

*Winsert*

*series*











捨棄式刀片系列

**Indexable Carbide Inserts**







*Turning Inserts & Milling Inserts*



## Turning Inserts

	CNMG	P02
	DNMG	P03
	SNMG	P03
	TNMG	P04
	VNMG	P05
	WNMG	P06
	CCMT	P07
	DCMT	P08
	SCMT	P09
	TCMT	P09

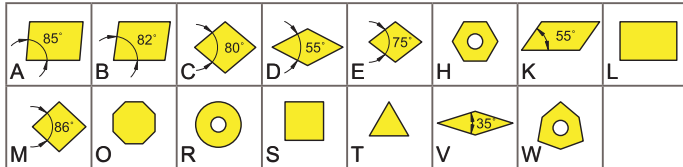
## Milling Inserts

	ADMT	P11
	APKT	P12
	APMT	P13
	RDMT	P15
	RPMT	P16
	SEMT	P17

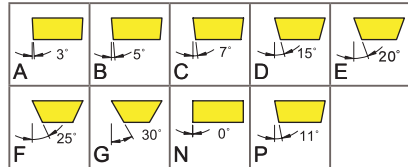
C	N	M	G
1	2	3	4

12	04	08	(E)	(N)	(MP)
5	6	7	8	9	10

**1** INSERT SHAPE  
刀片形狀



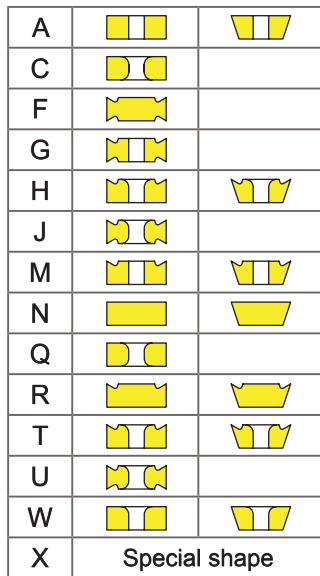
**2** CLEARANCE ANGLE  
刀片逃角



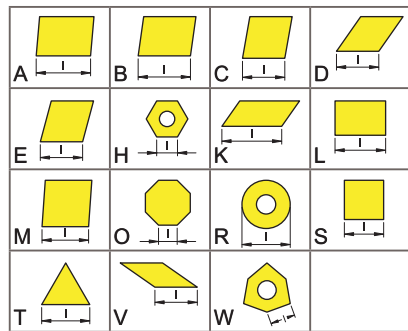
**3** TOLERANCES CLASS  
刀片公差

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

**4** INSERT FEATURES  
刀片溝孔



**5** EDGE LENGTH  
刀片邊長



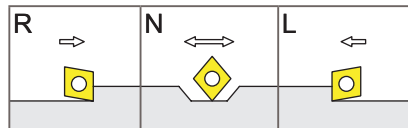
**8** CUTTING EDGE  
刀口角度

E	F	T	S
Rounded	Sharp	Chamferd	Chamferd and rounded

**6** TIP THICKNESS  
刀片厚度

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

**9** CUTTING DIRECTION  
刃口方向



**7** CORNER RADIUS  
刀尖 R 角

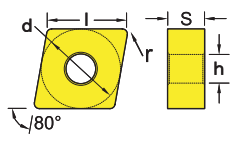
Index	02	04	08	12	16	24	00
r(mm)	0.2	0.4	0.8	1.2	1.6	2.4	0
	00:Round insert (inch)						
	M0:Round insert (metr)						

**10** MANUFACTURE'S TYPE DESIGNATION  
排屑槽

Chip breaker design  
SM, SP, MM, MP,  
MG, RG, RP

CN□□

TURNING 車刀



- |                                 |                               |                    |             |
|---------------------------------|-------------------------------|--------------------|-------------|
| <b>P</b> Alloy Steels 鋼         | <b>F</b> Finishing 精加工        | <b>Chipbreaker</b> | <b>Feed</b> |
| <b>M</b> Stainless Steels 不鏽鋼   | <b>S</b> Semi Finishing 輕加工   | SP                 | 0.10~0.25   |
| <b>K</b> Cast Irons 鑄鐵          | <b>M</b> Medium 中加工           | MM                 | 0.15~0.30   |
| <b>S</b> High Temp. Alloys 高溫合金 | <b>R</b> Roughing 粗加工         | MP                 | 0.20~0.40   |
|                                 | <b>I</b> Interrupted Cut 斷續切削 | MG                 | 0.30~0.50   |
|                                 |                               | RG                 | 0.30~0.50   |
|                                 |                               | RP                 | 0.40~0.60   |

Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質				
		d	l	S	r	h		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	CNMG	120404-SP	12.70	12.9	4.76	0.4	5.16	CP1525	★	★★★★	★★			●	●	●	●
								CP2525	★	★★★★	★★		★	●	●	●	●
								CP3525	★	★★★★	★★		★	●	●	●	●
	CNMG	120408-SP	12.70	12.9	4.76	0.8	5.16	CP1525		★★★★	★★			●	●	●	●
								CP2525		★★★★	★★		★★	●	●	●	●
								CP3525		★★★★	★★		★★★★	●	●	●	●
	CNMG	120404-MM	12.70	12.9	4.76	0.4	5.16	CP1525	★	★★★★	★★			●	●	●	●
								CP2525	★	★★★★	★★		★	●	●	●	●
								CP3525	★	★★★★	★★		★	●	●	●	●
	CNMG	120408-MM	12.70	12.9	4.76	0.8	5.16	CP1525		★★★★	★★	★		●	●	●	●
								CP2525		★★★★	★★	★	★★	●	●	●	●
								CP3525		★★★★	★★	★	★★★★	●	●	●	●
	CNMG	120404-MP	12.70	12.9	4.76	0.4	5.16	CP1525		★★	★★★★			●	●	●	●
								CP2525		★★	★★★★		★	●	●	●	●
								CP3525		★★	★★★★		★	●	●	●	●
	CNMG	120408-MP	12.70	12.9	4.76	0.8	5.16	CP1525		★★	★★★★	★		●	●	●	●
								CP2525		★★	★★★★	★	★★	●	●	●	●
								CP3525		★★	★★★★	★	★★★★	●	●	●	●
CNMG	120412-MP	12.70	12.9	4.76	1.2	5.16	CP1525		★★	★★★★	★		●	●	●	●	
							CP2525		★★	★★★★	★	★★	●	●	●	●	
							CP3525		★★	★★★★	★	★★★★	●	●	●	●	
	CNMG	120408-MG	12.70	12.9	4.76	0.8	5.16	CP1525		★	★★★★	★★		●	●	●	●
								CP2525		★	★★★★	★★	★★	●	●	●	●
								CP3525		★	★★★★	★★	★★★★	●	●	●	●
	CNMG	120408-RG	12.70	12.9	4.76	0.8	5.16	CP1525		★	★★★★	★★		●	●	●	●
								CP2525		★	★★★★	★★	★★	●	●	●	●
								CP3525		★	★★★★	★★	★★★★	●	●	●	●
	CNMG	120408-RP	12.70	12.9	4.76	0.8	5.16	CP1525			★★	★★★★		●	●	●	●
								CP2525			★★	★★★★	★★	●	●	●	●
								CP3525			★★	★★★★	★★★★	●	●	●	●
	CNMG	120412-RP	12.70	12.9	4.76	1.2	5.16	CP1525			★★	★★★★		●	●	●	●
								CP2525			★★	★★★★	★★	●	●	●	●
								CP3525			★★	★★★★	★★★★	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

# DN□□

DNMG				<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金	<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工 <b>I</b> Interrupted Cut 斷續切削	Chipbreaker MG	Feed 0.30~0.50									
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質			
		d	l	S	r	h	<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	DNMG	110408-MG	9.53	11.6	4.76	0.8	3.81	CP1525	★	★★★	★★		●	●	●	
								CP2525	★	★★★	★★	★★	●	●	●	
								CP3525	★	★★★	★★	★★★★	●	●	●	
	150404-MG	12.70	15.5	4.76	0.4	5.16	CP1525	★	★★★	★★						
							CP2525	★	★★★	★★	★					
							CP3525	★	★★★	★★	★					
	150408-MG	12.70	15.5	4.76	0.8	5.16	CP1525	★	★★★	★★		●	●	●		
							CP2525	★	★★★	★★	★★	●	●	●		
							CP3525	★	★★★	★★	★★★★	●	●	●		

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

# SN□□

SNMG				<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金	<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工 <b>I</b> Interrupted Cut 斷續切削	Chipbreaker SP RP	Feed 0.10~0.25 0.40~0.60									
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質			
		d	l	S	r	h	<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	SNMG	120408-MG	12.70	12.70	4.76	0.8	5.16	CP1525	★	★★★	★★		●	●	●	
								CP2525	★	★★★	★★	★★	●	●	●	
								CP3525	★	★★★	★★	★★★★	●	●	●	
	SNMG	120408-RP	12.70	12.70	4.76	0.8	5.16	CP1525		★★	★★★★		●	●	●	
								CP2525		★★	★★★★	★★	●	●	●	
								CP3525		★★	★★★★	★★★★	●	●	●	

