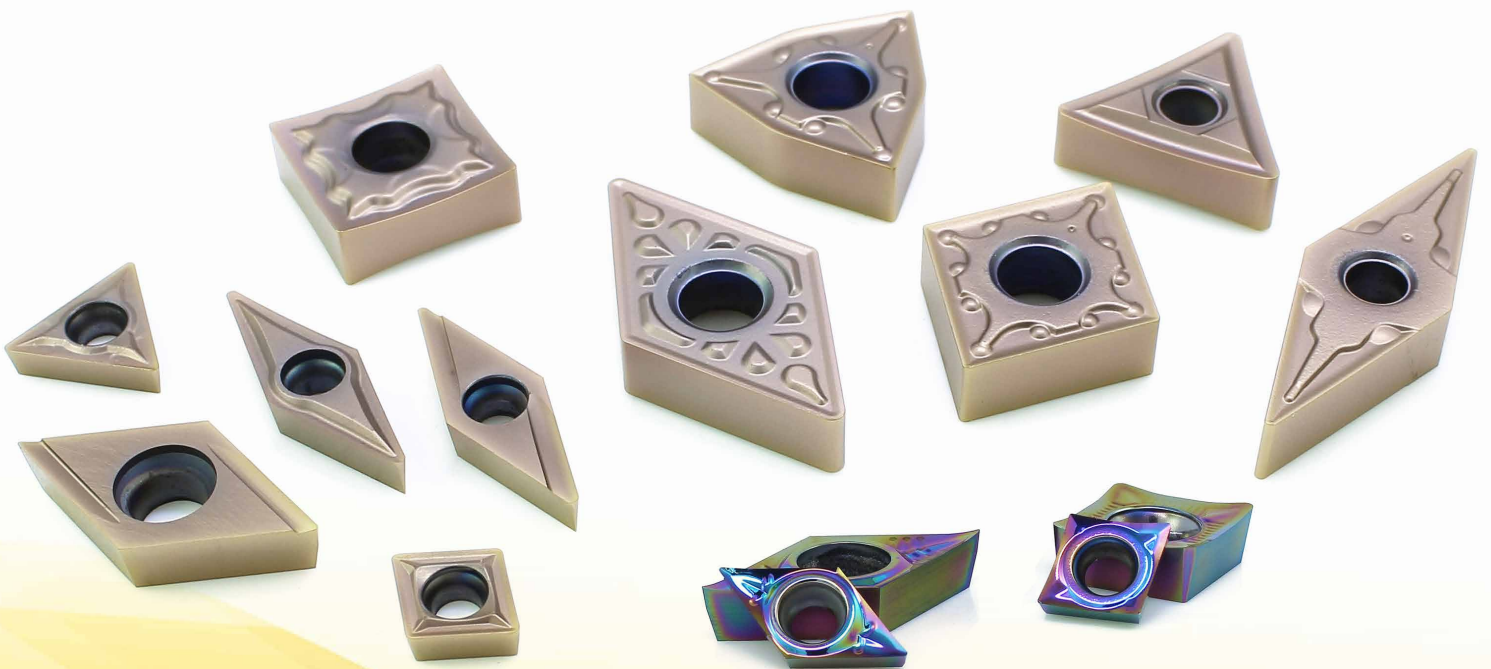


2020 Turning Inserts

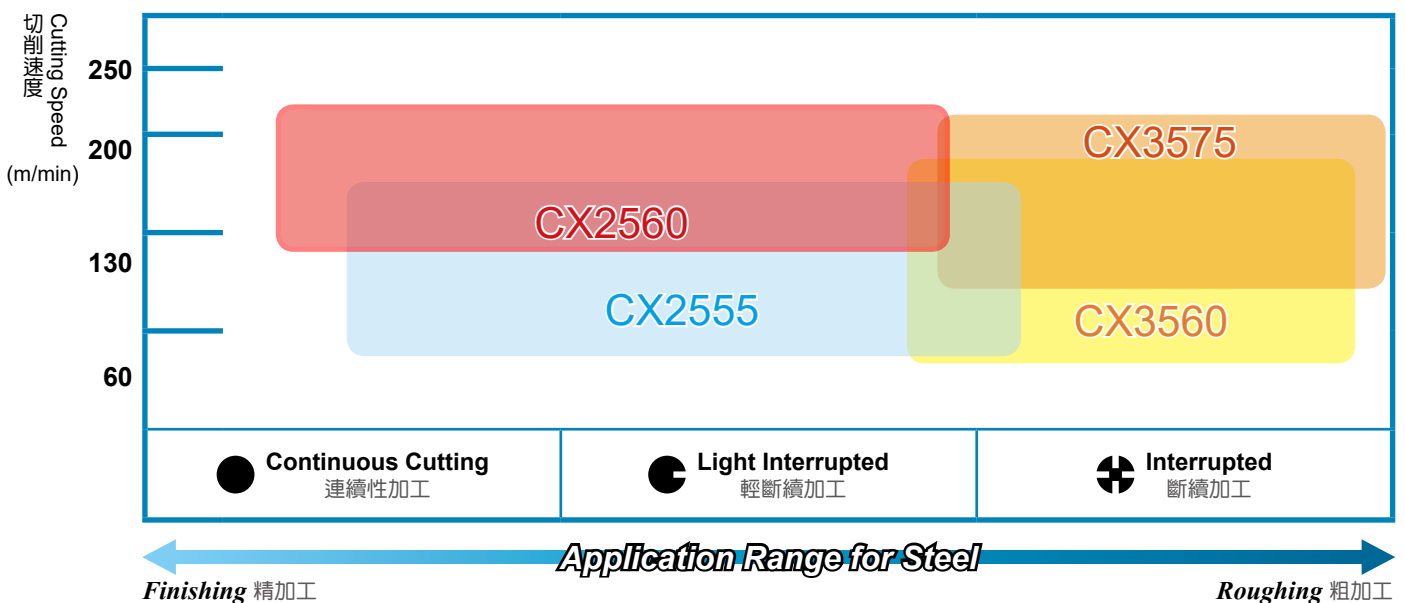
2020 車刀片規格總覽

- **Entire manufacturing process : Sintering, Grinding & Coating.**
掌握完整製造流程：燒結、研磨、塗層
- **Customized geometries acceptable.**
提供刀片幾何客製化服務



