

CVD COATED

ISO	GRADE	Colour	Description
P	TC15P	Black/Yellow	Wear-resistance materials coated on the gradient sintered substrate which has both good hardness, toughness. Can bear high temperatures. For steel and steel castings finishing to roughing processing, Continue cutting to light interrupted cutting. Machining of gray and ductile iron at low to medium cutting speed. 耐磨材料涂覆在梯度烧结基体上，兼具良好的硬度、韧性。能承受高温。对于钢及铸钢件精加工至粗加工，连续切削至轻断续切削。以低至中切削速度加工灰铸铁和球墨铸铁。
	TC20P	Blace/Yellow	Universal grade, suitable for steel and cast steel continuous cutting and interrupted cutting finishing to roughing. Grades with a wide range of applications. Stainless steel continuous cutting and interrupted cutting.MT-CVD 涂层硬质合金牌号，通用牌号，适用于钢和铸钢的连续切削和断续切削精加工到粗加工。具有广泛应用的牌号。不锈钢连续切削和断续切削。
	TC25P	Yellow	High-strength alloy substrate with thick wear-resistant coating. Machining steel and cast steel in bad conditions. Edge line security for interrupted cutting high metal removal rate. 高强度合金基体，厚耐磨涂层。加工钢材和恶劣条件下的铸钢。可实现断续切削高金属去除率。
	TC7020	Golden	High hardness cemented carbide substrate in combination with nano TiCN+Al2O3 coating, with high strength surface treatment technology significantly improves versatility, suitable for semi-finishing and roughing of steel materials. 高硬度硬质合金基体结合纳米TiCN+Al2O3涂层，配合高强度表面处理技术显著提高通用性，适用于钢材的半精加工和粗加工。
K	TC1015	Black	High quality carbide substrate in combination with TiCN+Al2O3 coating, with very good wearing resistance, and suitable for semi-finishing to finishing steel machining. 优质硬质合金基体结合TiCN+Al2O3涂层，具有非常好的耐磨性，适合钢材的半精加工到精加工。
	TC10K	Black/Yellow	Ultra-fine grained carbide substrate in combintaion with Multi-layer TiCN+Al2O3 coating, with wear resistance and can ensuring good performance under high-speed cutting conditions. Suitable for medium-to-heavy duty cutting ISO K materials. 超细晶粒硬质合金基体结合多层TiCN+Al2O3涂层，具有耐磨性，能保证高速切削条件下良好的性能。适用于中型到重型切削ISO K材料。
	TC15K	Black/Yellow	MT-CVD coated, the substrate with excellent toughness in combination with Aluminum Oxide coating technology for roughing and finishing of cast iron. MT-CVD涂层，具有优异韧性的基体结合氧化铝涂层技术，用于铸铁的粗加工和精加工。
	TC5255	Black	MT-CVD coated, perfect grade for castng iron, also workable for Nodular cast iron, gray cast iron, steel parts. MT-CVD 涂层，铸铁的完美牌号，也适用于球墨铸铁、灰口铸铁、钢零件。

CERMET INSERTS

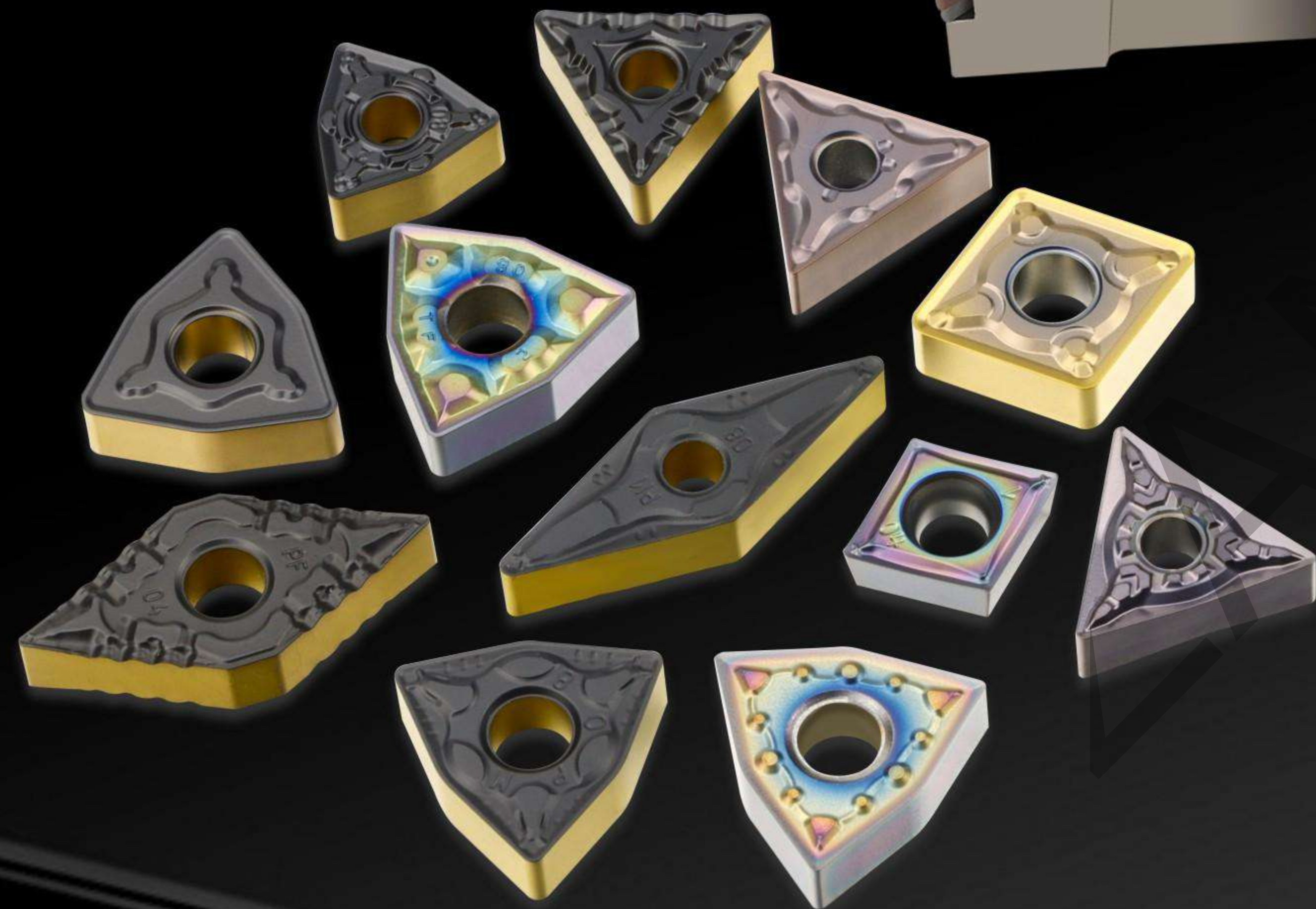
GRADE	Colour	Description
T15	Grey	Suitable for semi-finishing to finishing processing of steel parts, stainless steel, aluminum alloy and other materials with HRC<40. 适用于HRC<40的钢件不锈钢和铝合金等材质的半精到精加工。
TP10	Yellow	Cermet substrate, combined with PVD coating, has the characteristics of efficient processing and high wear resistance, and has strong versatility. 金属陶瓷基体，结合PVD涂层，具有高效加工和高耐磨性的特征，有着很强的通用性。

PVD COATED

ISO	GRADE	Colour	Description
P	TP6025	Colourful	Suitable for steel, harden steel, stainless steel, SS304, SKD11 etc. HRC<55适用于钢、淬硬钢、不锈钢、SS304、SKD11等HRC<55。
	TP5355	Yellow	Suitable for rough machining of steel parts and cast iron.Work well on HRC45°below materials. 适用于钢件和铸铁件的粗加工。适用于HRC45°以下的材料。
	TP9508	Ash Black	Preferred for general processing, suitable for processing P/M/K/S material below. HRC52°一般加工的首选，适合加工HRC52°以下的P/M/K/S材料。
	TP2052C	Colorful	Suitable for processing steel, stainless steel, cast iron and other materials.work well on HRC42° below, 45# steel, A3 and other soft steel processing performance. 适用于加工钢材、不锈钢、铸铁等材料，对HRC42°以下、45#钢、A3等软钢加工性能良好。
	TP5353E	Ash Black	Not easy to stick blade, suitable for processing steel, stainless steel, cast iron and other materials, HRC45° below. 不易粘刀，适合加工钢、不锈钢、铸铁等材料，HRC45°以下。
M	TP1605	Blue	PVD Nano coated, general purpose grade substrate with excellent endurance in combination with blue Nano coating for stainless steel, steel and superalloy with hardness below HRC60PVD. 纳米涂层、通用级基材具有优异的耐久性，与蓝色纳米涂层相结合，适用于硬度低于 HRC60 的不锈钢、钢和高温合金。
	TP15M	Purple	PVD coated, High Co content and fine WC grain substrate, gives wonderful cutting edge strength, combines with good thermal stability silicon coating, it has very small coefficient of friction, and good nano hardness. PVD涂层，高Co含量和细WC晶粒基体，赋予优异的切削刃强度，与良好的热稳定性硅涂层相结合，具有很小的摩擦系数和良好的纳米硬度。
	TP825M	Bronze	The fine-particle cemented carbide matrix, combined with the nano-scale AlTiSiN silicon-containing coating, has good wear resistance and high temperature resistance, and is suitable for continuous processing of stainless steel materials. 细微颗粒的硬质合金基体，结合纳米级AlTiSiN含硅涂层，具有良好的耐磨性和抗高温性，适合加工不锈钢材料的连续加工。
	TP10H	Dark Bronze	Fine grain cemented carbide substrate, in combination with Nano coating. Suitable for hard material and stainless steel, various steel and cast iron etc. 细晶粒硬质合金基体，结合纳米涂层。适用于硬料及不锈钢、各种钢、铸铁等。
	TP30M	Colourful	PVD coated with strong versatility, suitable for Steel, 20cr, stainless steel, etc. HRC<38PVD涂层，通用性强，适用于钢、20cr、不锈钢等HRC<38。
K	TP9108	Bronze	Suitable for processing steel, stainless steel, titanium alloy and other materials, work well on HRC50° below, manganese steel, spring steel etc materials. 适用于加工钢、不锈钢、钛合金等材料，对HRC50°以下、锰钢、弹簧钢等材料效果良好。
S	TP9105	Bronze	Perfect grade for casting iron. also suitable for steel, stainless steel, titanium alloy. 铸铁的完美牌号。也适用于钢、不锈钢、钛合金。
	TP1530	Ash Black	Ultra-fine grained carbide matrix, combined with advanced ALCrTiN coating, has good cutting stress and is suitable for processing steel parts, stainless steel, cast iron and high-temperature alloys. 超细颗粒硬质合金基体，结合先进的ALCrTiN涂层，具有良好的切削应力，适用于钢件不锈钢铸铁以及高温合金的加工。
H	TP9502S	Golden Yellow	The carbide substrate with high wear resistance, combined with the Arc coating, has good wear resistance and is outstanding in processing in the fields of titanium alloys, nickel-based alloys, stainless steel and aluminum alloys. 耐磨性高的硬质合金基体，结合现金的Arc涂层,具有良好的耐磨性，在钛合金，镍基合金，不锈钢和铝合金等领域加工突出。
	TP4351E	Bronze	The high-hardness cemented carbide substrate, combined with nanocomposite AlTiSiN coating technology, has strong oxidation resistance and red hardness, and is suitable for processing steel parts and stainless steel with an HRC60° or less. 高硬度的硬质合金基体，结合纳米复合AlTiSiN涂层技术，具有很强的抗氧化性和红硬性，适合加工HRC60°以内的钢件不锈钢。
	TP4351C	Colorful	Suitable for machining hardening steel, die steel, high temperature alloy steel and other high hardness machining and general processing, processing hardness HRC65° below, can also process stainless steel and high temperature alloy. 适用于加工淬硬钢、模具钢、高温合金钢等高硬度加工和一般加工，加工硬度HRC65°以下，也可加工不锈钢和高温合金。
	TC15H	Colorful	High-strength cemented carbide substrate, combined with nano-level ALTIN coating, extends tool life and shows excellent processing performance in the field of quenched material processing, suitable for processing within HRC62°. 高强度硬质合金基体，结合纳米级ALTIN 涂层延长刀具寿命，在淬火材料加工领域表现出卓越的加工性能，适合加工HRC62°以内。

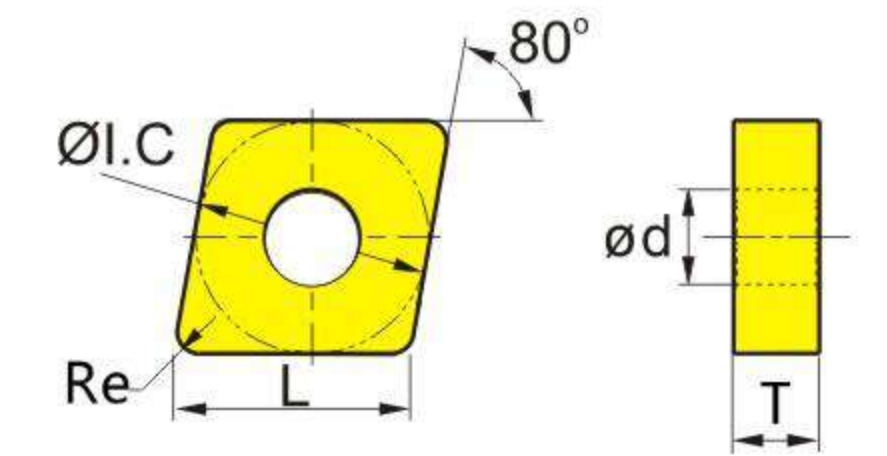
车削刀片
TURNING INSERT

优异的涂层与基体、涂层间结合力，保障稳定加工；
特殊后处理工艺，涂层表面光滑致密、结合强度高；
降低切削阻力，提升刀具寿命和工件光洁度。



CN□□

Code	L	T	Ød
CN**0903..	9.25	3.18	3.81
CN**1204...	12.7	4.76	5.16
CN**1606...	15.875	6.35	6.35
CN**1906...	19.05	6.35	7.94
CN**2509...	25.4	9.52	9.2



Applications	产品 Shape	型号 Code	Radius	Grade																			
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				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E	TP4351C
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		090308-PF	0.8																				
		120404-PF	0.4	●	●																		
		120408-PF	0.8																				
		120412-PF	1.2																				
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		120408-MA	0.8																				
		120412-MA	1.2			●			●	●	●	●	●	●					●				
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		120408-SM	0.8																				
		120412-SM	1.2								●			●							●		●
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		120408-HA	0.8																				
		120412-HA	1.2				●		●	●	●		●	●				●					
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		120408-TM	0.8																				
		120412-TM	1.2	●	●		●	●	●					●	●					●			
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		120408-PM	0.8																				
		120412-PM	1.2	●	●	●		●															
		160612-PM	1.2																				
		190612-PM	1.2																				
半精加工 Semi-finishing		CNMG120404-HQ	0.4																				
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Turning

Milling

Drilling

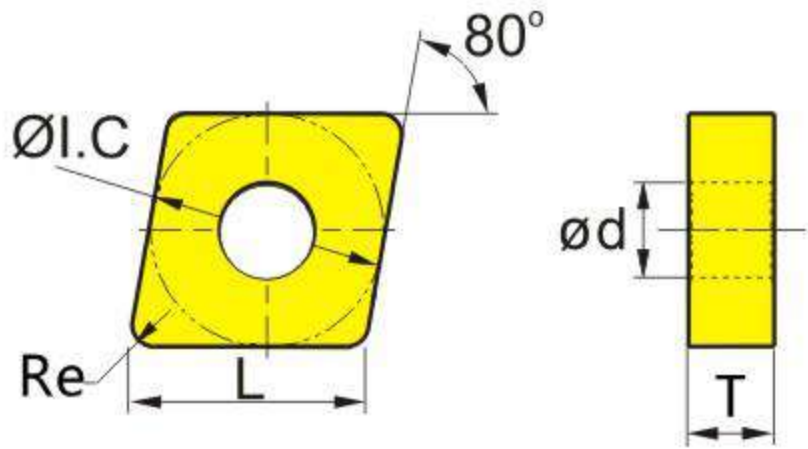
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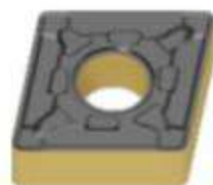
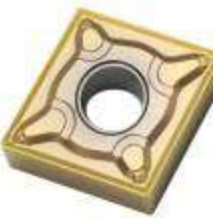
Threading

End Mill

CN□□

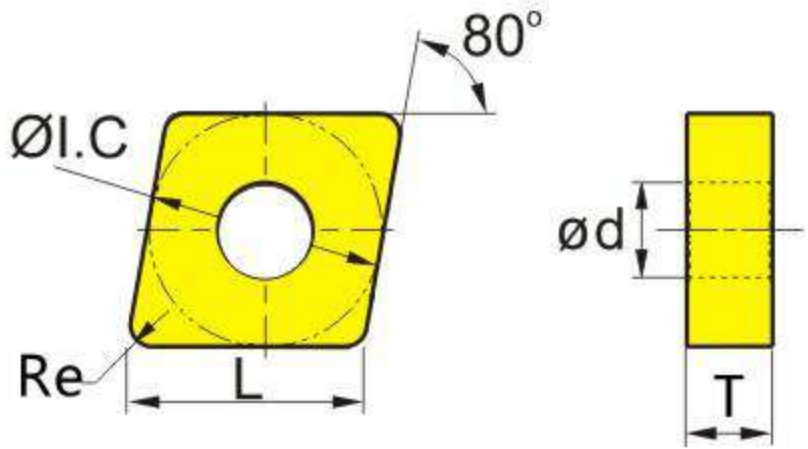
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CN**1204...	12.7	4.76	5.16
CN**1606...	15.875	6.35	6.35
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		190612-MS	1.2																		
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		120412-GH	1.2	●	●	●	●	●					●	●							
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粗加工 Roughing		CNMG120408-CM	0.8																		
		160612-CM	1.2																		
		190612-CM	1.2	●	●								●	●							
粗加工 Roughing		CNMA120404	0.4																		
		120408	0.8																		
		120412	1.2					●					●	●	●						
		160608	0.8																		
		160612	1.2																		
		160616	1.6																		
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		120412-YM	1.2								●										
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		120408-PR	0.8			●									●						
		120412-PR	1.2																		
粗加工 Roughing		CNMG120404R-S	0.4																		
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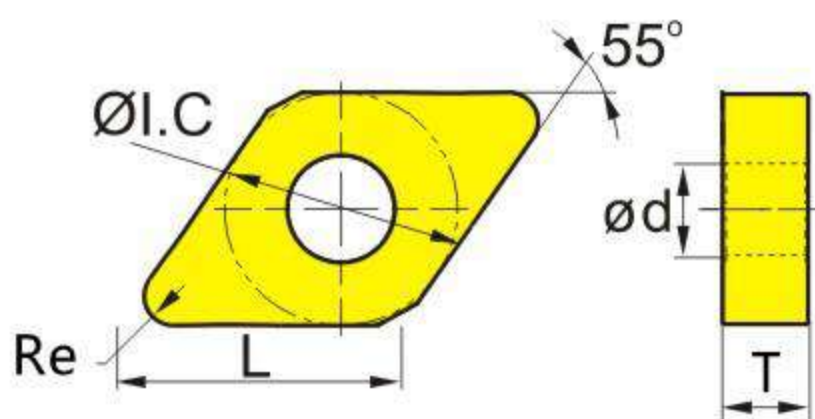
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CN**1606...	15.875	6.35	6.35
CN**1906...	19.05	6.35	7.94
CN**2509...	25.4	9.52	9.2



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		120408-MSF	0.8							●		●									
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		120408-43	0.8																		
		120412-43	1.2	●	●	●															
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				●	●	●															

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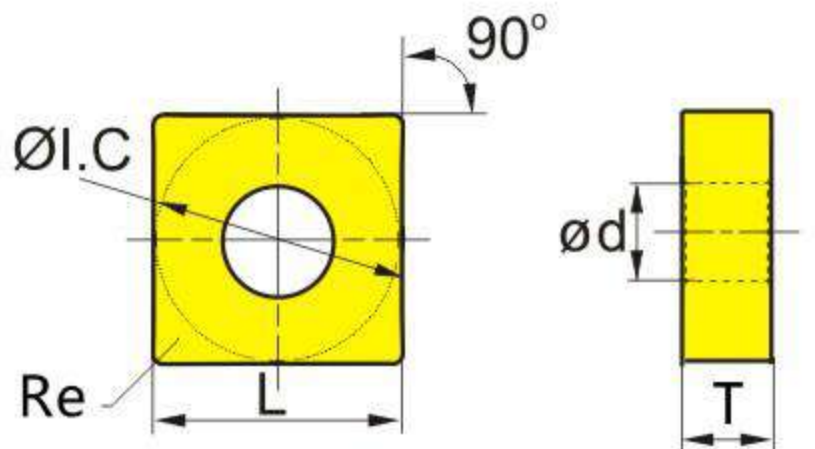
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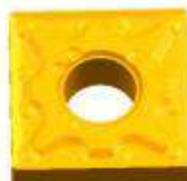


