

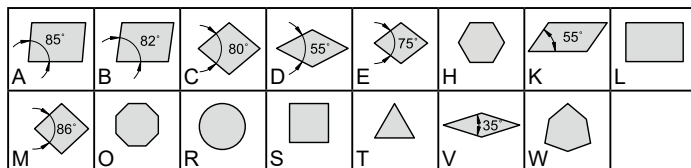
• Insert Grades & Chipbreakers	• 銑刀片材質及斷屑槽介紹	A002
• Milling Inserts	• 銑刀片總覽	A005
• Milling Cutter Index	• 銑刀桿索引	A018
• Selection Guide	• 選擇指南	A024
• Shoulder Milling CXAN, CXSN, CXXN, CAPK, CART, CASP, CATP, CAXD, CAXO, CBAP, CR39, CR49, CWEX, CWMM	• 方肩銑刀	A027
• High Feed Milling CXBN, CXLN, CXLO, CXWN, CALP, CAJX, CASR, CF23	• 高進給銑刀	A070
• Face Milling CXHN, CXSN, CAO, CASE, CASX, CR24	• 面銑刀	A094
• Copy Milling CARD, CARP, CF21, CF22, CGWV	• 仿形銑刀	A109
• Engraving / Chamfering DTS60, DTS90, CSPC	• 雕刻倒角銑刀	A127
• Helical Milling CAPH, CBAH, C39H	• 玉米粗銑刀	A136
• Disc Milling CSPT, CRDT, CRPT, CSPD	• 三面刃銑刀	A144
• Tooling System Carbide Adapter BT / HSK Adapter BT / HSK Face Milling Holder BT Pull Studs	• 刀具系統 鎢鋼抗震刀桿	A154
	BT / HSK 鎖牙式刀柄	A158
	BT / HSK 面銑刀柄	A160
	BT 刀柄拉桿螺絲	A162
• Technical Data Milling Inserts Grade Comparison Troubleshooting in Insert	• 技術資料 銑刀片材質比較表	A163
	刀片加工異常原因及對策	A167

Designations for Milling Insert

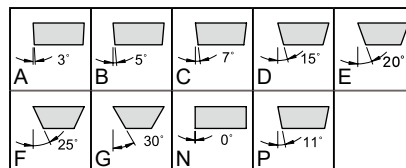
銑刀片型號編碼

A	P	M	T	16	04	08	PD	ER	MG
①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩

① Insert Shape



② Relief Angle



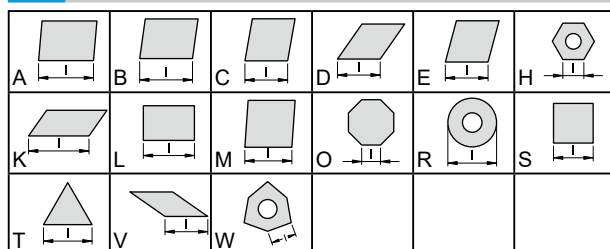
③ Tolerance Class

Tolerance	Range of tolerance	A	C	E	F	G	H	J	K	L	M	N	U
		d±	0.025	0.025	0.025	0.013	0.025	0.013	0.05~0.15	0.05~0.15	0.05~0.15	0.05~0.15	0.08~0.25
		m±	0.005	0.013	0.025	0.005	0.025	0.013	0.005	0.013	0.025	0.08~0.2	0.13~0.38
		s±	0.025	0.025	0.025	0.025	0.05~0.13	0.025	0.025	0.025	0.05~0.13	0.025	0.13

④ Insert Features

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

⑤ Edge Length



⑥ Thickness

Index	01	T1	02	03	T3	04	05	06	07	09
S(mm)	1.59	1.98	2.38	3.18	3.97	4.76	5.56	6.35	7.94	9.52

⑦ Corner Radius

Corner Radius					
02	04	08	16	20	...
0.2R	0.4R	0.8R	1.6R	2.0R	...

⑧ Edge Clearance

Edge Clearance		A	D	E	F	P	Z				
	45°	60°	75°	85°	90°	other					
	A	B	C	D	E	F	G	N	P	Z	
	3°	5°	7°	15°	20°	25°	30°	0°	11°	other	

⑨ Cutting Edge & Direction

E	F	T	S	R	N	L
Rounded	Sharp	Chamferd	Chamferd and rounded			

⑩ Chip Breaker Geometry

AL, FG, SG, MF, MG, RG, HG

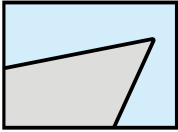
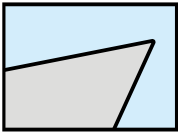
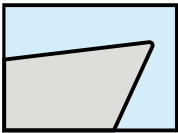
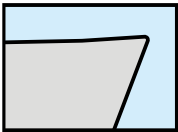
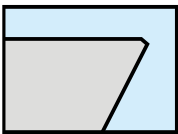
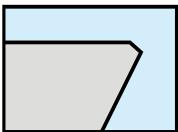
Milling Insert Grades

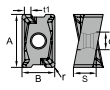
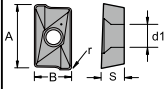
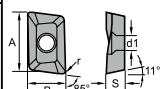
銑刀片材質介紹