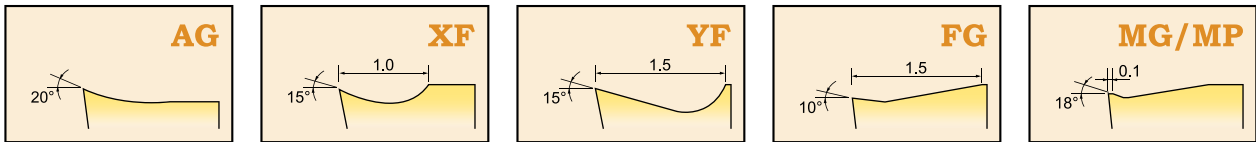
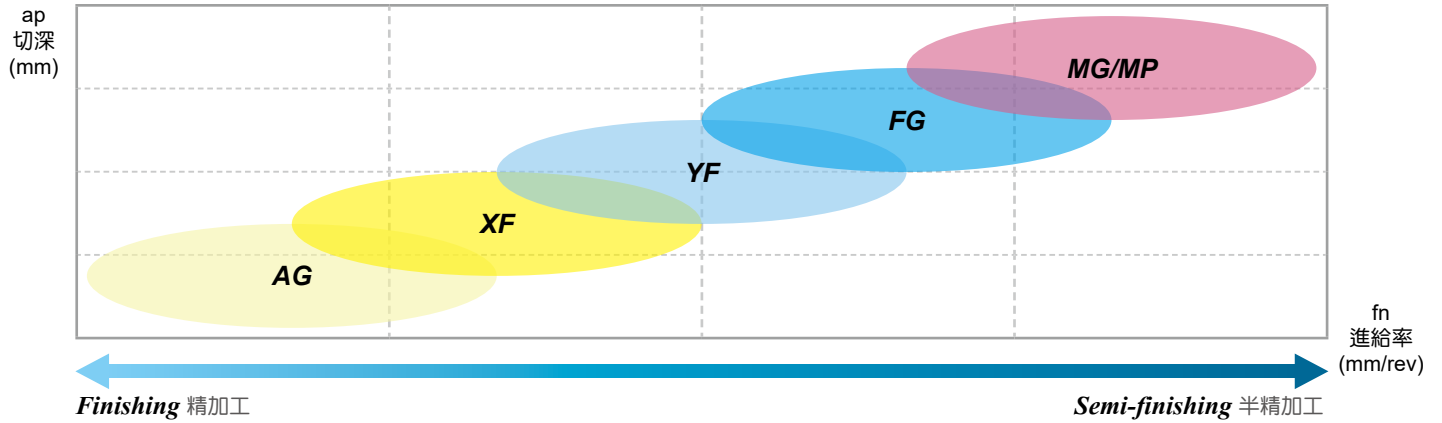
Turning Insert Grades 車刀片材質等級

Grade Type 材質類別	Coating Type 塗層種類	Substrate Hardness 基材硬度	Application 加工特性	Working Material 加工材質						Industry area 產業應用範圍	
				P		M	K	N	S		H
				P1~P3	P4~P6						
CX10	Uncoated	HRA 93	<ul style="list-style-type: none"> Finishing and medium cutting 適用於精加工和中加工 For Aluminum alloy 適合鋁合金車削 					●		<ul style="list-style-type: none"> Bike and auto parts 自行車和汽車零件 	
CX1010	CVD	HRA 93	<ul style="list-style-type: none"> Finishing and medium cutting 適用於精加工和中加工 For Aluminum alloy with Silicon 適合含矽鋁合金車削 					●		<ul style="list-style-type: none"> Bike and auto parts 自行車和汽車零件 Aluminium rim 鋁合金鋼圈 	
CX1555	PVD	HRA 92	<ul style="list-style-type: none"> Continuous finishing cutting 適用於連續性精加工 For finishing application 適合大部份金屬材質精修車削 	●	●	●	●	○	●	●	<ul style="list-style-type: none"> Auto and machinery parts 汽車和機械零件 Aircraft parts 航太零件
CX2545	PVD	HRA 91.6	<ul style="list-style-type: none"> Good for work hardening cutting 適用於切削加工硬化工件 For Stainless steel & Superalloy 適合不鏽鋼和高溫合金車削 	○	○	●			●	○	<ul style="list-style-type: none"> Auto and machinery parts 汽車和機械零件 Aircraft parts 航太零件
CX2560 (CX2555)	PVD	HRA 91.6	<ul style="list-style-type: none"> Medium or light interrupted cutting 適用於中加工或輕斷續加工 For Carbon Steel 適合碳鋼車削 	●	○	○	○		○	○	<ul style="list-style-type: none"> Carbon steel parts manufacturing 碳鋼零件製造
CX3560	PVD	HRA 90.5	<ul style="list-style-type: none"> Roughing or interrupted cutting 適用於粗加工或斷續加工 For Carbon Steel 適合碳鋼車削 	●	○	○	○		○	○	<ul style="list-style-type: none"> Steel parts manufacturing 鋼鐵零件製造
CX3575	CVD	HRA 90.5	<ul style="list-style-type: none"> Roughing or interrupted cutting 適用於粗加工或斷續加工 For Alloy steel, Cast Iron and Hardened steel 適合合金鋼，鑄鐵和高硬度鋼車削 	●	●	○	●		○	●	<ul style="list-style-type: none"> Auto and machinery parts 汽車和機械零件 Mold & die 模具產業