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

TN□□

TURNING 車刀

TNMG			Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質			
Type 刀片形狀	Designation 型號	d	l	S	r	h		F	S	M	R	I	P	M	K	S	
	TNMG 160408-SM	9.53	16.5	4.76	0.8	3.81	CP1525	★	★★★★	★★			●	●	●	●	
							CP2525	★	★★★★	★★		★	●	●	●	●	
							CP3525	★	★★★★	★★		★	●	●	●	●	
	TNMG 160404-SP	9.53	16.5	4.76	0.4	3.81	CP1525	★	★★★★	★★			●	●	●	●	
							CP2525	★	★★★★	★★		★	●	●	●	●	
	TNMG 160408-SP	9.53	16.5	4.76	0.8	3.81	CP1525		★★★★	★★			●	●	●	●	
							CP2525		★★★★	★★		★★	●	●	●	●	
							CP3525		★★★★	★★		★★★★	●	●	●	●	
							CP1525		★★★★	★★		★★★★	●	●	●	●	
	TNMG 160408-MM	9.53	16.5	4.76	0.8	3.81	CP1525	★	★★★★	★★			●	●	●	●	
							CP2525	★	★★★★	★★		★	●	●	●	●	
	TNMG 160412-MM	9.53	16.5	4.76	1.2	3.81	CP1525		★★★★	★★	★		●	●	●	●	
							CP2525		★★★★	★★	★	★★	●	●	●	●	
							CP3525		★★★★	★★	★	★★★★	●	●	●	●	
							CP1525		★★★★	★★	★		●	●	●	●	
	TNMG 160404-MP	9.53	16.5	4.76	0.4	3.81	CP1525		★★	★★★★			●	●	●	●	
							CP2525		★★	★★★★		★	●	●	●	●	
							CP3525		★★	★★★★		★	●	●	●	●	
	TNMG 160408-MP	9.53	16.5	4.76	0.8	3.81	CP1525		★★	★★★★	★		●	●	●	●	
							CP2525		★★	★★★★	★	★★	●	●	●	●	
							CP3525		★★	★★★★	★	★★★★	●	●	●	●	
	TNMG 160412-MP	9.53	16.5	4.76	1.2	3.81	CP1525		★★	★★★★	★		●	●	●	●	
							CP2525		★★	★★★★	★	★★	●	●	●	●	
							CP3525		★★	★★★★	★	★★★★	●	●	●	●	
	TNMG 220408-MP	12.70	22	4.76	0.8	5.16	CP1525		★★	★★★★	★		●	●	●	●	
							CP2525		★★	★★★★	★	★★	●	●	●	●	
							CP3525		★★	★★★★	★	★★★★	●	●	●	●	

★ Acceptable 可接受

★★ Recommended 推薦

★★★★ Excellent 強力推薦

# TN□□

TNMG			Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質			
Type 刀片形狀	Designation 型號		d	l	S	r	h		F	S	M	R	I	P	M	K	S
	TNMG	160404-MG	9.53	16.5	4.76	0.4	3.81	CP1525		★	★★★	★★		●	●	●	●
		CP2525		★	★★★	★★	★	●	●	●	●	●	●	●	●	●	●
		CP3525		★	★★★	★★	★	●	●	●	●	●	●	●	●	●	●
	TNMG	160408-MG	CP1525	9.53	16.5	4.76	0.8	3.81		★	★★★	★★		●	●	●	●
			CP2525		★	★★★	★★	★★	●	●	●	●	●	●	●	●	●
			CP3525		★	★★★	★★	★★★★	●	●	●	●	●	●	●	●	●
TNMG	160408-RG	CP1525	9.53	16.5	4.76	0.8	3.81		★	★★★	★★		●	●	●	●	
		CP2525		★	★★★	★★	★★	●	●	●	●	●	●	●	●	●	
		CP3525		★	★★★	★★	★★★★	●	●	●	●	●	●	●	●	●	
TNMG	160408-RP	CP1525	9.53	16.5	4.76	0.8	3.81			★★	★★★★		●	●	●	●	
		CP2525			★★	★★★★	★★	●	●	●	●	●	●	●	●	●	
		CP3525			★★	★★★★	★★★★	●	●	●	●	●	●	●	●	●	
	160412-RP	CP1525	9.53	16.5	4.76	1.2	3.81			★★	★★★★		●	●	●	●	
		CP2525			★★	★★★★	★★	●	●	●	●	●	●	●	●	●	
		CP3525			★★	★★★★	★★★★	●	●	●	●	●	●	●	●	●	

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

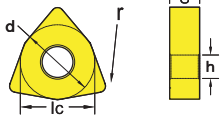
# VN□□

VNMG			Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質			
Type 刀片形狀	Designation 型號		d	l	S	r	h		F	S	M	R	I	P	M	K	S
	VNMG	120408-MG	9.53	16.5	4.76	0.8	3.81	CP1525		★	★★★	★★		●	●	●	●
		CP2525		★	★★★	★★	★★	●	●	●	●	●	●	●	●	●	●
		CP3525		★	★★★	★★	★★★★	●	●	●	●	●	●	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

WN□□

WNMG, WNMA



- P** Alloy Steels 鋼
- M** Stainless Steels 不鏽鋼
- K** Cast Irons 鑄鐵
- S** High Temp. Alloys 高溫合金
- F** Finishing 精加工
- S** Semi Finishing 輕加工
- M** Medium 中加工
- R** Roughing 粗加工
- I** Interrupted Cut 斷續切削

