



600 PLUS

SERIES

SPEED TIGER

INFINITY POWER PRECISION TECHNOLOGY

本系列刀具設計獲得台灣銑刀改良專利：編號102219129 專利產品 仿冒必究
Enhanced geometry of end mills Patent of Taiwan: No. 102219129 Patent product, all rights reserved

高效率泛用型銑刀

HIGH EFFICIENT END MILL

600 PLUS 系列

600 Plus Series

1

特殊刀型設計 + 強化刃口崩角設計，使刀具有最大的鋼性，同時擁有最大的有效排屑空間

Maximized rigidity, and chip removals are greatly improved due to special geometric design and reinforced design in cutting edges against chipping at corners.

2

抑制顫振及噪音的效果更加明顯

Excellent performance of anti-vibration and noise.

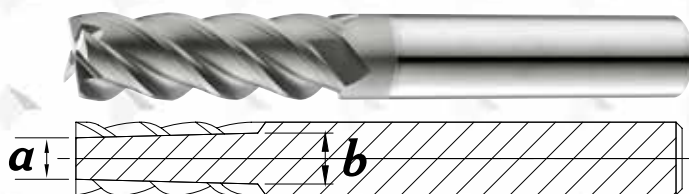
3

刀具塗層：震虎獨家高硬度專用塗層，有效提高刀具壽命跟加工表面精度

High hardness-used coating, effectively improves tool life and finishes.

此刀型設計
可提升加工效率

This shape makes more efficient

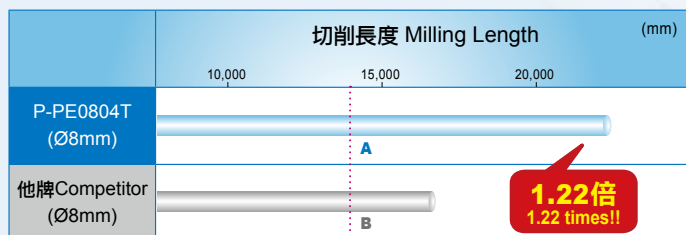


$b > a$
Taper Core 錐型心厚

本設計獲得台灣銑刀改良專利：編號102219129 專利產品 仿冒必究
Enhanced geometry of end mills Patent of Taiwan: No. 102219129 Patent product, all rights reserved

長壽命! 600 PLUS新刀型使壽命增加22%
New geometry for 600 PLUS can prolong tool life by 22%!

工具 Tool	P-PE0804T
工件 Work Material	中碳鋼 S45C
加工方式 Milling Type	側銑 Side milling
切削速度 Milling Speed	100m/min
進給速度 Speed (min ⁻¹)	1400mm/min
切深 Depth of cut	ap=15.00mm ae=1.00mm
冷卻方式 Coolant	空冷 Air Blow
使用機台 Machine	立式綜合加工機 Vertical Machining Center



A

P-PE0804T：加工140M的損耗照片
P-PE0804T：Picture of wear after
milling 140m



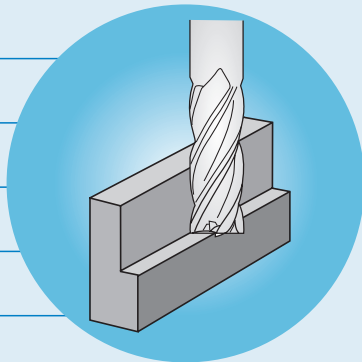
B

他牌：加工140M的損耗照片
Competitor：Picture of wear after
milling 140m



600 PLUS新刀型能夠減少加工時產生的震顫，銑出良好的加工表面
The new developed 600 PLUS enable to operate stable without chipping and produce a superb surface finish.

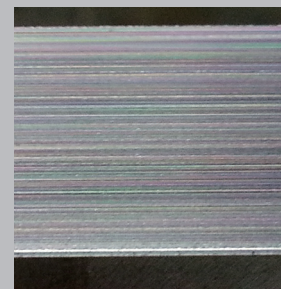
工具 Tool	P-PE0804T
工件 Work Material	中碳鋼 S45C
加工方式 Milling Type	側銑 Side milling
切削速度 Milling Speed	100m/min
進給速度 Speed (min ⁻¹)	1400mm/min
切深 Depth of cut	ap=15.00mm ae=1.00mm
冷卻方式 Coolant	空冷 Air Blow
使用機台 Machine	立式綜合加工機 Vertical Machining Center



P-PE0804T：加工表面良好
Favorable Machined Surface



他牌：一般加工表面
Competitor : General Machined Surface



效率UP! 600 PLUS實現高速加工，節省加工時間25% ↑
Achieving efficient machining by 600 PLUS ; Milling time reduced by more than 25%!

工具 Tool	他牌 Competitor Ø8mm	SPEED TIGER 600 PLUS P-PE0804T
工件 Work Material	中碳鋼 S50C	
加工方式 Milling Type	側銑 Side milling	
切削速度 Milling Speed	100m/min	100m/min
進給速度 Speed (min ⁻¹)	2200mm/min	2800mm/min
切深 Depth of cut	ap=15.00mm ae=1.00mm	
加工長度 Working Length	110m	
加工時間 Working Time	500min	392min
冷卻方式 Coolant	空冷 Air Blow	
使用機台 Machine	立式綜合加工機 Vertical Machining Center	

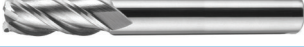
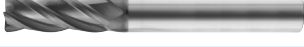
他牌 Competitor

加工時間
8小時20分鐘
Cutting Time
8hr 20min

為您省下**25%**加工時間
SAVE your time 25% ↑

SPEED TIGER
600 PLUS

加工時間
6小時32分鐘
Cutting Time
6hr 32min

刀部形狀 Shape	刀數 Flute	刀型 Type	品名 Mode	照片 Photo	塗層 Coating	規格表 Spec.	切削條件 Cutting Condition
平刀 Square	2	立銑刀 Square Type	P-SSE / P-MSE / P-SE			3	37
			P-SSE / P-MSE / P-SE		AlTiN	4	37
		深溝長頸立銑刀 Long Neck Square Type	P-LNT			15	38
			P-LNT		AlTiN	17	38
		長刃立銑刀 Long Flute Square Type	P-LET			7	40
			P-LET		AlTiN	8	40
	3	立銑刀 Square Type	P-MPE / P-PE (45°)			11	41
			P-MPE / P-PE (45°)		AlTiN	12	41
	4	立銑刀 Square Type	P-SSE / P-MSE / P-SE			5	42
			P-SSE / P-MSE / P-SE		AlTiN	6	42
			P-MPE / P-PE (45°)			13	42
			P-MPE / P-PE (45°)		AlTiN	14	42
		長刃立銑刀 Long Flute Square Type	P-LET			9	43
			P-LET		AlTiN	10	43
球刀 Ball Nose	2	球型立銑刀 Ball Nose Type	P-SSB / P-MSB / P-SB			19	44
			P-SSB / P-MSB / P-SB		AlTiN	20	44
		深溝長頸球型立銑刀 Long Neck Ball Nose Type	P-LNBT			23	45
			P-LNBT		AlTiN	25	45
	4	球型立銑刀 Ball Nose Type	P-SSB / P-MSB / P-SB			21	46
			P-SSB / P-MSB / P-SB		AlTiN	22	46
圓鼻刀 Corner Radius	2	標準圓鼻立銑刀 Corner Radius Type	P-RTA			27	47
			P-RTA		AlTiN	29	47
		長柄圓鼻立銑刀 Long Shank Corner Radius Type	P-LRTA		AlTiN	35	47
	4	標準圓鼻立銑刀 Corner Radius Type	P-RTA			31	48
			P-RTA		AlTiN	33	48
		長柄圓鼻立銑刀 Long Shank Corner Radius Type	P-LRTA		AlTiN	36	48

► Specification 規格

600⁺

Square series - 2 flutes

■ 2刃立銑刀

切削
條件表 **P37**
Cutting Condition

600
Nano

HRC
45

35°

立銑刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L 全長	D 柄徑	Z 刃數
P-SSE0102	1	3	50	3	2
P-MSE0102	1	3	50	4	2
P-SSE0152	1.5	4	50	3	2
P-MSE0152	1.5	4	50	4	2
P-SSE0202	2	6	50	3	2
P-MSE0202	2	6	50	4	2
P-SSE0252	2.5	8	50	3	2
P-MSE0252	2.5	8	50	4	2
P-SSE0302	3	8	50	3	2
P-MSE0302	3	8	50	4	2
P-MSE0352	3.5	10	50	4	2
P-MSE0402	4	11	50	4	2
P-SE0102	1	3	50	6	2
P-SE0152	1.5	4	50	6	2
P-SE0202	2	6	50	6	2
P-SE0252	2.5	8	50	6	2
P-SE0302	3	8	50	6	2
P-SE0352	3.5	10	50	6	2
P-SE0402	4	11	50	6	2
P-SE0452	4.5	13	50	6	2
P-SE0502	5	13	50	6	2
P-SE0552	5.5	13	50	6	2
P-SE0602	6	16	50	6	2
P-SE0652	6.5	16	60	8	2
P-SE0702	7	16	60	8	2
P-SE0752	7.5	19	60	8	2
P-SE0802	8	20	60	8	2
P-SE0852	8.5	20	75	10	2
P-SE0902	9	20	75	10	2
P-SE0952	9.5	25	75	10	2
P-SE1002	10	25	75	10	2
P-SE1052	10.5	25	75	12	2
P-SE1102	11	30	75	12	2
P-SE1152	11.5	30	75	12	2
P-SE1202	12	32	75	12	2
P-SE1402	14	40	100	16	2
P-SE1602	16	40	100	16	2
P-SE1802	18	45	100	20	2
P-SE2002	20	45	100	20	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Square series - 2 flutes