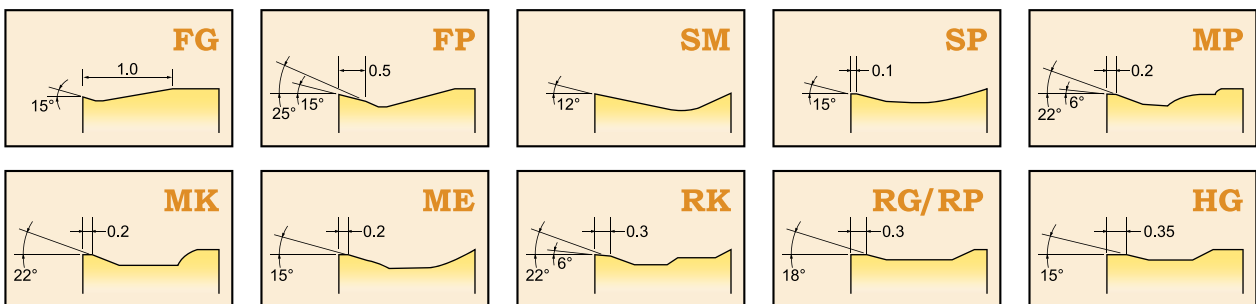
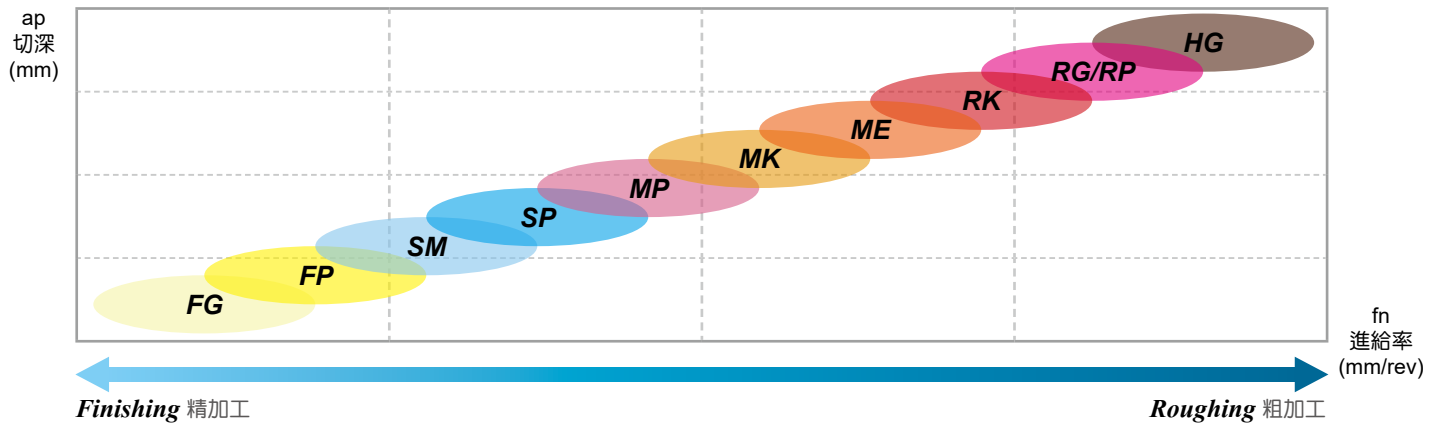


Turning Insert Chip Breakers 車刀片斷屑槽介紹

· Positive 正角

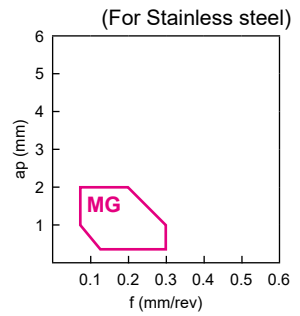
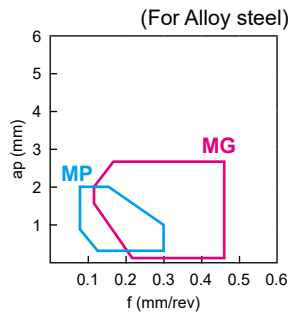
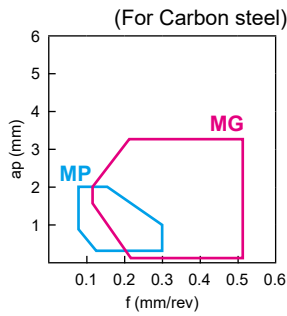
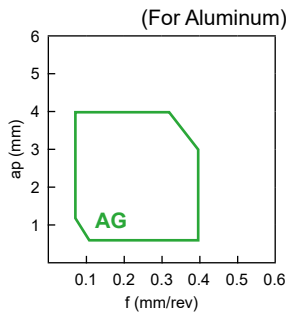


· Negative 負角



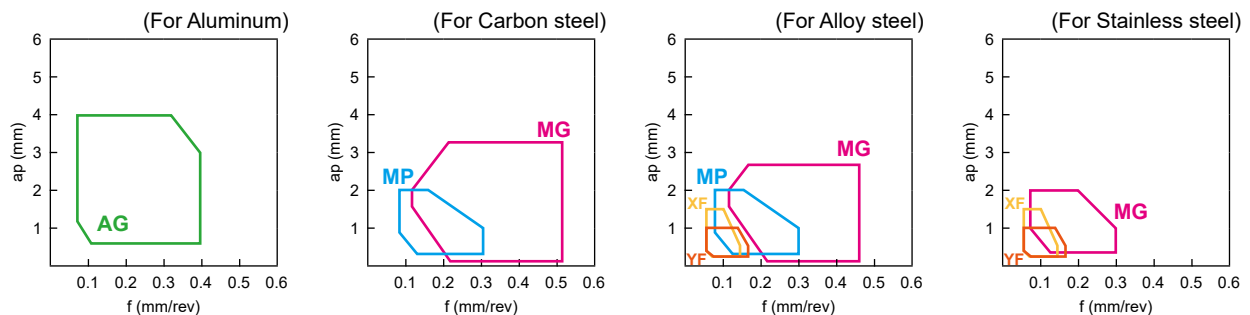
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形	
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r		h
	CCGT 060202-AG	✓					✓	6.35	6.4	2.38	0.2	2.8	
	060204-AG	✓					✓	6.35	6.4	2.38	0.4	2.8	
	09T308-AG	✓					✓	9.53	9.7	3.97	0.8	4.4	
	120404-AG	✓					✓	12.7	12.9	4.76	0.4	5.5	
	CCMT 060204-MP				✓	✓		6.35	6.4	2.38	0.4	2.8	
	09T304-MP				✓	✓		9.53	9.7	3.97	0.4	4.4	
	09T308-MP				✓	✓		9.53	9.7	3.97	0.8	4.4	
	CCMT 060202-MG				✓	✓		6.35	6.4	2.38	0.4	2.8	
	060204-MG			✓	✓	✓		6.35	6.4	2.38	0.4	2.8	
	09T304-MG			✓	✓	✓		9.53	9.7	3.97	0.4	4.4	
	09T308-MG			✓	✓	✓		9.53	9.7	3.97	0.8	4.4	
	120408-MG			✓	✓	✓		12.7	12.9	4.76	0.8	5.5	