Chipbreaker	Feed
SP	0.10~0.25
MM	0.15~0.30
MP	0.20~0.40
MG	0.30~0.50
RG	0.30~0.50
RP	0.40~0.60

Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質			
		d	l	S	r	h		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>
	WNMG 080404-SP	12.70	8.70	4.76	0.4	5.16	CP1525	★	★★★★	★★			●	●	●	●
							CP2525	★	★★★★	★★		★	●	●	●	●
							CP3525	★	★★★★	★★		★	●	●	●	●
	WNMG 080408-MM	12.70	8.70	4.76	0.8	5.16	CP1525		★★★★	★★	★		●	●	●	●
							CP2525		★★★★	★★	★	★★	●	●	●	●
							CP3525		★★★★	★★	★	★★★★	●	●	●	●
	WNMG 080404-MP	12.70	8.70	4.76	0.4	5.16	CP1525		★★	★★★★			●	●	●	●
							CP2525		★★	★★★★		★	●	●	●	●
							CP3525		★★	★★★★		★	●	●	●	●
	WNMG 080408-MP	12.70	8.70	4.76	0.8	5.16	CP1525		★★	★★★★	★		●	●	●	●
							CP2525		★★	★★★★	★	★★	●	●	●	●
							CP3525		★★	★★★★	★	★★★★	●	●	●	●
	WNMG 080412-MP	12.70	8.70	4.76	1.2	5.16	CP1525		★★	★★★★	★		●	●	●	●
							CP2525		★★	★★★★	★	★★	●	●	●	●
							CP3525		★★	★★★★	★	★★★★	●	●	●	●
	WNMG 080408-MG	12.70	8.70	4.76	0.8	5.16	CP1525		★	★★★★	★★		●	●	●	●
							CP2525		★	★★★★	★★	★★	●	●	●	●
							CP3525		★	★★★★	★★	★★★★	●	●	●	●
	WNMG 080408-RG	12.70	8.70	4.76	0.8	5.16	CP1525		★	★★★★	★★		●	●	●	●
							CP2525		★	★★★★	★★	★★	●	●	●	●
							CP3525		★	★★★★	★★	★★★★	●	●	●	●
	WNMG 080408-RP	12.70	8.70	4.76	0.8	5.16	CP1525			★★	★★★★		●	●	●	●
							CP2525			★★	★★★★	★★	●	●	●	●
							CP3525			★★	★★★★	★★★★	●	●	●	●
	WNMG 080412-RP	12.70	8.70	4.76	1.2	5.16	CP1525			★★	★★★★		●	●	●	●
							CP2525			★★	★★★★	★★	●	●	●	●
	WNMA 080408	12.70	8.68	4.76	0.8	5.16	CP1525		★	★★★★	★★★★	★★★★	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦



CC□□

CCMT				<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金		<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工 <b>I</b> Interrupted Cut 斷續切削		Chipbreaker	Feed								
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質				
		d	l	S	r	h		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	CCMT	060204-MP	6.35	6.4	2.38	0.4	2.8	CP1525		★★	★★★			●	●	●	●
								CP2525		★★	★★★		★	●	●	●	●
								CP3525		★★	★★★		★	●	●	●	●
	CCMT	09T304-MP	9.53	9.7	3.97	0.4	4.4	CP1525		★★	★★★	★		●	●	●	●
								CP2525		★★	★★★	★	★	●	●	●	●
								CP3525		★★	★★★	★	★	●	●	●	●
	CCMT	09T308-MP	9.53	9.7	3.97	0.8	4.4	CP1525		★★	★★★	★		●	●	●	●
								CP2525		★★	★★★	★	★★	●	●	●	●
								CP3525		★★	★★★	★	★★★★	●	●	●	●
	CCMT	060202-MG	6.35	6.4	2.38	0.2	2.8	CP1525		★	★★★	★★		●	●	●	●
								CP2525		★	★★★	★★	★	●	●	●	●
								CP3525		★	★★★	★★	★	●	●	●	●
	CCMT	060204-MG	6.35	6.4	2.38	0.4	2.8	CP1525		★	★★★	★★		●	●	●	●
								CP2525		★	★★★	★★	★	●	●	●	●
								CP3525		★	★★★	★★	★	●	●	●	●
	CCMT	09T304-MG	9.53	9.7	3.97	0.4	4.4	CP1525		★	★★★	★★		●	●	●	●
								CP2525		★	★★★	★★	★	●	●	●	●
								CP3525		★	★★★	★★	★	●	●	●	●
	CCMT	09T308-MG	9.53	9.7	3.97	0.8	4.4	CP1525		★	★★★	★★		●	●	●	●
								CP2525		★	★★★	★★	★★	●	●	●	●
								CP3525		★	★★★	★★	★★★★	●	●	●	●
	CCMT	120408-MG	12.70	12.9	4.76	0.8	5.5	CP1525		★	★★★	★★		●	●	●	●
								CP2525		★	★★★	★★	★★	●	●	●	●
								CP3525		★	★★★	★★	★★★★	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