Grade Type 刀片材質	Color 刀片顏色	Properties 屬性	Application 加工特性	Working Material 加工材質						Industry Area 產業應用範圍	Previous Grade 以前的材質
				P	M	K	N	S	H		
CX13TX		- PVD (AlTiSiN) - High wear resistance - 高耐磨性	- Fine finishing machining - 適用於超精加工	○	○	○			●	- Hardened parts - 硬質零件	CX12HX
CX23TX		- PVD (AlTiSiN) - Wear resistance - 耐磨性	- Continuous finishing machining - For hardened steel is 1st recommended - 適用於連續穩定精加工 - 加工高硬度鋼為第一建議	○	○	○			●	- Mold & Die - Hardened parts - 模具產業 - 硬質零件	CX23AX CX22HS
CX32HS		- PVD (AlTiSiN) - Wear resistance - Anti-corrosion	- Medium to roughing - General machining - For carbon steel & alloy steel is 1st recommended	●	○	●				- Mold & Die - Automotive - Machinery - Aerospace	—
CX33TX		- 耐磨性 - 抗腐蝕	- 適合中至粗加工 - 適合泛用加工 - 加工碳鋼 & 合金鋼為第一建議	●	○	●		○	●	- 模具產業 - 汽車零件 - 機械零件 - 航太零件	
CX33UX		- PVD (AlTiSiCrN) - Wear resistance - Anti-corrosion - Low friction - 耐磨性 - 抗腐蝕 - 低磨擦系數	- Semi-finishing to roughing - General machining - For exotic materials is 1st recommended - 適合半精至粗加工 - 適合泛用加工 - 加工高溫合金為第一建議	●	●	●		●	○	- Mold & Die - Automotive - Machinery - Aerospace - 模具產業 - 汽車零件 - 機械零件 - 航太零件	—
CX37TA		- CVD (TiCN-Al₂O₃-TiN) - Wear resistance - Impact resistance - 耐磨性 - 抗衝擊性	- Medium to rough dry machining - For cast iron is 1st recommended - 適合乾式中至粗加工 - 加工鑄鐵為第一建議	●		●			○	- Automotive - Machinery - 汽車零件 - 機械零件	—
CX43TX		- PVD (AlTiSiN) - High impact resistance - Anti-corrosion - 高抗衝擊性 - 抗腐蝕	- Medium to roughing - Interrupted machining - For exotic materials is 1st recommended - 適合中至粗加工 - 適合斷續加工 - 加工高溫合金為第一建議	●	●			●		- Electronics - Medical - Aerospace - 電子零件 - 醫療產業 - 航太零件	—
CX47TA		- CVD (TiCN-Al₂O₃-TiN) - High impact resistance - High toughness - 高抗衝擊性 - 高韌性	- Rough dry machining - Interrupted machining - For alloy steel & cast iron are recommended - 適合乾式粗加工 - 適合斷續加工 - 加工合金鋼 & 鑄鐵均可建議	●	○	●		○		- Machinery - Aerospace - Energy - 機械零件 - 航太零件 - 能源產業	—
CX10	—	- Uncoated - Wear resistance - 耐磨性	- Finishing and medium cutting - For non-ferrous materials is 1st recommended - 適合精加工和中加工 - 加工鋁合金為第一建議					●		- Bike parts - Automotive - Electronics - 自行車零件 - 汽車零件 - 電子零件	—

Milling Insert Chip Breakers

銑刀片斷屑槽介紹

Chip Breaker 斷屑槽		Application 應用
	AL	Large positive rake angle with sharp cutting edge for Non-ferrous materials. 鋒利的大正前角刀口設計，適用於非鐵金屬加工應用
for Aluminum 適用於鋁		
	FG	Large positive rake angle with sharp cutting edge for finishing cutting in steel. 鋒利的大正前角刀口設計，適用於一般鋼料精加工
Finishing 精加工		
	SG (SM)	Sharp geometry design for semi-finishing cutting in steel, stainless steel and difficult-to-cut material. 鋒利的刀口設計，適用於鋼件、不鏽鋼，及難切削材的半精加工應用
Semi-Finishing 半精加工		
	MG (MM)	Low cutting force for medium cutting in steel, stainless steel and cast iron. 低切削阻力的刀口設計，適用於鋼件、不鏽鋼和鑄鐵的中加工應用
Medium 中加工		
	RG	Strong geometry design for rough cutting in steel, alloy steel and hardened steel. 強壯的刀口設計，適用於鋼件、合金鋼、預硬鋼的粗加工應用
Roughing 粗加工		
	HG	Strong, negative and big chamfering cutting edge for roughing, forging and cast skin. 粗加工的強力刀口設計，適用於鑄件及鍛件
Heavy-Roughing 重粗加工		

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		-	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	ANMX15T608-MG	●		✓	✓	✓	✓	✓	✓		16.1	10	6.88	0.8	4.65	1.9		A031
	ANMX15T616-MG	●				✓		✓			16.1	10	6.88	0.8	4.65	1.9		
	APKT100304PDER-MG			✓	✓	✓	✓	✓			10.5	6.7	3.5	0.4	2.8	-		A036 A137
	APKT100308PDER-MG			✓	✓	✓	✓	✓			10.5	6.7	3.5	0.8	2.8	-		
	APKT100304PDER-RG				✓	✓					10.5	6.7	3.5	0.4	2.8	-		
	APET160402PDFR-AL								✓	16.3	9.525	4.76	0.2	4.5	-			
	APET160404PDFR-AL								✓	16.3	9.525	4.76	0.4	4.5	-			
	APET160402PDFR-FG			✓						16.3	9.525	4.76	0.2	4.5	-			
	APET160404PDFR-FG			✓						16.3	9.525	4.76	0.4	4.5	-			
	APKT160408PDER-MG			✓	✓	✓	✓	✓			16.3	9.525	5.25	0.8	4.5	-		
	APKT160408PDER-RG			✓	✓	✓		✓			16.3	9.525	5.25	0.8	4.5	-		
	APKT170516PEER-RG				✓	✓		✓			18.5	10.7	5.56	1.6	4.5	-		
	APMT103508PDER-RG				✓	✓		✓			10	6.6	3.5	0.8	3	-		A065
	APET160508PDFR-AL								✓	16	9.525	5.56	0.8	4.4	-			
	APMT160508PDER-RG				✓	✓				16	9.525	5.56	0.8	4.4	-			