Applications	产品 Shape	型号 Code	Radius	Grade																		
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		150408-MA	0.8																			
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		150604-MA	0.4																			
		150608-MA	0.8																			
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		150408-TM	0.8																			
		150412-TM	1.2	●	●	●	●	●														
		150604-TM	0.4																			
		150608-TM	0.8																			
		150612-TM	1.2																			
精加工 Finishing		DNMG150404-PF	0.4																			
		150408-PF	0.8	●	●																	
		150412-PF	1.2																			
半精加工 Semi-finishing		DNMG150404-MS	0.4																			
		150408-MS	0.8																			
		150412-MS	1.2	●	●	●	●	●							●	●						
		150604-MS	0.4																			
		150608-MS	0.8																			
		150612-MS	1.2																			
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SN

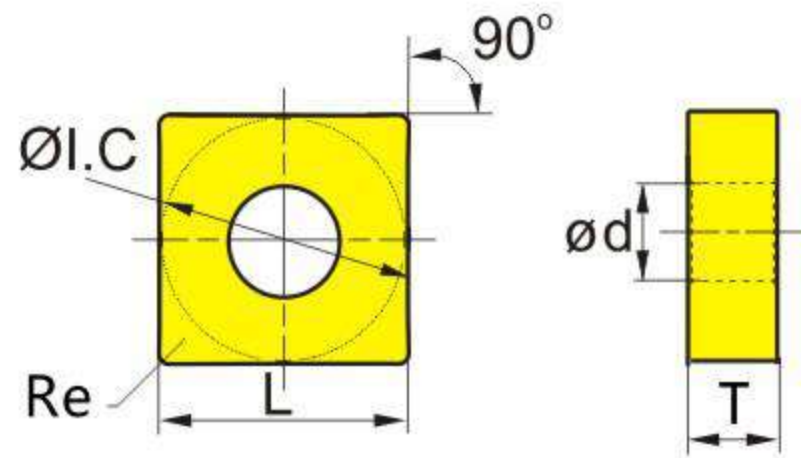
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		120408-YM	0.8							●											
		120412-YM	1.2									●									
半精加工 Semi-finishing		SNMG120404-MA	0.4																		
		120408-MA	0.8			●			●	●	●	●	●				●	●			
		120412-MA	1.2																		
半精加工 Semi-finishing		SNMG120404-JMS	0.4																		
		120408-JMS	0.8						●		●	●		●							
		120412-JMS	1.2																		
半精加工 Semi-finishing		SNMG120404-MS	0.4																		
		120408-MS	0.8	●	●	●	●	●					●	●							
		120412-MS	1.2																		
粗加工 Roughing		SNMA120404	0.4																		
		120408	0.8											●	●	●					
		120412	1.2						●												

SN□□

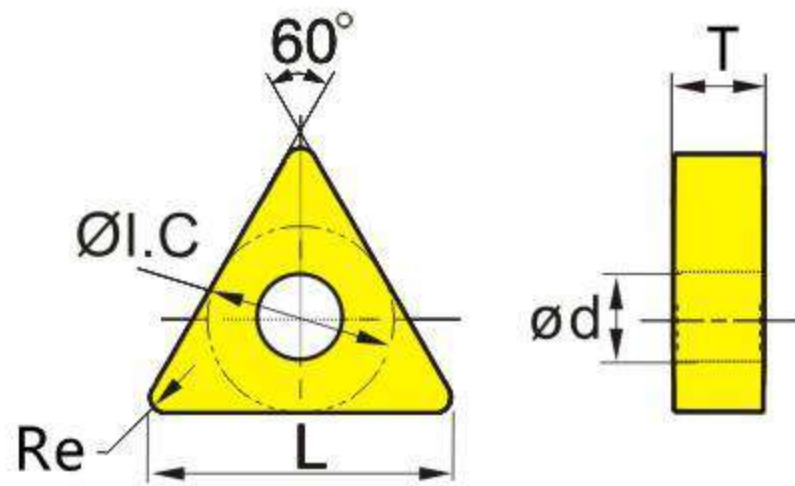
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SN**1506..	15.875	6.35	6.35
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Applications	产品 Shape	型号 Code	Radius	Grade															
				P				M				K		N		S		H	
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S
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		120408-ZTM	0.8						●		●								
		120412-ZTM	1.2																
粗加工 Roughing		SNMG120404L/R-S	0.4																
		120408L/R-S	0.8	●					●	●	●								
		120412L/R-S	1.2																

TN□□

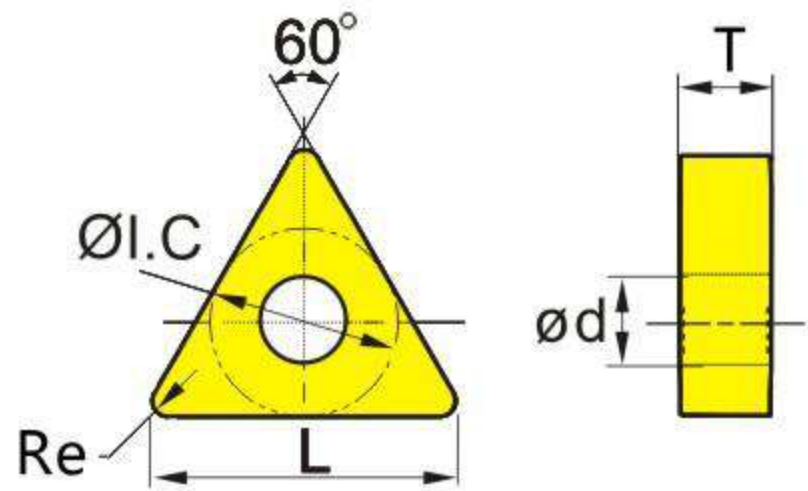
Code	L	T	Ød
TN**1604..	9.525	4.76	3.81
TN**2204..	12.7	4.76	5.16



Applications	产品 Shape	型号 Code	Radius	Grade															
				P				M				K		N		S		H	
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S
精加工 Finishing		TNMG160404-PF	0.4																
		160408-PF	0.8	●	●														
半精加工 Semi-finishing		TNMG160404-HQ	0.4									●							
		160408-HQ	0.8			●													
		160412-HQ	1.2																
半精加工 Semi-finishing		TNMG160404-PM	0.4																
		160408-PM	0.8	●	●														
		160412-PM	1.2																
半精加工 Semi-finishing		TNMG160404-HA	0.4																
		160408-HA	0.8				●		●	●	●		●	●		●			
半精加工 Semi-finishing		TNMG160404-TM	0.4																
		160408-TM	0.8	●	●	●	●	●											
半精加工 Semi-finishing		TNMG160404-JMS	0.4																
		160408-JMS	0.8						●		●	●		●					
		160412-JMS	1.2																
半精加工 Semi-finishing		TNMG160404-MA	0.4																
		160408-MA	0.8		●				●	●	●	●	●	●				●	●
		160412-MA	1.2																

TN□□

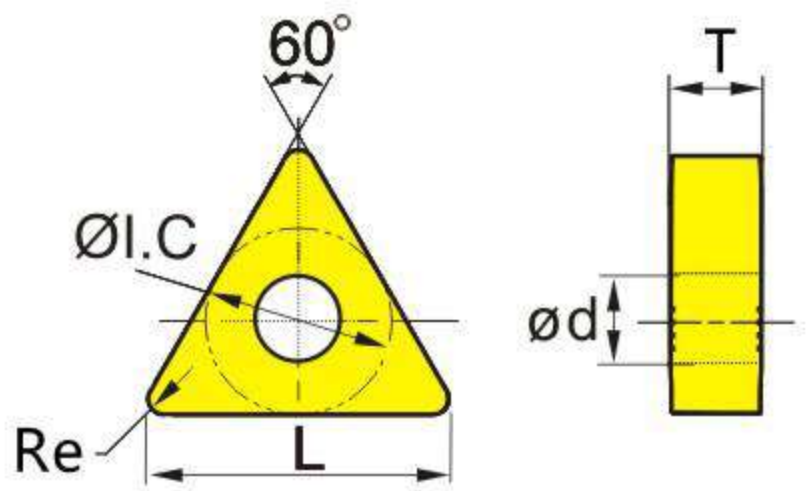
Code	L	T	Ød
TN**1604..	9.525	4.76	3.81
TN**2204..	12.7	4.76	5.16



Applications	产品 Shape	型号 Code	Radius	Grade																	
				P					M					K	N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H
半精加工 Semi-finishing		TNMG160404-MS	0.4																		
		160408-MS	0.8																		
		160412-MS	1.2																		
		220404-MS	0.4	●	●	●	●	●					●	●							
		220408-MS	0.8																		
		220412-MS	1.2																		
粗加工 Roughing		TNMG160404L/R-S	0.4																		
		160408L/R-S	0.8	●				●	●		●										
		160412L/R-S	1.2																		
粗加工 Roughing		TNMA160404	0.4																		
		160408	0.8										●	●	●						
		160412	1.2					●													
半精加工 Semi-finishing		TNMG160402-YM	0.2																		
		160404-YM	0.4							●			●								
		160408-YM	0.8																		
		160412-YM	1.2																		
精加工 Finishing		TNMG160404-MSF	0.4																		
		160408-MSF	0.8							●		●									
半精加工 Semi-finishing		TNMG160404-CQ	0.4																		
		160408-CQ	0.8																		
		160412-CQ	1.2	●		●		●													
半精加工 Semi-finishing		TNMG160404-43	0.4																		
		160408-43	0.8	●		●															

TN□□

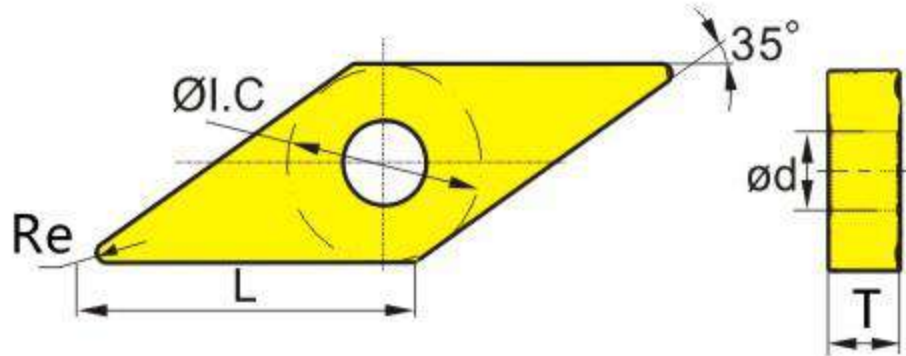
Code	L	T	Ød
TN**1604..	9.525	4.76	3.81
TN**2204..	12.7	4.76	5.16



Applications	产品 Shape	型号 Code	Radius	Grade																	
				P					M					K		N	S	H			
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H
半精加工 Semi-finishing		TNMG160404-TF2	0.4																		
		160408-TF2	0.8																		
半精加工 Semi-finishing		TNMG160404-BF	0.4																		
		160408-BF	0.8																		
半精加工 Semi-finishing		TNMG160402-ZMS	0.2																		
		160404-ZMS	0.4																		
		160408-ZMS	0.8																		
半精加工 Semi-finishing		TNMG160404-ZMP	0.4																		
		160408-ZMP	0.8																		

VN□□

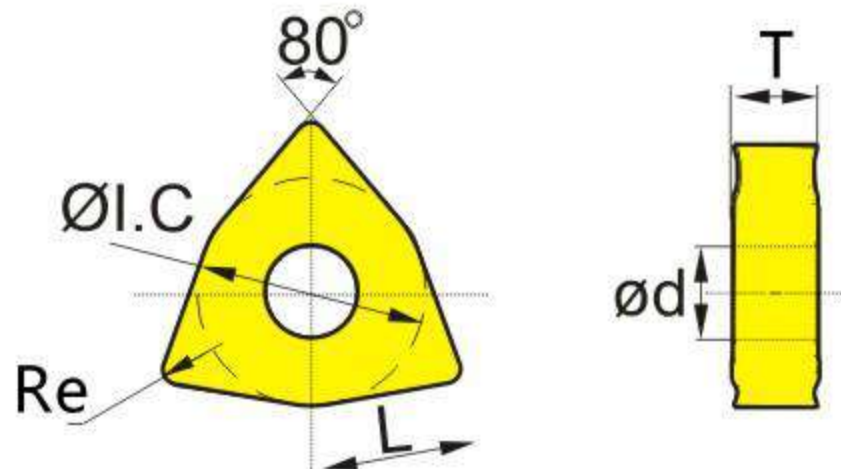
Code	L	T	Ød
VN**1604...	9.525	4.76	3.81



Applications	产品 Shape	型号 Code	Radius	Grade													
				P				M				K	N	S	H		
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10M	TP825M	TC10K	TC15K	TC5255
精加工 Finishing		VNMG160404-PF	0.4		•	•											
半精加工 Semi-finishing		VNMG160404-YM	0.4														
		160408-YM	0.8										•				
半精加工 Semi-finishing		VNMG160404-PM	0.4														
		160408-PM	0.8	•	•												
半精加工 Semi-finishing		VNMG160404-TM	0.4														
		160408-TM	0.8	•	•	•	•	•									
半精加工 Semi-finishing		VNMG160404-MA	0.4														
		160408-MA	0.8		•				•	•	•	•	•	•		•	•
半精加工 Semi-finishing		VNMG160404-JMS	0.4														
		160408-JMS	0.8						•		•	•		•			
半精加工 Semi-finishing		VNMG160404-MS	0.4														
		160408-MS	0.8	•	•	•	•	•							•	•	

WN□□

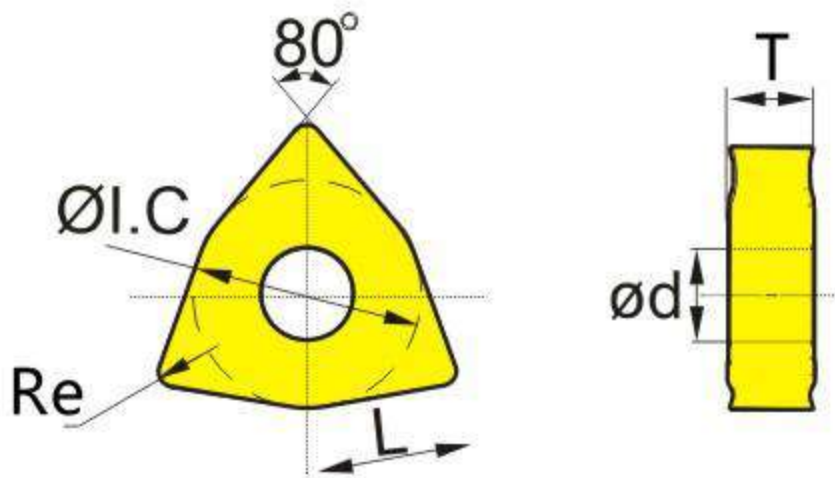
Code	L	T	Ød
WN**0604...	9.525	4.76	3.81
WN**0804...	9.525	4.76	5.16



Applications	产品 Shape	型号 Code	Radius	Grade													
				P				M				K	N	S	H		
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255
精加工 Finishing		WNMG080408-PF	0.8	•	•												•
半精加工 Semi-finishing		WNMG080404-HQ	0.4									•					
		080408-HQ	0.8			•						•					
		080412-HQ	1.2														
半精加工 Semi-finishing		WNMG080404-PM	0.4														
		080408-PM	0.8	•		•											
		080412-PM	1.2														
半精加工 Semi-finishing		WNMG080404-TM	0.4														
		080408-TM	0.8	•	•	•	•	•									
		080412-TM	1.2														
半精加工 Semi-finishing		WNMG080404-HA	0.4														
		080408-HA	0.8			•			•	•	•		•	•		•	
半精加工 Semi-finishing		WNMG080404-JMS	0.4														
		080408-JMS	0.8						•		•	•		•			
		080412-JMS	1.2														
半精加工 Semi-finishing		WNMG06T312-MA	1.2														
		080404-MA	0.4														
		080408-MA	0.8		•				•	•	•	•	•	•		•	•
		080412-MA	1.2														
		100608-MA	0.8														

WN□□

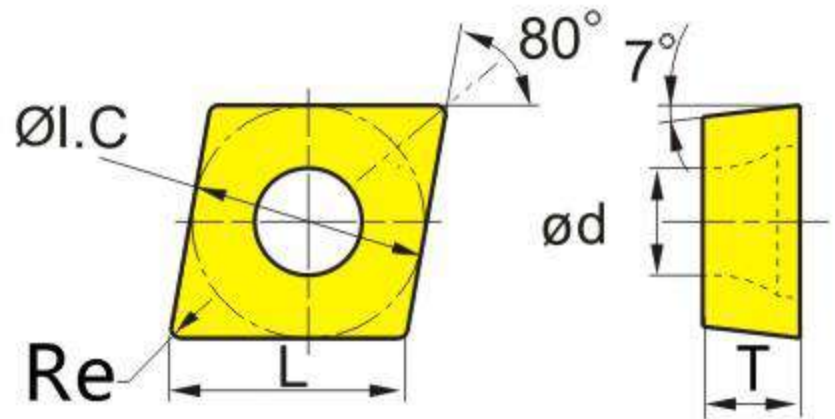
Code	L	T	Ød
WN**0604..	9.525	4.76	3.81
WN**0804..	9.525	4.76	5.16

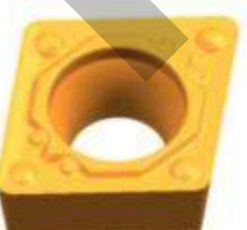
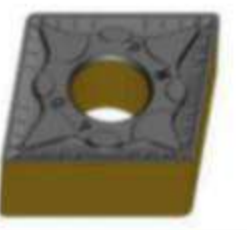
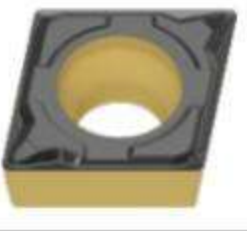


Applications	产品 Shape	型号 Code	Radius	Grade																		
				P					M					K		N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10M	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E
半精加工 Semi-finishing		WNMG080404-MS	0.4																			
		080408-MS	0.8	●	●	●	●	●					●	●								
		080412-MS	1.2																			
粗加工 Roughing		WNMG080404L/R-S	0.4																			
		080408L/R-S	0.8	●				●	●		●											
		080412L/R-S	1.2																			
粗加工 Roughing		WNMA080404	0.4																			
		080408	0.8					●					●	●	●							
		080412	1.2																			
半精加工 Semi-finishing		WNMG080404-YM	0.4																			
		080408-YM	0.8																			
		080412-YM	1.2										●									
半精加工 Semi-finishing		WNMG080404-BF	0.4																			
		080408-BF	0.8																			
半精加工 Semi-finishing		WNMG080402-ZMS	0.2																			
		080404-ZMS	0.4																			
		080408-ZMS	0.8																			
半精加工 Semi-finishing		WNMG080408-ZMP	0.8																			
精加工 Finishing		WNMG080404-MSF	0.4																			
		080408-MSF	0.8																			

CC□□

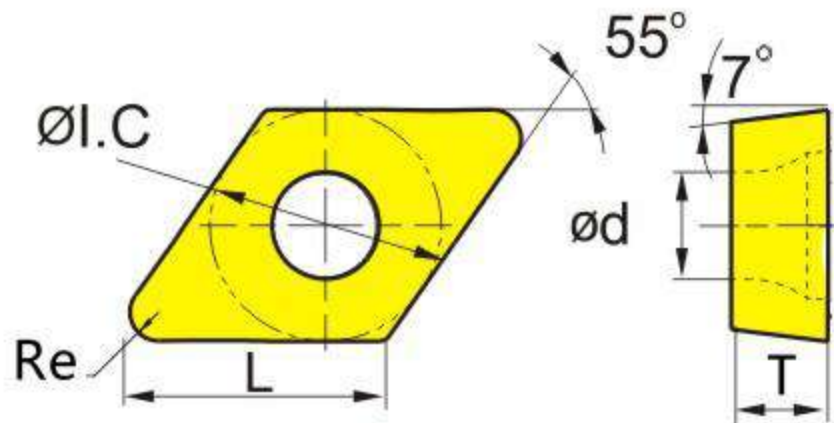
Code	L	T	Ød
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CC..09T3..	9.525	3.97	4.4
CC..1204..	12.7	4.76	5.5

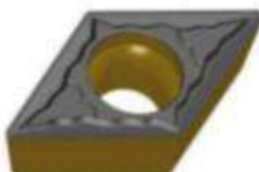


Applications	产品 Shape	型号 Code	Radius	Grade																		
				P					M					K		N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E
半精加工 Semi-finishing		CCMT060204-TF	0.4																			
		060208-TF	0.8																			
		09T304-TF	0.4			●			●	●	●	●		●	●							
		09T308-TF	0.8					●	●	●	●			●	●							
		120404-TF	0.4																			
		120408-TF	0.8																			
半精加工 Semi-finishing		CCMT060202-HQ	0.2																			
		060204-HQ	0.4																			
		060208-HQ	0.8			●																
		09T304-HQ	0.4																			
		9T308-HQ	0.8																			
		半精加工 Semi-finishing		CCMT060204-PM	0.4																	
09T304-PM	0.4			●	●																	
09T308-PM	0.8																					
半精加工 Semi-finishing		CCMT060204-HMP	0.4																			
		060208-HMP	0.8																			
		09T304-HMP	0.4	●		●		●														
		09T308-HMP	0.8																			
		120404-HMP	0.4																			
		120408-HMP	0.8																			
精加工 Finishing		CCMT060202-PF	0.2																			
		060204-PF	0.4	●	●																	
		09T304-PF	0.4																			
精加工 Finishing		CCMT060202-ZLF	0.2																			
		060204-ZLF	0.4																			
		060208-ZLF	0.8																			
		09T304-ZLF	0.4								●							●	●			
		09T308-ZLF	0.8																			
		120404-ZLF	0.4																			
		120408-ZLF	0.8																			
精加工 Finishing		CCMT060204-ZTM	0.4																			
		060208-ZTM	0.8																			
		09T304-ZTM	0.4								●											
		09T308-ZTM	0.8																			