Chip control range 斷屑控制範圍



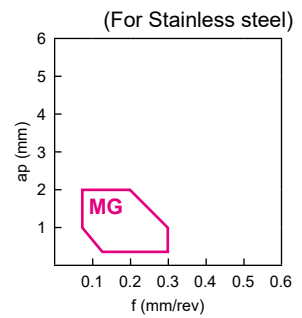
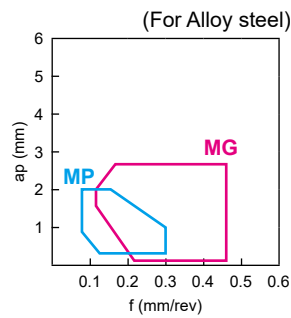
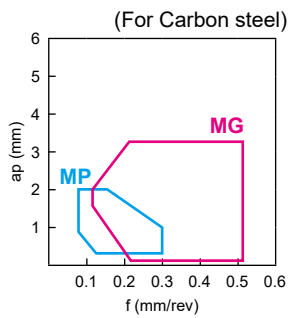
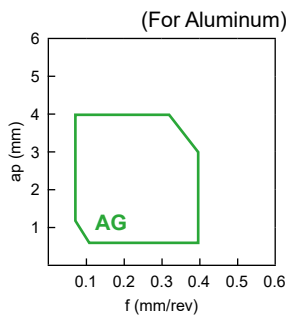
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形	
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r		h
	DCET 11T301R-XF		✓					9.53	11.6	3.97	0.1	4.4	
	11T302R-XF		✓					9.53	11.6	3.97	0.2	4.4	
	11T304R-XF		✓					9.53	11.6	3.97	0.4	4.4	
	DCET 11T301L-XF		✓					9.53	11.6	3.97	0.1	4.4	
	11T302L-XF		✓					9.53	11.6	3.97	0.2	4.4	
	11T304L-XF		✓					9.53	11.6	3.97	0.4	4.4	
	DCET 11T301R-YF		✓					9.53	11.6	3.97	0.1	4.4	
	11T302R-YF		✓					9.53	11.6	3.97	0.2	4.4	
	11T304R-YF		✓					9.53	11.6	3.97	0.4	4.4	
	DCET 11T301L-YF		✓					9.53	11.6	3.97	0.1	4.4	
	11T302L-YF		✓					9.53	11.6	3.97	0.2	4.4	
	11T304L-YF		✓					9.53	11.6	3.97	0.4	4.4	
	DCEW 11T301		✓					9.53	11.6	3.97	0.1	4.4	
	11T302		✓					9.53	11.6	3.97	0.2	4.4	
	11T304		✓					9.53	11.6	3.97	0.4	4.4	
	DCGT 070202-AG	✓					✓	6.35	7.75	2.38	0.2	2.8	
	070204-AG	✓					✓	6.35	7.75	2.38	0.4	2.8	
	11T302-AG	✓					✓	9.53	11.6	3.97	0.2	4.4	
	11T304-AG	✓					✓	9.53	11.6	3.97	0.4	4.4	
	11T308-AG	✓					✓	9.53	11.6	3.97	0.8	4.4	
	DCMT 11T304-MP				✓	✓		9.53	11.6	3.97	0.4	4.4	
	11T308-MP				✓	✓		9.53	11.6	3.97	0.8	4.4	
	DCMT 070202-MG			✓	✓			6.35	7.75	2.38	0.2	2.8	
	070204-MG			✓	✓	✓		6.35	7.75	2.38	0.4	2.8	
	11T304-MG			✓	✓	✓		9.53	11.6	3.97	0.4	4.4	
	11T308-MG			✓	✓	✓		9.53	11.6	3.97	0.8	4.4	

Chip control range 斷屑控制範圍



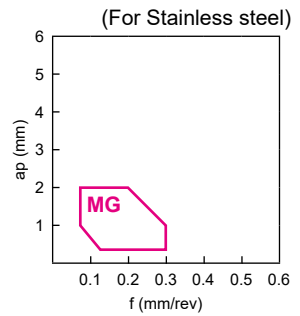
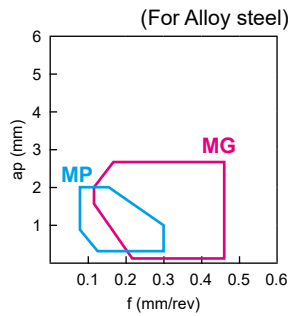
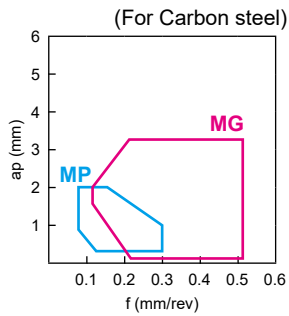
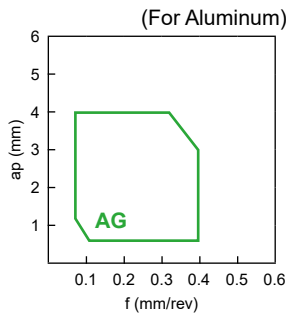
Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h	
	SCGT 09T304-AG	✓					✓	9.53	9.53	3.97	0.4	4.4	
	SCMT 09T304-MP				✓	✓		9.53	9.53	3.97	0.4	4.4	
	SCMT 09T304-MG			✓	✓	✓		9.53	9.53	3.97	0.4	4.4	
	09T308-MG			✓	✓	✓		9.53	9.53	3.97	0.8	4.4	