NEW

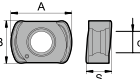
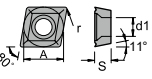
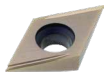
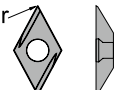
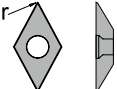
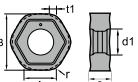
Milling Insert Index - A Style

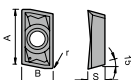
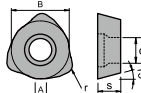
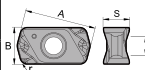
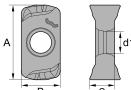
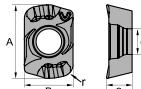
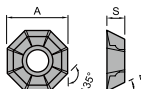
銑刀片索引

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page
			PVD				CVD		—	A	B	S	r	d1	t1		
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA								
	APGT113508PDER-AL								✓	11.0	6.35	3.5	0.8	2.8	-	          	A053 A139
	APGT113508PDER-FG		✓							11.0	6.35	3.5	0.8	2.8	-		
	APMT113508PDER-MG		✓	✓	✓	✓	✓			11.0	6.35	3.5	0.8	2.8	-		
	APMT113516PDER-MG		✓	✓	✓	✓	✓			11.0	6.35	3.5	1.6	2.8	-		
	APMT113508PDER-RG		✓	✓	✓					11.0	6.35	3.5	0.8	2.8	-		
	APMT113508PDER-HG			✓	✓		✓			11.0	6.35	3.5	0.8	2.8	-		
	APGT160408PDER-AL								✓	16.5	9.525	4.76	0.8	4.4	-		
	APGT160408PDER-FG		✓							16.5	9.525	4.76	0.8	4.4	-		
	APMT160408PDER-MG		✓	✓	✓	✓	✓		✓	16.5	9.525	4.76	0.8	4.4	-		
	APMT160416PDER-MG			✓	✓	✓	✓			16.5	9.525	4.76	1.6	4.4	-		
	APMT160408PDER-RG		✓	✓	✓		✓			16.5	9.525	4.76	0.8	4.4	-		
	APMT160408PDER-HG		✓	✓	✓		✓			16.5	9.525	4.76	0.8	4.4	-		
	AXMT123508PEER-RG		✓	✓	✓		✓	✓		12.18	6.93	3.58	0.8	3.4	-	  	A063
	AXMT170508PEER-RG			✓	✓		✓			17.50	10.2	5.56	0.8	4.6	-		
	AXMT170516PEER-RG			✓	✓		✓			17.50	10.2	5.56	1.6	4.6	-		

Milling Insert Index - B ~ H Style

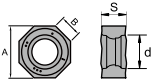
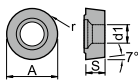
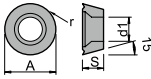
銑刀片索引

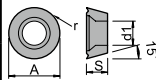
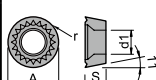
Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		—	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	BNMX0603-SG	●	✓	✓	✓	✓					9.0	6.38	3.75	-	3.2	-		A072
	BNMX0603-MG	●	✓	✓	✓	✓	✓	✓			9.0	6.38	3.75	-	3.2	-		
	BNMX0603-RG	●	✓	✓	✓		✓	✓	✓		9.0	6.38	3.75	-	3.2	-		
	BNMX0904-MG	●	✓	✓	✓	✓	✓	✓	✓		11.9	9.18	4.8	-	4.2	-		
	CPMT090308-MG			✓							9.525	-	3.18	0.8	4.4	-		—
	CPMT120408-MG			✓							12.7	-	4.76	0.8	5.5	-		
	DCEX11T301-SG			✓							-	-	-	0.1	-	-		A128
	DCEX11T302-SG			✓							-	-	-	0.2	-	-		
	DCEX11T304-SG			✓							-	-	-	0.4	-	-		
	DCEX11T301			✓							-	-	-	0.1	-	-		
	DCEX11T302			✓							-	-	-	0.2	-	-		
	DCEX11T304			✓							-	-	-	0.4	-	-		
	DCEX11T308			✓							-	-	-	0.8	-	-		
	HNMX0704-SG	●		✓	✓	✓	✓		✓		6.8	12.7	4.45	1.2	4.9	1.4		A096

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		-	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	JDMT150508R-MG			✓	✓		✓				15.1	9.12	5.0	0.8	4.5	-		-
	JDMW120420ZDSR-MG			✓	✓		✓				2.5	12.0	4.76	2.0	4.75	-		A088
	JDMW120420ZDSR-RG			✓	✓		✓	✓			2.5	12.0	4.76	2.0	4.75	-		
	JDMW140520ZDSR-MG			✓	✓						2.8	14.0	5.56	2.0	5.75	-		
	JDMW140520ZDSR-RG			✓	✓						2.8	14.0	5.56	2.0	5.75	-		
	JDMT140520ZDSR-MG			✓	✓		✓				2.8	14.0	5.56	2.0	5.75	-		
	LNMX0303-SG	●	✓	✓	✓		✓				11.59	6.0	4.29	-	2.85	-		A076
	LNMX0303-MG	●	✓	✓	✓		✓				11.59	6.0	4.29	-	2.85	-		
	LOGX030310-SG	●		✓	✓	✓	✓				11.9	6.2	3.96	-	3.45	-		A079
	LOGX030310-MG	●		✓	✓	✓	✓				11.9	6.2	3.96	-	3.45	-		
	LPGX0102-SG				✓	✓	✓				6.26	4.19	2.19	1.0	2.2	-		A085
	LPGX0102-MG				✓	✓	✓				6.26	4.19	2.19	1.0	2.2	-		
	OFMT05T3TN-SG			✓	✓	✓					12.7	-	3.8	0.6	4.6	-		A101
	OFMT05T3TN-MG			✓	✓	✓					12.7	-	3.8	0.6	4.6	-		
	OFMT05T3TN-RG			✓	✓		✓				12.7	-	3.8	0.6	4.6	-		