DC□□

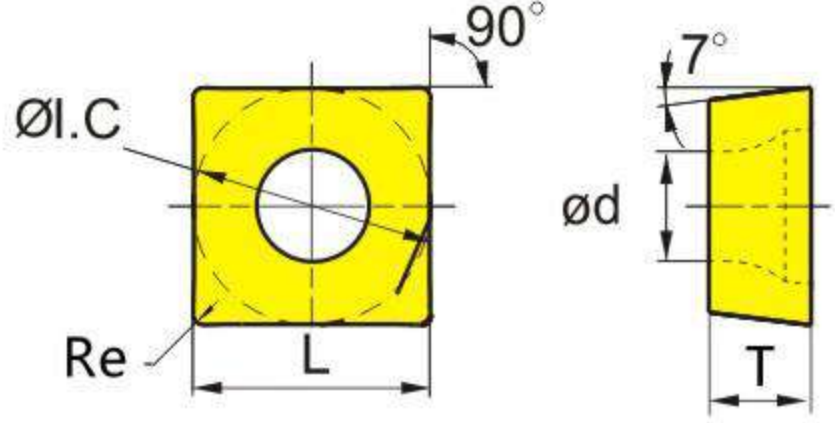
Code	L	T	Ød
DC**0702..	6.35	2.38	2.8
DC**11T3..	9.525	3.97	4.4

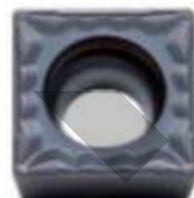


Applications	产品 Shape	型号 Code	Radius	Grade																		
				P					M					K			N	S	H			
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10M	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E
半精加工 Semi-finishing		DCMT070202-HQ	0.2																			
		070204-HQ	0.4																			
		11T302-HQ	0.2			●																
		11T304-HQ	0.4																			
		11T308-HQ	0.8																			
半精加工 Semi-finishing		DCMT11T304-PM	0.4																			
		11T308-PM	0.8	●	●																	
半精加工 Semi-finishing		DCMT070204-HMP	0.4																			
		070208-HMP	0.8	●		●		●														
		11T304-HMP	0.4																			
		11T308-HMP	0.8																			
半精加工 Semi-finishing		DCMT070204-TF	0.4																			
		070208-TF	0.8			●			●	●	●	●			●	●						
		11T304-TF	0.4																			
		11T308-TF	0.8																			
半精加工 Semi-finishing		DCMT070202-MV	0.2																			
		070204-MV	0.4						●		●	●										
		11T304-MV	0.4																			
		11T308-MV	0.8																			
精加工 Finishing		DCMT070202-ZLF	0.2																			
		070204-ZLF	0.4																			
		11T302-ZLF	0.2															●	●			
		11T304-ZLF	0.4																			
		11T308-ZLF	0.8																			

SC□□

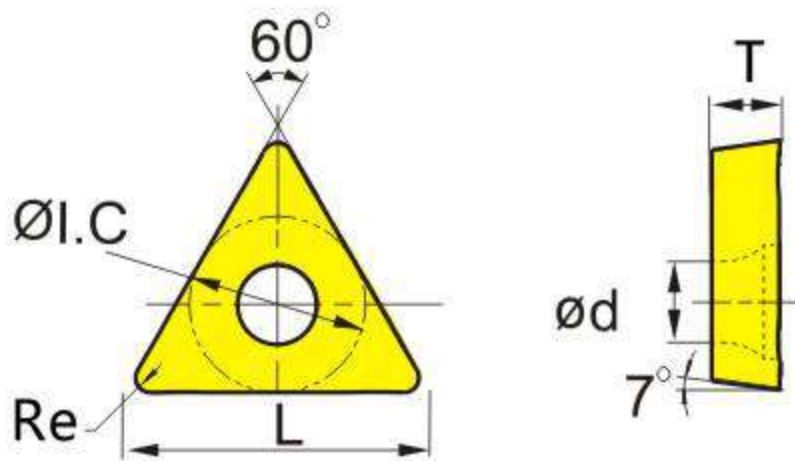
Code	L	T	Ød
SC**09T3..	9.525	3.97	4.4
SC991204..	12.7	4.76	5.5



Applications	产品 Shape	型号 Code	Radius	Grade																		
				P					M					K		N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E
半精加工 Semi-finishing		SCMT09T304-HQ	0.4																			
		09T308-HQ	0.8			●																
半精加工 Semi-finishing		SCMT09T304-HMP	0.4																			
		09T308-HMP	0.8																			
		120404-HMP	0.4	●		●	●	●														
		120408-HMP	0.8																			
		120412-HMP	1.2																			
半精加工 Semi-finishing		SCMT09T304-TF	0.4																			
		09T308-TF	0.8			●			●	●	●	●		●	●							
		120404-TF	0.4																			
		120408-TF	0.8																			
半精加工 Semi-finishing		SCMT09T304-ZTM	0.4																			
		09T308-ZTM	0.8																			
		120404-ZTM	0.4					●	●		●											
		120408-ZTM	0.8																			
		120412-ZTM	1.2																			

TC

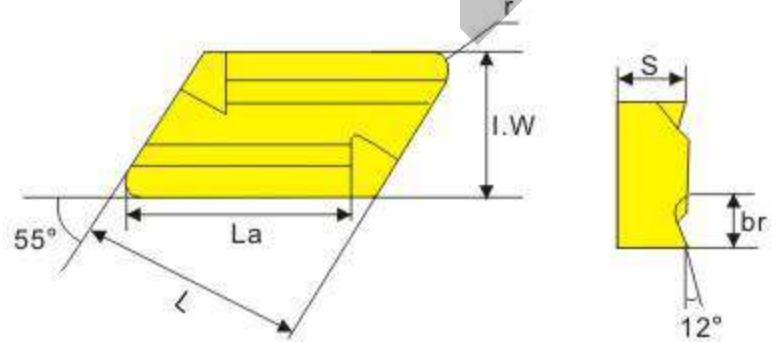
Code	L	T	Ød
TC**0902..	5.56	2.38	2.5
TC**1102..	6.35	2.38	2.8
TC**16T3..	9.525	3.97	4.4



Applications	产品 Shape	型号 Code	Radius	Grade																		
				P					M					K		N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10M	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E
半精加工 Semi-finishing		TCMT090204-PM	0.4																			
		110304-PM	0.4	●	●																	
		110308-PM	0.8																			
半精加工 Semi-finishing		TCMT090204-HMP	0.4																			
		090208-HMP	0.8																			
		110204-HMP	0.4	●		●	●	●														
		110208-HMP	0.8																			
		16T304-HMP	0.4																			
		16T308-HMP	0.8																			
半精加工 Semi-finishing		TCMT110204-TF	0.4																			
		110208-TF	0.8																			
		16T304-TF	0.4			●			●	●	●	●		●	●							
		16T308-TF	0.8																			
精加工 Finishing		TPMT090202-ZLF	0.2																			
		090204-ZLF	0.4															●	●			
精加工 Finishing		TCMT110202-ZLF	0.2																			
		110204-ZLF	0.4																			
		16T304-ZLF	0.4																●	●		
		16T308-ZLF	0.8																			

KNUX

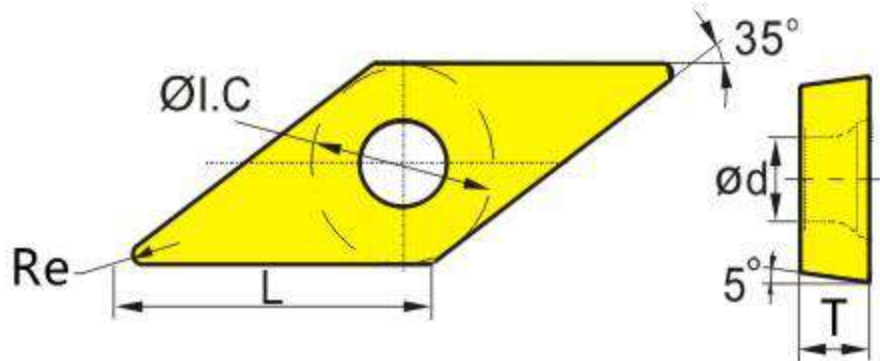
Code	L	T	Ød
KN**1604..	16.2	9.525	4.76

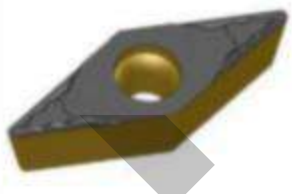


Applications	产品 Shape	型号 Code	Radius	Grade																	
				P					M					K	N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H
半精加工 Semi-finishing		KNUX160405-L11	0.5																		
		160405-R11	0.5	●		●			●												

VB

Code	L	T	Ød
VB**1103..	6.35	3.18	2.8
VB**1604..	9.525	4.76	4.4
VC**1103..	6.35	3.18	2.8
VC**1604..	9.525	4.76	4.4

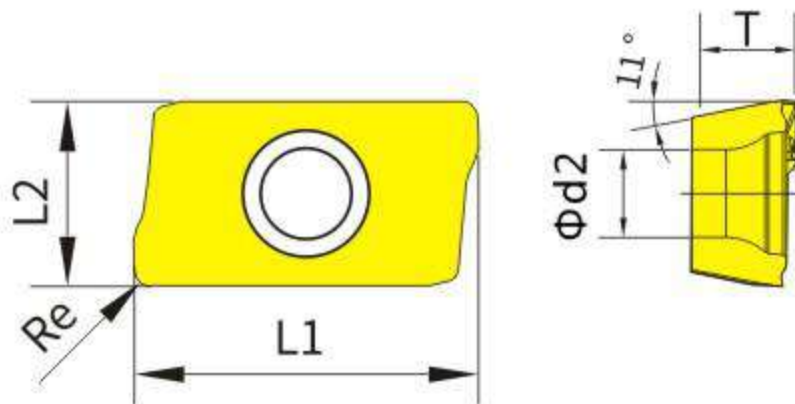


Applications	产品 Shape	型号 Code	Radius	Grade																		
				P					M					K		N	S	H				
				TC15P	TC20P	TC25P	TC7020	TC1015	TP15M	TP1605	TP1530	TP6530-3	TP10H	TP825M	TC10K	TC15K	TC5255	K10	TP9502S	TP1530	TC15H	TP4351E
半精加工 Semi-finishing		VBMT110304-HQ	0.4																			
		110308-HQ	0.8			●																
		160404-HQ	0.4																			
		160408-HQ	0.8																			
半精加工 Semi-finishing		VBMT160404-PM	0.4																			
		160408-PM	0.8	●	●																	
半精加工 Semi-finishing		VBMT160404-MV	0.4																			
		160408-MV	0.8			●			●	●	●	●		●	●							
半精加工 Semi-finishing		VBMT160404-TF	0.4																			
		160408-TF	0.8			●			●	●	●	●		●	●							
半精加工 Semi-finishing		VBMT160404-JMS	0.4																			
		160408-JMS	0.8						●		●	●										
半精加工 Semi-finishing		VBMT160404-HMP	0.4																			
		160408-HMP	0.8	●		●	●	●														
		160412-HMP	1.2																			
精加工 Finishing		VBMT110302-ZLF	0.2																			
		110304-ZLF	0.4																			
		160402-ZLF	0.2																			
		160404-ZLF	0.4																			
		160408-ZLF	0.8																			

铣削刀片
MILLING INSERT

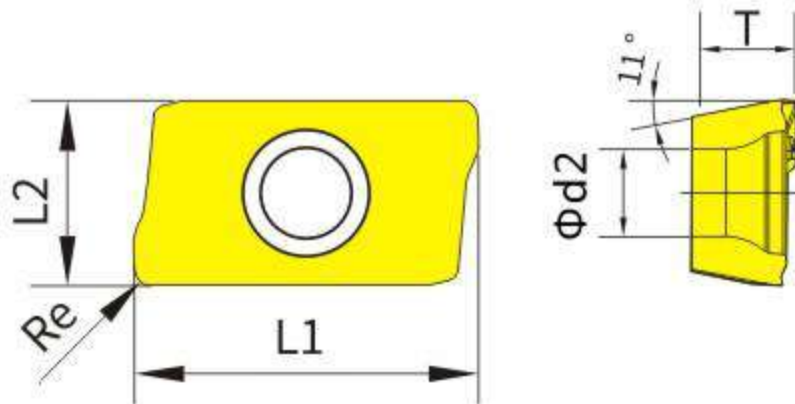
快进给通用型;凸型切削刃设计, 可抑制进刀时的冲击, 提高了刀片的抗冲击性能;可实现平面加工、型腔加工和螺旋铣削加工。

AP□□



产品 Shape	型号 Code	尺寸 Dimension					Grade												
		L1	L2	T	Ød2	Re	P			M			K	N	S	H			
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E
	APMT1135PDER-GM	11.25	6.2	3.5	2.8	0.8	●		●				●						
	APMT160404-GM	17.06	9.28	4.76	4.4	0.4	●		●				●						
	APMT1604PDER-GM	17.06	9.28	4.76	4.4	0.8			●				●						
	APMT1135PDER-H2	11.25	6.2	3.5	2.8	0.8	●	●	●	●		●	●	●	●				
	APMT1604PDER-H2	17.25	9.25	4.76	4.4	0.8	●	●	●	●		●	●	●	●				
	APMT1135PDER-M2	11.25	6.2	3.5	2.8	0.8	●	●	●	●		●	●	●	●	●			
	APMT1604PDER-M2	17.25	9.25	4.76	4.4	0.8	●	●	●	●		●	●	●	●	●			
	APMT1135PDER-KZ	11.1	6.2	3.5	2.8	0.8	●						●						
	APMT1604PDER-KZ	17.3	9.33	4.76	4.5	0.8	●						●						
	APMT1135PDER-DL	11.3	6.2	3.45	2.8	0.8	●	●		●		●	●	●	●		●	●	●
	APMT1604PDER-DL	17.3	9.3	5.25	4.4	0.8	●	●		●		●	●	●	●		●	●	●

AP□□



产品 Shape	型号 Code	尺寸 Dimension					Grade												
		L1	L2	T	Ød2	Re	P			M			K	N	S	H			
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E
	APMT1604PDER-R2	17.14	9.46	4.95	4.4	4.4	●		●	●									●
	APMT1135RHF	11.3	6.15	3.74	2.8	2.8	●		●	●									●
	APMT1135PDER-R1.6	11.34	6.2	3.45	2.8	2.8	●		●	●									●
	APMT1135PDER-DP	11.3	6.2	3.45	2.8	2.8	●			●				●					
	APMT1604PDER-DP	17.3	9.3	5.25	4.4	4.4	●			●				●					
	AOMT123608PEER-M																		

Turning

Milling

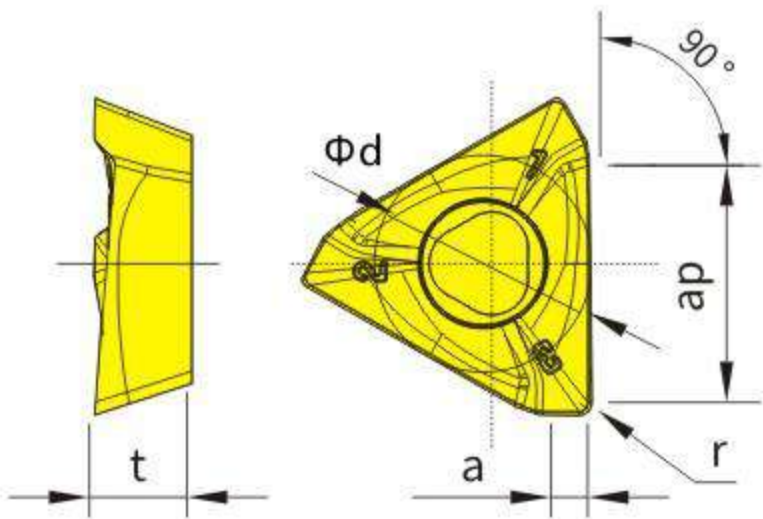
Drilling

Grooving

Threading

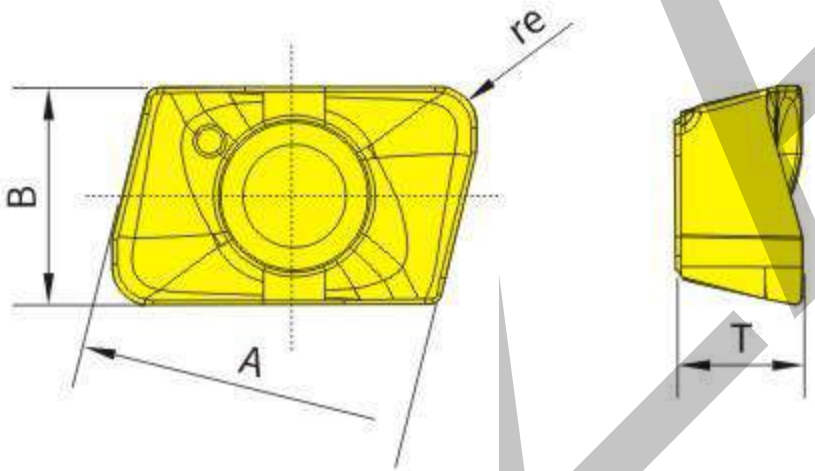
End Mill

3PKT□□



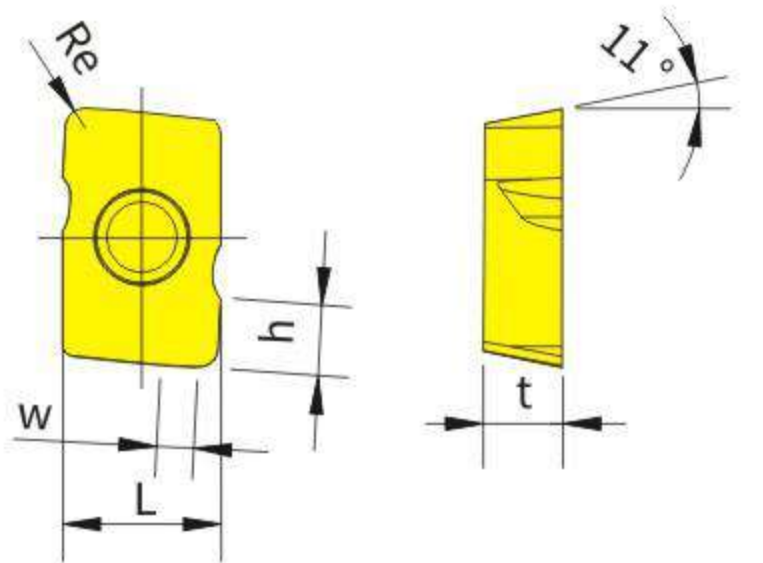
产品 Shape	型号 Code	尺寸 Dimension					Grade												
		L1	L2	T	Ød2	Re	P		M			K	N	S	H				
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E
	3PKT060304R-M	5.3	2.8	4.7	1	0.4	●		●	●									
	3PKT100408R-M	6.9	4	7	1.2	0.8	●		●	●					●				
	3PKT150508R-M	10.7	5	11	1.8	0.8	●		●	●					●				
	3PKT150508R-ML	10.7	5	11	1.8	0.8	●		●	●									
	3PKT190608R-M	13.5	6	15	2	0.8	●		●	●									

JD□□



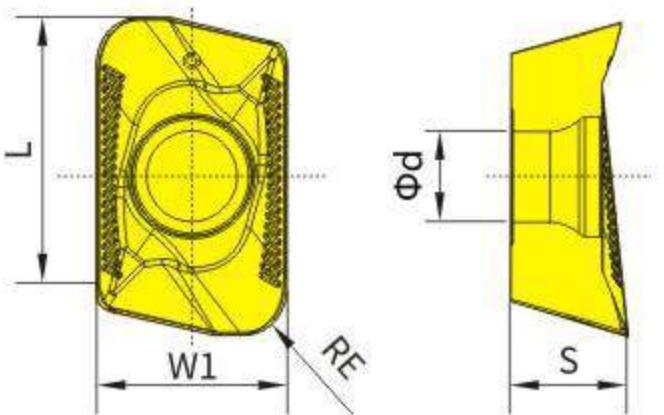
产品 Shape	型号 Code	尺寸 Dimension					Grade														
		L1	L2	T	Ød2	Re	P			M			K	N	S	H					
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C	
	JDMT070204R	6.4	4.3	0.4	2.45	2.15	●				●	●			●					●	
	JDMT070208R	6.4	4.3	0.8	2.45	2.15	●				●	●			●					●	
	JDMT100308R	11	6.1	3.5		0.8	●				●	●			●					●	
	JDMT150508R	16	9.12			0.8	●				●	●			●					●	