■ 2刃立銑刀

切削
條件表 **P37**
Cutting Condition

600
Nano

HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	l 刃長	L 全長	D 柄徑	Z 刃數
P-SSE0102 AlTiN	1	3	50	3	2
P-MSE0102 AlTiN	1	3	50	4	2
P-SSE0152 AlTiN	1.5	4	50	3	2
P-MSE0152 AlTiN	1.5	4	50	4	2
P-SSE0202 AlTiN	2	6	50	3	2
P-MSE0202 AlTiN	2	6	50	4	2
P-SSE0252 AlTiN	2.5	8	50	3	2
P-MSE0252 AlTiN	2.5	8	50	4	2
P-SSE0302 AlTiN	3	8	50	3	2
P-MSE0302 AlTiN	3	8	50	4	2
P-MSE0352 AlTiN	3.5	10	50	4	2
P-MSE0402 AlTiN	4	11	50	4	2
P-SE0102 AlTiN	1	3	50	6	2
P-SE0152 AlTiN	1.5	4	50	6	2
P-SE0202 AlTiN	2	6	50	6	2
P-SE0252 AlTiN	2.5	8	50	6	2
P-SE0302 AlTiN	3	8	50	6	2
P-SE0352 AlTiN	3.5	10	50	6	2
P-SE0402 AlTiN	4	11	50	6	2
P-SE0452 AlTiN	4.5	13	50	6	2
P-SE0502 AlTiN	5	13	50	6	2
P-SE0552 AlTiN	5.5	13	50	6	2
P-SE0602 AlTiN	6	16	50	6	2
P-SE0652 AlTiN	6.5	16	60	8	2
P-SE0702 AlTiN	7	16	60	8	2
P-SE0752 AlTiN	7.5	19	60	8	2
P-SE0802 AlTiN	8	20	60	8	2
P-SE0852 AlTiN	8.5	20	75	10	2
P-SE0902 AlTiN	9	20	75	10	2
P-SE0952 AlTiN	9.5	25	75	10	2
P-SE1002 AlTiN	10	25	75	10	2
P-SE1052 AlTiN	10.5	25	75	12	2
P-SE1102 AlTiN	11	30	75	12	2
P-SE1152 AlTiN	11.5	30	75	12	2
P-SE1202 AlTiN	12	32	75	12	2
P-SE1402 AlTiN	14	40	100	16	2
P-SE1602 AlTiN	16	40	100	16	2
P-SE1802 AlTiN	18	45	100	20	2
P-SE2002 AlTiN	20	45	100	20	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Square series - 4 flutes

■ 4刃立銑刀

切削
條件表 **P42**
Cutting Condition

600
Nano

HRC
45

35°

立銑刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L 全長	D 柄徑	Z 刃數
P-SSE0104	1	3	50	3	4
P-MSE0104	1	3	50	4	4
P-SSE0154	1.5	4	50	3	4
P-MSE0154	1.5	4	50	4	4
P-SSE0204	2	6	50	3	4
P-MSE0204	2	6	50	4	4
P-SSE0254	2.5	8	50	3	4
P-MSE0254	2.5	8	50	4	4
P-SSE0304	3	8	50	3	4
P-MSE0304	3	8	50	4	4
P-MSE0354	3.5	10	50	4	4
P-MSE0404	4	11	50	4	4
P-SE0104	1	3	50	6	4
P-SE0154	1.5	4	50	6	4
P-SE0204	2	6	50	6	4
P-SE0254	2.5	8	50	6	4
P-SE0304	3	8	50	6	4
P-SE0354	3.5	10	50	6	4
P-SE0404	4	11	50	6	4
P-SE0454	4.5	13	50	6	4
P-SE0504	5	13	50	6	4
P-SE0554	5.5	13	50	6	4
P-SE0604	6	16	50	6	4
P-SE0654	6.5	16	60	8	4
P-SE0704	7	16	60	8	4
P-SE0754	7.5	19	60	8	4
P-SE0804	8	20	60	8	4
P-SE0854	8.5	20	75	10	4
P-SE0904	9	20	75	10	4
P-SE0954	9.5	25	75	10	4
P-SE1004	10	30	75	10	4
P-SE1054	10.5	30	75	12	4
P-SE1104	11	30	75	12	4
P-SE1154	11.5	30	75	12	4
P-SE1204	12	32	75	12	4
P-SE1404	14	40	100	16	4
P-SE1604	16	40	100	16	4
P-SE1804	18	45	100	20	4
P-SE2004	20	45	100	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Square series - 4 flutes

■ 4刃立銑刀

切 削
條件表 **P42**
Cutting Condition

600
Nano

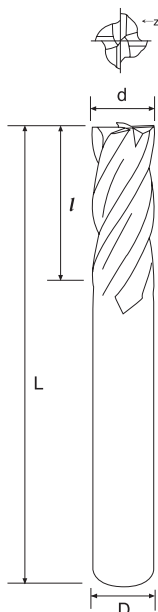
HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	l 刃長	L 全長	D 柄徑	Z 刃數
P-SSE0104 AlTiN	1	3	50	3	4
P-MSE0104 AlTiN	1	3	50	4	4
P-SSE0154 AlTiN	1.5	4	50	3	4
P-MSE0154 AlTiN	1.5	4	50	4	4
P-SSE0204 AlTiN	2	6	50	3	4
P-MSE0204 AlTiN	2	6	50	4	4
P-SSE0254 AlTiN	2.5	8	50	3	4
P-MSE0254 AlTiN	2.5	8	50	4	4
P-SSE0304 AlTiN	3	8	50	3	4
P-MSE0304 AlTiN	3	8	50	4	4
P-MSE0354 AlTiN	3.5	10	50	4	4
P-MSE0404 AlTiN	4	11	50	4	4
P-SE0104 AlTiN	1	3	50	6	4
P-SE0154 AlTiN	1.5	4	50	6	4
P-SE0204 AlTiN	2	6	50	6	4
P-SE0254 AlTiN	2.5	8	50	6	4
P-SE0304 AlTiN	3	8	50	6	4
P-SE0354 AlTiN	3.5	10	50	6	4
P-SE0404 AlTiN	4	11	50	6	4
P-SE0454 AlTiN	4.5	13	50	6	4
P-SE0504 AlTiN	5	13	50	6	4
P-SE0554 AlTiN	5.5	13	50	6	4
P-SE0604 AlTiN	6	16	50	6	4
P-SE0654 AlTiN	6.5	16	60	8	4
P-SE0704 AlTiN	7	16	60	8	4
P-SE0754 AlTiN	7.5	19	60	8	4
P-SE0804 AlTiN	8	20	60	8	4
P-SE0854 AlTiN	8.5	20	75	10	4
P-SE0904 AlTiN	9	20	75	10	4
P-SE0954 AlTiN	9.5	25	75	10	4
P-SE1004 AlTiN	10	30	75	10	4
P-SE1054 AlTiN	10.5	30	75	12	4
P-SE1104 AlTiN	11	30	75	12	4
P-SE1154 AlTiN	11.5	30	75	12	4
P-SE1204 AlTiN	12	32	75	12	4
P-SE1404 AlTiN	14	40	100	16	4
P-SE1604 AlTiN	16	40	100	16	4
P-SE1804 AlTiN	18	45	100	20	4
P-SE2004 AlTiN	20	45	100	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Square series - Long Flute - 2 flutes

■ 2刃長刃立銑刀

切削
條件表 **P40**
Cutting Condition

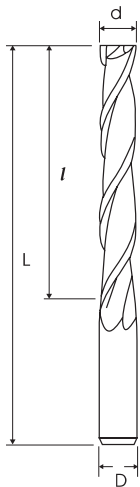
600
Nano

HRC
45

35°

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L 全長	D 柄徑	Z 刃數
P-LET0102	1	7	50	4	2
P-LET0152	1.5	9	50	4	2
P-LET0202	2	12	50	4	2
P-LET0252	2.5	12	50	4	2
P-LET0302	3	15	60	6	2
P-LET0352	3.5	15	60	6	2
P-LET0402	4	20	75	6	2
P-LET0452	4.5	20	75	6	2
P-LET0502	5	25	75	6	2
P-LET0552	5.5	25	75	6	2
P-LET0602	6	30	75	6	2
P-LET0702	7	30	100	8	2
P-LET0802	8	40	100	8	2
P-LET0902	9	40	100	10	2
P-LET1002	10	40	100	10	2
P-LET1102	11	40	100	12	2
P-LET1202	12	50	100	12	2
P-LET1402	14	50	150	16	2
P-LET1602	16	60	150	16	2
P-LET2002	20	90	200	20	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Square series - Long Flute - 2 flutes