# DC□□

TURNING 車刀

DCMT		<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金		<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工 <b>I</b> Interrupted Cut 斷續切削		Chipbreaker	Feed											
						MP	0.10~0.25											
						MG	0.20~0.40											
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Grade 材質	Application 用途					工件材質					
		d	l	S	r	h		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>		
	DCMT	11T304-MP	9.53	11.6	3.97	0.4	4.4	CP1525		★	★★★★	★★		●	●	●	●	
								CP2525		★	★★★★	★★	★	●	●	●	●	
								CP3525		★	★★★★	★★	★	●	●	●	●	
	DCMT	11T308-MP	9.53	11.6	3.97	0.8	4.4	CP1525		★	★★★★	★★		●	●	●	●	
								CP2525		★	★★★★	★★	★★	●	●	●	●	
								CP3525		★	★★★★	★★	★★★★	●	●	●	●	
	DCMT	070202-MG	6.35	7.75	2.38	0.2	2.8	CP1525		★	★★★★	★★		●	●	●	●	
								CP2525		★	★★★★	★★	★	●	●	●	●	
								CP3525		★	★★★★	★★	★	●	●	●	●	
		DCMT	070204-MG	6.35	7.75	2.38	0.4	2.8	CP1525		★	★★★★	★★		●	●	●	●
									CP2525		★	★★★★	★★	★	●	●	●	●
									CP3525		★	★★★★	★★	★	●	●	●	●
	DCMT	11T304-MG	9.53	11.6	3.97	0.4	4.4	CP1525		★	★★★★	★★		●	●	●	●	
								CP2525		★	★★★★	★★	★	●	●	●	●	
								CP3525		★	★★★★	★★	★	●	●	●	●	
	DCMT	11T308-MG	9.53	11.6	3.97	0.8	4.4	CP1525		★	★★★★	★★		●	●	●	●	
								CP2525		★	★★★★	★★	★★	●	●	●	●	
								CP3525		★	★★★★	★★	★★★★	●	●	●	●	

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

# SC□□

SCMT		<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金		<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工 <b>I</b> Interrupted Cut 斷續切削		Chipbreaker	Feed									
						MG	0.20~0.40									
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸					Application 用途					工件材質				
		d	l	S	r	h	<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	SCMT	09T304-MG	9.53	9.53	3.97	0.4	4.4	CP1525	★	★★★	★★			●	●	●
								CP2525	★	★★★	★★	★	●	●	●	●
								CP3525	★	★★★	★★	★	●	●	●	●
	09T308-MG	9.53	9.53	3.97	0.8	4.4	CP1525	★	★★★	★★		●	●	●	●	
							CP2525	★	★★★	★★	★★	●	●	●	●	
							CP3525	★	★★★	★★	★★★	●	●	●	●	

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

# TC□□

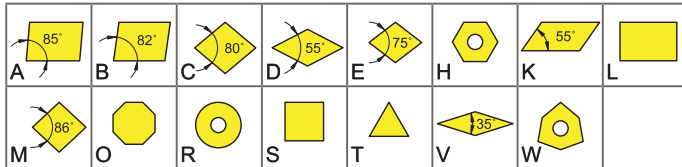
TCMT		<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金		<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工 <b>I</b> Interrupted Cut 斷續切削		Chipbreaker	Feed									
						MP	0.10~0.25									
		d	l	S	r	h	<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>I</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	TCMT	110204-MP	6.35	11.0	2.38	0.4	2.8	CP1525	★★	★★★			●	●	●	
								CP2525	★★	★★★		★	●	●	●	●
								CP3525	★★	★★★		★	●	●	●	●
	TCMT	110204-MG	6.35	11.0	2.38	0.4	2.8	CP1525	★	★★★	★★		●	●	●	
								CP2525	★	★★★	★★	★	●	●	●	●
								CP3525	★	★★★	★★	★	●	●	●	●
	16T304-MG	9.53	16.5	3.97	0.4	4.4	CP1525	★	★★★	★★		●	●	●		
							CP2525	★	★★★	★★	★	●	●	●	●	
							CP3525	★	★★★	★★	★	●	●	●	●	
	16T308-MG	9.53	16.5	3.97	0.8	4.4	CP1525	★	★★★	★★		●	●	●		
							CP2525	★	★★★	★★	★★	●	●	●	●	
							CP3525	★	★★★	★★	★★★	●	●	●	●	