Milling Insert Index - O ~ R Style

銑刀片索引

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		-	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	ONMX0505-MG	●		✓	✓	✓	✓				12.7	5.0	6.4	-	6	-		A098
	ONMX0505-RG	●	✓	✓	✓			✓	✓		12.7	5.0	6.4	-	6	-		
	RCMT1204MOE-FG		✓	✓		✓					12	-	4.76	6	4.2	-		-
	RCMT1204MOT-FG		✓	✓							12	-	4.76	6	4.2	-		
	RCMT1204MO-RG								✓		12	-	4.76	6	4.2	-		
	RDKW0501MOE		✓	✓	✓						5	-	1.59	2.5	2.2	-		A110
	RDKW0620MOE			✓	✓						6	-	1.99	3	2.6	-		
	RDKW0702MOE		✓	✓	✓	✓	✓				7	-	2.38	3.5	2.8	-		
	RDMT1003MOE		✓	✓	✓	✓	✓				10	-	3.18	5	3.9	-		
	RDMT1003MOT		✓	✓	✓		✓				10	-	3.18	5	3.9	-		
	RDMX1003MOE		✓	✓	✓	✓	✓				10	-	3.18	5	4.15	-		
	RDMX1003MOT		✓	✓	✓		✓				10	-	3.18	5	4.15	-		
	RDMT10T3MOE		✓	✓	✓		✓				10	-	3.97	5	4.5	-		
	RDMT10T3MOT		✓	✓	✓		✓				10	-	3.97	5	4.5	-		
	RDMW10T3MOE			✓	✓						10	-	3.97	5	4.5	-		
	RDMW10T3MOT			✓	✓						10	-	3.97	5	4.5	-		
	RDMT12T3MOE		✓	✓	✓	✓		✓			12	-	3.97	6	4.1	-		
	RDMT12T3MOT		✓	✓	✓						12	-	3.97	6	4.1	-		

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		-	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	RDMX12T3MOE		✓	✓	✓		✓				12	-	3.97	6	4.1	-		A110
	RDMX12T3MOT		✓	✓	✓		✓				12	-	3.97	6	4.1	-		
	RDHT1204MOE					✓	✓				12	-	4.76	6	4.4	-		
	RDHT1204MOT					✓					12	-	4.76	6	4.4	-		
	RDMT1204MOE		✓	✓	✓		✓				12	-	4.76	6	4.4	-		
	RDMT1204MOT		✓	✓	✓		✓				12	-	4.76	6	4.4	-		
	RDMW1204MOE				✓	✓		✓			12	-	4.76	6	4.4	-		
	RDMW1204MOT		✓	✓	✓		✓	✓			12	-	4.76	6	4.4	-		
	RDMT1604MOT		✓	✓	✓		✓				16	-	4.76	8	5.5	-		
	RDMW1604MOT		✓	✓	✓		✓	✓			16	-	4.76	8	5.5	-		
	RPMT08T2MOE			✓	✓	✓	✓				8	-	2.78	4	3.2	-		A116
	RPMT08T2MOT			✓	✓		✓				8	-	2.78	4	3.2	-		
	RPMW1003MOE			✓	✓		✓				10	-	3.18	5	4.6	-		
	RPMW1003MOT		✓	✓	✓		✓				10	-	3.18	5	4.6	-		
	RPHT10T3MOE						✓				10	-	3.97	5	4.5	-		

Milling Insert Index - R ~ S Style

銑刀片索引

Inserts	Designation	Double Sided	Grade No.								Dimensions (mm)						Drawing	Cutter Page		
			PVD				CVD		-											
			CX13TX	CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA	CX10	A	B	S	r	d1			t1	
	RPMT10T3MOE				✓	✓	✓	✓					10	-	3.97	5	4.5	-		A116
	RPMT10T3MOT				✓	✓		✓					10	-	3.97	5	4.5	-		
	RPHT1204MOE					✓	✓						12	-	4.76	6	4.3	-		
	RPHT1204MOT					✓							12	-	4.76	6	4.3	-		
	RPMT1204MOE			✓	✓	✓	✓	✓					12	-	4.76	6	4.3	-		
	RPMT1204MOT			✓	✓	✓		✓					12	-	4.76	6	4.3	-		
	RPMW1204MOE				✓	✓		✓					12	-	4.76	6	4.3	-		
	RPMW1204MOT				✓	✓		✓					12	-	4.76	6	4.3	-		
	SCGX09T304-AG									✓	-	-	-	0.4	-	-	-		A130	
	SCGX09T304-FG		✓								-	-	-	0.4	-	-	-			
	SCMX09T304-SM				✓						-	-	-	0.4	-	-	-			
	SDMX05T104-FG		✓			✓					-	-	-	0.4	-	-	-			
	SDMX11T308-SG					✓					-	-	-	0.8	-	-	-			