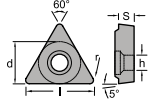
Chip control range 斷屑控制範圍



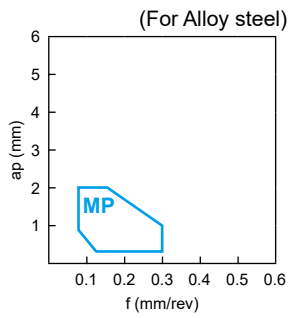
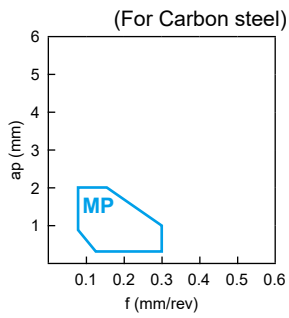
Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h	
	TCGT 090204-AG	✓					✓	5.56	9.6	2.38	0.4	2.5	
	110204-AG	✓					✓	6.35	11.0	2.38	0.4	2.8	
	16T304-AG	✓					✓	9.53	16.5	3.97	0.4	4.4	
	16T308-AG	✓					✓	9.53	16.5	3.97	0.8	4.4	
	TCMT 110204-MP				✓	✓		6.35	11.0	2.38	0.4	2.8	
	TCMT 110204-MG			✓	✓	✓		6.35	11.0	2.38	0.4	2.8	
	16T304-MG			✓	✓	✓		9.53	16.5	3.97	0.4	4.4	
	16T308-MG			✓	✓	✓		9.53	16.5	3.97	0.8	4.4	

Chip control range 斷屑控制範圍



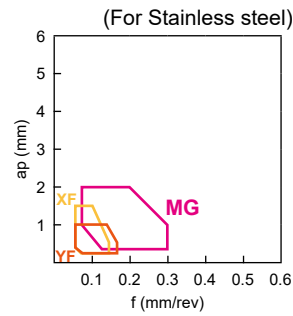
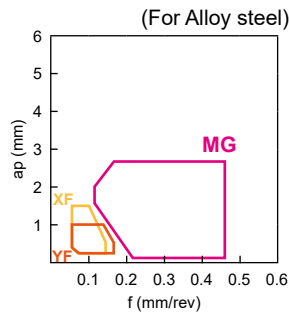
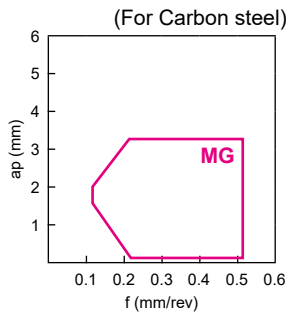
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形	
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r		h
	TPMH 160304-MP				✓	✓		9.53	16.5	3.18	0.4	4.4	

Chip control range 斷屑控制範圍



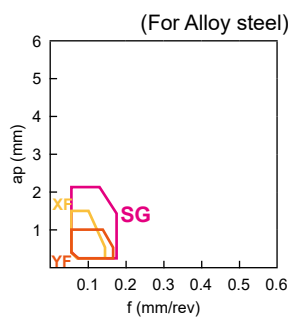
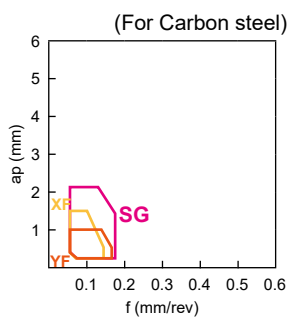
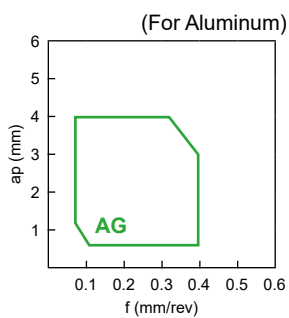
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形	
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r		h
	VBET 110301R-XF		✓					11.1	6.35	3.18	0.1	2.8	
	110302R-XF		✓					11.1	6.35	3.18	0.2	2.8	
	110304R-XF		✓					11.1	6.35	3.18	0.4	2.8	
	VBET 110301L-XF		✓					11.1	6.35	3.18	0.1	2.8	
	110302L-XF		✓					11.1	6.35	3.18	0.2	2.8	
	110304L-XF		✓					11.1	6.35	3.18	0.4	2.8	
	VBET 110301R-YF		✓					11.1	6.35	3.18	0.1	2.8	
	110302R-YF		✓					11.1	6.35	3.18	0.2	2.8	
	110304R-YF		✓					11.1	6.35	3.18	0.4	2.8	
	VBET 110301L-YF		✓					11.1	6.35	3.18	0.1	2.8	
	110302L-YF		✓					11.1	6.35	3.18	0.2	2.8	
	110304L-YF		✓					11.1	6.35	3.18	0.4	2.8	
	VBEW 110301		✓					11.1	6.35	3.18	0.1	2.8	
	110302		✓					11.1	6.35	3.18	0.2	2.8	
	110304		✓					11.1	6.35	3.18	0.4	2.8	
	VBMT 160404-MG			✓	✓	✓		9.53	16.6	4.76	0.4	4.4	
	160408-MG			✓	✓	✓		9.53	16.6	4.76	0.8	4.4	