MP□□



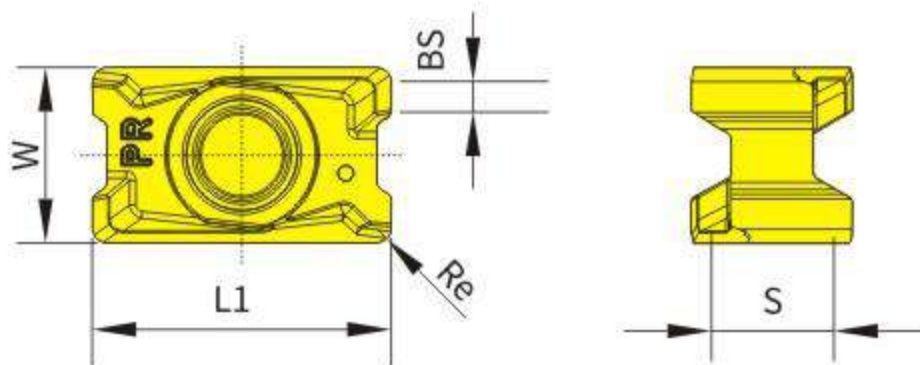
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		L1	L2	T	Ød2	Re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	MPHW060304ZEL	6.35	-	3.18	3	0.4	●				●		●							
	MPHW060308ZEL	6.35	-	3.18	3	0.8	●				●		●							
	MPHW060304ZEL-0.5	6.35	0.5	3.18	3	0.4	●				●									
	MPHW060308ZEL-1.5	6.35	1.5	3.18	3	0.8	●				●									
	YPHW100308ZER-1.5	10.06	6	3.35	3	0.8	●				●									

XO□□



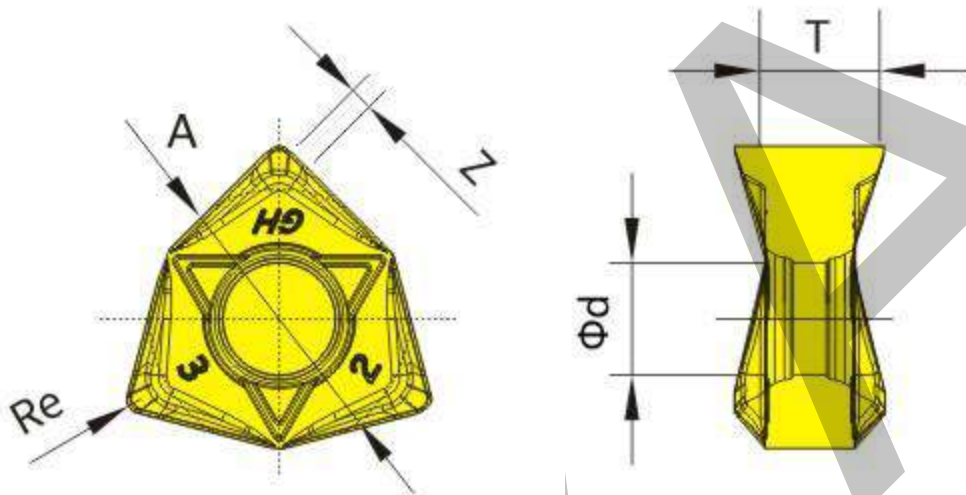
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		L1	L2	T	Ød2	Re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	XOMX120408TR-ME	8.2	11.6	5.07	3.85	0.8	●				●	●			●					
	XOMX120412TR-ME	8.2	11.6	5.07	3.85	1.2	●				●	●			●					

LN□□



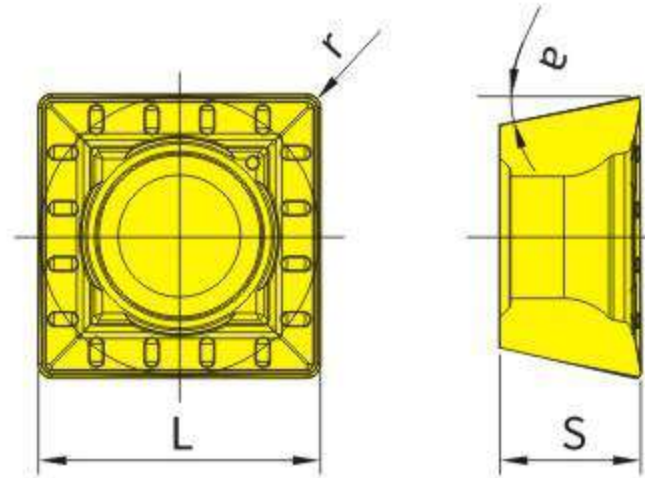
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		L1	L2	T	Ød2	Re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	LNGU110408-PR	12.16	4.83	6.6	1	0.8	●		●	●	●			●						
	LNGU15T608-PR	17.01	6.96	10	1.8	0.8	●		●	●	●			●						
	LNGU110408-PR	12.16	4.83	6.6	1	0.8	●		●	●	●			●						
	LNGU15T608-PR	17.01	6.96	10	1.8	0.8	●		●	●	●			●						
	LNMU110408SRGE	11.3	6.6	3.15	-	0.8	●		●	●	●			●			●			
	LNMU15T608SRGE	16.15	10	4.85		0.8	●		●	●	●			●						

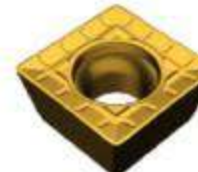
WN□□



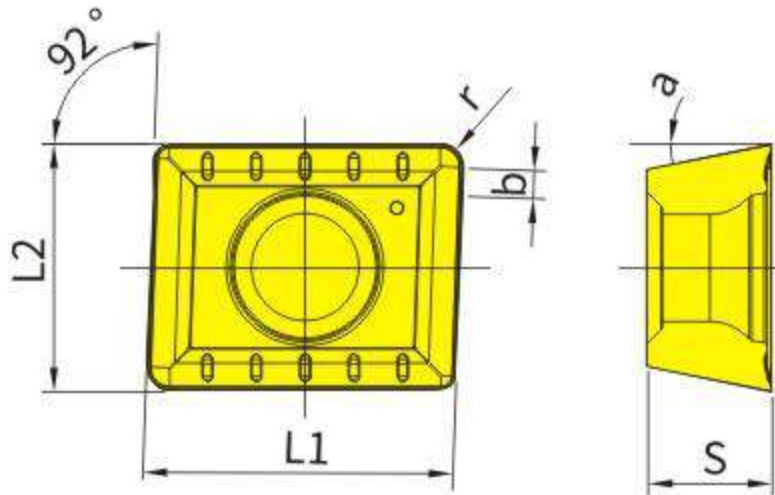
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		L1	L2	T	Ød2	Re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	WNMU040304EN-GM	6.75	3.18	3.18	0.6	0.4	●	●	●	●		●	●		●			●		●
	WNMU080608EN-GM	14.02	6.65	6.2	1.3	0.8	●	●	●	●		●	●		●	●		●		●
	WNMU080608EN-GH	14.02	6.65	6.2	1.3	0.8	●	●	●	●		●	●		●			●		●
	WNEU080608EN-GH	14.02	6.65	6.2	1.3	0.8	●	●	●	●		●	●		●			●		●
	WNEU080608EN-GL	14.02	6.65	6.2	1.3	0.8	●	●	●	●		●	●		●			●		●
	XNEX040304-TR	6.75	3.29	4	0.8	0.4	●	●	●	●		●	●		●			●		●
	XNEX040308-TR	6.75	6.45	4	0.8	0.8	●	●	●	●		●	●		●			●		●
	XNEX080608-TR	14.02	6.45	7.5	1.3	1.3	●	●	●	●		●	●		●			●		●

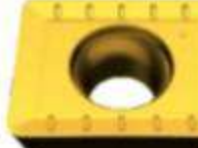
SP□□



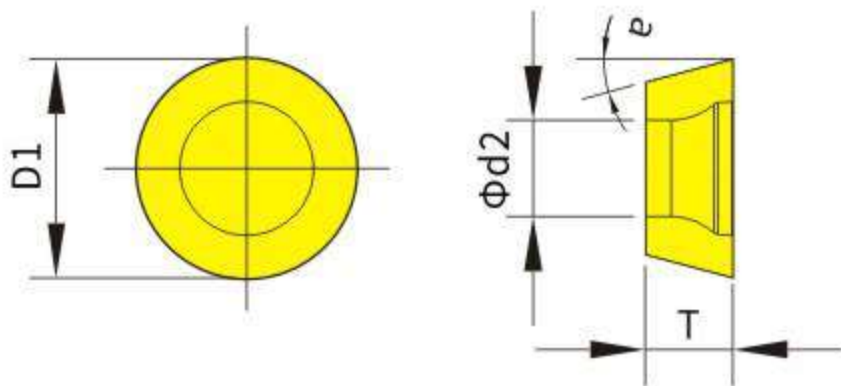
产品 Shape	型号 Code	尺寸 Dimension					Grade												
		L1	L2	T	Ød2	Re	P			M			K	N	S	H			
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E
	SPMT120408-D51	12.7	4.76	11	0.8		●		●	●			●						
	SPMT120606-D51	12.7	6.35	11	0.6		●		●	●			●						

LP□□



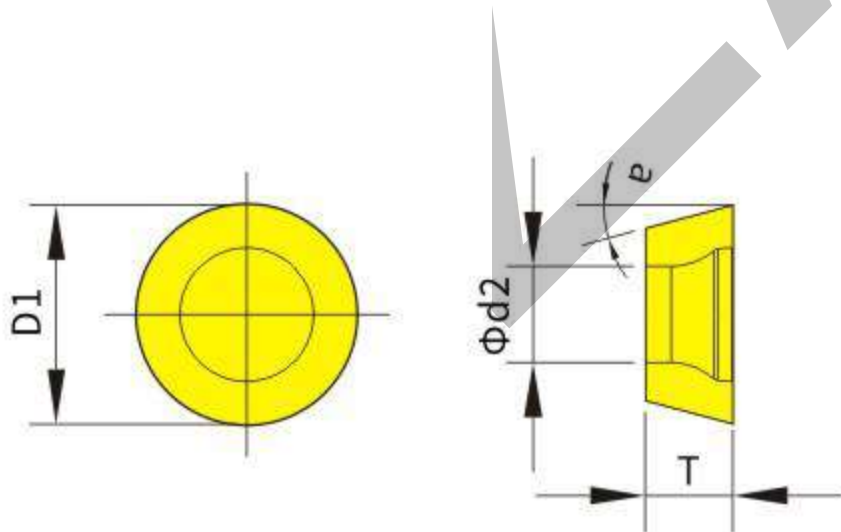
产品 Shape	型号 Code	尺寸 Dimension					Grade																
							P			M			K	N	S	H							
		L1	L2	T	Ød2	Re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C			
	LPMT150412R-D51	12.7	15.88	11	1.2	1.5	●				●			●	●		TC5255	K10	TP9502S	TP9502			●
	LPMT150612R-D51	12.7	15.88	11	1.2	-	●				●			●	●								●

RP□□



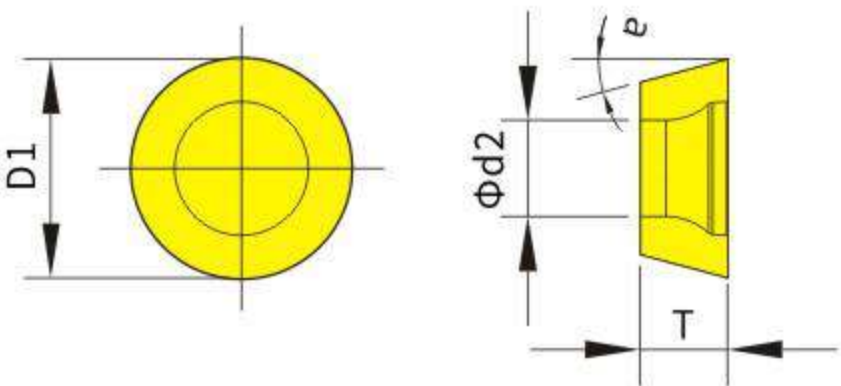
产品 Shape	型号 Code	尺寸 Dimension					Grade									
		L1	L2	T	Ød2	Re	P		M			K	N	S	H	
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	RPGW1003MOE-CN	10	3.18	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RDGT10T3MOTN-CN	10	3.97	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDGT1204MOTN-CN	12	4.76	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDGT1604MOTN-CN	16	4.76	5.5	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT0802MOTN	8	2.58	3.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT10T3MOTN	10	3.97	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT1204MOTN	12	4.76	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT1604MOTN	16	4.76	5.5	15	-	●	●	●	●	●	●	●	●	●	●
	RPMT08T2MOE-JS	8	2.58	3.4	11	-	●	●	●	●	●	●	●	●	●	●
	RPMT10T3MOE-JS	10	3.97	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RPMT1204MOE-JS	12	4.76	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RPMW1003MO-TT	10	3.18	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RPMT1204MOE-TT	12	4.76	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RDEW1003MO	10	3.18	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RDEW1204MO	12	4.76	4.4	15	-	●	●	●	●	●	●	●	●	●	●

RC□□



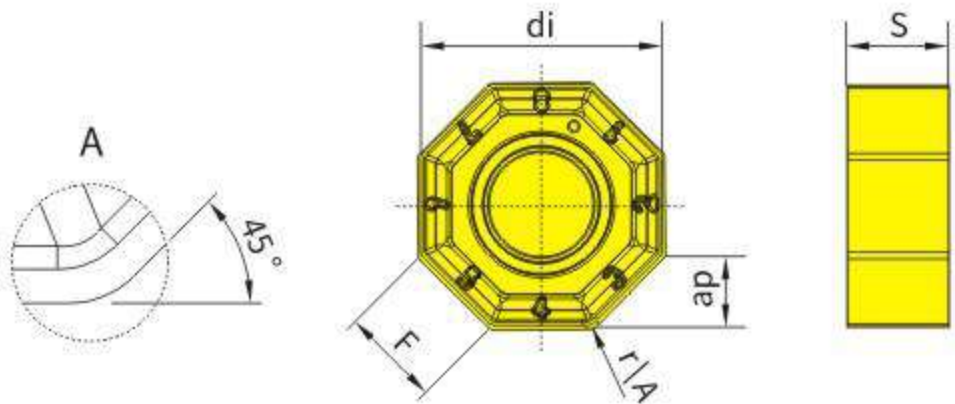
产品 Shape	型号 Code	尺寸 Dimension					Grade									
		L1	L2	T	Ød2	Re	P		M			K	N	S	H	
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	RCKT10T3MO-XM	10	3.97	4.4	7	-	●	●	●	●	●	●	●	●	●	●
	RCKT1204MO-XM	12	4.76	4.4	7	-	●	●	●	●	●	●	●	●	●	●
	RCKT1606MO	16	6.35	5.5	7	-	●	●	●	●	●	●	●	●	●	●
	RCKT2006MO-XM	20	6.35	5.5	7	-	●	●	●	●	●	●	●	●	●	●

RP□□



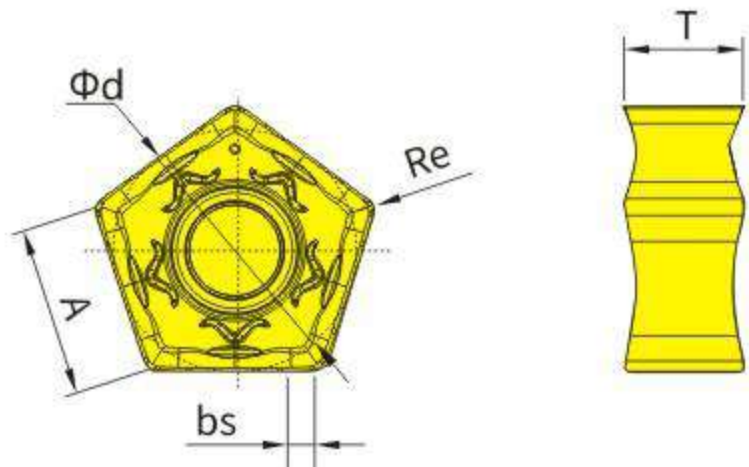
产品 Shape	型号 Code	尺寸 Dimension					Grade									
		L1	L2	T	Ød2	Re	P		M			K	N	S	H	
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	RPMW1003MO-NTT	10	3.18	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RDMT1204MO-NTT	12	4.76	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT1604MO-NTT	16	4.76	5.5	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT1204MOE-D57	12	4.76	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMT1605MOE-D57	16	4.76	5.5	15	-	●	●	●	●	●	●	●	●	●	●
	RPMW08T2MOE	8	2.78	3.4	11	-	●	●	●	●	●	●	●	●	●	●
	RPMW1003MOE	10	3.18	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RPMW10T3MOE	10	3.97	4.4	11	-	●	●	●	●	●	●	●	●	●	●
	RDMW10T3MOE	10	3.97	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMW1204MOE	12	4.76	4.4	15	-	●	●	●	●	●	●	●	●	●	●
	RDMW1604MOE	16	4.76	5.5	15	-	●	●	●	●	●	●	●	●	●	●
	RPMT1204MOE-CO	12	4.76	4.4	11	-	●	●	●	●	●	●	●	●	●	●

ON□□



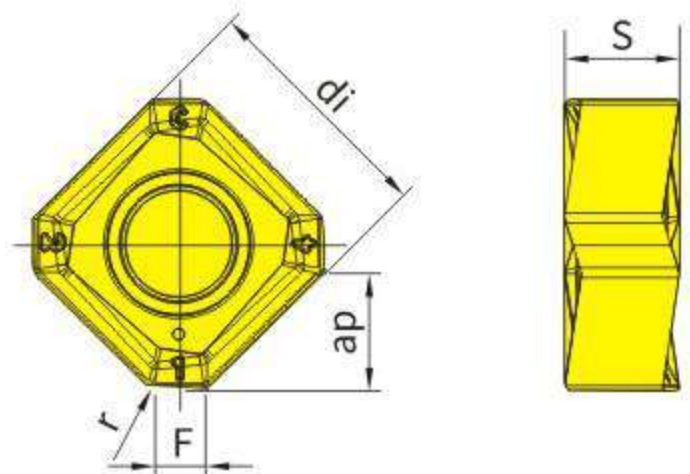
产品 Shape	型号 Code	尺寸 Dimension					Grade									
		L1	L2	T	ap	Re	P		M			K	N	S	H	
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	ONMU050505-MT	13	5	5.08	3.5	0.5	●	●	●	●	●	●	●	●	●	●
	ONMU080608-TN															
	ONMU090520ANTN-M13	22	7.7	6.80		2.0				●						

PN□□



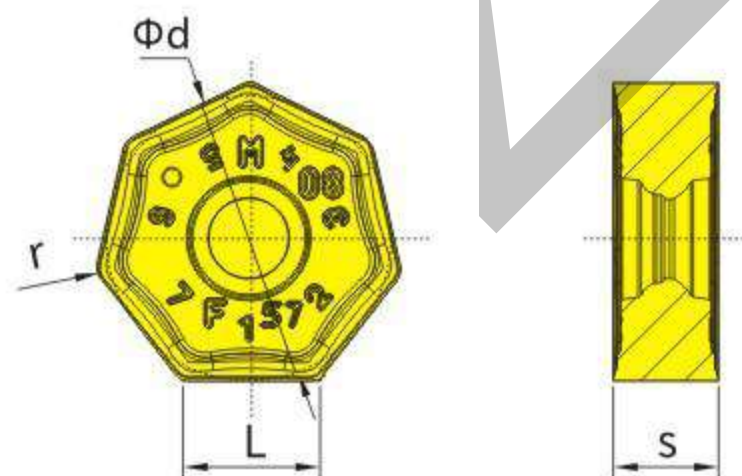
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		L1	L2	T	Ød2	Re		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	PNMU0905GNEN-MJ	8.9	6	12.2	1.4	0.8	●				●				●		
	PNMU0905XNER-GM	8.9	6	14.6	2	0.8	●				●				●		
	PNCU0905GNFR-AJ	8.9	6	12.2	1.4	0.8	●			●							