Milling Insert Index - S Style

銑刀片索引

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		—	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	SDMT1205ZDEN-SG		✓	✓	✓	✓	✓				12.7	-	5.56	15	4.6	-		A090
	SDMT1205ZDTN-MG		✓	✓	✓	✓	✓				12.7	-	5.56	15	4.6	-		
	SDMT1205ZDTN-RG		✓	✓	✓		✓				12.7	-	5.56	15	4.6	-		
	SDNW1205ZDTN-MG			✓	✓						12.7	-	5.56	15	4.6	-		
	SDNW1205ZDTN-RG		✓	✓	✓		✓	✓			12.7	-	5.56	15	4.6	-		
	SEET1204AFFN-AL									✓	12.7	-	4.76	0.8	5.5	-		A103
	SEET1204AFFN-FG		✓								12.7	-	4.76	0.8	5.5	-		
	SEKT1204AFEN-MG			✓	✓	✓					12.7	-	4.76	0.8	5.5	-		
	SEKT1204AFTN-RG			✓	✓		✓				12.7	-	4.76	0.8	5.5	-		
	SEKW1204AFEN			✓	✓		✓				12.7	-	4.76	0.8	5.5	-		
	SEKW1204AFTN			✓	✓			✓			12.7	-	4.76	0.8	5.5	-		
	SEMR1203AFSN-RG			✓	✓						12.7	1.6	3.18	1	2	-		—
	SEET13T3AGFN-AL									✓	13.4	1.9	3.97	1.5	4.2	-		A105
	SEET13T3AGFN-FG		✓								13.4	1.9	3.97	1.5	4.2	-		
	SEMT13T3AGEN-SG		✓	✓	✓	✓	✓				13.4	1.9	3.97	1.5	4.2	-		
	SEMT13T3AGTN-MG		✓	✓	✓	✓	✓				13.4	1.9	3.97	1.5	4.2	-		
	SEMT13T3AGTN-RG			✓	✓		✓				13.4	1.9	3.97	1.5	4.2	-		

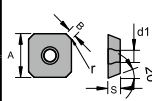
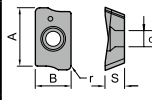
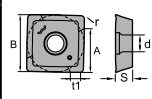
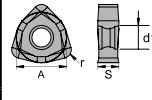
Milling Insert Index - S ~ T Style

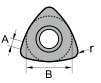
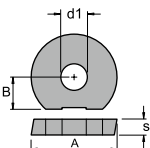
銑刀片索引

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		—	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	SNMX1205-MG	●	✓	✓	✓	✓	✓	✓		12.7	1.5	6.4	-	6	-		A098	
	SNMX1205-RG	●	✓	✓	✓		✓	✓		12.7	1.5	6.4	-	6	-			
	SPGG050204-SG				✓					5.00	-	2.38	0.4	2.30	-		A041 A134 A145 A149	
	SPGG060204-SG				✓					6.00	-	2.38	0.4	2.65	-			
	SPGG07T308-SG				✓					7.94	-	3.97	0.8	2.85	-			
	SPGG090408-SG				✓					9.80	-	4.3	0.8	4.05	-			
	SPGG110408-SG				✓					11.50	-	4.8	0.8	4.45	-			
	SPMG050204-MG			✓	✓	✓	✓			5.00	-	2.38	0.4	2.30	-			
	SPMG060204-MG			✓	✓	✓	✓			6.00	-	2.38	0.4	2.65	-			
	SPMG07T308-MG			✓	✓	✓	✓			7.94	-	3.97	0.8	2.85	-			
	SPMG090408-MG			✓	✓	✓	✓			9.80	-	4.3	0.8	4.05	-			
	SPMG110408-MG			✓	✓	✓	✓			11.50	-	4.8	0.8	4.45	-			
	SPMN120308			✓						12.7	-	3.18	0.8	2	-		—	
	TCMX16T308-SM			✓						-	-	-	0.8	-	-		A131	
	TPKR1603PPR-MG			✓	✓					16.5	9.525	3.1	-	2.2	1.423		—	
	TPKR1603PPR-RG			✓	✓		✓			16.5	9.525	3.1	-	2.2	1.423			
	TPMX100404-SG			✓	✓	✓				6.9	-	4	0.4	3	-		A045	
	TPMX100408-SG			✓	✓	✓				6.9	-	4	0.8	3	-			
	TPMX100408-MG		✓	✓	✓	✓	✓			6.9	-	4	0.8	3	-			
	TPMX150508-MG		✓	✓	✓	✓	✓			10.7	-	5	0.8	4.85	-			

Milling Insert Index - T ~ W Style

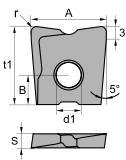
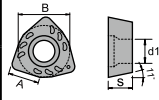
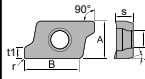
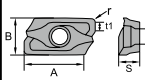
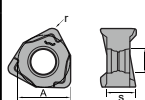
銑刀片索引

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		—	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	W245-12T3-AL								✓	13.4	1.9	3.97	1.5	4.2	-		A107	
	W245-12T3-FG		✓							13.4	1.9	3.97	1.5	4.2	-			
	W245-12T3-MG		✓	✓	✓	✓	✓	✓	✓	13.4	1.9	3.97	1.5	4.2	-			
	W245-12T3-HG			✓	✓		✓	✓	✓	13.4	1.9	3.97	1.5	4.2	-			
	W39011T308-SG		✓	✓	✓	✓	✓			11	6.9	3.59	0.8	2.8	-		A057 A142	
	W39011T308-MG		✓	✓	✓	✓	✓	✓	✓	11	6.9	3.59	0.8	2.8	-			
	W39011T320-MG		✓	✓	✓	✓	✓	✓	✓	11	6.9	3.59	2.0	2.8	-			
	W390170408-MG			✓	✓	✓	✓	✓	✓	15.7	9.6	4.76	0.8	4.1	-			
	W390180612-SG			✓	✓	✓	✓	✓	✓	15.4	11	6.33	1.2	4.2	-			
	W49008T308-SG			✓	✓	✓	✓	✓		5.6	8.5	3.3	0.8	2.8	1.2		A061	
	W490140408-SG				✓	✓	✓	✓		10.3	13.8	3.9	0.8	4.1	2.0			
	W490140408-MG			✓	✓	✓	✓	✓	✓	10.3	13.8	3.9	0.8	4.1	2.0			
	WNMX09T316-MG	●		✓	✓	✓	✓	✓	✓	9.525	-	3.97	1.6	3.6	-		A082	
	WNMX09T316-RG	●		✓	✓	✓	✓	✓	✓	9.525	-	3.97	1.6	3.6	-			
	WNMX130516-MG	●		✓	✓	✓	✓	✓	✓	12.7	-	6.02	1.6	4.7	-			

