H	M4X0.7	5.7	14			TT15	60	
	SI60M040160-05718H	M4X0.7	5.7	16			TT15	60	
	SI60M040160-07013H	M4X0.7	7	16			TT15	60	
	SI60M050120-07012H	M5X0.8	7.2	12			TT20	60	
	SI60M050160-07212H	M5X0.8	7.2	16			TT20	60	
	SI60M050120-07217H	M5X0.8	7.2	12			TT20	60	
	SI60M050160-07212H	M5X0.8	7.2	16			TT20	60	
	SI60M050160-07214H	M5X0.8	7.2	16			TT20	60	
	SI60M020050-02806S	M2.0X0.4	2.8	5			TT06	60	Small Parts External Diameter-S Type
	SI60M025065-03509S	M2.5X0.45	3.5	6.5			TT07	60	
	SI60M030072-04210S	M3X0.5	4.2	7.2			TT09	60	
	SI60M040089-05313S	M4X0.7	5.3	8.4			TT15	60	
	SSAM040046Q	M4.0X0.5	6	4.6			TT10	57	GST*R/ L*RS*
	SSAM045070Q	M4.5X0.5	6	6.8			TT10	57	
	SSAM045095Q	M4.5X0.5	6	9.5			TT10	57	

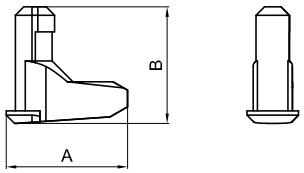
List of Accessory Specifications (Screw)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	SSAM045095Q	M4.5X0.75	6	9.45			TT10	57	GSTR/L*
	SSBM030060H	M3X0.5	5.5	8.5			TT15		
	SSBM040060H	M4X0.7	7.8	8			TT20		
	SCAM040100H	M4X0.7	5.5	13			TH30		
	SCAM040120H	M4X0.7	5.5	14.4			TH30		
	SCAM040160H	M4X0.7	5.5	20			TH30		
	SCAM050120H	M5X0.8	8.5	15.5			TH20		
	SCAM050160H	M5X0.8	8.5	19.5			TH40		
	SCAM050200H	M5X0.8	8.5	23.5			TH40		
	SCAM060200H	M6X1	9.8	26			TH50		
	SCAM060250H	M6X1	9.8	31			TH50		
	SCAM080260H	M8×1.25	13	31.5			TH60		
	SJM050250D	M5X0.8	22	8	3		T15		External Diameter-D Type
	SLM060130D	M6X1	6	13.4	0.7	S2.5			External Diameter-P Type
	SLM080210FD	M8X1	8	21	6	S3			
	SLM080250FD	M8X1	8	25	8	S3			
	SLM100270FD	M10X1	9.8	27.2	7	S4			
	SLM120360FD	M12X1	11.8	36	9.73	S5			
	SLM060170D	M6X1	6	17	3.5	S2.5			
	SLM060210D	M6X1	6	21	3.5	S2.5			
	SLM100300FD	M12X1	9.8	30	7	S4			

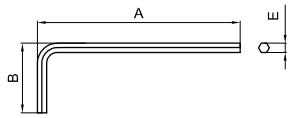
List of Accessory Specifications (Clamp Plate)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	CAM01H	M5X0.8	11.2	14.7					External Diameter-M Type
	CAM02H	M6X1.0	14	18.5					
	CAM03H	M6X1.0	14	21.5					
	CAM04H	M6X1.0	14	24					
	CAM05H	M8X1.0	19	25					
	CAN02RH	5.44	11.2	21.9					
	CAN03RH	5.76	8.7	13.6					
	CAN02LH	5.44	11.2	21.9					
	CAN03LH	5.76	8.7	13.6					
	CAD01RD		16.5	30		12.8			External Diameter-D Type
	CAD02RD		16.5	30		12.8			
	CAD03RD		16.5	30		12.8			

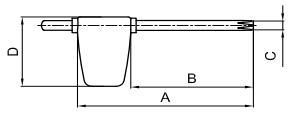
List of Accessory Specifications (Lever)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	LA3D	10	12						External Diameter-P Type
	LA4D	14	14.6						
	LA4BD	14.55	15.6						
	LA5D	17.1	17						
	LA6D	20.5	21						
	LA8D	25.4	25						
	LCL12CD	13	13.5						
	LCL16CD	18.5	18						
	LCL20CD	20.7	18.8						
	LCL25CD	24	24						

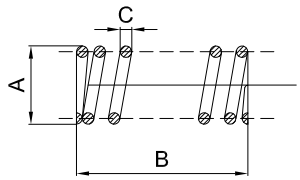
List of Accessory Specifications (Wrench)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	TH20LH	54	19			2			External Diameter-M Type
	TH25LH	59	19			2.5			
	TH30LH	64	22			3			
	TH40LH	73	28			4			
	TH50LH	85	28.5			5			
	TH20LD	52	17			2			External Diameter-P Type
	TH25LD	57.5	17.5			2.5			
	TH30LD	63	20			3			
	TH40LD	70	25			4			
	TH50LD	80	28.5			5			

List of Accessory Specifications (Wrench)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	TT06PH	81	50	T6	22				External Diameter-S Type Internal Hole-S Type
	TT08PH	84	50	T8	22				
	TT15PH	85	50	T15	27				
	TT20PH	88	53	T20	29				
	TT06PQ	51	35	T6	15				Small Parts External Diameter-S Type
	TT07PQ	54	35	T7	19				
	TT09PQ	60	40	T9	24				
	TT15PQ	66	45	T15	28				
	TT06PD	68	39	T06	15				External Diameter-D Type Internal Hole-S Type
	TT08PD	75	44	T08	19				
	TT15PD	84	52	T15	27				

List of Accessory Specifications (Spring)

Shape	Order No.	Dimensions							Applicable Tool
		A	B	C	D	E	F	α°	
	SPA7D	6.9	0.55	13					External Diameter-D Type

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