SN□□



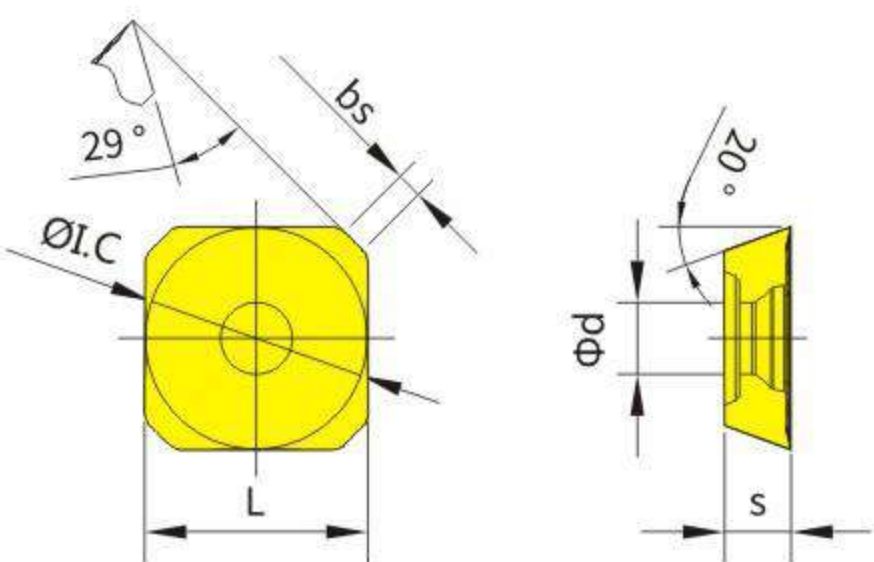
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		L1	L2	T	Ød2	Re		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	SNMU1305ANR-MT	13	6	6.5	3	0.8	●				●				▲		
	SNMX1306ANEN-M	13.5	1.7	6.8	-	-	▲							▲			
	SNEU1206ANEN-GM	13.65	6.54	7.5	-	0.8	●			●							
	SNMU130508EN	13.6	-	6.9	-	0.8								▲			

XN□□



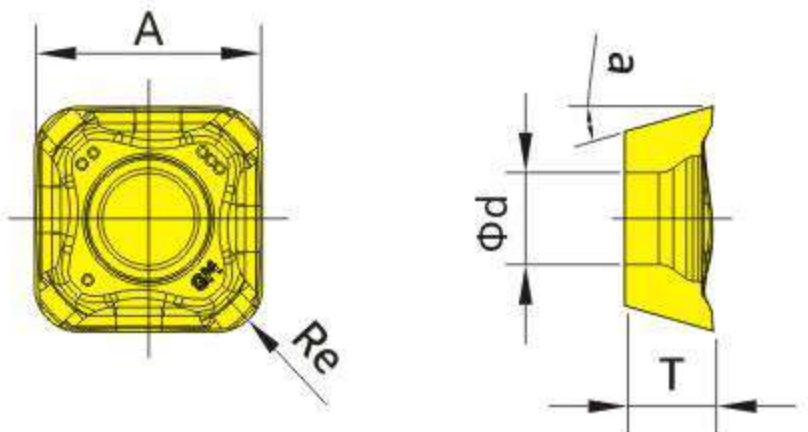
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		d	l	S	r	b		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	XNMU070508-F57	14.5	6.98	4.6	0.8	-	●			●	●	●	●	●			
	XNMU090612-F57	19.05	9.18	5.88	1.2	-	●			●	●	●	●	●			

SE□□



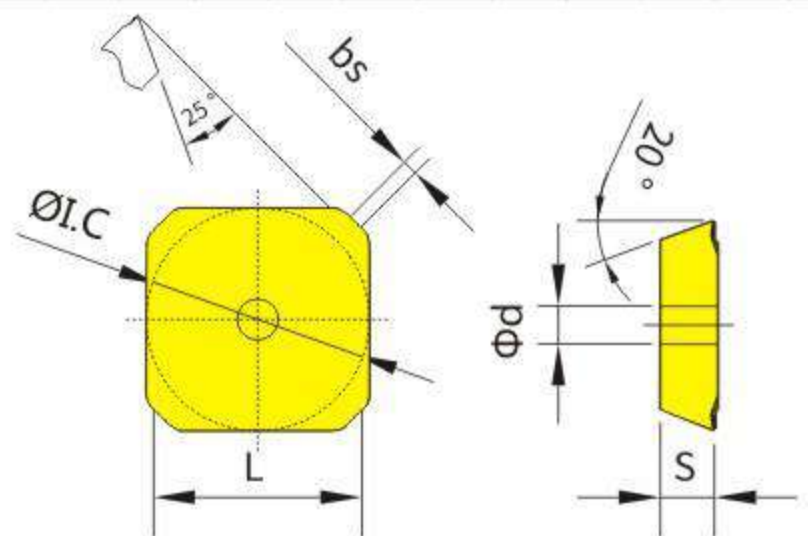
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		L	ØLC	S	Ød	bs		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	SEMT13T3AGSN-GM	13.4	13.4	3.97	4.3	2.45	●				●						▲
	SEMT13T3AGSN-JM	13.4	13.4	3.97	4.3	2.45	●				●	▲			▲		
	SEKT1204AFTN	12.7	12.7	4.76	5.16	2	●				●	▲			●		

SO□□



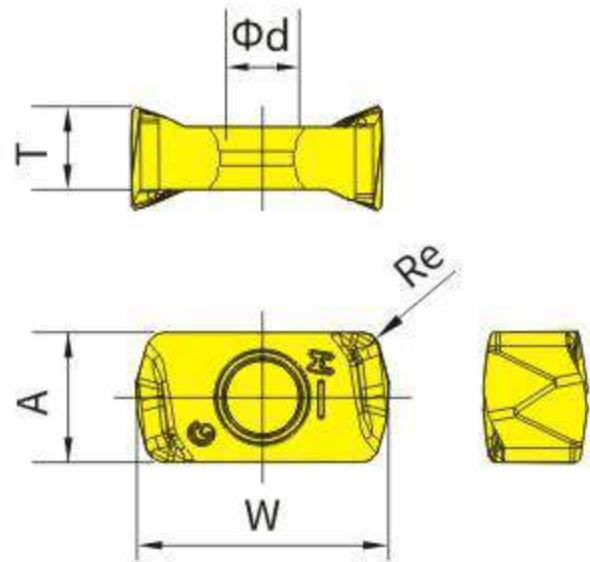
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		A	T	Ød	Re	a		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	SOMT100420ER-GM	10.3	4.58	4.6	2	16	●				●					▲	
	SOMT140520ER-GM	14.14	5.56	5.8	2	16	●				●					▲	

SE□□



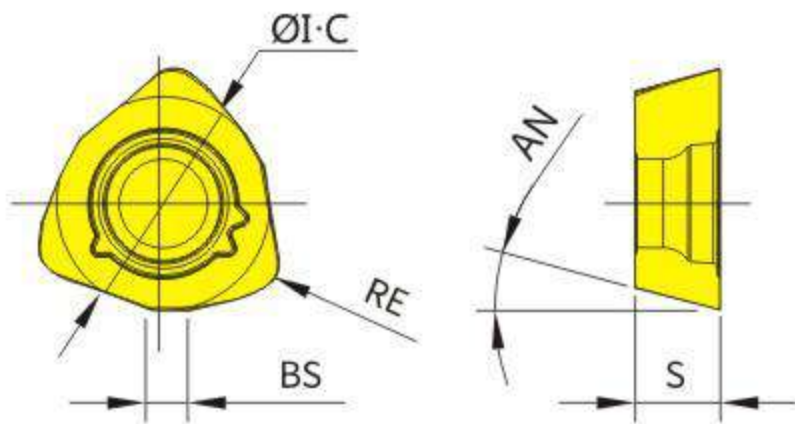
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		L	ØLC	S	Ød	bs		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	SEER1203-AFS-D2	12.58	12.58	3.44	2.3	2	▲			▲	●			▲	●		
	SEER1203-AFS-G2	12.58	12.58	3.44	2.3	2	▲			▲	●			▲	●		
	SEER1504-AFS-D3	15.875	15.875	4.88	3.2	2.2	▲			▲	●			▲	●		
	SEKR1203AFTN-YM	12.58	12.58	3.44	2.3	2	▲			▲	●			▲	●		

LN□□/LO□□



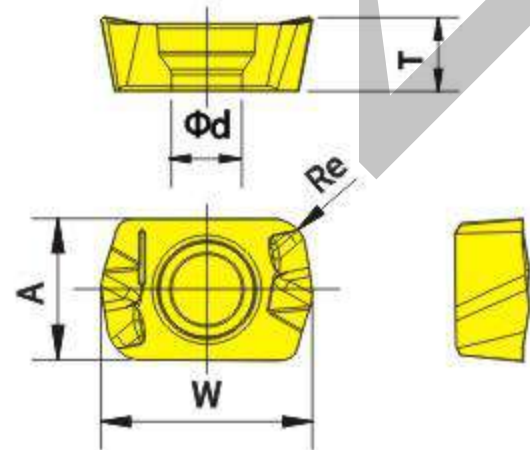
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		L	ØI.C	S	Ød	bs		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	LNMU0303ZER-MJ	6	3.75	2.85	11.9	1.2		●	●	●	●	●	●	●	▲	▲	●
	LNMU0303ZER-ML	6	3.75	2.85	11.9	1.2		●	●	●	●	●	●	●	▲	▲	●
	LOGU030310ER-GM	6.2	3.96	3.45	11.9	1		●	●	●	●	●	●	▲	▲	●	▲
	LOGU030310ER-MM	6.2	3.96	3.45	11.9	1		●	●	●	●	●	●	▲	▲	●	▲

JD□□



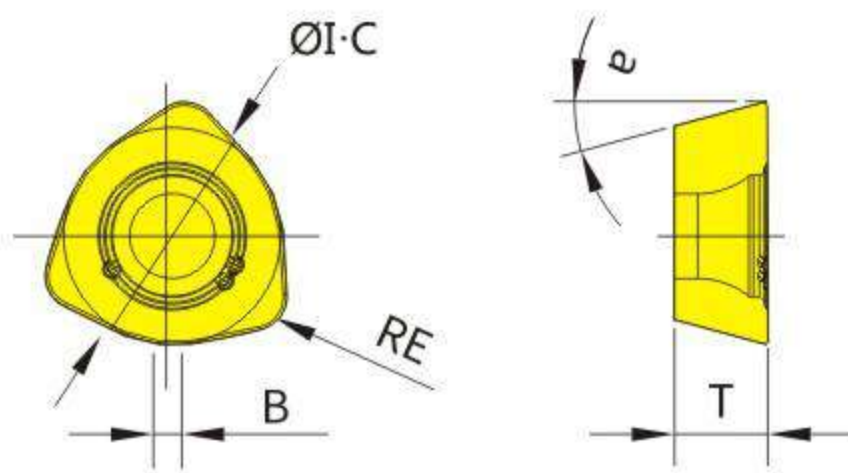
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		ØI.C	S	BS	Re	AN		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	JDMW09T320SR-FT	9.53	3.97	1.8	2	15		●	●	▲			▲	●			
	JDMW120420SR-FT	12	4.76	2.5	2	15		●	●	▲			▲	●			
	JDMW140520SR-FT	14	5.56	2.8	2	15		●	●	▲			▲	●			

LP□□



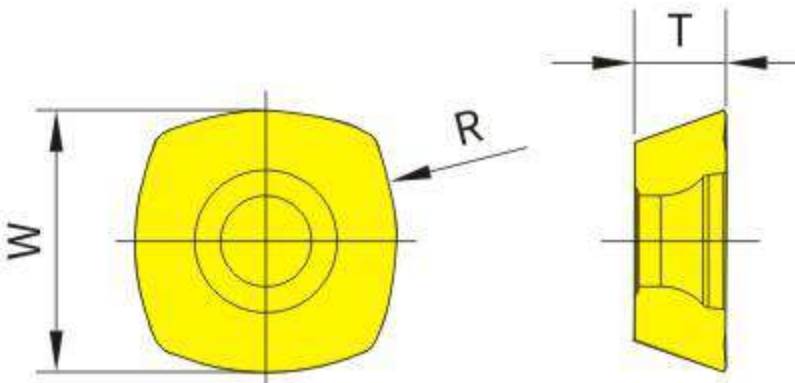
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		L	ØI.C	S	Ød	bs		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	LPGT010210ER-GM	4.19	2.19	2.1	6.26	1		●			●		▲				

WD□□



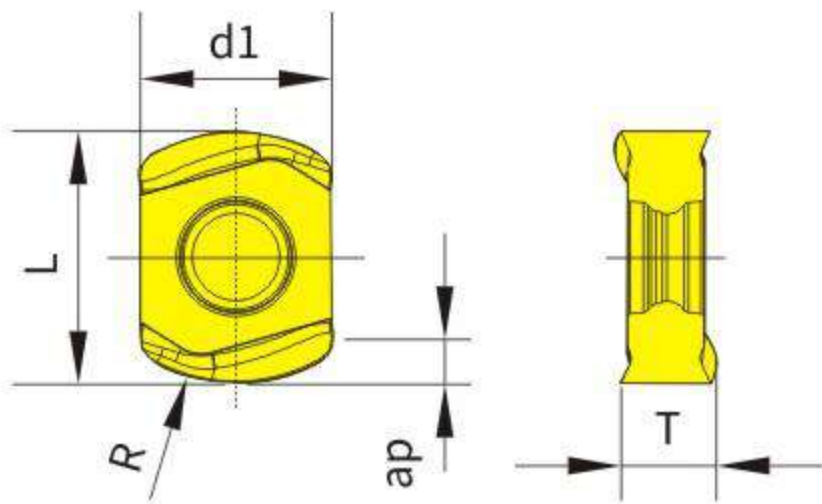
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		S	BS	Re	AN	-		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	WDMW06T320ZTR	10	3.97	1.2	2	-		●	●	▲			▲	●			
	WDMW080520ZTR	13	5.5	1.5	2	-		●	●	▲			▲	●			
	WDMW10X620ZTR	16	6	2	2			●	●	▲			▲	●			

SD□□



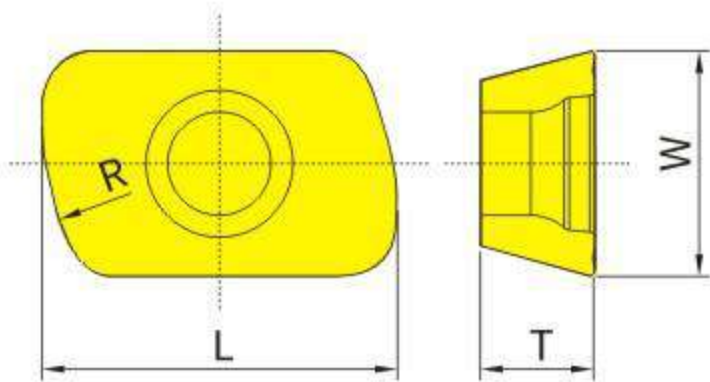
产品 Shape	型号 Code	尺寸 Dimension						Grade									
		R	T	W	Ød	Re		P		M		K	N	S	H		
								TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10
	SDMT120512-GM	15°	5.56	12.7	4.4	1.2		●			●	▲	●		●	●	
	SDMT150512-GM	15°	5.56	15.875	5.5	1.2		●			●	▲	●		●	●	
	SDMT120512-RD	15°	5.56	12.7	4.4	1.2		●			●	●	●		●	●	
	SDMT150512-RD	15°	5.56	15.875	5.5	1.2		●			●	●	●		●	●	
	SDMT09T308-MF	15°	3.97	9.5		0.8	▲				▲	●					
	SDMT120408-MF	15°	4.76	12.7		0.8	▲				▲	●					

BL□□



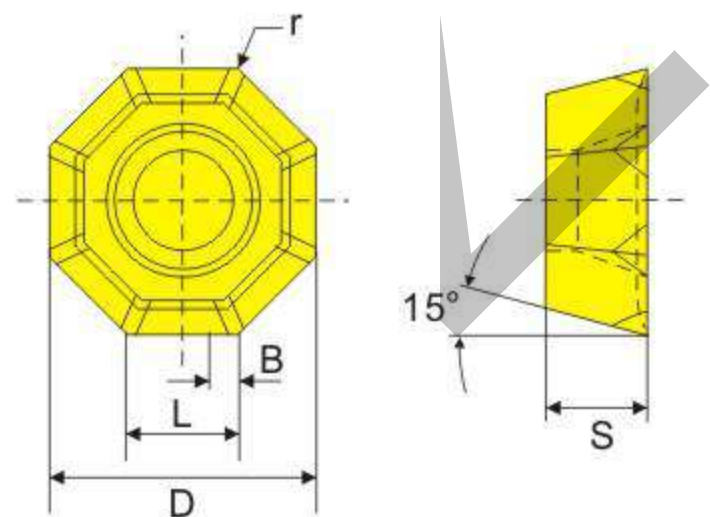
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		R	L	T	d1	AP	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	BLMP0603R-M	6	9	3.73	6.4	1	●	▲	▲	●	●		▲	▲	●			●		
	BLMP0904R-M	8	11.9	4.8	9.18	1.5	●	▲	▲	●	●		▲	▲	●			●		

EP□□



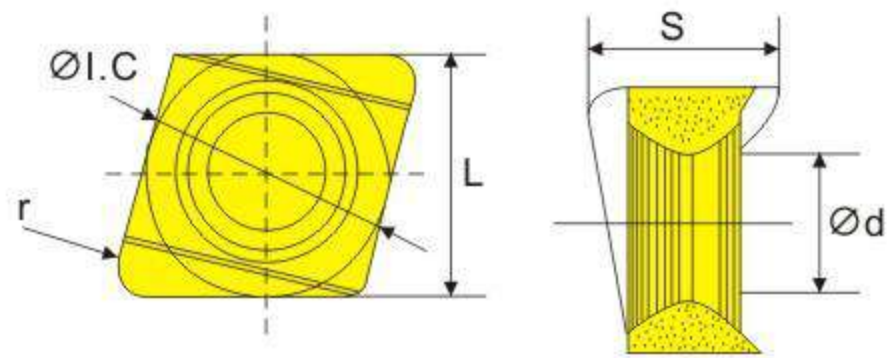
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		R	T	W	Ød	Re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	EPMT0603TN-8	8	8	3.18	6.35	2.8	●			●	●		●	▲				▲		
	EPNW0603TN-8	8	8	3.18	6.35	2.8	●			●	●		●	▲				▲		

ODMT



产品 Shape	型号 Code	尺寸 Dimension					Grade														
							P			M			K	N	S	H					
		A	B	C	r	-	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C	
	ODMT040408	12.7	4.62	4.62	0.8		●			▲							▲		●		

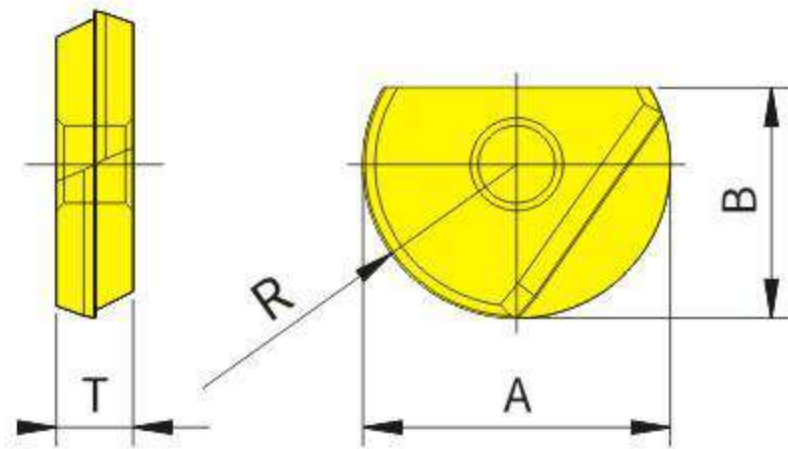
4NKT



产品 Shape	型号 Code	尺寸 Dimension					Grade														
							P			M			K	N	S	H					
		L	ØI.C	S	Ød	r	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C	
	4NKT060308R-M	6.6	6.35	4.6	3.34	0.8	●	●	▲	●	●	▲		●		▲		●			

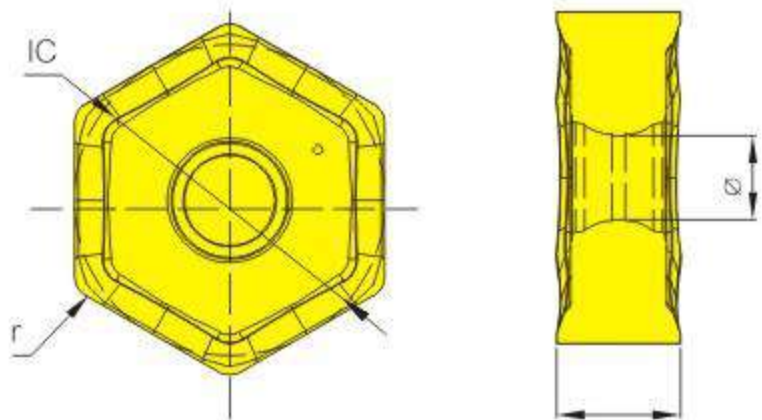
精密球头铣削刀片 Precision Ball End Milling Insert