Chip control range 斷屑控制範圍



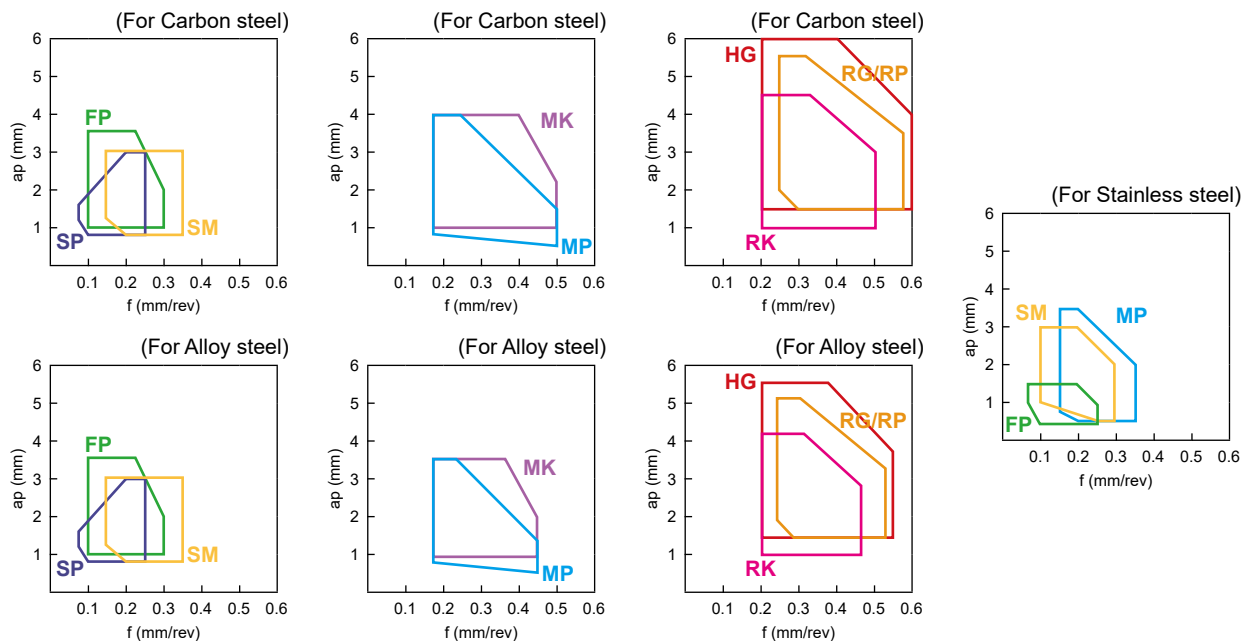
Inserts 刀片	Item No. 名稱	Grade No. 材質						Dimensions (mm) 尺寸					Drawing 圖形
		CX1010	CX1555	CX2545	CX2555	CX2560	CX10	d	l	S	r	h	
	VCET 110301R-XF		✓					11.1	6.35	3.18	0.1	2.8	
	110302R-XF		✓					11.1	6.35	3.18	0.2	2.8	
	110304R-XF		✓					11.1	6.35	3.18	0.4	2.8	
	VCET 110301L-XF		✓					11.1	6.35	3.18	0.1	2.8	
	110302L-XF		✓					11.1	6.35	3.18	0.2	2.8	
	110304L-XF		✓					11.1	6.35	3.18	0.4	2.8	
	VCET 110301R-YF		✓					11.1	6.35	3.18	0.1	2.8	
	110302R-YF		✓					11.1	6.35	3.18	0.2	2.8	
	110304R-YF		✓					11.1	6.35	3.18	0.4	2.8	
	VCET 110301L-YF		✓					11.1	6.35	3.18	0.1	2.8	
	110302L-YF		✓					11.1	6.35	3.18	0.2	2.8	
	110304L-YF		✓					11.1	6.35	3.18	0.4	2.8	
	VCEW 110301		✓					11.1	6.35	3.18	0.1	2.8	
	110302		✓					11.1	6.35	3.18	0.2	2.8	
	110304		✓					11.1	6.35	3.18	0.4	2.8	
	VCGT 110302-AG	✓					✓	11.1	6.35	3.18	0.2	2.8	
	110304-AG	✓					✓	11.1	6.35	3.18	0.4	2.8	
	160402-AG	✓					✓	9.525	16.6	4.76	0.2	4.4	
	160404-AG	✓					✓	9.525	16.6	4.76	0.4	4.4	
	160408-AG	✓					✓	9.525	16.6	4.76	0.8	4.4	
	VCGT 110301-SG		✓					11.1	6.35	3.18	0.1	2.8	
	110302-SG		✓					11.1	6.35	3.18	0.2	2.8	
	110304-SG		✓					11.1	6.35	3.18	0.4	2.8	

Chip control range 斷屑控制範圍



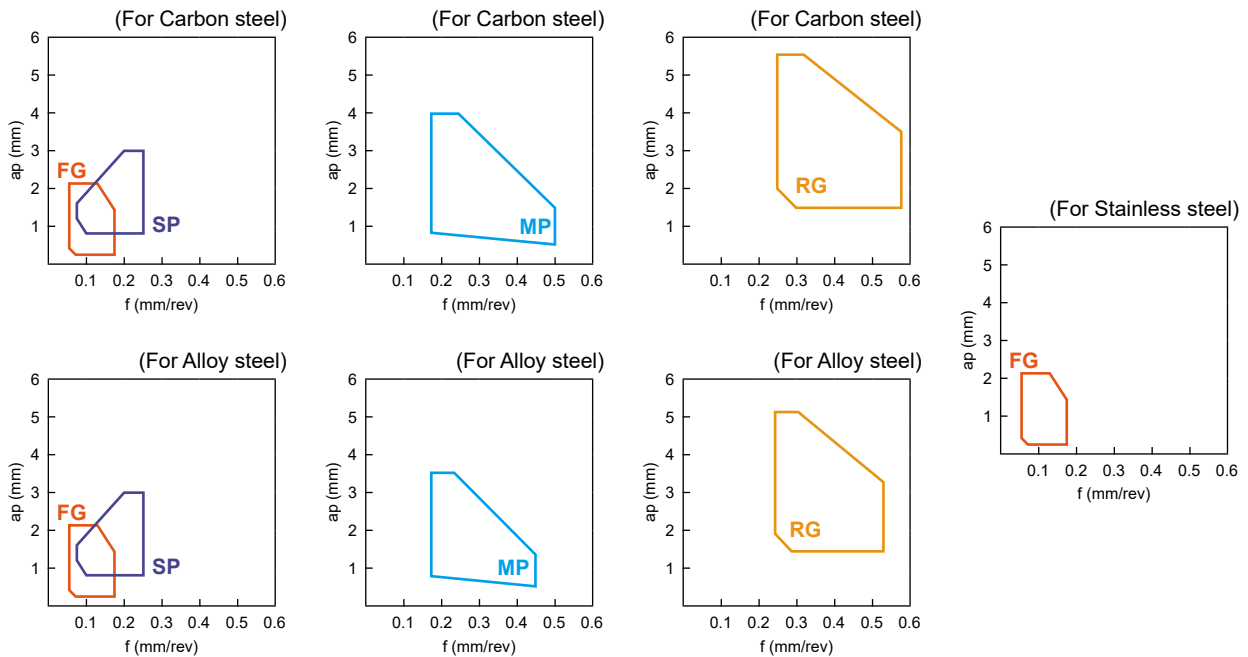
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h	
	CNMG 120404-FP	✓		✓			12.7	12.9	4.76	0.4	5.16	
	120408-FP	✓	✓	✓			12.7	12.9	4.76	0.8	5.16	
	CNMG 120404-SM	✓	✓	✓			12.7	12.9	4.76	0.4	5.16	
	120408-SM	✓	✓	✓			12.7	12.9	4.76	0.8	5.16	
	CNMG 120404-SP		✓	✓			12.7	12.9	4.76	0.4	5.16	
	120408-SP		✓	✓			12.7	12.9	4.76	0.8	5.16	
	CNMG 120404-MP	✓	✓	✓	✓	✓	12.7	12.9	4.76	0.4	5.16	
	120408-MP	✓	✓	✓	✓	✓	12.7	12.9	4.76	0.8	5.16	
	120412-MP	✓	✓	✓	✓		12.7	12.9	4.76	1.2	5.16	
	CNMG 120408-MK		✓	✓			12.7	12.9	4.76	0.8	5.16	
	CNMG 120408-RK		✓	✓			12.7	12.9	4.76	0.8	5.16	
	CNMG 120408-RG		✓	✓	✓		12.7	12.9	4.76	0.8	5.16	
	CNMG 120408-RP		✓	✓	✓		12.7	12.9	4.76	0.8	5.16	
	CNMG 120408-HG		✓	✓	✓		12.7	12.9	4.76	0.8	5.16	
	120412-HG		✓	✓			12.7	12.9	4.76	1.2	5.16	