Inserts	Designation	Double Sided	Grade No.								Dimensions (mm)						Drawing	Cutter Page		
			PVD					CVD	—	A	B	S	r	d1	t1					
			CX13TX	CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA							CX47TA			CX10	
	WP26339R14-RG			✓	✓	✓		✓					-	9.52	3.97	1.2	4.4	-		A092
	WP26379R25-RG			✓	✓	✓		✓					1.1	13	5.56	2.0	5.5	-		A123
	WP3210-SM		✓	✓									10	5	2.5	-	4	-		A120
	WP3212-SM		✓	✓									12	6	2.5	-	5	-		
	WP3216-SM		✓	✓									16	6	3	-	5	-		
	WP3220-SM		✓	✓									20	6	3	-	5	-		
	WP3225-SM		✓	✓									25	9	4	-	6	-		
	WP3230-SM		✓	✓									30	10	5	-	8	-		
	WP3232-SM		✓	✓									32	10	5	-	8	-		
	WP3210-MM		✓	✓									10	5	2.5	-	4	-		
	WP3212-MM		✓	✓									12	6	2.5	-	5	-		
	WP3216-MM		✓	✓									16	6	3	-	5	-		
	WP3220-MM		✓	✓									20	6	3	-	5	-		
	WP3225-MM		✓	✓									25	9	4	-	6	-		
	WP3230-MM		✓	✓									30	10	5	-	8	-		
	WP3232-MM		✓	✓									32	10	5	-	8	-		

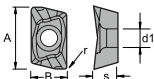
Milling Insert Index - W ~ X Style

銑刀片索引

Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD		-	A	B	S	r	d1	t1			
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA	CX47TA									CX10
	WPBC1605-MM				✓		✓				16	6	3	0.5	5	16		A125
	WPBC1610-MM				✓		✓				16	6	3	1.0	5	16		
	WPBC1613-MM				✓		✓				16	6	3	1.3	5	16		
	WPBC1620-MM				✓		✓				16	6	3	2.0	5	16		
	WPBC1630-MM				✓		✓				16	6	3	3.0	5	16		
	WPMW080615ZPSR-MG			✓	✓						8	12.87	6.35	1.5	5.5	-		-
	WPMW080615ZPSR-RG			✓	✓			✓			8	12.87	6.35	1.5	5.5	-		
	WRT070204-RG		✓	✓	✓		✓				4.30	6.4	2.38	0.4	2.2	1.3		A039
	WRT100308-MG		✓	✓	✓	✓	✓				6.35	9.3	3.4	0.8	2.9	1.8		
	WRT100308-RG		✓	✓	✓		✓				6.35	9.3	3.4	0.8	2.9	1.8		
	XDMT11T308-MG				✓	✓	✓				10.6	6.8	3.8	0.8	2.8	1.4		-
	XNMX040304-SG	●	✓	✓	✓	✓					6.7	-	3.285	0.4	3.15	-		A033
	XNMX040304-MG	●	✓	✓	✓	✓					6.7	-	3.285	0.4	3.15	-		
	XNMX040308-MG	●	✓	✓	✓	✓	✓				6.7	-	3.285	0.8	3.15	-		
	XNMX080608-MG	●	✓	✓	✓	✓	✓	✓	✓		12.53	-	6.5	0.8	4.5	-		
	XNMX080608-RG	●		✓	✓		✓	✓	✓		12.53	-	6.5	0.8	4.5	-		

Milling Insert Index - X Style

銑刀片索引

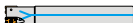
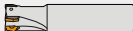
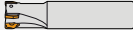
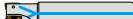
Inserts	Designation	Double Sided	Grade No.							Dimensions (mm)						Drawing	Cutter Page	
			PVD				CVD	-	A	B	S	r	d1	t1				
			CX23TX	CX32HS	CX33TX	CX33UX	CX43TX	CX37TA							CX47TA			CX10
	XOMT060208-SG			✓	✓	✓					7	4.09	2.45	0.8	2	-		A050
	XOMT060204-MG			✓	✓	✓	✓				7	4.09	2.45	0.4	2	-		
	XOMT060208-MG			✓	✓	✓	✓	✓			7	4.09	2.45	0.8	2	-		
	XOMT060216-MG			✓	✓	✓	✓	✓			7	4.09	2.45	1.6	2	-		
	XOMT10T308-SG				✓	✓	✓				11.08	6.86	3.8	0.8	3	-		
	XOMT120408-MG				✓	✓		✓	✓	✓	11.6	8.2	5.07	0.8	3.9	-		
	XOMT120412-SG					✓	✓	✓			11.6	8.2	5.07	1.2	3.9	-		