BN□□/DH□□



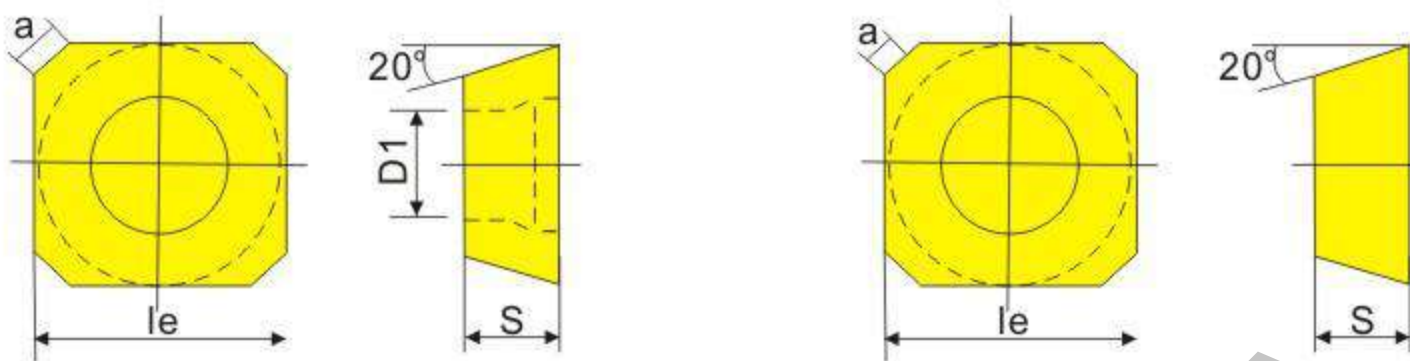
产品 Shape	型号 Code	尺寸 Dimension					Grade													
		R	A	B	T	—	P			M			K	N	S	H				
							TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	BNM160-M	8	16	12	4	—														
	BNM200-M	10	20	15	5	—														
	BNM250-M	12.5	25	18.5	6	—														
	DHB160-F	8	16	12	3	—														
	DHB200-F	10	20	15	3	—														
	DHB250-F	12.5	25	18.5	4	—														

HN□□



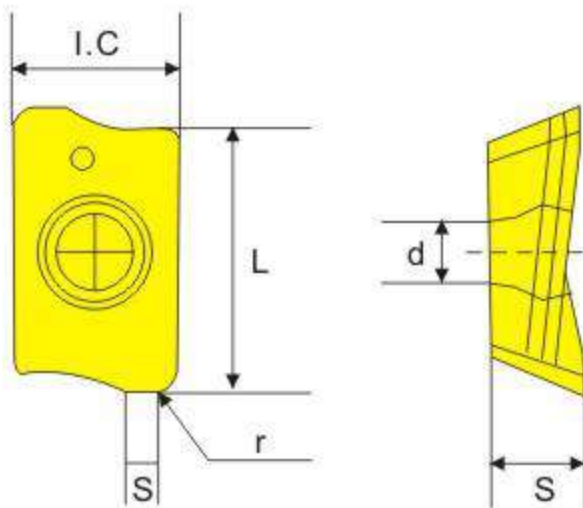
产品 Shape	型号 Code	尺寸 Dimension					Grade														
							P			M			K	N	S	H					
		A	B	C	r	-	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C	
	HNMG090608R	19.15	1.18	6.36	0.8	-	●		▲	●			▲								
	HNPJ070412ANSN-HP	12.7	1.5	4.41	0.5	-	▲			▲	●		●					▲			
	HNPJ0905ANSN-PM	15.88	1.9	5.46	1.0	-	▲			▲	●										

SE□□/SP□□



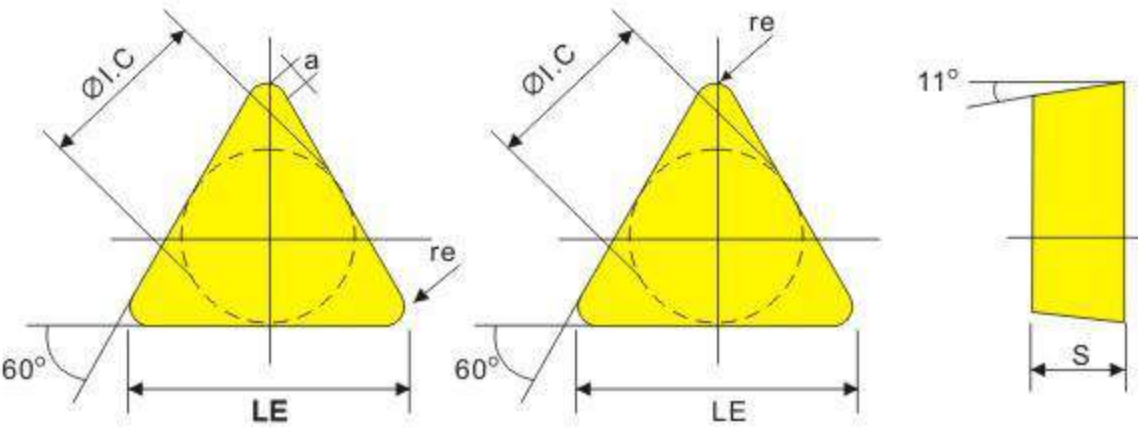
产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		le	W	S	D1	a	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	SEKT1204AFTN	12.7	12.7	4.76	5.5	2.66														
	SEKN1203AFTN	12.7	12.7	3.18		1.48														
	SEKN1204AFTN	12.7	12.7	4.76		1.48														
	SPKN1203EDR	12.7	12.7	3.18		1.48														
	SPKN1204EDR	12.7	12.7	4.76		1.48														

R390



产品 Shape	型号 Code	尺寸 Dimension					Grade														
							P			M				K	N	S	H				
		L	ØI.C	S	d	r	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C	
	R390-11T308-PM	11.6	6.8	3.59	2.8	0.8	●		●	●				▲		▲					
	R390-11T308-PL	11.6	6.8	3.59	2.8	0.8	●		●	●			●								

TP□□

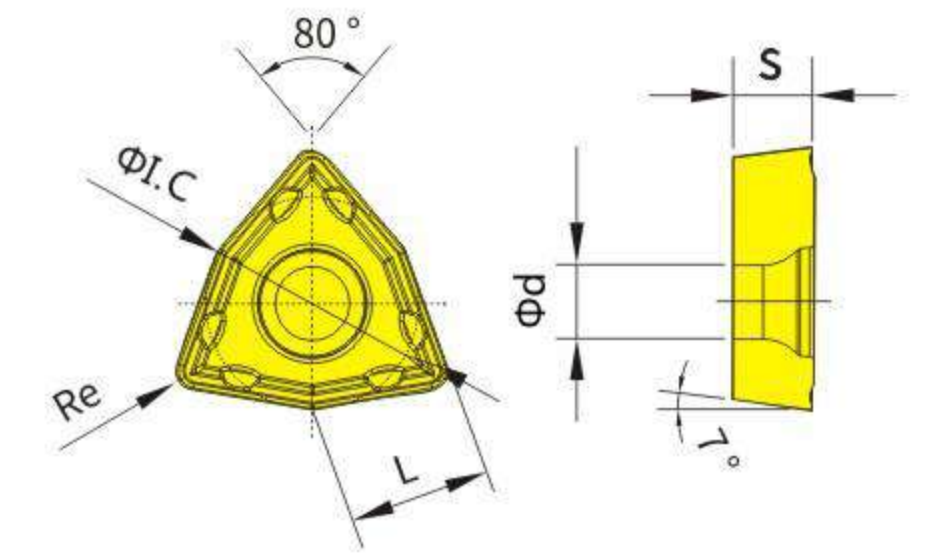


产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		LE	ØI.C	S	a	re	TP9508	TP1605	TP5355	TP9108	TP9105	TP6530-3	TP2052C	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	TPKN1603PDSR	16.5	9.525	3.18	1.7	-														
	TPKN2204PDSR	22	12.7	4.76	1.91	-														

钻削刀片 DRILLING INSERT

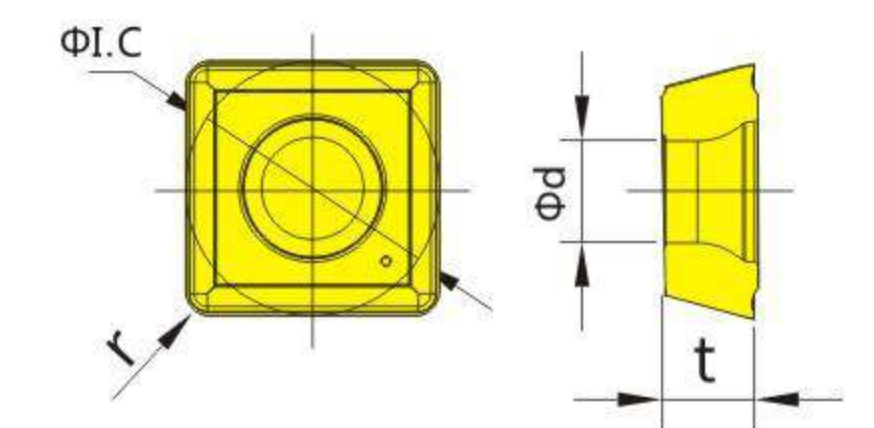
优异的耐热性耐磨损的硬质合金基体
结合高强度，实现不同工况的稳定加工。

WC□□



产品 Shape	型号 Code	尺寸 Dimension					Grade														
		ØI.C	S	Ød	Re	—	P			M			K	N	S	H					
							TP5355	TP1605	TP6025	TP5302E	TP2052C	TP825M	TP10H	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C	
	WCMX030208FN	5.56	2.38	2.8	0.8	—	▲	▲		●	●			●		▲		▲			
	WCMX040208FN	6.35	2.38	2.8	0.8	—	▲	▲		●	●			●		▲		▲			
	WCMT050308FN	7.94	3.18	3.4	0.8	—	▲	▲		●	●			●		▲		▲			
	WCMT06T308FN	9.53	3.97	3.8	0.8	—	▲	▲		●	●			●		▲		▲			
	WCMT080412FN	12.7	4.76	4.4	1.2	—	▲	▲		●	●			●		▲		▲			
	WCMX030208-DG	5.56	2.38	2.8	0.8	—		●		●	▲			●	●			▲			
	WCMX040208-DG	6.35	2.38	2.8	0.8	—		●		●	▲			●	●			▲			
	WCMX050308-DG	7.94	3.18	3.4	0.8	—		●		●	▲			●	●			▲			
	WCMT06T308-DG	9.53	3.97	3.8	0.8	—		●		●	▲			●	●			▲			
	WCMT080412-DG	12.7	4.76	4.4	1.2	—		●		●	▲			●	●			▲			
	WCMT030208-ZH	5.56	2.38	2.8	0.8	—															
	WCMT040208-ZH	6.35	2.38	2.8	0.8	—															
	WCMT050308-ZH	7.94	3.18	3.4	0.8	—															
	WCMT06T308-ZH	9.53	3.97	3.8	0.8	—															
	WCMT080412-ZH	12.7	4.76	4.4	1.2	—															

SP□□



产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P		M			K		N	S		H			
		ØI.C	S	Ød	Re	—	TP5355	TP1605	TP6025	TP5302E	TP2052C	TP825M	TP10H	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	SPMG050204-DG	5	5	0.4	0.4	—	●	▲	●	●			●	●			▲	▲		
	SPMG060204-DG	6	6	0.4	0.4	—	●	▲	●	●			●	●			▲	▲		
	SPMG07T308-DG	7.94	7.94	0.8	0.8	—	●	▲	●	●			●	●			▲	▲		
	SPMG090408-DG	9.8	9.8	0.8	0.8	—	●	▲	●	●			●	●			▲	▲		
	SPMG110408-DG	11.5	11.5	0.8	0.8	—	●	▲	●	●			●	●			▲	▲		
	SPMG140512-DG	14.3	14.3	1.2	1.2	—	●	▲	●	●			●	●			▲	▲		
	SPMT050204-ZH	5	5	0.4	0.4	—			●	●										
	SPMT060204-ZH	6	6	0.4	0.4	—			●	●										
	SPMT07T308-ZH	7.94	7.94	0.8	0.8	—			●	●										
	SPMT090408-ZH	9.8	9.8	0.8	0.8	—			●	●										
	SPMT110408-ZH	11.5	11.5	0.8	0.8	—			●	●										
	SPMT140512-ZH	14.3	14.3	1.2	1.2	—			●	●										

Turning

Milling

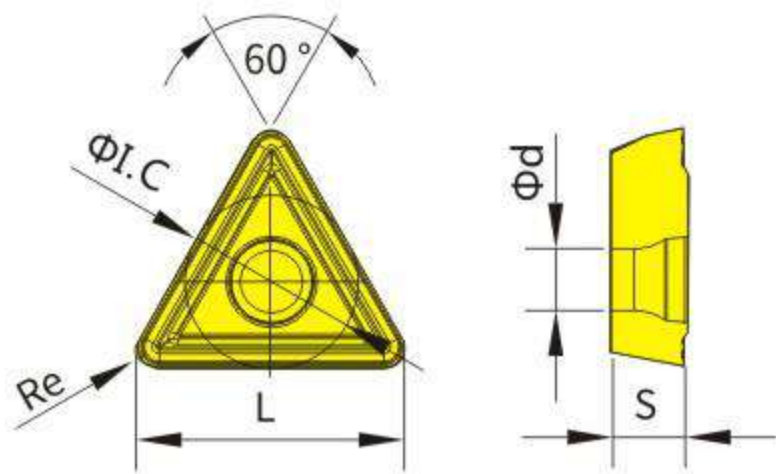
Drilling

Grooving

Threading

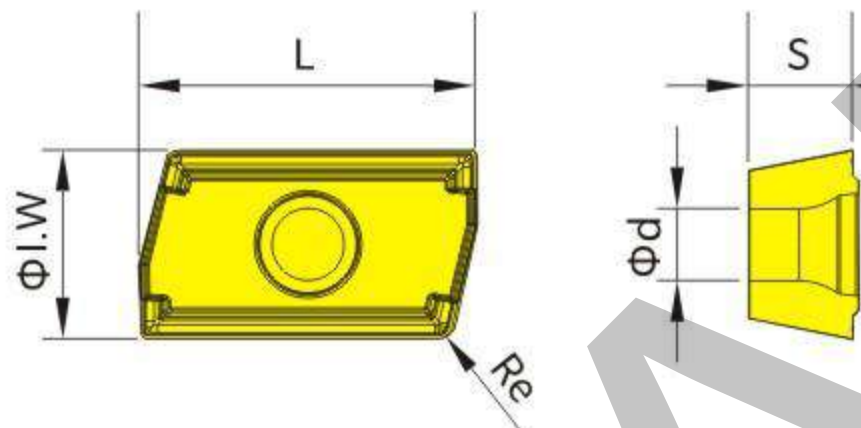
End Mill

TP□□



产品 Shape	型号 Code	尺寸 Dimension					Grade													
							P			M			K	N	S	H				
		ØI.C	L	S	Ød	Re	TP3355	TP1605	TP6025	TP3302E	TP2052C	TP825M	TP10H	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E	TP4351C
	TPMT16T312-PM	9.53	16.5	3.97	3.4	1.2	▲					●	●	●	▲					
	TPMT220612-PM	12.7	22	6.35	4.4	1.2	▲					●	●	●	▲					

LP□□



产品 Shape	型号 Code	尺寸 Dimension					Grade												
		ØI.C	L	S	Ød	Re	P			M			K	N	S	H			
							TP5355	TP1605	TP6025	TP5302E	TP2052C	TP825M	TP10H	TP5353E	TC5255	K10	TP9502S	TP9502	TP4351E
	LPMT13T308-PM	10	14.7	3.97	3.4	0.8	▲				●	▲		●					
	LPMT180608-PM	11	14.7	3.97	3.4	0.8	▲				●	▲		●					

GROOVING

牌号 Brand	产品 Shape	尺寸 Dimension	型号 Code	尺寸 Dimension					Grade							
				L	S	T	B	R	P		M		S	H		
									TP9508	TP5355	TP1605	TP220	TP9108	TP825M	TP6530-3	TP5351C
ZCC			SP200	9.3	3.9	-	2.2	0.2	▲		●	●				
			SP300	11.3	4.4	-	3.1	0.2	▲		●	●				
			SP400	11.3	4.95	-	4.1	0.3	▲		●	●				
			SP500	11.4	5	-	5.1	0.3	▲		●		●	●	▲	
			MGGN200	20	3.9	1.7	2	0.2	▲		●		●	●	●	▲
			MGGN300	20	4	2.4	3	0.2	▲		●		●	●	●	▲
			MGGN400	20	4.05	3	4	0.3	▲		●		●	●	●	▲
			MGGN500	25	4.89	4	5	0.3	▲		●		●	●	●	▲
TAEGUTEC			TDJ2	20	3.9	1.7	2	0.2								
			TDJ3	20	4	2.4	3	0.2								
			TDJ4	20	4.05	3	4	0.3								
			TDJ5	25	4.89	4	5	0.3								
TAEGUTEC			TDC2	20	3.9	1.7	2	0.2	●	▲	●	●	●	●		▲
			TDC3	20	4	2.4	3	0.2	●	▲	●	●	●	●		▲
			TDC4	20	4.05	3	4	0.3	●	▲	●	●	●	●		▲
			TDC5	25	4.89	4	5	0.3	●	▲	●	●	●	●		▲
TAEGUTEC			TDT3	20	4	2.4	3	0.2	●	▲	●	●	●	●		▲
			TDT4	20	4.05	3	4	0.3	●	▲	●	●	●	●		▲
			TDT5	25	4.89	4	5	0.3	●	▲	●	●	●	●		▲

GROOVING

牌号 Brand	产品 Shape	尺寸 Dimension	型号 Caode	尺寸 Dimension					Grade							
				L	S	T	B	R	P				M	S	H	
									TP9508	TP5355	TP1605	TP220	TP9108	TP825M	TP6530-3	TP5351C
KORLOY			MGMN200-G	16	3.5	1.6	2	0.2	●		▲	●	●	●	●	▲
			MGMN250-G	18.5	3.85	2	2.5	0.2	●		▲	●	●	●	●	▲
			MGMN300-G	21	4.8	2.35	3	0.3	●		▲	●	●	●	●	▲
			MGMN400-G	21	4.8	3.3	4	0.4	●		▲	●	●	●	●	▲
			MGMN500-G	26	5.8	4.12	5	0.8	●		▲	●	●	●	●	▲
KORLOY			MGMN200-M	16	3.5	1.6	2	0.2	●		▲	●	●	●	●	▲
			MGMN250-M	18.5	3.85	2	2.5	0.2	●		▲	●	●	●	●	▲
			MGMN300-M	21	4.8	2.35	3	0.3	●		▲	●	●	●	●	▲
			MGMN400-M	21	4.8	3.3	4	0.3	●		▲	●	●	●	●	▲
			MGMN500-M	26	5.8	4.12	5	0.8	●		▲	●	●	●	●	▲
			MGMN600-M				6	0.8	●		▲	●	●	●	●	▲
KORLOY			MGMN200-T	16	3.5	1.6	2	0.2	●		▲	●	●	●	●	▲
			MGMN300-T	21	4.8	2.35	3	0.3	●		▲	●	●	●	●	▲
			MGMN400-T	21	4.8	3.3	4	0.4	●		▲	●	●	●	●	▲
			MGMN500-T	26	5.8	4.12	5	0.8	●		▲	●	●	●	●	▲
KORLOY			MRMN200-M	16	3.5	1.6	2	1	●		▲	●	●	●	●	▲
			MRMN300-M	21	4.8	2.35	3	1.5	●		▲	●	●	●	●	▲
			MRMN400-M	21	4.8	3.3	4	2	●		▲	●	●	●	●	▲
			MRMN500-M	26	5.8	4.12	5	2.5	●		▲	●	●	●	●	▲
TAEGUTEC			TDXU3	21	4.8	2.35	3	0.3								
			TDXU4	21	4.8	3.3	4	0.4								

WITH CHIP-BREAKER

WITHOUT CHIP-BREAKER

TQS

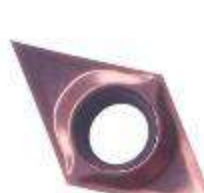
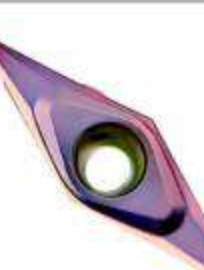


型号 Caode
PENTA24N050
PENTA24N100
PENTA24N150
PENTA24N200
PENTA24N250
PENTA24N300
PENTA24N350
PENTA24N400

型号 Caode
PENTA24N050
PENTA24N100
PENTA24N150
PENTA24N200
PENTA24N250
PENTA24N300
PENTA24N350
PENTA24N400

型号 Caode
TQS27-0.5.....3.98

FINISHING MILLING INSERT

产品 Shape	型号 Code	Grade				
		TP6530-3	TP825M	TP10H	TP9508	TP15M
	DCGT070201-ZH					
	070202-ZH	▲	●		●	▲
	11T301-ZH					
	11T302-ZH					
	CCGT060201-ZH					
	060202-ZH	▲	●		●	▲
	09T301-ZH					
	09T302-ZH					
	VBGT110301-ZH					
	110302-ZH	▲	●		●	▲
	160401-ZH					
	160402-ZH					
	TNGG160401-ZH					
	160402-ZH	▲	●		●	▲
	DCGT070201-ML					
	070202-ML				●	▲
	070204-ML					●
	11T301-ML					
	11T302-ML					
	VC GT110301-ML					
	110302-ML				●	▲
	160401-ML					●
	160402-ML					
	VC GT110302-VF					
					▲	●