Chip control range 斷屑控制範圍



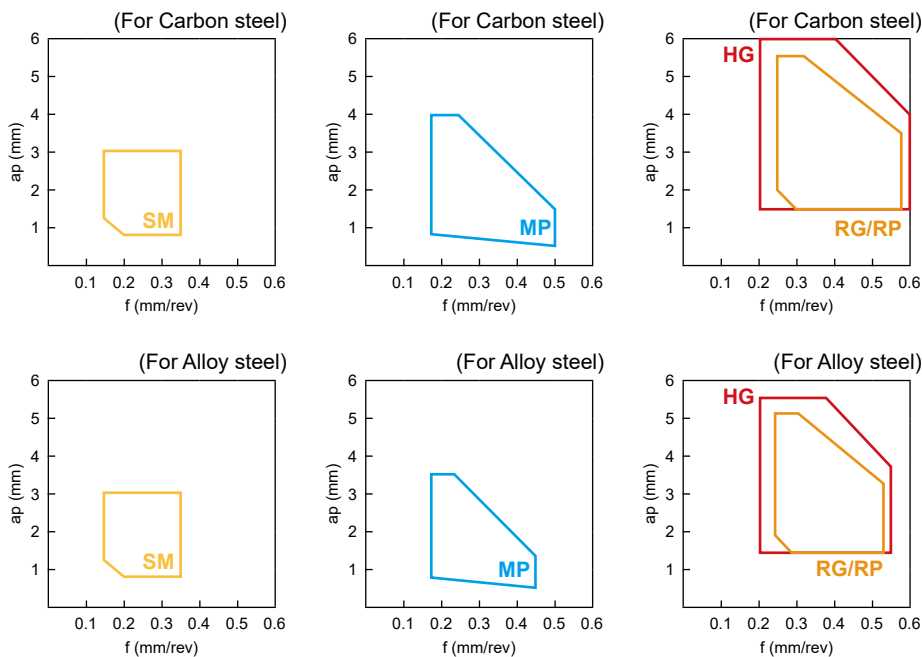
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形
		CX1555	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h	
	DNGX 110401-FG	✓					9.525	11.6	4.76	0.1	4.5	
	110402-FG	✓					9.525	11.6	4.76	0.2	4.5	
	110404-FG	✓					9.525	11.6	4.76	0.4	4.5	
	DNMG 150404-SP		✓	✓			12.7	15.5	4.76	0.4	5.16	
	DNMG 150404-MP					✓	12.7	15.5	4.76	0.4	5.16	
	150408-MP					✓	12.7	15.5	4.76	0.8	5.16	
	DNMG 110408-RG		✓	✓			9.525	11.6	4.76	0.8	3.81	
	150408-RG		✓	✓	✓		12.7	15.5	4.76	0.8	5.16	

Chip control range 斷屑控制範圍



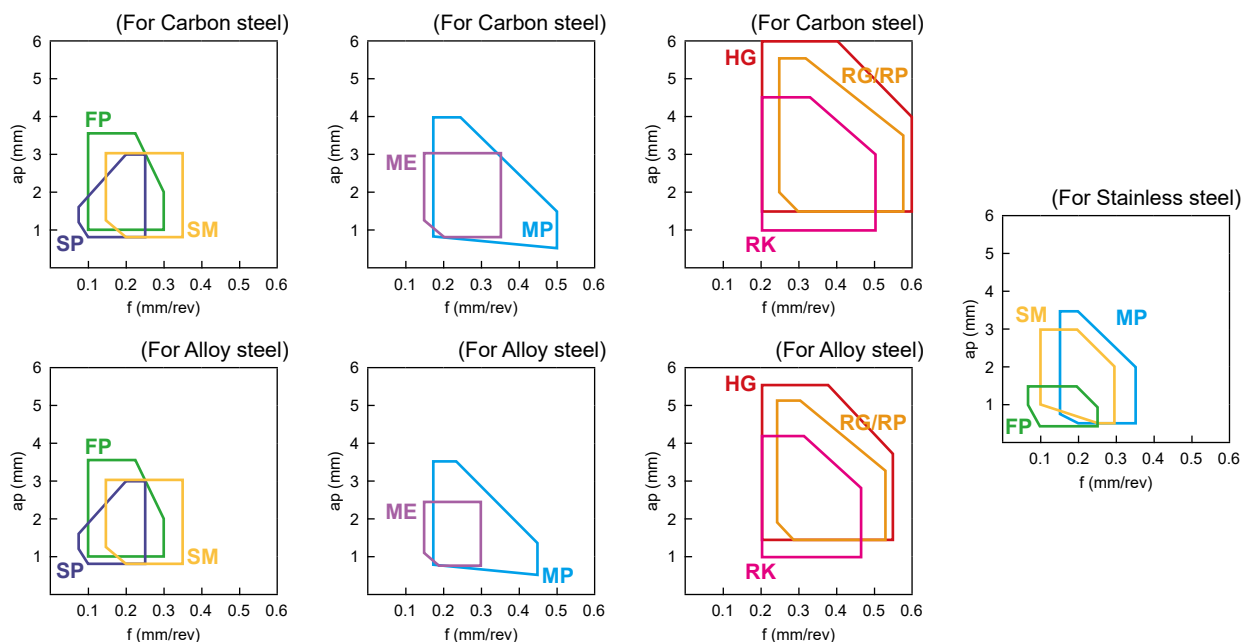
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h	
	SNMG 120404-SM		✓	✓			12.7	12.7	4.76	0.4	5.16	
	SNMG 120404-MP					✓	12.7	12.7	4.76	0.4	5.16	
	120408-MP					✓	12.7	12.7	4.76	0.8	5.16	
	120412-MP					✓	12.7	12.7	4.76	1.2	5.16	
	SNMG 120408-RG		✓	✓	✓		12.7	12.7	4.76	0.8	5.16	
	SNMG 120412-RP				✓		12.7	12.7	4.76	1.2	5.16	
	SNMG 120408-HG		✓	✓			12.7	12.7	4.76	0.8	5.16	
	120412-HG		✓	✓			12.7	12.7	4.76	1.2	5.16	