■ 2刃長刃立銑刀

切削
條件表 **P40**
Cutting Condition

600
Nano

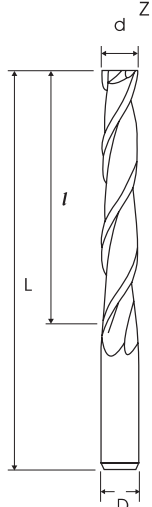
HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	Z 刃長	L 全長	D 柄徑	Z 刃數
P-LET0102 AlTiN	1	7	50	4	2
P-LET0152 AlTiN	1.5	9	50	4	2
P-LET0202 AlTiN	2	12	50	4	2
P-LET0252 AlTiN	2.5	12	50	4	2
P-LET0302 AlTiN	3	15	60	6	2
P-LET0352 AlTiN	3.5	15	60	6	2
P-LET0402 AlTiN	4	20	75	6	2
P-LET0452 AlTiN	4.5	20	75	6	2
P-LET0502 AlTiN	5	25	75	6	2
P-LET0552 AlTiN	5.5	25	75	6	2
P-LET0602 AlTiN	6	30	75	6	2
P-LET0702 AlTiN	7	30	100	8	2
P-LET0802 AlTiN	8	40	100	8	2
P-LET0902 AlTiN	9	40	100	10	2
P-LET1002 AlTiN	10	40	100	10	2
P-LET1102 AlTiN	11	40	100	12	2
P-LET1202 AlTiN	12	50	100	12	2
P-LET1402 AlTiN	14	50	150	16	2
P-LET1602 AlTiN	16	60	150	16	2
P-LET2002 AlTiN	20	90	200	20	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	○	○	○		○		

► Specification 規格

600⁺

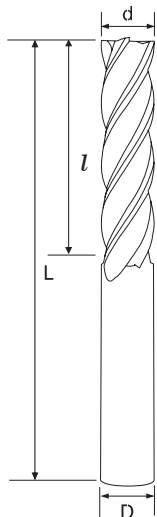
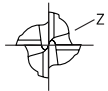
Square series - Long Flute - 4 flutes

■ 4刃長刃立銑刀

切削
條件表 **P43**
Cutting Condition**600**
Nano**HRC**
45

35°

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L 全長	D 柄徑	Z 刃數
P-LET0104	1	6	50	4	4
P-LET0154	1.5	9	50	4	4
P-LET0204	2	12	50	4	4
P-LET0254	2.5	12	50	4	4
P-LET0304	3	15	60	6	4
P-LET0354	3.5	15	60	6	4
P-LET0404	4	20	75	6	4
P-LET0454	4.5	20	75	6	4
P-LET0504	5	25	75	6	4
P-LET0554	5.5	25	75	6	4
P-LET0604	6	30	75	6	4
P-LET0704	7	30	100	8	4
P-LET0804	8	40	100	8	4
P-LET0904	9	40	100	10	4
P-LET1004	10	40	100	10	4
P-LET1104	11	40	100	12	4
P-LET1204	12	50	100	12	4
P-LET1404	14	50	150	16	4
P-LET1604	16	60	150	16	4
P-LET2004	20	90	200	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Square series - Long Flute - 4 flutes

■ 4刃長刃立銑刀

切削
條件表 **P43**
Cutting Condition

600
Nano

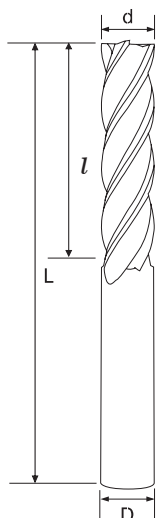
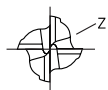
HRC
▶ 55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	l 刃長	L 全長	D 柄徑	Z 刃數
P-LET0104 AlTiN	1	6	50	4	4
P-LET0154 AlTiN	1.5	9	50	4	4
P-LET0204 AlTiN	2	12	50	4	4
P-LET0254 AlTiN	2.5	12	50	4	4
P-LET0304 AlTiN	3	15	60	6	4
P-LET0354 AlTiN	3.5	15	60	6	4
P-LET0404 AlTiN	4	20	75	6	4
P-LET0454 AlTiN	4.5	20	75	6	4
P-LET0504 AlTiN	5	25	75	6	4
P-LET0554 AlTiN	5.5	25	75	6	4
P-LET0604 AlTiN	6	30	75	6	4
P-LET0704 AlTiN	7	30	100	8	4
P-LET0804 AlTiN	8	40	100	8	4
P-LET0904 AlTiN	9	40	100	10	4
P-LET1004 AlTiN	10	40	100	10	4
P-LET1104 AlTiN	11	40	100	12	4
P-LET1204 AlTiN	12	50	100	12	4
P-LET1404 AlTiN	14	50	150	16	4
P-LET1604 AlTiN	16	60	150	16	4
P-LET2004 AlTiN	20	90	200	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Square series - Flute Angle 45° - 3 flutes

■ 3刃45° 立銑刀

切削
條件表 **P41**
Cutting Condition

600
Nano

HRC
45

45°

立銑刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L 全長	D 柄徑	Z 刃數
P-MPE0103	1	3	50	4	3
P-MPE0153	1.5	4	50	4	3
P-MPE0203	2	6	50	4	3
P-MPE0253	2.5	8	50	4	3
P-MPE3303	3	8	50	3	3
P-MPE0303	3	8	50	4	3
P-MPE0353	3.5	10	50	4	3
P-MPE0403	4	11	50	4	3
P-PE0103	1	3	50	6	3
P-PE0153	1.5	4	50	6	3
P-PE0203	2	6	50	6	3
P-PE0253	2.5	8	50	6	3
P-PE0303	3	8	50	6	3
P-PE0353	3.5	10	50	6	3
P-PE0403	4	11	50	6	3
P-PE0453	4.5	13	50	6	3
P-PE0503	5	13	50	6	3
P-PE0553	5.5	13	50	6	3
P-PE0603	6	16	50	6	3
P-PE0653	6.5	16	60	8	3
P-PE0703	7	16	60	8	3
P-PE0753	7.5	19	60	8	3
P-PE0803	8	20	60	8	3
P-PE0853	8.5	20	75	10	3
P-PE0903	9	20	75	10	3
P-PE0953	9.5	25	75	10	3
P-PE1003	10	30	75	10	3
P-PE1053	10.5	30	75	12	3
P-PE1103	11	30	75	12	3
P-PE1153	11.5	30	75	12	3
P-PE1203	12	32	75	12	3
P-PE1403	14	40	100	16	3
P-PE1603	16	40	100	16	3
P-PE1803	18	45	100	20	3
P-PE2003	20	45	100	20	3

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○							○	○

► Specification 規格

600⁺

Square series - Flute Angle 45° - 3 flutes

■ 3刃45° 立銑刀

切削
條件表 **P41**
Cutting Condition

600
Nano

HRC
55

45°

AlTiN

● Micro Grain Carbide

● WC=88 Co=12 HRA=92.4 Rupture=3950N/mm² Grain Size=0.5μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	L 刃長	L 全長	D 柄徑	Z 刃數
P-MPE0103 AlTiN	1	3	50	4	3
P-MPE0153 AlTiN	1.5	4	50	4	3
P-MPE0203 AlTiN	2	6	50	4	3
P-MPE0253 AlTiN	2.5	8	50	4	3
P-MPE3303 AlTiN	3	8	50	3	3
P-MPE0303 AlTiN	3	8	50	4	3
P-MPE0353 AlTiN	3.5	10	50	4	3
P-MPE0403 AlTiN	4	11	50	4	3
P-PE0103 AlTiN	1	3	50	6	3
P-PE0153 AlTiN	1.5	4	50	6	3
P-PE0203 AlTiN	2	6	50	6	3
P-PE0253 AlTiN	2.5	8	50	6	3
P-PE0303 AlTiN	3	8	50	6	3
P-PE0353 AlTiN	3.5	10	50	6	3
P-PE0403 AlTiN	4	11	50	6	3
P-PE0453 AlTiN	4.5	13	50	6	3
P-PE0503 AlTiN	5	13	50	6	3
P-PE0553 AlTiN	5.5	13	50	6	3
P-PE0603 AlTiN	6	16	50	6	3
P-PE0653 AlTiN	6.5	16	60	8	3
P-PE0703 AlTiN	7	16	60	8	3
P-PE0753 AlTiN	7.5	19	60	8	3
P-PE0803 AlTiN	8	20	60	8	3
P-PE0853 AlTiN	8.5	20	75	10	3
P-PE0903 AlTiN	9	20	75	10	3
P-PE0953 AlTiN	9.5	25	75	10	3
P-PE1003 AlTiN	10	30	75	10	3
P-PE1053 AlTiN	10.5	30	75	12	3
P-PE1103 AlTiN	11	30	75	12	3
P-PE1153 AlTiN	11.5	30	75	12	3
P-PE1203 AlTiN	12	32	75	12	3
P-PE1403 AlTiN	14	40	100	16	3
P-PE1603 AlTiN	16	40	100	16	3
P-PE1803 AlTiN	18	45	100	20	3
P-PE2003 AlTiN	20	45	100	20	3

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Square series - Flute Angle 45° - 4 flutes

■ 4刃45° 立銑刀

切削條件表 **P42**
Cutting Condition

600
Nano

HRC
45

45°

立銑刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	ℓ 刃長	L 全長	D 柄徑	Z 刃數
P-MPE0104	1	3	50	4	4
P-MPE0154	1.5	4	50	4	4
P-MPE0204	2	6	50	4	4
P-MPE0254	2.5	8	50	4	4
P-MPE3304	3	8	50	3	4
P-MPE0304	3	8	50	4	4
P-MPE0354	3.5	10	50	4	4
P-MPE0404	4	11	50	4	4
P-PE0104	1	3	50	6	4
P-PE0154	1.5	4	50	6	4
P-PE0204	2	6	50	6	4
P-PE0254	2.5	8	50	6	4
P-PE0304	3	8	50	6	4
P-PE0354	3.5	10	50	6	4
P-PE0404	4	11	50	6	4
P-PE0454	4.5	13	50	6	4
P-PE0504	5	13	50	6	4
P-PE0554	5.5	13	50	6	4
P-PE0604	6	16	50	6	4
P-PE0654	6.5	16	60	8	4
P-PE0704	7	16	60	8	4
P-PE0754	7.5	19	60	8	4
P-PE0804	8	20	60	8	4
P-PE0854	8.5	20	75	10	4
P-PE0904	9	20	75	10	4
P-PE0954	9.5	25	75	10	4
P-PE1004	10	30	75	10	4
P-PE1054	10.5	30	75	12	4
P-PE1104	11	30	75	12	4
P-PE1154	11.5	30	75	12	4
P-PE1204	12	32	75	12	4
P-PE1404	14	40	100	16	4
P-PE1604	16	40	100	16	4
P-PE1804	18	45	100	20	4
P-PE2004	20	45	100	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-harden steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○							○	○