NEW

Indexable Milling

Milling Cutter Index - Shoulder Milling

方肩銑刀桿索引

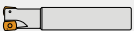
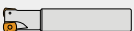
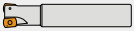
Cutter Series		Cutter Range	Inserts	Page
	CXANE	Ø25	ANMX15T6	A031
	CXANF	Ø40 ~ Ø100		
	CXSNE	Ø50 ~ Ø80	SNMX1205	A099
	CXXNE	Ø20 ~ Ø32	XNMX0403	A033
	CXXNM	Ø17 ~ Ø32	XNMX0403	
	CXXNF	Ø50 ~ Ø125	XNMX0403 / XNMX0806	
	CAPKE	Ø16 ~ Ø32	APKT1003 / APET1604 / APKT1604	A036
	CAPKM	Ø16 ~ Ø32		
	CAPKF	Ø50 ~ Ø125		
	CARTE	Ø10 ~ Ø26	WRT0702 / WRT1003	A039
	CARTM	Ø10 ~ Ø21		
	CASPE	Ø12 ~ Ø40	SPMG..	A041
	CASPF	Ø50 ~ Ø80		
	CATPE	Ø20 ~ Ø40	TPMX1004 / TPMX1505	A045
	CATPM	Ø20 ~ Ø33	TPMX1004	
	CATPF	Ø50 ~ Ø80		
	CAXDE	Ø16 ~ Ø32	XDMT11T3	A048

Cutter Series		Cutter Range	Inserts	Page
	CAXOE	Ø6 ~ Ø32	XOMT0602 / XOMT10T3	A050
	CAXOM	Ø10 ~ Ø20	XOMT0602	
	CBAPE	Ø16 ~ Ø32	APGT1135 / APMT1135 APGT1604 / APMT1604	A053
	CBAPM	Ø16 ~ Ø33		
	CBAPF	Ø50 ~ Ø80		
	CR39E	Ø16 ~ Ø32	W39011T3	A057
	CR39M	Ø16 ~ Ø32		
	CR39F	Ø40 ~ Ø125		
	CR49E	Ø20 ~ Ø25	W49008T3	A061
	CR49F	Ø40 ~ Ø80	W49008T3 / W4901404	
	CWEXE	Ø16 ~ Ø32	AXMT1235 / AXMT1705	A063
	CWEXF	Ø50 ~ Ø100		
	CWMMD	Ø20 ~ Ø40	APMT1035 / APMT1605	A065
	CWMME	Ø10 ~ Ø50	APMT1035 / APMT1605	
	CWMMF	Ø50 ~ Ø80	APMT1035 / APMT1605	

NEW

Milling Cutter Index - High Feed Milling

高進給銑刀桿索引

Cutter Series		Cutter Range	Inserts	Page
	CXBNE	Ø15 ~ Ø32	BNMX0603 / BNMX0904	A072
	CXBNM	Ø16 ~ Ø42		
	CXBNF	Ø40 ~ Ø100		
	CXLNE	Ø16 ~ Ø32	LNMX0303	A076
	CXLNM	Ø17 ~ Ø32		
	CXLNF	Ø50		
	CXLOE	Ø16 ~ Ø35	LOGX0303	A079
	CXLOM	Ø17 ~ Ø35		
	CXLOF	Ø50		
	CXWNE	Ø25 ~ Ø32	WNMX09T3	A082
	CXWNF	Ø50 ~ Ø160	WNMX09T3 / WNMX1305	
	CALPE	Ø8 ~ Ø16	LPGX0102	A085
	CAJXE	Ø32	JDMW1204	A088
	CAJXF	Ø50 ~ Ø100	JDMW1204 / JDMW1405	
	CASRF	Ø50 ~ Ø80	SDNW1205 / SDMT1205	A090
	CF23E	Ø32 ~ Ø50	WP26339 / WP26379	A092
	CF23F	Ø50 ~ Ø160	WP26379	

Milling Cutter Index - Face Milling面銑刀桿索引

Cutter Series		Cutter Range	Inserts	Page
	CXHNF	Ø50 ~ Ø100	HNMX0704	A096
	CXSNF	Ø50 ~ Ø202.9	SNMX1205 / ONMX0505	A098
	CAOFF	Ø50 ~ Ø100	OFMT05T3	A101
	CASEF	Ø50 ~ Ø100	SEKT1204 / SEKW1204	A103
	CASXF	Ø50 ~ Ø315	SEET13T3 / SEMT13T3	A105
	CR24F	Ø50 ~ Ø315	W245-12T3	A107

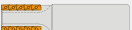
Indexable Milling

Cutter Series		Cutter Range	Inserts	Page
	CARDE	Ø10 ~ Ø35	RDKW0501 / RDKW0702 RDMT1003 / RDMX1003 RDMT10T3 / RDMW10T3 RDMT1204 / RDMW1204	A110
	CARDM	Ø12 ~ Ø35	RDKW0501 / RDKW0702 RDMT1003 / RDMX1003 RDMT10T3 / RDMW10T3	
	CARDF	Ø50 ~ Ø100	RDMT1003 / RDMX1003 RDMT10T3 / RDMW10T3 RDMT1204 / RDMW1204 RDMT1604 / RDMW1604	
	CARPE	Ø16 ~ Ø35	RPMT08T2 RPMW1003 RPHT10T3 / RPMT10T3 RPHT1204 / RPMT1204 / RPMW1204	A116
	CARPF	Ø50 ~ Ø80	RPHT10T3 / RPMT10T3 RPHT1204 / RPMT1204 / RPMW1204	
	CF21E	Ø10 ~ Ø32	WP32..	A120
	CF21M	Ø10 ~ Ø32		
	CF22M	Ø25 ~ Ø50	WP26339 / WP26379	A123
	CGWV	Ø16	WPBC16..	A125