产品 Shape	型号 Code	Grade				
		TP6530-3	TP825M	TP10H	TP9508	TP15M
	CCGT060201-ZL					
	060202-ZL					
	060204-ZL	●				▲
	CCGT09T301-ZL					
	09T302-ZL					
	09T304-ZL					
	DCGT070201-ZL					
	070202-ZL					
	070204-ZL	●				▲
	DCGT11T301-ZL					
	11T302-ZL					
	11T304-ZL					
	VC GT110301-ZL					
	110302-ZL	●				▲
	110304-ZL					
	TNGG160401-YL					
	160402-YL	●				▲
	160404-YL					
	VBGT110301R-Y					
	110302R-Y					
	160401R-Y	●				▲
	160402R-Y					●
	160404R-Y					
	VBGT110301R/L-F					
	110302R/L-F	●				▲
	110304R/L-F					●
	160402R/L-F					
	160404R/L-F					
	VBGT110301R/L-Y					
	110302R/L-Y					
	110304R/L-Y					
	160402R/L-Y					
	160404R/L-Y					

THREADING INSERTS

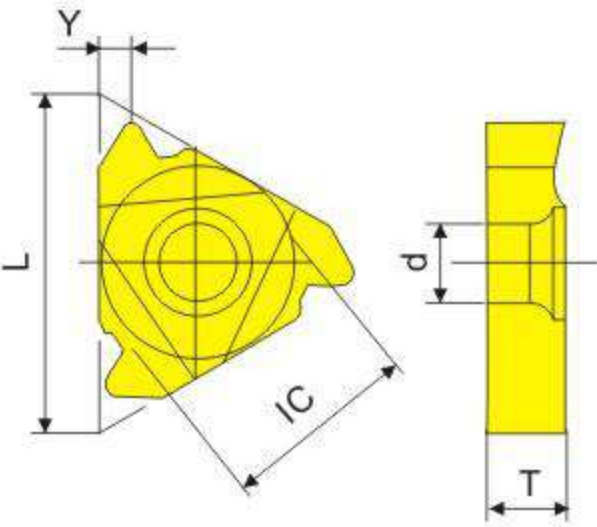
Applications	产品 Shape	尺寸 Dimension	型号 Code	Pitch	PNA	IC	Y	T	Grade					
									P	M	K	N		
通用螺纹 Universal			16ER/IR	A55	0.5-1.5	60°	9.525	0.9	3.52	●	●		●	
				G55	1.75-3.0			1.7						
				AG55	0.5-3.0			1.7						
惠氏螺纹 Whitworth			16ER/IR	11W	11	60°	9.525	1.5	3.52	●	●		●	
				12W	12			1.4						
				14W	14			1.2						
				19W	19			1.0						
美式 UN-60°			16ER/IR	12UN	12	60°	9.525	1.4	3.52	●	●		●	
				16UN	16			1.1						
				18UN	18			1.1						
				20UN	20			1.1						
英式管螺纹 Pipe thread			16ER/IR	11BSPT	11	55°	9.525	1.5	3.52	●	●		●	
				14BSPT	14			1.2						
				19BSPT	19			0.9						
美式管螺纹 Pipe thread			16ER/IR	115NPT	11.5	60°	9.525	1.5	3.52	●	●		●	
				14NPT	14			1.2						
				18NPT	18			1.0						

MITSUBISHI SERIES THREADING INSERTS

Applications	产品 Shape	尺寸 Dimension	型号 Code	Pitch	PNA	IC	Y	T	Grade					
									P	M	K	N		
完全磨 Fully Grinding			MMTR 11IR	A60-S	0.5-1.5	0.6	1/4	0.8	-		●		●	
				A55-S	0.5-1.5	0.6	1/4	0.8	-		●		●	
			MMTR 16ER/IR	A55-S	0.5-1.5	0.8	3/8	0.9	-		●		●	
				A60-S	0.5-1.5	0.8	3/8	0.9	-		●		●	
				G55-S	1.75-3.0	1.5	3/8	1.7	-		●		●	
				G60-S	1.75-3.0	1.5	3/8	1.7	-		●		●	
				AG55-S	0.5-1.5	0.6	3/8	0.7	-		●		●	
				AG60-S	0.5-3.0	1.2	3/8	1.7	-		●		●	
				1.0ISO-S	1	0.6	3/8	0.7	-		●		●	
				1.25ISO-S	1.25	0.8	3/8	0.8	-		●		●	
				1.5ISO-S	1.5	0.8	3/8	1	-		●		●	
				1.75ISO-S	1.75	1.2	3/8	1.5	-		●		●	
				2.0ISO-S	2	1	3/8	1.3	-		●		●	
				2.5ISO-S	2.5	1.1	3/8	1.5	-		●		●	
				3.0ISO-S	3	1.1	3/8	1.5	-		●		●	
				11.5NPT-S	2.21	0.8	3/8	1	-		●		●	
				14NPT-S	1.81	0.8	3/8	1	-		●		●	
				11BSPT-S	2.31	1.1	3/8	1.5	-		●		●	
				14BSPT-S	1.81	1	3/8	1.2	-		●		●	
				11W-S	2.31	1.1	3/8	1.5	-		●		●	
				14W-S	1.81	1	3/8	1.2	-		●		●	

EXTERNAL PARTIAL PROFILE 60°

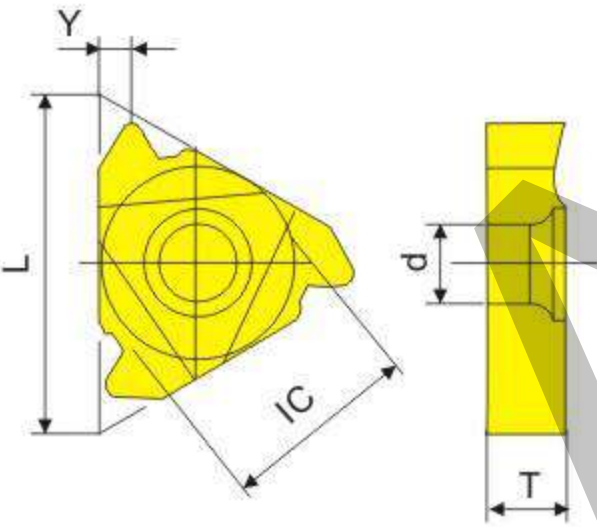
Model	L(mm)	IC(mm)	d(mm)
08..	8	4.76	2.1
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P			M	K	N	
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	16ERAG60-M		0.5-3.0	0.07	1.7	3.65	▲						
	16ERG60-M		1.75-3.0	0.25	1.7	3.65	▲						
	22ERN60-M		3.5-5.0	0.4	1.7	3.65	▲						
	11ERA60	11ELA60	0.5-1.5	0.07	0.9	3.18	▲					▲	▲
	16ERA60	16ELA60	0.5-1.5	0.07	0.9	3.65	▲					▲	▲
	16ERAG60	16ELAG60	0.5-3.0	0.07	1.7	3.65	▲					▲	▲
	16ERG60	16ELG60	1.75-3.0	0.25	1.7	3.65	▲					▲	▲
	22ERN60	22ELN60	3.5-5.0	0.4	2.5	4.9	▲					▲	▲
	27ERQ60	27ELQ60	5.5-6.0	0.79		6.4							
	16VERAG60	16VELAG60	0.5-3.0	0.07		3.65	▲						
	27VERV60	27VELV60	6.0-9.0	0.87		8.7							

INTERNAL PARTIAL PROFILE 60°

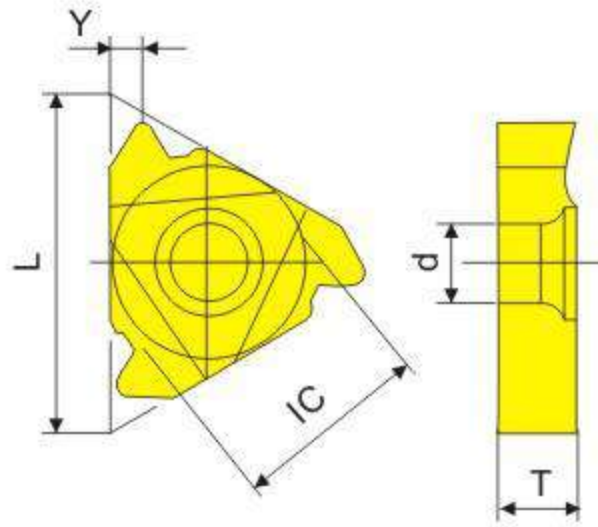
Model	L(mm)	IC(mm)	d(mm)
08..	8	4.76	2.1
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P	M	K	N			
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	11NRA60-M		0.5-1.5	0.07	0.9	3.18	▲				▲		
	16NRAG60-M		0.5-3.0	0.07	1.7	3.65	▲				▲		
	16NRG60-M		1.75-3.0	0.2	1.7	3.65	▲				▲		
	22NRN60-M		3.5-5.0	0.4	1.7	3.65							
	06NRA60	06NLA60	0.5-1.5	0.07		1.9	▲					▲	▲
	08NRA60	08NLA60	0.5-1.5	0.07	0.9	2.38	▲					▲	▲
	11NRA60	11NLA60	0.5-1.5	0.07	0.9	3.18	▲					▲	▲
	16NRA60	16NLA60	0.5-1.5	0.07	0.9	3.65	▲					▲	▲
	16NRAG60	16NLAG60	0.5-3.0	0.07	1.7	3.65	▲					▲	▲
	16NRG60	16NLG60	1.75-3.0	0.2	1.7	3.65							
	22NRN60	22NLN60	3.5-5.0	0.4	2.5	4.9							
	27NRQ60	27NLQ60	5.5-6.0	0.4		6.4							
	16VNRAG60	16VNLAG60	0.5-3.0	0.07		3.65	▲						
	27VNRV60	27VNLV60	6.0-9.0	0.43		8.7							

EXTERNAL PARTIAL PROFILE 55°
THREADING INSERT

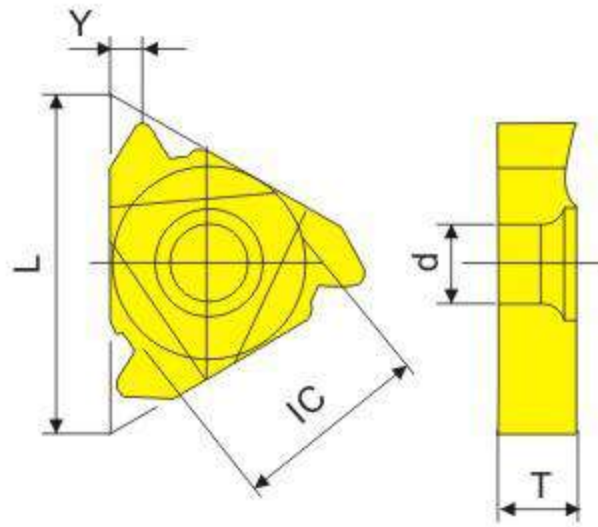
Model	L(mm)	IC(mm)	d(mm)
08..	8	4.76	2.1
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P M K N						
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	16ERAG55-M		48-8	0.07	1.5	3.65	▲				▲		
	11ERA55	11ELA55	48-16	0.07	0.9	3.18	▲					▲	▲
	16ERA55	16ELA55	48-16	0.07	0.9	3.65	▲					▲	▲
	16ERAG55	16ELAG55	48-8	0.07	1.5	3.65	▲					▲	▲
	16ERG55	16ELG55	18-8	0.25	1.5	3.65	▲					▲	▲
	22ERN55	22ELN55	7-5	0.4	2.5	4.9	▲					▲	▲
	27ERQ55	27ELQ55	4.5-4	0.78		6.4							
	16VERAG55	16VELAG55	48-8	0.07		3.65							
	27VERV55	27VELV55	4-2.5	0.88		8.7							

INTERNAL PARTIAL PROFILE 55°
THREADING INSERT

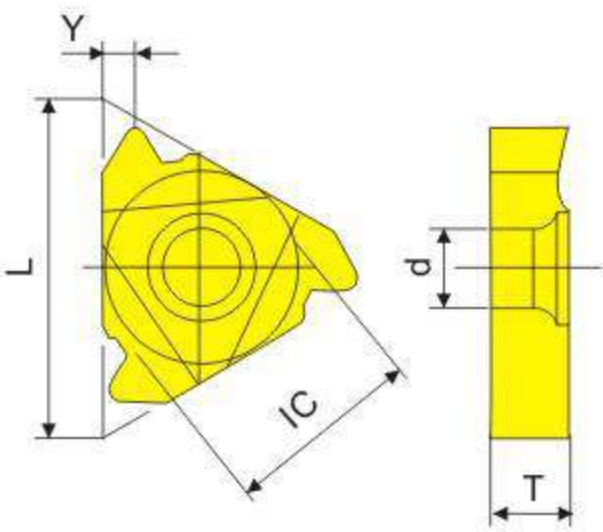
Model	L(mm)	IC(mm)	d(mm)
08..	8	4.76	2.1
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade							
				R	Y	T	P			M	K	N		
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10	
	16NRAG55-M		48-8	0.06	1.5	3.65	▲					▲		
	06NRA55	06NLA55	48-16	0.07		1.9	▲						▲	▲
	08NRA55	08NLA55	48-16	0.07	0.9	2.38	▲						▲	▲
	11NRA55	11NLA55	48-16	0.07	0.9	3.18	▲						▲	▲
	16NRA55	16NLA55	48-16	0.07	1.5	3.65	▲						▲	▲
	16NRAG55	16NLAG55	48-8	0.07	1.5	3.65	▲						▲	▲
	16NRG55	16NLG55	18-8	0.2	1.5	3.65								
	22NRN55	22NLN55	7-5	0.4	2.5	4.9								
	27NRQ55	27NLQ55	4.5-4	0.79		6.4								
	16VNRAG55	16VNLAG55	48-8	0.06		3.65								
	27VNRV55	27VNLV55	4-2.5	0.89		8.7								

EXTERNAL ISO METRIC
THREADING INSERT-60°

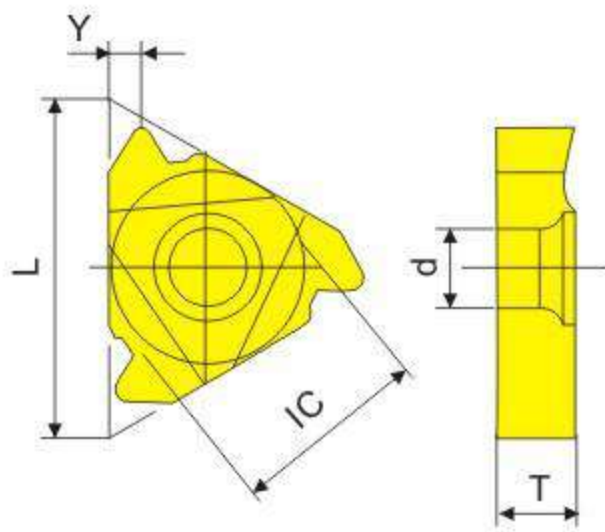
Model	L(mm)	IC(mm)	d(mm)
08..	8	4.76	2.1
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P M K N						
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	16ER1.00ISO-M		1.0	0.14	0.7	3.65	▲	▲		▲	▲		
	16ER1.50ISO-M		1.5	0.22	1	3.65	▲	▲		▲	▲		
	16ER2.00ISO-M		2	0.29	1.3	3.65	▲	▲		▲	▲		
	16ER2.50ISO-M		2.5	0.36	1.5	3.65	▲	▲		▲	▲		
	16ER3.00ISO-M		3	0.43	1.6	3.65	▲	▲		▲	▲		
	22ER3.50ISO-M		3.5	0.51	2	4.9	▲	▲		▲	▲		
	22ER4.00ISO-M		4	0.58	2	4.9	▲	▲		▲	▲		
	22ER5.00ISO-M		5	0.72	2.4	4.9	▲	▲		▲	▲		
	22ER6.00ISO-M		6	0.87	2.7	4.9	▲	▲		▲	▲		
	11ER0.50ISO	11EL0.50ISO	0.5	0.07	0.6	3.18	▲	▲		▲	▲		▲
	11ER0.75ISO	11EL0.75ISO	0.75	0.11	0.6	3.18	▲	▲		▲	▲		▲
	11ER1.00ISO	11EL1.00ISO	1.00	0.14	0.7	3.18	▲	▲		▲	▲		▲
	11ER1.25ISO	11EL1.25ISO	1.25	0.18	0.9	3.18	▲	▲		▲	▲		▲
	11ER1.50ISO	11EL1.50ISO	1.50	0.22	1	3.18	▲	▲		▲	▲		▲
	11ER1.75ISO	11EL1.75ISO	1.75	0.25	1.1	3.18	▲	▲		▲	▲		▲
	11ER2.00ISO	11EL2.00ISO	2.00	0.29	1	3.18	▲	▲		▲	▲		▲
	16ER0.50ISO	16EL0.50ISO	0.50	0.07	0.6	3.65	▲	▲		▲	▲		▲
	16ER0.75ISO	16EL0.75ISO	0.75	0.11	0.6	3.65	▲	▲		▲	▲		▲
	16ER1.00ISO	16EL1.00ISO	1.00	0.14	0.7	3.65	▲	▲		▲	▲		▲
	16ER1.25ISO	16EL1.25ISO	1.25	0.18	0.9	3.65	▲	▲		▲	▲		▲
	16ER1.50ISO	16EL1.50ISO	1.50	0.22	1	3.65	▲	▲		▲	▲		▲
	16ER1.75ISO	16EL1.75ISO	1.75	0.25	1.2	3.65	▲	▲		▲	▲		▲
	16ER2.00ISO	16EL2.00ISO	2.00	0.29	1.3	3.65	▲	▲		▲	▲		▲
	16ER2.50ISO	16EL2.50ISO	2.50	0.36	1.5	3.65	▲	▲		▲	▲		▲
	16ER3.00ISO	16EL3.00ISO	3.00	0.43	1.6	3.65	▲	▲		▲	▲		▲
	16ER3.50ISO	16EL3.50ISO	3.50	0.51	1.6	3.65	▲	▲		▲	▲		▲
	22ER3.00ISO	22EL3.00ISO	3.00	0.43	2	4.9	▲	▲		▲	▲		▲
	22ER3.50ISO	22EL3.50ISO	3.50	0.51	2	4.9	▲	▲		▲	▲		▲
	22ER4.00ISO	22EL4.00ISO	4.00	0.58	2	4.9	▲	▲		▲	▲		▲
	22ER4.50ISO	22EL4.50ISO	4.50	0.65	2.2	4.9	▲	▲		▲	▲		▲
	22ER5.00ISO	22EL5.00ISO	5.00	0.72	2.4	4.9	▲	▲		▲	▲		▲
	22ER5.50ISO	22EL5.50ISO	5.50	0.79	2.5	4.9	▲	▲		▲	▲		▲
	22ER6.00ISO	22EL6.00ISO	6.00	0.87	2.7	4.9	▲	▲		▲	▲		▲
	27ER5.50ISO	27EL5.50ISO	5.50	0.79		6.4	▲	▲		▲	▲		▲
	27ER6.00ISO	27EL6.00ISO	6.00	0.87		6.4	▲	▲		▲	▲		▲
	16VER1.00ISO		1.0	0.07	0.7	3.65	▲						
	16VER1.50ISO		1.5	0.11	1	3.65	▲						
	16VER2.00ISO		2.0	0.14	1.3	3.65	▲						
	16VER2.50ISO		2.5	0.18	1.5	3.65	▲						
	16VER3.00ISO		3.0	0.22	1.6	3.65	▲						
	22VER4.00ISO		4.0	0.29	2	4.9	▲						
	22VER5.00ISO		5.0	0.36	2.4	4.9	▲						
	27VER6.00ISO		6.0	0.43	2.7	6.4	▲						
	27VER8.00ISO		8.0			8.7	▲						
	27VER10.0ISO		10.0			10	▲						

INTERNAL ISO METRIC
THREADING INSERT-60°

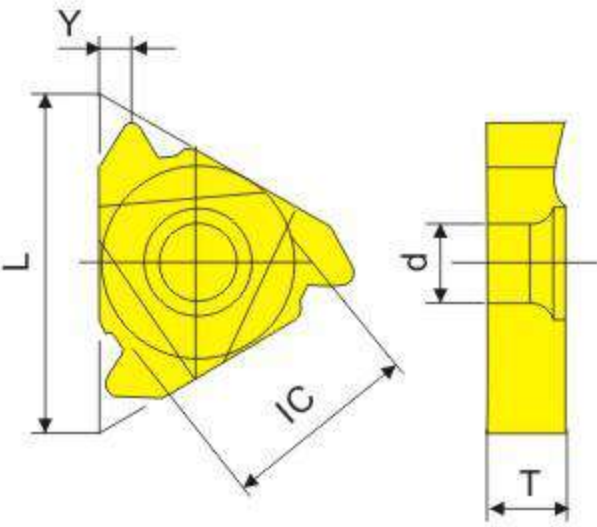
Model	L(mm)	IC(mm)	d(mm)
08..	8	4.76	2.1
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35