► Specification 規格

600⁺

Square series - Flute Angle 45° - 4 flutes

■ 4刃45° 立銑刀

切削
條件表 **P42**
Cutting Condition

600
Nano

HRC
55

45°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L 全長	D 柄徑	Z 刃數
P-MPE0104 AlTiN	1	3	50	4	4
P-MPE0154 AlTiN	1.5	4	50	4	4
P-MPE0204 AlTiN	2	6	50	4	4
P-MPE0254 AlTiN	2.5	8	50	4	4
P-MPE3304 AlTiN	3	8	50	3	4
P-MPE0304 AlTiN	3	8	50	4	4
P-MPE0354 AlTiN	3.5	10	50	4	4
P-MPE0404 AlTiN	4	11	50	4	4
P-PE0104 AlTiN	1	3	50	6	4
P-PE0154 AlTiN	1.5	4	50	6	4
P-PE0204 AlTiN	2	6	50	6	4
P-PE0254 AlTiN	2.5	8	50	6	4
P-PE0304 AlTiN	3	8	50	6	4
P-PE0354 AlTiN	3.5	10	50	6	4
P-PE0404 AlTiN	4	11	50	6	4
P-PE0454 AlTiN	4.5	13	50	6	4
P-PE0504 AlTiN	5	13	50	6	4
P-PE0554 AlTiN	5.5	13	50	6	4
P-PE0604 AlTiN	6	16	50	6	4
P-PE0654 AlTiN	6.5	16	60	8	4
P-PE0704 AlTiN	7	16	60	8	4
P-PE0754 AlTiN	7.5	19	60	8	4
P-PE0804 AlTiN	8	20	60	8	4
P-PE0854 AlTiN	8.5	20	75	10	4
P-PE0904 AlTiN	9	20	75	10	4
P-PE0954 AlTiN	9.5	25	75	10	4
P-PE1004 AlTiN	10	30	75	10	4
P-PE1054 AlTiN	10.5	30	75	12	4
P-PE1104 AlTiN	11	30	75	12	4
P-PE1154 AlTiN	11.5	30	75	12	4
P-PE1204 AlTiN	12	32	75	12	4
P-PE1404 AlTiN	14	40	100	16	4
P-PE1604 AlTiN	16	40	100	16	4
P-PE1804 AlTiN	18	45	100	20	4
P-PE2004 AlTiN	20	45	100	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	◎	◎	○			○			

► Specification 規格

600⁺

Square series - Long Neck - 2 flutes

■ 2刃深溝專用長頸立銑刀

切削
條件表 **P38**
Cutting Condition

600
Nano

HRC
45

35°

深溝平刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNT05022	0.5	0.75	2	50	4	2
P-LNT05042	0.5	0.75	4	50	4	2
P-LNT05062	0.5	0.75	6	50	4	2
P-LNT06022	0.6	0.9	2	50	4	2
P-LNT06042	0.6	0.9	4	50	4	2
P-LNT06062	0.6	0.9	6	50	4	2
P-LNT07042	0.7	1.1	4	50	4	2
P-LNT07062	0.7	1.1	6	50	4	2
P-LNT08042	0.8	1.2	4	50	4	2
P-LNT08062	0.8	1.2	6	50	4	2
P-LNT08082	0.8	1.2	8	50	4	2
P-LNT09062	0.9	1.4	6	50	4	2
P-LNT09082	0.9	1.4	8	50	4	2
P-LNT09102	0.9	1.4	10	50	4	2
P-LNT10062	1	1.5	6	50	4	2
P-LNT10082	1	1.5	8	50	4	2
P-LNT10102	1	1.5	10	50	4	2
P-LNT10122	1	1.5	12	50	4	2
P-LNT10162	1	1.5	16	50	4	2
P-LNT12062	1.2	1.8	6	50	4	2
P-LNT12082	1.2	1.8	8	50	4	2
P-LNT12102	1.2	1.8	10	50	4	2
P-LNT12122	1.2	1.8	12	50	4	2
P-LNT14062	1.4	2.1	6	50	4	2
P-LNT14102	1.4	2.1	10	50	4	2
P-LNT14162	1.4	2.1	16	50	4	2
P-LNT15062	1.5	2.3	6	50	4	2
P-LNT15082	1.5	2.3	8	50	4	2
P-LNT15102	1.5	2.3	10	50	4	2
P-LNT15122	1.5	2.3	12	50	4	2
P-LNT15142	1.5	2.3	14	50	4	2
P-LNT15162	1.5	2.3	16	50	4	2
P-LNT15182	1.5	2.3	18	50	4	2
P-LNT15202	1.5	2.3	20	50	4	2
P-LNT16062	1.6	2.4	6	50	4	2
P-LNT16082	1.6	2.4	8	50	4	2
P-LNT16102	1.6	2.4	10	50	4	2
P-LNT16122	1.6	2.4	12	50	4	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○							○	○

► Specification 規格

600⁺

Square series - Long Neck - 2 flutes

■ 2刃深溝專用長頸立銑刀

切 削
條件表 P38
Cutting Condition600
NanoHRC
45

35°

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	ℓ 刃長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNT16142	1.6	2.4	14	50	4	2
P-LNT16162	1.6	2.4	16	50	4	2
P-LNT16182	1.6	2.4	18	50	4	2
P-LNT18082	1.8	2.7	8	50	4	2
P-LNT18142	1.8	2.7	14	50	4	2
P-LNT18202	1.8	2.7	20	50	4	2
P-LNT20062	2	3	6	50	4	2
P-LNT20082	2	3	8	50	4	2
P-LNT20102	2	3	10	50	4	2
P-LNT20122	2	3	12	50	4	2
P-LNT20142	2	3	14	50	4	2
P-LNT20162	2	3	16	50	4	2
P-LNT20182	2	3	18	50	4	2
P-LNT20202	2	3	20	50	4	2
P-LNT25082	2.5	4	8	50	4	2
P-LNT25102	2.5	4	10	50	4	2
P-LNT25122	2.5	4	12	50	4	2
P-LNT25142	2.5	4	14	50	4	2
P-LNT25162	2.5	4	16	50	4	2
P-LNT25202	2.5	4	20	50	4	2
P-LNT30082	3	4.5	8	50	6	2
P-LNT30102	3	4.5	10	50	6	2
P-LNT30122	3	4.5	12	50	6	2
P-LNT30162	3	4.5	16	60	6	2
P-LNT30202	3	4.5	20	60	6	2
P-LNT30252	3	4.5	25	75	6	2
P-LNT35122	3.5	6	12	50	6	2
P-LNT35162	3.5	6	16	60	6	2
P-LNT35202	3.5	6	20	75	6	2
P-LNT35252	3.5	6	25	75	6	2
P-LNT35302	3.5	6	30	75	6	2
P-LNT40122	4	6	12	50	6	2
P-LNT40162	4	6	16	60	6	2
P-LNT40202	4	6	20	75	6	2
P-LNT40252	4	6	25	75	6	2
P-LNT40302	4	6	30	75	6	2
P-LNT40352	4	6	35	75	6	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○						○	○	

► Specification 規格

600⁺

Square series - Long Neck - 2 flutes

■ 2刃深溝專用長頸立銑刀

切削條件表 **P38**
Cutting Condition

600
Nano

HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	刀長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNT05022 AlTiN	0.5	0.75	2	50	4	2
P-LNT05042 AlTiN	0.5	0.75	4	50	4	2
P-LNT05062 AlTiN	0.5	0.75	6	50	4	2
P-LNT06022 AlTiN	0.6	0.9	2	50	4	2
P-LNT06042 AlTiN	0.6	0.9	4	50	4	2
P-LNT06062 AlTiN	0.6	0.9	6	50	4	2
P-LNT07042 AlTiN	0.7	1.1	4	50	4	2
P-LNT07062 AlTiN	0.7	1.1	6	50	4	2
P-LNT08042 AlTiN	0.8	1.2	4	50	4	2
P-LNT08062 AlTiN	0.8	1.2	6	50	4	2
P-LNT08082 AlTiN	0.8	1.2	8	50	4	2
P-LNT09062 AlTiN	0.9	1.4	6	50	4	2
P-LNT09082 AlTiN	0.9	1.4	8	50	4	2
P-LNT09102 AlTiN	0.9	1.4	10	50	4	2
P-LNT10062 AlTiN	1	1.5	6	50	4	2
P-LNT10082 AlTiN	1	1.5	8	50	4	2
P-LNT10102 AlTiN	1	1.5	10	50	4	2
P-LNT10122 AlTiN	1	1.5	12	50	4	2
P-LNT10162 AlTiN	1	1.5	16	50	4	2
P-LNT12062 AlTiN	1.2	1.8	6	50	4	2
P-LNT12082 AlTiN	1.2	1.8	8	50	4	2
P-LNT12102 AlTiN	1.2	1.8	10	50	4	2
P-LNT12122 AlTiN	1.2	1.8	12	50	4	2
P-LNT14062 AlTiN	1.4	2.1	6	50	4	2
P-LNT14102 AlTiN	1.4	2.1	10	50	4	2
P-LNT14162 AlTiN	1.4	2.1	16	50	4	2
P-LNT15062 AlTiN	1.5	2.3	6	50	4	2
P-LNT15082 AlTiN	1.5	2.3	8	50	4	2
P-LNT15102 AlTiN	1.5	2.3	10	50	4	2
P-LNT15122 AlTiN	1.5	2.3	12	50	4	2
P-LNT15142 AlTiN	1.5	2.3	14	50	4	2
P-LNT15162 AlTiN	1.5	2.3	16	50	4	2
P-LNT15182 AlTiN	1.5	2.3	18	50	4	2
P-LNT15202 AlTiN	1.5	2.3	20	50	4	2
P-LNT16062 AlTiN	1.6	2.4	6	50	4	2
P-LNT16082 AlTiN	1.6	2.4	8	50	4	2
P-LNT16102 AlTiN	1.6	2.4	10	50	4	2
P-LNT16122 AlTiN	1.6	2.4	12	50	4	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	◎	◎	◎				○		