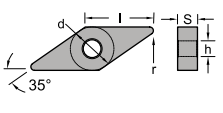

Chip control range 斷屑控制範圍



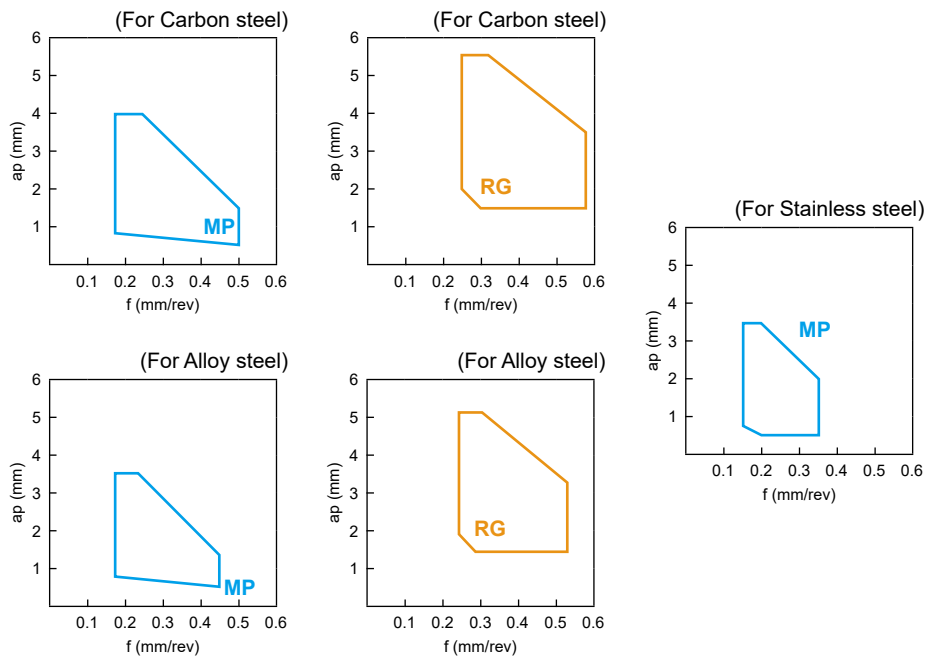
Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h	
	TNMG 160408-FP	✓	✓	✓			9.53	16.5	4.76	0.8	3.81	
	TNMG 160408-SM	✓	✓	✓			9.53	16.5	4.76	0.8	3.81	
	TNMG 160404-SP		✓	✓			9.53	16.5	4.76	0.4	3.81	
	160408-SP		✓	✓			9.53	16.5	4.76	0.8	3.81	
	TNMG 160404R-ME		✓	✓			9.53	16.5	4.76	0.4	3.81	
	160408R-ME		✓	✓			9.53	16.5	4.76	0.8	3.81	
	TNMG 160404L-ME		✓	✓			9.53	16.5	4.76	0.4	3.81	
	160408L-ME		✓	✓			9.53	16.5	4.76	0.8	3.81	
	TNMG 160404-MP	✓	✓	✓		✓	9.53	16.5	4.76	0.4	3.81	
	160408-MP	✓	✓	✓		✓	9.53	16.5	4.76	0.8	3.81	
	160412-MP	✓	✓	✓			9.53	16.5	4.76	1.2	3.81	
	TNMG 220408-RK		✓	✓			12.7	22	4.76	0.8	5.16	
	TNMG 160404-RG		✓	✓	✓		9.53	16.5	4.76	0.4	3.81	
	TNMG 160408-RP		✓	✓			9.53	16.5	4.76	0.8	3.81	
	TNMG 160408-HG		✓	✓	✓		9.53	16.5	4.76	0.8	3.81	
	160412-HG		✓	✓			9.53	16.5	4.76	1.2	3.81	

Chip control range 斷屑控制範圍



Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h	
	VNMG 160404-MP	✓	✓	✓		✓	9.53	16.5	4.76	0.4	3.81	
	160408-MP					✓	9.53	16.5	4.76	0.8	3.81	
	VNMG 160408-RG		✓	✓	✓		9.53	16.5	4.76	0.8	3.81	

Chip control range 斷屑控制範圍



Inserts 刀片	Item No. 名稱	Grade No. 材質					Dimensions (mm) 尺寸					Drawing 圖形
		CX2545	CX2555	CX2560	CX3560	CX3575	d	l	S	r	h	
	WNMG 080408-FP		✓	✓	✓		12.7	8.7	4.76	0.8	5.16	
	WNMG 080404-SP	✓	✓	✓		12.7	8.7	4.76	0.4	5.16		
	080408-SP		✓	✓		12.7	8.7	4.76	0.8	5.16		
	WNMG 080404-MP	✓	✓	✓		12.7	8.7	4.76	0.4	5.16		
	080408-MP	✓	✓	✓	✓	12.7	8.7	4.76	0.8	5.16		
	080412-MP	✓	✓	✓	✓	12.7	8.7	4.76	1.2	5.16		
	WNMG 080408-RP		✓	✓		12.7	8.7	4.76	0.8	5.16		
	080412-RP					12.7	8.7	4.76	1.2	5.16		
	WNMG 080408-HG		✓	✓	✓	12.7	8.7	4.76	0.8	5.16		
	080412-HG		✓	✓	✓	12.7	8.7	4.76	1.2	5.16		

Chip control range 斷屑控制範圍