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

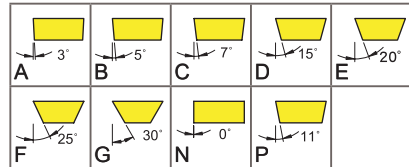
A	P	M	T
1	2	3	4

16	04	PD	E	R	-MG
5	6	7	8	9	10

**1** INSERT SHAPE  
刀片形狀



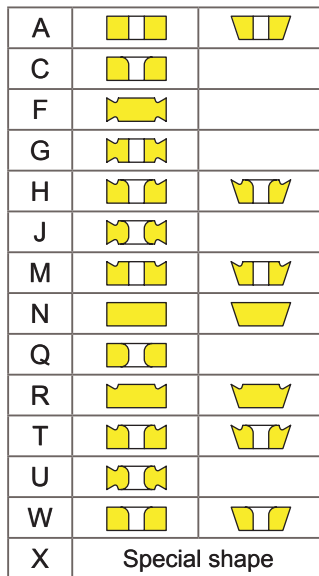
**2** CLEARANCE ANGLE  
刀片逃角



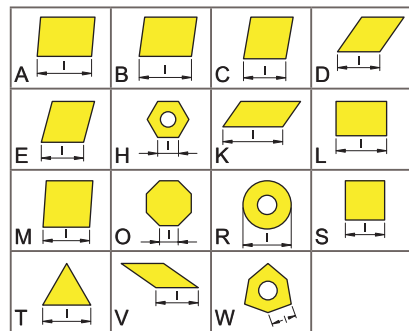
**3** TOLERANCES CLASS  
刀片公差

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

**4** INSERT FEATURES  
刀片溝孔



**5** EDGE LENGTH  
刀片邊長



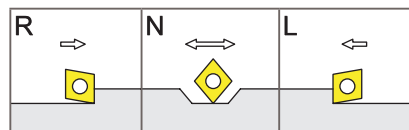
**8** CUTTING EDGE  
刀口角度

E	F	T	S
Rounded	Sharp	Chamferd	Chamferd and rounded

**6** TIP THICKNESS  
刀片厚度

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

**9** CUTTING DIRECTION  
刃口方向



**7** CORNER RADIUS  
刀尖R角

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

**10** MANUFACTURE'S TYPE DESIGNATION  
排屑槽

Chip breaker design

MG, RG, HG, AL

# AD□□

ADMT			<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金					<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工								
Type 刀片形狀	Designation 型號		Dimension (mm) 尺寸					Grade 材質	Application 用途				工件材質			
	ADMT	060208-MG	A	B	S	r	d1		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>
			6.94	4.09	2.45	0.8	2	CP1020	★	★★	★★★★	★★	●	●	●	●
								CP3020	★	★★	★★★★	★★	●	●	●	●
								CP4020	★	★★	★★★★	★★	●	●	●	●

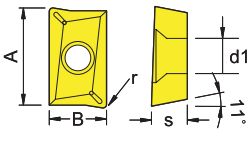
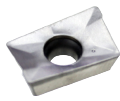
★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式
	10, 11, 12, 13, 16	Groove Milling 溝加工 Shoulder Milling 側面加工 Face Milling 平面加工
	10, 11, 12, 13, 16	

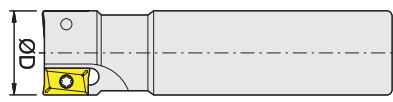


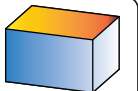
MILLING  
銑刀

# AP□□

MILLING  
銑刀

APKT			<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>P</b> Alloy Steels 鋼</p> <p><b>M</b> Stainless Steels 不鏽鋼</p> <p><b>K</b> Cast Irons 鑄鐵</p> <p><b>S</b> High Temp. Alloys 高溫合金</p> </div> <div style="width: 45%;"> <p><b>F</b> Finishing 精加工</p> <p><b>S</b> Semi Finishing 輕加工</p> <p><b>M</b> Medium 中加工</p> <p><b>R</b> Roughing 粗加工</p> </div> </div>													
			Dimension (mm) 尺寸					Grade 材質	Application 用途				工件材質			
Type 刀片形狀	Designation 型號		A	B	S	r	d1		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>
	APKT	1003-MG	10.5	6.7	3.5	0.8	2.85	CP1020	★	★★	★★★★	★★	●	●	●	●
								CP3020	★	★★	★★★★	★★	●	●	●	●
								CP4020	★	★★	★★★★	★★	●	●	●	●
	APKT	1003-AL	10.5	6.7	3.5	0.8	2.85	CA1000	★★	★★★★	★★★★	★	N			
								CA3000			★★	★★★★				

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式		
	16, 17, 18, 20, 21, 25, 26, 32	 Groove Milling 溝加工	 Shoulder Milling 側面加工	 Face Milling 平面加工