► Specification 規格

600⁺

Square series - Long Neck - 2 flutes

■ 2刃深溝專用長頸立銑刀

切削
條件表 **P38**
Cutting Condition**600**
Nano**HRC**
55

35°

AITiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	L 刃長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNT16142 AITiN	1.6	2.4	14	50	4	2
P-LNT16162 AITiN	1.6	2.4	16	50	4	2
P-LNT16182 AITiN	1.6	2.4	18	50	4	2
P-LNT18082 AITiN	1.8	2.7	8	50	4	2
P-LNT18142 AITiN	1.8	2.7	14	50	4	2
P-LNT18202 AITiN	1.8	2.7	20	50	4	2
P-LNT20062 AITiN	2	3	6	50	4	2
P-LNT20082 AITiN	2	3	8	50	4	2
P-LNT20102 AITiN	2	3	10	50	4	2
P-LNT20122 AITiN	2	3	12	50	4	2
P-LNT20142 AITiN	2	3	14	50	4	2
P-LNT20162 AITiN	2	3	16	50	4	2
P-LNT20182 AITiN	2	3	18	50	4	2
P-LNT20202 AITiN	2	3	20	50	4	2
P-LNT25082 AITiN	2.5	4	8	50	4	2
P-LNT25102 AITiN	2.5	4	10	50	4	2
P-LNT25122 AITiN	2.5	4	12	50	4	2
P-LNT25142 AITiN	2.5	4	14	50	4	2
P-LNT25162 AITiN	2.5	4	16	50	4	2
P-LNT25202 AITiN	2.5	4	20	50	4	2
P-LNT30082 AITiN	3	4.5	8	50	6	2
P-LNT30102 AITiN	3	4.5	10	50	6	2
P-LNT30122 AITiN	3	4.5	12	50	6	2
P-LNT30162 AITiN	3	4.5	16	60	6	2
P-LNT30202 AITiN	3	4.5	20	60	6	2
P-LNT30252 AITiN	3	4.5	25	75	6	2
P-LNT35122 AITiN	3.5	6	12	50	6	2
P-LNT35162 AITiN	3.5	6	16	60	6	2
P-LNT35202 AITiN	3.5	6	20	75	6	2
P-LNT35252 AITiN	3.5	6	25	75	6	2
P-LNT35302 AITiN	3.5	6	30	75	6	2
P-LNT40122 AITiN	4	6	12	50	6	2
P-LNT40162 AITiN	4	6	16	60	6	2
P-LNT40202 AITiN	4	6	20	75	6	2
P-LNT40252 AITiN	4	6	25	75	6	2
P-LNT40302 AITiN	4	6	30	75	6	2
P-LNT40352 AITiN	4	6	35	75	6	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	◎			○		

► Specification 規格

600⁺

Ball Nose - 2 flutes

■ 2刃球型立銑刀

切削
條件表 **P44**
Cutting Condition

600
Nano

HRC
45

35°

球
型
銑
刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 值	l 刃長	L 全長	D 柄徑	Z 刃數
P-SSB0102	1	0.5	2	50	3	2
P-MSB0102	1	0.5	2	50	4	2
P-SSB0152	1.5	0.75	3	50	3	2
P-MSB0152	1.5	0.75	3	50	4	2
P-SSB0202	2	1	4	50	3	2
P-MSB0202	2	1	4	50	4	2
P-SSB0252	2.5	1.25	5	50	3	2
P-MSB0252	2.5	1.25	5	50	4	2
P-SSB0302	3	1.5	6	50	3	2
P-MSB0302	3	1.5	6	50	4	2
P-MSB0352	3.5	1.75	7	50	4	2
P-MSB0402	4	2	8	50	4	2
P-SB0102	1	0.5	2	50	6	2
P-SB0152	1.5	0.75	3	50	6	2
P-SB0202	2	1	4	50	6	2
P-SB0252	2.5	1.25	5	50	6	2
P-SB0302	3	1.5	6	50	6	2
P-SB0352	3.5	1.75	7	50	6	2
P-SB0402	4	2	8	50	6	2
P-SB0452	4.5	2.25	9	50	6	2
P-SB0502	5	2.5	10	50	6	2
P-SB0552	5.5	2.75	11	50	6	2
P-SB0602	6	3	12	50	6	2
P-SB0702	7	3.5	14	60	8	2
P-SB0802	8	4	16	60	8	2
P-SB0902	9	4.5	18	75	10	2
P-SB1002	10	5	20	75	10	2
P-SB1102	11	5.5	22	75	12	2
P-SB1202	12	6	24	75	12	2
P-SB1402	14	7	28	100	16	2
P-SB1602	16	8	32	100	16	2
P-SB1802	18	9	36	100	20	2
P-SB2002	20	10	40	100	20	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Ball Nose - 2 flutes

■ 2刃球型立銑刀

切削
條件表 **P44**
Cutting Condition

600
Nano

HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 值	ℓ 刃長	L 全長	D 柄徑	Z 刃數
P-SSB0102 AlTiN	1	0.5	2	50	3	2
P-MSB0102 AlTiN	1	0.5	2	50	4	2
P-SSB0152 AlTiN	1.5	0.75	3	50	3	2
P-MSB0152 AlTiN	1.5	0.75	3	50	4	2
P-SSB0202 AlTiN	2	1	4	50	3	2
P-MSB0202 AlTiN	2	1	4	50	4	2
P-SSB0252 AlTiN	2.5	1.25	5	50	3	2
P-MSB0252 AlTiN	2.5	1.25	5	50	4	2
P-SSB0302 AlTiN	3	1.5	6	50	3	2
P-MSB0302 AlTiN	3	1.5	6	50	4	2
P-MSB0352 AlTiN	3.5	1.75	7	50	4	2
P-MSB0402 AlTiN	4	2	8	50	4	2
P-SB0102 AlTiN	1	0.5	2	50	6	2
P-SB0152 AlTiN	1.5	0.75	3	50	6	2
P-SB0202 AlTiN	2	1	4	50	6	2
P-SB0252 AlTiN	2.5	1.25	5	50	6	2
P-SB0302 AlTiN	3	1.5	6	50	6	2
P-SB0352 AlTiN	3.5	1.75	7	50	6	2
P-SB0402 AlTiN	4	2	8	50	6	2
P-SB0452 AlTiN	4.5	2.25	9	50	6	2
P-SB0502 AlTiN	5	2.5	10	50	6	2
P-SB0552 AlTiN	5.5	2.75	11	50	6	2
P-SB0602 AlTiN	6	3	12	50	6	2
P-SB0702 AlTiN	7	3.5	14	60	8	2
P-SB0802 AlTiN	8	4	16	60	8	2
P-SB0902 AlTiN	9	4.5	18	75	10	2
P-SB1002 AlTiN	10	5	20	75	10	2
P-SB1102 AlTiN	11	5.5	22	75	12	2
P-SB1202 AlTiN	12	6	24	75	12	2
P-SB1402 AlTiN	14	7	28	100	16	2
P-SB1602 AlTiN	16	8	32	100	16	2
P-SB1802 AlTiN	18	9	36	100	20	2
P-SB2002 AlTiN	20	10	40	100	20	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminum alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Ball Nose - 4 flutes

■ 4刃球型立銑刀

切削
條件表 **P46**
Cutting Condition

600
Nano

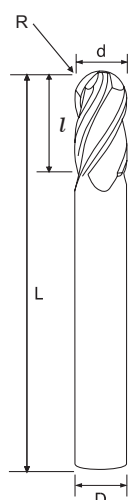
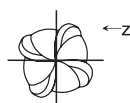
HRC
45

35°

球
型
銑
刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 值	ℓ 刃長	L 全長	D 柄徑	Z 刃數
P-MSB0104	1	0.5	2	50	4	4
P-MSB0154	1.5	0.75	3	50	4	4
P-MSB0204	2	1	4	50	4	4
P-MSB0254	2.5	1.25	5	50	4	4
P-SSB0304	3	1.5	6	50	3	4
P-MSB0304	3	1.5	6	50	4	4
P-MSB0354	3.5	1.75	7	50	4	4
P-MSB0404	4	2	8	50	4	4
P-SB0104	1	0.5	2	50	6	4
P-SB0154	1.5	0.75	3	50	6	4
P-SB0204	2	1	4	50	6	4
P-SB0254	2.5	1.25	5	50	6	4
P-SB0304	3	1.5	6	50	6	4
P-SB0354	3.5	1.75	7	50	6	4
P-SB0404	4	2	8	50	6	4
P-SB0454	4.5	2.25	9	50	6	4
P-SB0504	5	2.5	10	50	6	4
P-SB0554	5.5	2.75	11	50	6	4
P-SB0604	6	3	12	50	6	4
P-SB0704	7	3.5	14	60	8	4
P-SB0804	8	4	16	60	8	4
P-SB0904	9	4.5	18	75	10	4
P-SB1004	10	5	20	75	10	4
P-SB1104	11	5.5	22	75	12	4
P-SB1204	12	6	24	75	12	4
P-SB1404	14	7	28	100	16	4
P-SB1604	16	8	32	100	16	4
P-SB1804	18	9	36	100	20	4
P-SB2004	20	10	40	100	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Ball Nose - 4 flutes