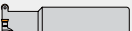
Engraving / Chamfering 雕刻倒角銑刀

Cutter Series		Cutter Range	Inserts	Page
	DTS60	Ø0.2 ~ Ø3	DCEX11T3	A128
	DTS90	Ø0.8 ~ Ø20	SCGX09T3 / SCMX09T3 SDMX0501 / SDMX11T3 TCGX16T3 / TCMX16T3	A130
	DTS90	Ø0.8 ~ Ø11		
	CSPC	Ø11 ~ Ø50	SPMG...	A134

Helical Milling 玉米粗銑刀

Cutter Series		Cutter Range	Inserts	Page
	CAPHE	Ø20 ~ Ø32	APKT1003	A137
	CAPHM	Ø50 ~ Ø63	APET1604 / APKT1604	
	CBAHE	Ø20 ~ Ø50	APGT1135 / APMT1135 APGT1604 / APMT1604	A139
	CBAHM	Ø50 ~ Ø63	APGT1604 / APMT1604	
	C39HE	Ø25 ~ Ø32	W39011T3	A142

Disc Milling 三面刃銑刀

Cutter Series		Cutter Range	Inserts	Page
	CSPTE	Ø19 ~ Ø40	SPMG...	A145
	CRDTE	Ø26 ~ Ø50	RDKW0501 / RDKW0620 / RDKW0702 / RPMT10T3	A147
	CSPDE	Ø80 ~ Ø200	SPMG...	A149
	CSPDF	Ø80 ~ Ø125		

P Steel 鋼

Application 應用	1st Recommendation 第一推薦 (Series · Insert · Grade)	2nd Recommendation 第二推薦 (Series · Insert · Grade)
Shoulder Milling 方肩銑削	CAPK · APKT-MG · CX33TX 	CXXN · XNMX-MG · CX33TX 
High Feed Milling 高進給銑削	CXBN · BNMX-MG · CX33TX 	CXWN · WNMX-MG · CX33TX 
Face Milling 面銑削	CXSN · SNMX-MG · CX33TX 	CASX · SEMT-MG · CX33TX 
Copy Milling 仿形銑削	CF21 · WP32-MM · CX23TX 	CF21 · WP32-MM · CX22HX 

M Stainless Steel 不鏽鋼

Application 應用	1st Recommendation 第一推薦 (Series · Insert · Grade)	2nd Recommendation 第二推薦 (Series · Insert · Grade)
Shoulder Milling 方肩銑削	CR49 · W490-SG · CX43TX 	CAPK · APKT-SG · CX43TX 
High Feed Milling 高進給銑削	CXBN · BNMX-SG · CX33UX 	CXLO · LOGX-SG · CX33UX 
Face Milling 面銑削	CXHN · HNMX-SG · CX43TX 	CASX · SEMT-MG · CX43TX 
Copy Milling 仿形銑削	CF21 · WP32-SM · CX23TX 	CF21 · WP32-MM · CX22HX 

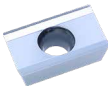
Selection Guide

選擇指南

K Cast Iron 鑄鐵

Application 應用	1st Recommendation 第一推薦 (Series · Insert · Grade)	2nd Recommendation 第二推薦 (Series · Insert · Grade)
Shoulder Milling 方肩銑削	CAPK · APKT-RG · CX37TA 	CXXN · XNMX-RG · CX37TA 
High Feed Milling 高進給銑削	CXBN · BNMX-RG · CX37TA 	CXWN · WNMX-RG · CX37TA 
Face Milling 面銑削	CXSN · SNMX-RG · CX37TA 	CASX · SEMT-RG · CX37TA 
Copy Milling 仿形銑削	CF21 · WP32-MM · CX23TX 	CF21 · WP32-MM · CX22HX 

N Aluminum alloy & Brass 鋁合金與銅

Application 應用	1st Recommendation 第一推薦 (Series · Insert · Grade)	2nd Recommendation 第二推薦 (Series · Insert · Grade)
Shoulder Milling 方肩銑削	CBAP · APGT-AL · CX10 	CAPK · APET-AL · CX10 
High Feed Milling 高進給銑削	—	—
Face Milling 面銑削	CASX · SEET-AL · CX10 	CASE · SEET-AL · CX10 
Copy Milling 仿形銑削	—	—

S High Temperature Alloy 高溫合金

Application 應用	1st Recommendation 第一推薦 (Series · Insert · Grade)	2nd Recommendation 第二推薦 (Series · Insert · Grade)
Shoulder Milling 方肩銑削	CAXO · XOMT-SG · CX43TX 	CR39 · W390-SG · CX43TX 
High Feed Milling 高進給銑削	CXBN · BNMX-SG · CX33UX 	CXLO · LOGX-SG · CX33UX 
Face Milling 面銑削	CXHN · HNMX-SG · CX43TX 	CAOF · OFMT-SG · CX43TX 
Copy Milling 仿形銑削	CF21 · WP32-SM · CX23TX 	CF21 · WP32-MM · CX23TX 

H Hardened Steel 高硬度鋼

Application 應用	1st Recommendation 第一推薦 (Series · Insert · Grade)	2nd Recommendation 第二推薦 (Series · Insert · Grade)
Shoulder Milling 方肩銑削	CAPK · APKT-RG · CX33TX 	CART · WRT-RG · CX33TX 
High Feed Milling 高進給銑削	CXBN · BNMX-RG · CX33TX 	CASR · SDNW-RG · CX33TX 
Face Milling 面銑削	CASE · SEKW · CX33TX 	CXSN · SNMX-RG · CX33TX 
Copy Milling 仿形銑削	CF21 · WP32-MM · CX23TX 	CF21 · WP32-SM · CX23TX 