# AP□□

MILLING  
銑刀

APMT		<ul style="list-style-type: none"> <li><b>P</b> Alloy Steels 鋼</li> <li><b>M</b> Stainless Steels 不鏽鋼</li> <li><b>K</b> Cast Irons 鑄鐵</li> <li><b>S</b> High Temp. Alloys 高溫合金</li> <li><b>F</b> Finishing 精加工</li> <li><b>S</b> Semi Finishing 輕加工</li> <li><b>M</b> Medium 中加工</li> <li><b>R</b> Roughing 粗加工</li> </ul>														
		Dimension (mm) 尺寸						Grade 材質	Application 用途				工件材質			
Type 刀片形狀	Designation 型號	A	B	S	r	d1	<b>F</b>		<b>S</b>	<b>M</b>	<b>R</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	APMT 1135PDER-MG	11.00	6.35	3.5	0.8	2.85	CP1020	★	★★	★★★★	★★	●	●	●	●	
							CP3020	★	★★	★★★★	★★	●	●	●	●	●
							CP4020	★	★★	★★★★	★★	●	●	●	●	●
	APMT 1135PDER-RG	11.00	6.35	3.5	0.8	2.85	CP1020		★	★★	★★★★	●	●	●	●	
							CP3020		★	★★	★★★★	●	●	●	●	●
							CP4020		★	★★	★★★★	●	●	●	●	●
	APMT 1135PDER-HG	11.00	6.35	3.5	0.8	2.85	CP1020			★★	★★★★	●	●	●	●	
							CP3020			★★	★★★★	●	●	●	●	●
							CP4020			★★	★★★★	●	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式
	15.5, 16 17, 18, 20, 21, 24, 25, 26, 32	Groove Milling 溝加工 Shoulder Milling 側面加工 Face Milling 平面加工
	16, 17, 20, 21, 25, 26, 32, 33	
	50	

# AP□□

MILLING  
銑刀

APMT		<ul style="list-style-type: none"> <li><b>P</b> Alloy Steels 鋼</li> <li><b>M</b> Stainless Steels 不鏽鋼</li> <li><b>K</b> Cast Irons 鑄鐵</li> <li><b>S</b> High Temp. Alloys 高溫合金</li> <li><b>F</b> Finishing 精加工</li> <li><b>S</b> Semi Finishing 輕加工</li> <li><b>M</b> Medium 中加工</li> <li><b>R</b> Roughing 粗加工</li> </ul>														
		Dimension (mm) 尺寸						Grade 材質	Application 用途				工件材質			
Type 刀片形狀	Designation 型號	A	B	S	r	d1		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>	
	APMT 1604PDER-MG	16.50	9.525	4.76	0.5	4.4	CP1020	★	★★	★★★★	★★	●	●	●	●	
							CP3020	★	★★	★★★★	★★	●	●	●	●	●
							CP4020	★	★★	★★★★	★★	●	●	●	●	●
	APMT 1604PDER-RG	16.50	9.525	4.76	0.5	4.4	CP1020		★	★★	★★★★	●	●	●	●	
							CP3020		★	★★	★★★★	●	●	●	●	●
							CP4020		★	★★	★★★★	●	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式
	25, 35	Groove Milling 溝加工 Shoulder Milling 側面加工 Face Milling 平面加工
	50, 63, 66, 80, 100, 125	Groove Milling 溝加工 Shoulder Milling 側面加工 Face Milling 平面加工
	32, 33	Groove Milling 溝加工 Shoulder Milling 側面加工
	32, 33	Groove Milling 溝加工 Shoulder Milling 側面加工
	32, 33	Hole Milling 孔加工 Helical Milling 螺旋加工



# RD□□

MILLING  
銑刀

RDMX, RDMT, RDMW			<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金				<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工							
Type 刀片形狀	Designation 型號		Dimension (mm) 尺寸			Grade 材質	Application 用途				工件材質			
			lc	S	d1		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>
	RDMX	1003MOE	10.00	3.18	4.5	CP1020		★	★★★★	★	●	●	●	●
						CP3020		★	★★★★	★	●	●	●	●
						CP4020		★	★★★★	★	●	●	●	●
	RDMT	10T3MOT	10.00	3.97	4.5	CP1020		★	★★★★	★★	●	●	●	●
						CP3020		★	★★★★	★★	●	●	●	●
						CP4020		★	★★★★	★★	●	●	●	●
	RDMT	1604MOT	16.00	4.76	5.5	CP1020		★	★★★★	★★	●	●	●	●
						CP3020		★	★★★★	★★	●	●	●	●
						CP4020		★	★★★★	★★	●	●	●	●
	RDMW	10T3MOE	10.00	3.97	4.5	CP1020		★	★★★★	★	●	●	●	●
						CP3020		★	★★★★	★	●	●	●	●
						CP4020		★	★★★★	★	●	●	●	●
	RDMW	1604MOT	16.00	4.76	5.5	CP1020		★	★★★★	★★	●	●	●	●
						CP3020		★	★★★★	★★	●	●	●	●
						CP4020		★	★★★★	★★	●	●	●	●