■ 4刃球型立銑刀

切削
條件表 **P46**
Cutting Condition

600
Nano

HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 值	刀長	L 全長	D 柄徑	Z 刃數
P-MSB0104 AlTiN	1	0.5	2	50	4	4
P-MSB0154 AlTiN	1.5	0.75	3	50	4	4
P-MSB0204 AlTiN	2	1	4	50	4	4
P-MSB0254 AlTiN	2.5	1.25	5	50	4	4
P-SSB0304 AlTiN	3	1.5	6	50	3	4
P-MSB0304 AlTiN	3	1.5	6	50	4	4
P-MSB0354 AlTiN	3.5	1.75	7	50	4	4
P-MSB0404 AlTiN	4	2	8	50	4	4
P-SB0104 AlTiN	1	0.5	2	50	6	4
P-SB0154 AlTiN	1.5	0.75	3	50	6	4
P-SB0204 AlTiN	2	1	4	50	6	4
P-SB0254 AlTiN	2.5	1.25	5	50	6	4
P-SB0304 AlTiN	3	1.5	6	50	6	4
P-SB0354 AlTiN	3.5	1.75	7	50	6	4
P-SB0404 AlTiN	4	2	8	50	6	4
P-SB0454 AlTiN	4.5	2.25	9	50	6	4
P-SB0504 AlTiN	5	2.5	10	50	6	4
P-SB0554 AlTiN	5.5	2.75	11	50	6	4
P-SB0604 AlTiN	6	3	12	50	6	4
P-SB0704 AlTiN	7	3.5	14	60	8	4
P-SB0804 AlTiN	8	4	16	60	8	4
P-SB0904 AlTiN	9	4.5	18	75	10	4
P-SB1004 AlTiN	10	5	20	75	10	4
P-SB1104 AlTiN	11	5.5	22	75	12	4
P-SB1204 AlTiN	12	6	24	75	12	4
P-SB1404 AlTiN	14	7	28	100	16	4
P-SB1604 AlTiN	16	8	32	100	16	4
P-SB1804 AlTiN	18	9	36	100	20	4
P-SB2004 AlTiN	20	10	40	100	20	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

Specification 規格

600⁺

Ball Nose - Long Neck - 2 flutes

2刃深溝專用長頸球型立銑刀

切削條件表 **P45**
Cutting Condition

600
Nano

HRC
45

35°

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Radius	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刀徑	R 值	刀長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNBT05022	0.5	0.25	0.75	2	50	4	2
P-LNBT05042	0.5	0.25	0.75	4	50	4	2
P-LNBT05062	0.5	0.25	0.75	6	50	4	2
P-LNBT06022	0.6	0.3	0.9	2	50	4	2
P-LNBT06042	0.6	0.3	0.9	4	50	4	2
P-LNBT06062	0.6	0.3	0.9	6	50	4	2
P-LNBT08042	0.8	0.4	1.2	4	50	4	2
P-LNBT08062	0.8	0.4	1.2	6	50	4	2
P-LNBT08082	0.8	0.4	1.2	8	50	4	2
P-LNBT10062	1	0.5	1.5	6	50	4	2
P-LNBT10082	1	0.5	1.5	8	50	4	2
P-LNBT10102	1	0.5	1.5	10	50	4	2
P-LNBT10122	1	0.5	1.5	12	50	4	2
P-LNBT12062	1.2	0.6	1.8	6	50	4	2
P-LNBT12082	1.2	0.6	1.8	8	50	4	2
P-LNBT12102	1.2	0.6	1.8	10	50	4	2
P-LNBT12122	1.2	0.6	1.8	12	50	4	2
P-LNBT14062	1.4	0.7	2.1	6	50	4	2
P-LNBT14102	1.4	0.7	2.1	10	50	4	2
P-LNBT14162	1.4	0.7	2.1	16	50	4	2
P-LNBT15062	1.5	0.75	2.3	6	50	4	2
P-LNBT15082	1.5	0.75	2.3	8	50	4	2
P-LNBT15102	1.5	0.75	2.3	10	50	4	2
P-LNBT15122	1.5	0.75	2.3	12	50	4	2
P-LNBT15142	1.5	0.75	2.3	14	50	4	2
P-LNBT15162	1.5	0.75	2.3	16	50	4	2
P-LNBT15182	1.5	0.75	2.3	18	50	4	2
P-LNBT15202	1.5	0.75	2.3	20	50	4	2
P-LNBT16062	1.6	0.8	2.4	6	50	4	2
P-LNBT16082	1.6	0.8	2.4	8	50	4	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○							○	○

► Specification 規格

600⁺

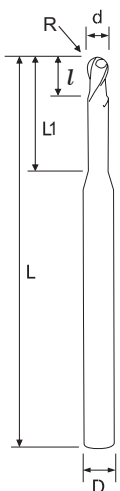
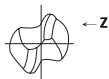
Ball Nose - Long Neck - 2 flutes

■ 2刃深溝專用長頸球型立銑刀

切 削
條件表 **P45**
Cutting Condition**600**
Nano**HRC**
45

35°

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Radius	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刀徑	R 值	刀長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNBT16102	1.6	0.8	2.4	10	50	4	2
P-LNBT16122	1.6	0.8	2.4	12	50	4	2
P-LNBT16142	1.6	0.8	2.4	14	50	4	2
P-LNBT16162	1.6	0.8	2.4	16	50	4	2
P-LNBT16182	1.6	0.8	2.4	18	50	4	2
P-LNBT16202	1.6	0.8	2.4	20	50	4	2
P-LNBT18082	1.8	0.9	2.7	8	50	4	2
P-LNBT18142	1.8	0.9	2.7	14	50	4	2
P-LNBT18202	1.8	0.9	2.7	20	50	4	2
P-LNBT20082	2	1	3	8	50	4	2
P-LNBT20102	2	1	3	10	50	4	2
P-LNBT20122	2	1	3	12	50	4	2
P-LNBT20142	2	1	3	14	50	4	2
P-LNBT20162	2	1	3	16	50	4	2
P-LNBT20182	2	1	3	18	50	4	2
P-LNBT20202	2	1	3	20	50	4	2
P-LNBT25082	2.5	1.25	4	8	50	4	2
P-LNBT25122	2.5	1.25	4	12	50	4	2
P-LNBT25162	2.5	1.25	4	16	50	4	2
P-LNBT25202	2.5	1.25	4	20	50	4	2
P-LNBT30102	3	1.5	4.5	10	50	6	2
P-LNBT30122	3	1.5	4.5	12	50	6	2
P-LNBT30162	3	1.5	4.5	16	60	6	2
P-LNBT30202	3	1.5	4.5	20	60	6	2
P-LNBT30252	3	1.5	4.5	25	75	6	2
P-LNBT40122	4	2	6	12	50	6	2
P-LNBT40162	4	2	6	16	60	6	2
P-LNBT40202	4	2	6	20	75	6	2
P-LNBT40252	4	2	6	25	75	6	2
P-LNBT40302	4	2	6	30	75	6	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○						○	○	

Specification 規格

600⁺

Ball Nose - Long Neck - 2 flutes

2刃深溝專用長頸球型立銑刀

切削條件表 **P45**
Cutting Condition

600
Nano

HRC
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Radius	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 值	刀長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNBT05022 AlTiN	0.5	0.25	0.75	2	50	4	2
P-LNBT05042 AlTiN	0.5	0.25	0.75	4	50	4	2
P-LNBT05062 AlTiN	0.5	0.25	0.75	6	50	4	2
P-LNBT06022 AlTiN	0.6	0.3	0.9	2	50	4	2
P-LNBT06042 AlTiN	0.6	0.3	0.9	4	50	4	2
P-LNBT06062 AlTiN	0.6	0.3	0.9	6	50	4	2
P-LNBT08042 AlTiN	0.8	0.4	1.2	4	50	4	2
P-LNBT08062 AlTiN	0.8	0.4	1.2	6	50	4	2
P-LNBT08082 AlTiN	0.8	0.4	1.2	8	50	4	2
P-LNBT10062 AlTiN	1	0.5	1.5	6	50	4	2
P-LNBT10082 AlTiN	1	0.5	1.5	8	50	4	2
P-LNBT10102 AlTiN	1	0.5	1.5	10	50	4	2
P-LNBT10122 AlTiN	1	0.5	1.5	12	50	4	2
P-LNBT12062 AlTiN	1.2	0.6	1.8	6	50	4	2
P-LNBT12082 AlTiN	1.2	0.6	1.8	8	50	4	2
P-LNBT12102 AlTiN	1.2	0.6	1.8	10	50	4	2
P-LNBT12122 AlTiN	1.2	0.6	1.8	12	50	4	2
P-LNBT14062 AlTiN	1.4	0.7	2.1	6	50	4	2
P-LNBT14102 AlTiN	1.4	0.7	2.1	10	50	4	2
P-LNBT14162 AlTiN	1.4	0.7	2.1	16	50	4	2
P-LNBT15062 AlTiN	1.5	0.75	2.3	6	50	4	2
P-LNBT15082 AlTiN	1.5	0.75	2.3	8	50	4	2
P-LNBT15102 AlTiN	1.5	0.75	2.3	10	50	4	2
P-LNBT15122 AlTiN	1.5	0.75	2.3	12	50	4	2
P-LNBT15142 AlTiN	1.5	0.75	2.3	14	50	4	2
P-LNBT15162 AlTiN	1.5	0.75	2.3	16	50	4	2
P-LNBT15182 AlTiN	1.5	0.75	2.3	18	50	4	2
P-LNBT15202 AlTiN	1.5	0.75	2.3	20	50	4	2
P-LNBT16062 AlTiN	1.6	0.8	2.4	6	50	4	2
P-LNBT16082 AlTiN	1.6	0.8	2.4	8	50	4	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Ball Nose - Long Neck - 2 flutes