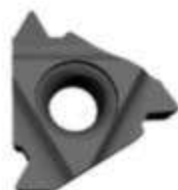


产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P M K N						
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	11NR1.00ISO-M		1	0.07	0.7	3.18	▲				▲		
	11NR1.50ISO-M		1.5	0.11	1	3.18	▲				▲		
	11NR2.00ISO-M		2	0.14	1	3.18	▲				▲		
	16NR1.00ISO-M		1	0.07	0.7	3.65	▲				▲		
	16NR1.50ISO-M		1.5	0.11	1	3.65	▲				▲		
	16NR2.00ISO-M		2	0.14	1.3	3.65	▲				▲		
	16NR2.50ISO-M		2.5	0.18	1.5	3.65	▲				▲		
	16NR3.00ISO-M		3	0.22	1.6	3.65	▲				▲		
	22NR3.50ISO-M		3.5	0.25	2	4.9	▲				▲		
	22NR4.00ISO-M		4	0.29	2	4.9	▲				▲		
	22NR5.00ISO-M		5	0.36	2.4	4.9	▲				▲		
	22NR6.00ISO-M		6	0.43	2.7	4.9	▲				▲		
	08NR0.50ISO	08NL0.50ISO	0.5	0.04		2.38	▲	▲		▲	▲		▲
	08NR0.75ISO	08NL0.75ISO	0.75	0.05		2.38	▲	▲		▲	▲		▲
	08NR1.00ISO	08NL1.00ISO	1.0	0.07		2.38	▲	▲		▲	▲		▲
	08NR1.25ISO	08NL1.25ISO	1.25	0.09		2.38	▲	▲		▲	▲		▲
	08NR1.50ISO	08NL1.50ISO	1.5	0.11		2.38	▲	▲		▲	▲		▲
	08NR1.75ISO	08NL1.75ISO	1.75	0.13		2.38	▲	▲		▲	▲		▲
	11NR0.50ISO	11NL0.50ISO	0.5	0.04	0.6	3.18	▲	▲		▲	▲		▲
	11NR0.75ISO	11NL0.75ISO	0.75	0.05	0.6	3.18	▲	▲		▲	▲		▲
	11NR1.00ISO	11NL1.00ISO	1.0	0.07	0.7	3.18	▲	▲		▲	▲		▲
	11NR1.25ISO	11NL1.25ISO	1.25	0.09	0.9	3.18	▲	▲		▲	▲		▲
	11NR1.50ISO	11NL1.50ISO	1.5	0.11	1	3.18	▲	▲		▲	▲		▲
	11NR1.75ISO	11NL1.75ISO	1.75	0.13	1.1	3.18	▲	▲		▲	▲		▲
	11NR2.00ISO	11NL2.00ISO	2.0	0.14	1	3.18	▲	▲		▲	▲		▲
	11NR2.50ISO	11NL2.50ISO	2.5	0.18	1	3.18	▲	▲		▲	▲		▲
	16NR0.50ISO	16NL0.50ISO	0.5	0.04	0.6	3.65	▲	▲		▲	▲		▲
	16NR0.75ISO	16NL0.75ISO	0.75	0.05	0.6	3.65	▲	▲		▲	▲		▲
	16NR1.00ISO	16NL1.00ISO	1.0	0.07	0.7	3.65	▲	▲		▲	▲		▲
	16NR1.25ISO	16NL1.25ISO	1.25	0.09	0.9	3.65	▲	▲		▲	▲		▲
	16NR1.50ISO	16NL1.50ISO	1.5	0.11	1	3.65	▲	▲		▲	▲		▲
	16NR1.75ISO	16NL1.75ISO	1.75	0.13	1.2	3.65	▲	▲		▲	▲		▲
	16NR2.00ISO	16NL2.00ISO	2.0	0.14	1.3	3.65	▲	▲		▲	▲		▲
	16NR2.50ISO	16NL2.50ISO	2.5	0.18	1.5	3.65	▲	▲		▲	▲		▲
	16NR3.00ISO	16NL3.00ISO	3.0	0.22	1.6	3.65	▲	▲		▲	▲		▲
	16NR3.50ISO	16NL3.50ISO	3.5	0.25	1.6	3.65	▲	▲		▲	▲		▲
	22NR3.00ISO	22NL3.00ISO	3.0	0.22	2	4.9	▲	▲		▲	▲		▲
	22NR3.50ISO	22NL3.50ISO	3.5	0.25	2	4.9	▲	▲		▲	▲		▲
	22NR4.00ISO	22NL4.00ISO	4.0	0.29	2	4.9	▲	▲		▲	▲		▲
	22NR4.50ISO	22NL4.50ISO	4.5	0.32	2.2	4.9	▲	▲		▲	▲		▲
	22NR5.00ISO	22NL5.00ISO	5.0	0.36	2.4	4.9	▲	▲		▲	▲		▲
	22NR5.50ISO	22NL5.50ISO	5.5	0.4	2.5	4.9	▲	▲		▲	▲		▲
	22NR6.00ISO	22NL6.00ISO	6.0	0.43	2.7	4.9	▲	▲		▲	▲		▲
	27NR5.50ISO	27NL5.50ISO	5.5	0.4		6.4	▲	▲		▲	▲		▲
	27NR6.00ISO	27NL6.00ISO	6.0	0.43		6.4	▲	▲		▲	▲		▲
	16VNR1.00ISO		1.0	0.07		3.65	▲						
	16VNR1.50ISO		1.5	0.11		3.65	▲						
	16VNR2.00ISO		2.0	0.14		3.65	▲						
	16VNR2.50ISO		2.5	0.18		3.65	▲						
	16VNR3.00ISO		3.0	0.22		3.65	▲						
	22VNR4.00ISO		4.0	0.29		4.76	▲						
	22VNR5.00ISO		5.0	0.36		4.9	▲						
	27VNR6.00ISO		6.0	0.43		6.4	▲						
	27VNR8.00ISO		8.0			8.7	▲						
	27VNR10.0ISO		10.0			10	▲						

EXTERNAL 60° AMERICAN UN
UNC UNF UNEF UNS

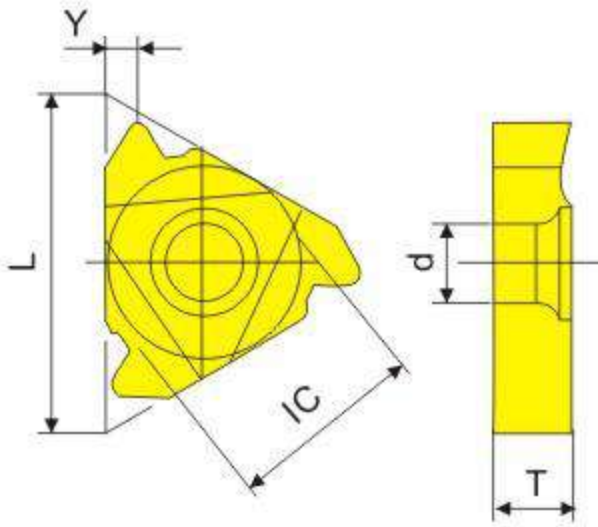
Model	L(mm)	IC(mm)	d(mm)
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P M K N						
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	11ER32UN	11EL32UN	32	0.11	0.8	3.18							
	11ER28UN	11EL28UN	28	0.13	0.8	3.18							
	11ER24UN	11EL24UN	24	0.16	0.8	3.18							
	11ER20UN	11EL20UN	20	0.18	0.8	3.18							
	11ER18UN	11EL18UN	18	0.2	0.8	3.18							
	11ER16UN	11EL16UN	16	0.23	1	3.18							
	11ER14UN	11EL14UN	14	0.26	1	3.18							
	11ER12UN	11EL12UN	12	0.3	1.1	3.18							
	16ER32UN	16EL32UN	32	0.11	0.8	3.65	▲						
	16ER28UN	16EL28UN	28	0.13	0.8	3.65	▲						
	16ER24UN	16EL24UN	24	0.16	0.8	3.65	▲						
	16ER20UN	16EL20UN	20	0.18	0.8	3.65	▲						
	16ER18UN	16EL18UN	18	0.2	0.8	3.65	▲						
	16ER16UN	16EL16UN	16	0.23	1	3.65	▲						
	16ER14UN	16EL14UN	14	0.26	1.2	3.65	▲						
	16ER12UN	16EL12UN	12	0.3	1.2	3.65	▲						
	16ER11UN	16EL11UN	11	0.33	1.4	3.65							
	16ER10UN	16EL10UN	10	0.36	1.4	3.65	▲						
	16ER9UN	16EL9UN	9	0.41	1.6	3.65							
	16ER8UN	16EL8UN	8	0.46	1.6	3.65	▲						
	22ER7UN	22EL7UN	7	0.52	2.3	4.9							
	22ER6UN	22EL6UN	6	0.61	2.3	4.9							
	22ER5UN	22EL5UN	5	0.75	2.5	4.9							
	22ER4.5UN	22EL4.5UN	4.5	0.83	2.6	4.9							
	22ER4UN	22EL4UN	4	0.93	2.9	4.9							
	27ER4.5UN	27EL4.5UN	4.5		2.6	6.4							
	27ER4UN	27EL4UN	4		2.9	6.4							
	27VER4UN	27VEL4UN	4		4.35	8.7							
	27VER3UN	27VEL3UN	3		5	10							

INTERNAL 60° AMERICAN UN
UNC UNF UNEF UNS

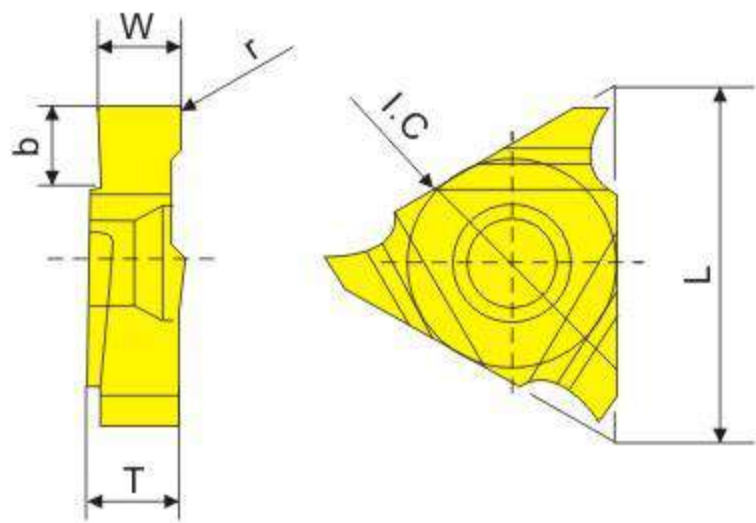
Model	L(mm)	IC(mm)	d(mm)
11..	11	6.35	3
16..	16	9.525	4
22..	22	12.7	5.1
27..	27	15.875	6.35



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P M K N						
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	11NR32UN	11NL32UN	32	0.05	0.8	3.18							
	11NR28UN	11NL28UN	28	0.07	0.8	3.18							
	11NR24UN	11NL24UN	24	0.08	0.8	3.18							
	11NR20UN	11NL20UN	20	0.09	0.8	3.18							
	11NR18UN	11NL18UN	18	0.1	0.8	3.18							
	11NR16UN	11NL16UN	16	0.11	1	3.18							
	11NR14UN	11NL14UN	14	0.13	1	3.18							
	11NR12UN	11NL12UN	12	0.15	1.1	3.18							
	16NR32UN	16NL32UN	32	0.05	0.8	3.65							
	16NR28UN	16NL28UN	28	0.07	0.8	3.65							
	16NR24UN	16NL24UN	24	0.08	0.8	3.65							
	16NR20UN	16NL20UN	20	0.09	0.8	3.65							
	16NR18UN	16NL18UN	18	0.1	0.8	3.65							
	16NR16UN	16NL16UN	16	0.11	1	3.65							
	16NR14UN	16NL14UN	14	0.13	1.2	3.65							
	16NR12UN	16NL12UN	12	0.15	1.2	3.65							
	16NR11UN	16NL11UN	11	0.16	1.4	3.65							
	16NR10UN	16NL10UN	10	0.18	1.4	3.65							
	16NR9UN	16NL9UN	9	0.2	1.4	3.65							
	16NR8UN	16NL8UN	8	0.23	1.4	3.65							
	22NR7UN	22NL7UN	7	0.26	2.3	4.9							
	22NR6UN	22NL6UN	6	0.32	2.3	4.9							
	22NR5UN	22NL5UN	5	0.38	2.5	4.9							
	22NR4.5UN	22NL4.5UN	4.5	0.41	2.5	4.9							
	22NR4UN	22NL4UN	4	0.46	2.5	4.9							
	27NR4.5UN	27NL4.5UN	4.5		2.5	6.4							
	27NR4UN	27NL4UN	4		2.5	6.4							
	27VNR4UN	27VNL4UN	4			8.7							
	27VNR3UN	27VNL3UN	3			10							

GROOVING MILLING INSERT -TT SERIES

Model	L(mm)	IC(mm)	T(mm)	d(mm)
TT32L	16	3/16"	3.18	4.5
TT43L	22	12.7	5	5.45

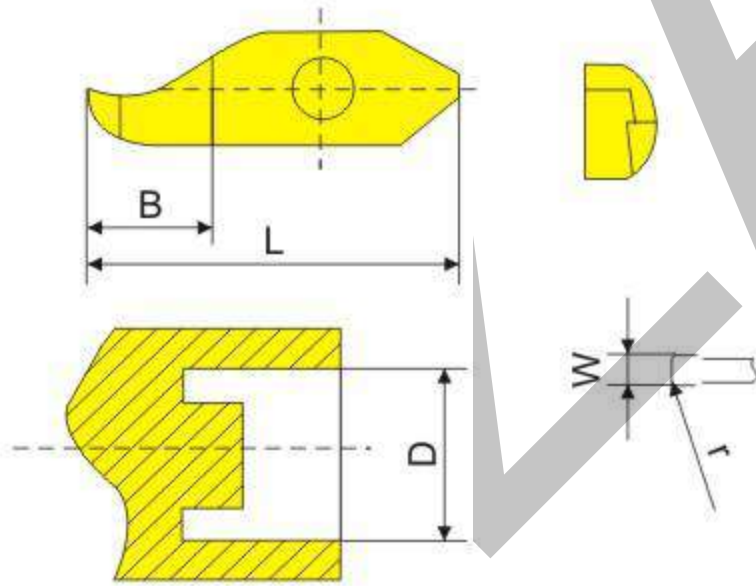


产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P			M	K	N	
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	-	TGF32L150	-	1.5	2.0	0.1	▲				▲		
	-	TGF32L200	-	2.0	2.8	0.15	▲				▲		
	-	TGF32L250	-	2.5	2.8	0.15	▲				▲		
	-	TGF32L300	-	3.0	2.8	0.15	▲				▲		
	-	TGF32L350	-	3.5	2.8	0.15	▲				▲		
	-	TT43L200	-	2.0	4.8	0.2	▲				▲		
	-	TT43L250	-	2.5	4.8	0.2	▲				▲		
	-	TT43L300	-	3.0	4.8	0.2	▲				▲		
	-	TT43L350	-	3.5	4.8	0.2	▲				▲		
	-	TT43L400	-	4.0	4.8	0.2	▲				▲		
	-	TT43L500	-	5.0	4.8	0.2	▲				▲		
	-	TT43L200-R1.0	-	2.0	4.8	1.0	▲				▲		
	-	TT43L250-R1.25	-	2.5	4.8	1.25	▲				▲		
	-	TT43L300-R1.5	-	3.0	4.8	1.5	▲				▲		
	-	TT43L350-R1.75	-	3.5	4.8	1.75	▲				▲		
	-	TT43L400-R2.0	-	4.0	4.8	2.0	▲				▲		
	-	TT43L500-R2.5	-	5.0	4.8	2.5	▲				▲		

内卡槽刀片 Internal Circlip Grooving Insert

INTERNAL CIRCLIP GROOVING INSERT

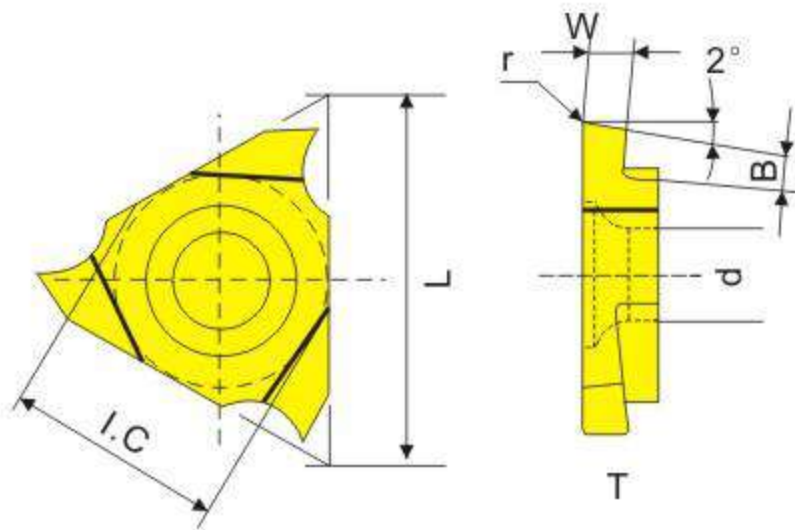
Model	L(mm)
SPDR....DM06	13.6
SPDR....DM10	25.1



产品 Shape	Right Hand	Left Hand	Pitch(mm)	尺寸 Dimension			Grade						
				R	Y	T	P			M	K	N	
							TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	SPDR100DM06	6	27	1.0	5.8	0.2	▲			▲		▲	
	SPDR150DM06	6	27	1.5	5.8	0.2	▲			▲		▲	
	SPDR200DM06	6	∞	2.0	5.8	0.2	▲			▲		▲	
	SPDR250DM06	6	∞	2.5	5.8	0.2	▲			▲		▲	
	SPDR150DM10	10	32	1.5	6.8	0.2	▲			▲		▲	
	SPDR200DM10	10	∞	2.0	7.8	0.2	▲			▲		▲	
	SPDR250DM10	10	∞	2.5	9.9	0.2	▲			▲		▲	
	SPDR300DM10	10	∞	3.0	9.9	0.2	▲			▲		▲	

GROOVING MILLING INSERT -TT SERIES

Model	L(mm)	IC(mm)
TGF32**	16	3/8"



产品 Shape	Right Hand	Left Hand	Pitch(mm)	D	尺寸 Dimension			Grade						
					R	Y	T	P M K N						
								TP9508	TP5355	TP1605	TP9108	TP825M	TP220	K10
	TGF32R030	TGF32L030	3.18	4.5	0.3	0.8	0.3							
	TGF32R033	TGF32L033	3.18	4.5	0.33	0.8	0.3							
	TGF32R045	TGF32L045	3.18	4.5	0.45	0.8	0.3							
	TGF32R050	TGF32L050	3.18	4.5	0.5	1	0.05							
	TGF32R060	TGF32L060	3.18	4.5	0.6	1	0.05							
	TGF32R065	TGF32L065	3.18	4.5	0.65	1.4	0.05							
	TGF32R070	TGF32L070	3.18	4.5	0.7	1.4	0.05							
	TGF32R075	TGF32L075	3.18	4.5	0.75	2	0.1							
	TGF32R080	TGF32L080	3.18	4.5	0.8	2	0.1							
	TGF32R085	TGF32L085	3.18	4.5	0.85	2	0.1							
	TGF32R090	TGF32L090	3.18	4.5	0.9	2	0.1							
	TGF32R095	TGF32L095	3.18	4.5	0.95	2	0.1							
	TGF32R100	TGF32L100	3.18	4.5	1	2.2	0.1							
	TGF32R110	TGF32L110	3.18	4.5	1.1	2.2	0.1							
	TGF32R115	TGF32L115	3.18	4.5	1.15	2.2	0.1							
	TGF32R120	TGF32L120	3.18	4.5	1.2	2.2	0.1							
	TGF32R125	TGF32L125	3.18	4.5	1.25	2.2	0.1							
	TGF32R130	TGF32L130	3.18	4.5	1.3	2.2	0.1							
	TGF32R135	TGF32L135	3.18	4.5	1.35	2.2	0.1							
	TGF32R140	TGF32L140	3.18	4.5	1.4	2.2	0.1							
	TGF32R145	TGF32L145	3.18	4.5	1.45	2.2	0.1							
	TGF32R150	TGF32L150	3.18	4.5	1.5	2.4	0.1							
	TGF32R155	TGF32L155	3.18	4.5	1.55	2.4	0.1							
	TGF32R160	TGF32L160	3.18	4.5	1.6	2.4	0.1							
	TGF32R165	TGF32L165	3.18	4.5	1.65	2.4	0.1							
	TGF32R170	TGF32L170	3.18	4.5	1.7	2.4	0.1							
	TGF32R175	TGF32L175	3.18	4.5	1.75	2.4	0.1							
	TGF32R180	TGF32L180	3.18	4.5	1.8	2.4	0.1							
	TGF32R185	TGF32L185	3.18	4.5	1.85	2.4	0.1							
	TGF32R190	TGF32L190	3.18	4.5	1.9	2.7	0.1							
	TGF32R200	TGF32L200	3.18	4.5	2	2.7	0.15							
	TGF32R210	TGF32L210	3.18	4.5	2.1	2.7	0.15							
	TGF32R215	TGF32L215	3.18	4.5	2.15	2.7	0.15							
	TGF32R220	TGF32L220	3.18	4.5	2.2	2.7	0.15							
	TGF32R225	TGF32L225	3.18	4.5	2.25	2.7	0.15							
	TGF32R230	TGF32L230	3.18	4.5	2.3	2.7	0.15							
	TGF32R240	TGF32L240	3.18	4.5	2.4	2.7	0.15							
	TGF32R250	TGF32L250	3.18	4.5	2.5	3.0	0.15							
	TGF32R260	TGF32L260	3.18	4.5	2.6	3.0	0.15							