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式
	12, 16, 17, 20, 21, 25, 26, 30, 32, 35, 40, 50	
	16, 17, 20, 21, 25, 26, 30, 32, 35	Face Milling 平面加工 Radius Milling R角加工 Copy Milling 曲面加工
	50, 63, 66, 80, 100	

RP□□

MILLING  
銑刀

RPMT, RPMW			<b>P</b> Alloy Steels 鋼 <b>M</b> Stainless Steels 不鏽鋼 <b>K</b> Cast Irons 鑄鐵 <b>S</b> High Temp. Alloys 高溫合金				<b>F</b> Finishing 精加工 <b>S</b> Semi Finishing 輕加工 <b>M</b> Medium 中加工 <b>R</b> Roughing 粗加工						
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸			Grade 材質	Application 用途				工件材質			
		lc	S	d1		<b>F</b>	<b>S</b>	<b>M</b>	<b>R</b>	<b>P</b>	<b>M</b>	<b>K</b>	<b>S</b>
	RPMT	08T2MOE	8.00	2.78	3.4	CP1020	★★	★★★★	★	●	●	●	●
						CP3020	★★	★★★★	★	●	●	●	●
						CP4020	★★	★★★★	★	●	●	●	●
	RPMT	10T3MOE	10.00	3.97	4.5	CP1020	★★	★★★★	★	●	●	●	●
						CP3020	★★	★★★★	★	●	●	●	●
						CP4020	★★	★★★★	★	●	●	●	●
		1204MOE	12.00	4.76	4.5	CP1020	★★	★★★★	★	●	●	●	●
						CP3020	★★	★★★★	★	●	●	●	●
						CP4020	★★	★★★★	★	●	●	●	●
RPMW	1003MOT	10.00	3.18	4.5	CP1020	★	★★	★★★★	●	●	●	●	
					CP3020	★	★★	★★★★	●	●	●	●	
					CP4020	★	★★	★★★★	●	●	●	●	
	1204MOE	12.00	4.76	4.5	CP1020	★	★★★★	★★	●	●	●	●	
					CP3020	★	★★★★	★★	●	●	●	●	
					CP4020	★	★★★★	★★	●	●	●	●	

★ Acceptable 可接受

★★ Recommended 推薦

★★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式
	12, 16, 17, 20, 21, 25, 26, 30, 32, 35, 40, 50	Face Milling 平面加工 Radius Milling R角加工 Copy Milling 曲面加工
	16, 17, 20, 21, 25, 26, 30, 32, 35	
	50, 63, 66, 80, 100	

# SE□□

MILLING  
銑刀

SEMT		<span style="border: 1px solid black; padding: 2px;">P</span> Alloy Steels 鋼 <span style="border: 1px solid black; padding: 2px;">M</span> Stainless Steels 不鏽鋼 <span style="border: 1px solid black; padding: 2px;">K</span> Cast Irons 鑄鐵 <span style="border: 1px solid black; padding: 2px;">S</span> High Temp. Alloys 高溫合金		<span style="border: 1px solid black; padding: 2px;">F</span> Finishing 精加工 <span style="border: 1px solid black; padding: 2px;">S</span> Semi Finishing 輕加工 <span style="border: 1px solid black; padding: 2px;">M</span> Medium 中加工 <span style="border: 1px solid black; padding: 2px;">R</span> Roughing 粗加工												
Type 刀片形狀	Designation 型號	Dimension (mm) 尺寸						Grade 材質	Application 用途				Workpiece Material 工件材質			
		D	S	F	r	d1		<span style="border: 1px solid black; padding: 2px;">F</span>	<span style="border: 1px solid black; padding: 2px;">S</span>	<span style="border: 1px solid black; padding: 2px;">M</span>	<span style="border: 1px solid black; padding: 2px;">R</span>	<span style="border: 1px solid black; padding: 2px;">P</span>	<span style="border: 1px solid black; padding: 2px;">M</span>	<span style="border: 1px solid black; padding: 2px;">K</span>	<span style="border: 1px solid black; padding: 2px;">S</span>	
	SEMT 13T3AGSN-MG	13.40	3.97	2.2	1.5	4.2	CP1020	★	★★	★★★★	★	●	●	●	●	
							CP3020	★	★★	★★★★	★	●	●	●	●	
							CP4020	★	★★	★★★★	★	●	●	●	●	
	SEMT 13T3AGSN-RG	13.40	3.97	2.2	1.5	4.2	CP1020		★	★★	★★★★	●	●	●	●	
							CP3020		★	★★	★★★★	●	●	●	●	
							CP4020		★	★★	★★★★	●	●	●	●	

★ Acceptable 可接受      ★★ Recommended 推薦      ★★★ Excellent 強力推薦

Holder 刀桿	Size (mm) 尺寸	Cutting Modes 切削模式	
	50, 63, 80, 100, 125, 160, 210, 260	 Face Milling 平面加工	 Chamfer Milling 導角加工



**WINSTAR CUTTING TECHNOLOGIES CORP.**

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