■ 2刃深溝專用長頸球型立銑刀

切削
條件表 **P45**
Cutting Condition**600**
Nano**HRC**
55

35°

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Radius	Flute Length	Efficient Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 值	刀長	L1 有效長	L 全長	D 柄徑	Z 刃數
P-LNBT16102 AlTiN	1.6	0.8	2.4	10	50	4	2
P-LNBT16122 AlTiN	1.6	0.8	2.4	12	50	4	2
P-LNBT16142 AlTiN	1.6	0.8	2.4	14	50	4	2
P-LNBT16162 AlTiN	1.6	0.8	2.4	16	50	4	2
P-LNBT16182 AlTiN	1.6	0.8	2.4	18	50	4	2
P-LNBT16202 AlTiN	1.6	0.8	2.4	20	50	4	2
P-LNBT18082 AlTiN	1.8	0.9	2.7	8	50	4	2
P-LNBT18142 AlTiN	1.8	0.9	2.7	14	50	4	2
P-LNBT18202 AlTiN	1.8	0.9	2.7	20	50	4	2
P-LNBT20082 AlTiN	2	1	3	8	50	4	2
P-LNBT20102 AlTiN	2	1	3	10	50	4	2
P-LNBT20122 AlTiN	2	1	3	12	50	4	2
P-LNBT20142 AlTiN	2	1	3	14	50	4	2
P-LNBT20162 AlTiN	2	1	3	16	50	4	2
P-LNBT20182 AlTiN	2	1	3	18	50	4	2
P-LNBT20202 AlTiN	2	1	3	20	50	4	2
P-LNBT25082 AlTiN	2.5	1.25	4	8	50	4	2
P-LNBT25122 AlTiN	2.5	1.25	4	12	50	4	2
P-LNBT25162 AlTiN	2.5	1.25	4	16	50	4	2
P-LNBT25202 AlTiN	2.5	1.25	4	20	50	4	2
P-LNBT30102 AlTiN	3	1.5	4.5	10	50	6	2
P-LNBT30122 AlTiN	3	1.5	4.5	12	50	6	2
P-LNBT30162 AlTiN	3	1.5	4.5	16	60	6	2
P-LNBT30202 AlTiN	3	1.5	4.5	20	60	6	2
P-LNBT30252 AlTiN	3	1.5	4.5	25	75	6	2
P-LNBT40122 AlTiN	4	2	6	12	50	6	2
P-LNBT40162 AlTiN	4	2	6	16	60	6	2
P-LNBT40202 AlTiN	4	2	6	20	75	6	2
P-LNBT40252 AlTiN	4	2	6	25	75	6	2
P-LNBT40302 AlTiN	4	2	6	30	75	6	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不銹鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Corner Radius series - 2 flutes

■ 2刃圓鼻立銑刀

切削
條件表 **P47**
Cutting Condition

600
Nano

HRC
▶ 45

35°

R

圓鼻銑刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	刀長	L 全長	D 柄徑	Z 刃數
P-RTA010012	1	0.1	3	50	4	2
P-RTA010022	1	0.2	3	50	4	2
P-RTA010032	1	0.3	3	50	4	2
P-RTA015022	1.5	0.2	4	50	4	2
P-RTA015032	1.5	0.3	4	50	4	2
P-RTA020022	2	0.2	6	50	4	2
P-RTA020032	2	0.3	6	50	4	2
P-RTA020052	2	0.5	6	50	4	2
P-RTA025022	2.5	0.2	8	50	4	2
P-RTA030022	3	0.2	8	50	3	2
P-RTA030032	3	0.3	8	50	3	2
P-RTA030052	3	0.5	8	50	3	2
P-RTA030102	3	1	8	50	3	2
P-RTA430022	3	0.2	8	50	4	2
P-RTA430032	3	0.3	8	50	4	2
P-RTA430052	3	0.5	8	50	4	2
P-RTA430102	3	1	8	50	4	2
P-RTA040022	4	0.2	10	50	4	2
P-RTA040032	4	0.3	10	50	4	2
P-RTA040052	4	0.5	10	50	4	2
P-RTA040102	4	1	10	50	4	2
P-RTA040152	4	1.5	10	50	4	2
P-RTA050022	5	0.2	13	50	6	2
P-RTA050032	5	0.3	13	50	6	2
P-RTA050052	5	0.5	13	50	6	2
P-RTA050102	5	1	13	50	6	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○							○	○

► Specification 規格

600⁺

Corner Radius series - 2 flutes

■ 2刃圓鼻立銑刀

切削
條件表 **P47**
Cutting Condition

600
Nano

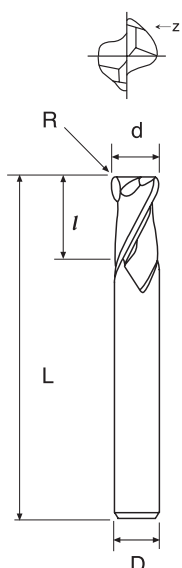
HRC
▶ 45

35°

R

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	刀長	L 全長	D 柄徑	Z 刃數
P-RTA060022	6	0.2	15	50	6	2
P-RTA060032	6	0.3	15	50	6	2
P-RTA060052	6	0.5	15	50	6	2
P-RTA060102	6	1	15	50	6	2
P-RTA060152	6	1.5	15	50	6	2
P-RTA060202	6	2	15	50	6	2
P-RTA080032	8	0.3	20	60	8	2
P-RTA080052	8	0.5	20	60	8	2
P-RTA080102	8	1	20	60	8	2
P-RTA080152	8	1.5	20	60	8	2
P-RTA080202	8	2	20	60	8	2
P-RTA080252	8	2.5	20	60	8	2
P-RTA080302	8	3	20	60	8	2
P-RTA100032	10	0.3	25	75	10	2
P-RTA100052	10	0.5	25	75	10	2
P-RTA100102	10	1	25	75	10	2
P-RTA100152	10	1.5	25	75	10	2
P-RTA100202	10	2	25	75	10	2
P-RTA100252	10	2.5	25	75	10	2
P-RTA100302	10	3	25	75	10	2
P-RTA120032	12	0.3	30	75	12	2
P-RTA120052	12	0.5	30	75	12	2
P-RTA120102	12	1	30	75	12	2
P-RTA120152	12	1.5	30	75	12	2
P-RTA120202	12	2	30	75	12	2
P-RTA120252	12	2.5	30	75	12	2
P-RTA120302	12	3	30	75	12	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	○							○	○

► Specification 規格

600⁺

Corner Radius series - 2 flutes

■ 2刃圓鼻立銑刀

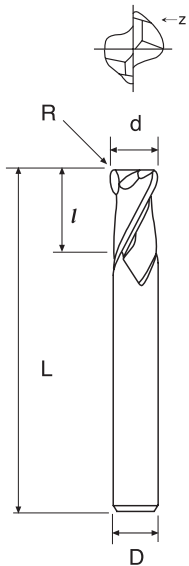
切削
條件表
P47
Cutting Condition600
NanoHRC
55

35°

R

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	l 刃長	L 全長	D 柄徑	Z 刃數
P-RTA010012 AlTiN	1	0.1	3	50	4	2
P-RTA010022 AlTiN	1	0.2	3	50	4	2
P-RTA010032 AlTiN	1	0.3	3	50	4	2
P-RTA015022 AlTiN	1.5	0.2	4	50	4	2
P-RTA015032 AlTiN	1.5	0.3	4	50	4	2
P-RTA020022 AlTiN	2	0.2	6	50	4	2
P-RTA020032 AlTiN	2	0.3	6	50	4	2
P-RTA020052 AlTiN	2	0.5	6	50	4	2
P-RTA025022 AlTiN	2.5	0.2	8	50	4	2
P-RTA030022 AlTiN	3	0.2	8	50	3	2
P-RTA030032 AlTiN	3	0.3	8	50	3	2
P-RTA030052 AlTiN	3	0.5	8	50	3	2
P-RTA030102 AlTiN	3	1	8	50	3	2
P-RTA430022 AlTiN	3	0.2	8	50	4	2
P-RTA430032 AlTiN	3	0.3	8	50	4	2
P-RTA430052 AlTiN	3	0.5	8	50	4	2
P-RTA430102 AlTiN	3	1	8	50	4	2
P-RTA040022 AlTiN	4	0.2	10	50	4	2
P-RTA040032 AlTiN	4	0.3	10	50	4	2
P-RTA040052 AlTiN	4	0.5	10	50	4	2
P-RTA040102 AlTiN	4	1	10	50	4	2
P-RTA040152 AlTiN	4	1.5	10	50	4	2
P-RTA050022 AlTiN	5	0.2	13	50	6	2
P-RTA050032 AlTiN	5	0.3	13	50	6	2
P-RTA050052 AlTiN	5	0.5	13	50	6	2
P-RTA050102 AlTiN	5	1	13	50	6	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Corner Radius series - 2 flutes

■ 2刃圓鼻立銑刀

切削
條件表 **P47**
Cutting Condition

600
Nano

HRC
55

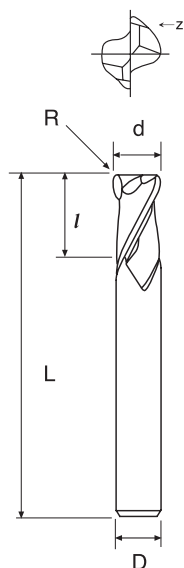
35°

R

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MOD	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刀徑	R 角	刀長	L 全長	D 柄徑	Z 刃數
P-RTA060022 AlTiN	6	0.2	15	50	6	2
P-RTA060032 AlTiN	6	0.3	15	50	6	2
P-RTA060052 AlTiN	6	0.5	15	50	6	2
P-RTA060102 AlTiN	6	1	15	50	6	2
P-RTA060152 AlTiN	6	1.5	15	50	6	2
P-RTA060202 AlTiN	6	2	15	50	6	2
P-RTA080032 AlTiN	8	0.3	20	60	8	2
P-RTA080052 AlTiN	8	0.5	20	60	8	2
P-RTA080102 AlTiN	8	1	20	60	8	2
P-RTA080152 AlTiN	8	1.5	20	60	8	2
P-RTA080202 AlTiN	8	2	20	60	8	2
P-RTA080252 AlTiN	8	2.5	20	60	8	2
P-RTA080302 AlTiN	8	3	20	60	8	2
P-RTA100032 AlTiN	10	0.3	25	75	10	2
P-RTA100052 AlTiN	10	0.5	25	75	10	2
P-RTA100102 AlTiN	10	1	25	75	10	2
P-RTA100152 AlTiN	10	1.5	25	75	10	2
P-RTA100202 AlTiN	10	2	25	75	10	2
P-RTA100252 AlTiN	10	2.5	25	75	10	2
P-RTA100302 AlTiN	10	3	25	75	10	2
P-RTA120032 AlTiN	12	0.3	30	75	12	2
P-RTA120052 AlTiN	12	0.5	30	75	12	2
P-RTA120102 AlTiN	12	1	30	75	12	2
P-RTA120152 AlTiN	12	1.5	30	75	12	2
P-RTA120202 AlTiN	12	2	30	75	12	2
P-RTA120252 AlTiN	12	2.5	30	75	12	2
P-RTA120302 AlTiN	12	3	30	75	12	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Corner Radius series - 4 flutes

■ 4刃圓鼻立銑刀

切削
條件表 **P48**
Cutting Condition

600
Nano

HRC
▶ 45

35°

R

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	ℓ 刃長	L 全長	D 柄徑	Z 刃數
P-RTA020024	2	0.2	6	50	4	4
P-RTA020034	2	0.3	6	50	4	4
P-RTA020054	2	0.5	6	50	4	4
P-RTA025024	2.5	0.2	8	50	4	4
P-RTA030024	3	0.2	8	50	3	4
P-RTA030034	3	0.3	8	50	3	4
P-RTA030054	3	0.5	8	50	3	4
P-RTA030104	3	1	8	50	3	4
P-RTA430024	3	0.2	8	50	4	4
P-RTA430034	3	0.3	8	50	4	4
P-RTA430054	3	0.5	8	50	4	4
P-RTA430104	3	1	8	50	4	4
P-RTA040024	4	0.2	10	50	4	4
P-RTA040034	4	0.3	10	50	4	4
P-RTA040054	4	0.5	10	50	4	4
P-RTA040104	4	1	10	50	4	4
P-RTA040154	4	1.5	10	50	4	4
P-RTA050024	5	0.2	13	50	6	4
P-RTA050034	5	0.3	13	50	6	4
P-RTA050054	5	0.5	13	50	6	4
P-RTA050104	5	1	13	50	6	4
P-RTA060024	6	0.2	15	50	6	4
P-RTA060034	6	0.3	15	50	6	4
P-RTA060054	6	0.5	15	50	6	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Corner Radius series - 4 flutes

■ 4刃圓鼻立銑刀

切削
條件表 **P48**
Cutting Condition

600
Nano

HRC
▶ 45

35°

R

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	l 刃長	L 全長	D 柄徑	Z 刃數
P-RTA060104	6	1	15	50	6	4
P-RTA060154	6	1.5	15	50	6	4
P-RTA060204	6	2	15	50	6	4
P-RTA080034	8	0.3	20	60	8	4
P-RTA080054	8	0.5	20	60	8	4
P-RTA080104	8	1	20	60	8	4
P-RTA080154	8	1.5	20	60	8	4
P-RTA080204	8	2	20	60	8	4
P-RTA080254	8	2.5	20	60	8	4
P-RTA080304	8	3	20	60	8	4
P-RTA100034	10	0.3	25	75	10	4
P-RTA100054	10	0.5	25	75	10	4
P-RTA100104	10	1	25	75	10	4
P-RTA100154	10	1.5	25	75	10	4
P-RTA100204	10	2	25	75	10	4
P-RTA100254	10	2.5	25	75	10	4
P-RTA100304	10	3	25	75	10	4
P-RTA120034	12	0.3	30	75	12	4
P-RTA120054	12	0.5	30	75	12	4
P-RTA120104	12	1	30	75	12	4
P-RTA120154	12	1.5	30	75	12	4
P-RTA120204	12	2	30	75	12	4
P-RTA120254	12	2.5	30	75	12	4
P-RTA120304	12	3	30	75	12	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	○						○	○

► Specification 規格

600⁺

Corner Radius series - 4 flutes

■ 4刃圓鼻立銑刀

切削
條件表
P48
Cutting Condition600
NanoHRC
▶ 55

35°

R

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	l 刃長	L 全長	D 柄徑	Z 刃數
P-RTA020024 AlTiN	2	0.2	6	50	4	4
P-RTA020034 AlTiN	2	0.3	6	50	4	4
P-RTA020054 AlTiN	2	0.5	6	50	4	4
P-RTA025024 AlTiN	2.5	0.2	8	50	4	4
P-RTA030024 AlTiN	3	0.2	8	50	3	4
P-RTA030034 AlTiN	3	0.3	8	50	3	4
P-RTA030054 AlTiN	3	0.5	8	50	3	4
P-RTA030104 AlTiN	3	1	8	50	3	4
P-RTA430024 AlTiN	3	0.2	8	50	4	4
P-RTA430034 AlTiN	3	0.3	8	50	4	4
P-RTA430054 AlTiN	3	0.5	8	50	4	4
P-RTA430104 AlTiN	3	1	8	50	4	4
P-RTA040024 AlTiN	4	0.2	10	50	4	4
P-RTA040034 AlTiN	4	0.3	10	50	4	4
P-RTA040054 AlTiN	4	0.5	10	50	4	4
P-RTA040104 AlTiN	4	1	10	50	4	4
P-RTA040154 AlTiN	4	1.5	10	50	4	4
P-RTA050024 AlTiN	5	0.2	13	50	6	4
P-RTA050034 AlTiN	5	0.3	13	50	6	4
P-RTA050054 AlTiN	5	0.5	13	50	6	4
P-RTA050104 AlTiN	5	1	13	50	6	4
P-RTA060024 AlTiN	6	0.2	15	50	6	4
P-RTA060034 AlTiN	6	0.3	15	50	6	4
P-RTA060054 AlTiN	6	0.5	15	50	6	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼				Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC			
○	◎	◎	○			○		

► Specification 規格

600⁺

Corner Radius series - 4 flutes

■ 4刃圓鼻立銑刀

切削
條件表 **P48**
Cutting Condition

600
Nano

HRC
▶ 55

35°

R

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	l 刃長	L 全長	D 柄徑	Z 刃數
P-RTA060104 AlTiN	6	1	15	50	6	4
P-RTA060154 AlTiN	6	1.5	15	50	6	4
P-RTA060204 AlTiN	6	2	15	50	6	4
P-RTA080034 AlTiN	8	0.3	20	60	8	4
P-RTA080054 AlTiN	8	0.5	20	60	8	4
P-RTA080104 AlTiN	8	1	20	60	8	4
P-RTA080154 AlTiN	8	1.5	20	60	8	4
P-RTA080204 AlTiN	8	2	20	60	8	4
P-RTA080254 AlTiN	8	2.5	20	60	8	4
P-RTA080304 AlTiN	8	3	20	60	8	4
P-RTA100034 AlTiN	10	0.3	25	75	10	4
P-RTA100054 AlTiN	10	0.5	25	75	10	4
P-RTA100104 AlTiN	10	1	25	75	10	4
P-RTA100154 AlTiN	10	1.5	25	75	10	4
P-RTA100204 AlTiN	10	2	25	75	10	4
P-RTA100254 AlTiN	10	2.5	25	75	10	4
P-RTA100304 AlTiN	10	3	25	75	10	4
P-RTA120034 AlTiN	12	0.3	30	75	12	4
P-RTA120054 AlTiN	12	0.5	30	75	12	4
P-RTA120104 AlTiN	12	1	30	75	12	4
P-RTA120154 AlTiN	12	1.5	30	75	12	4
P-RTA120204 AlTiN	12	2	30	75	12	4
P-RTA120254 AlTiN	12	2.5	30	75	12	4
P-RTA120304 AlTiN	12	3	30	75	12	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	◎	◎	○			○			

► Specification 規格

600⁺

切削
條件表 **P47**
Cutting Condition

Corner Radius - Long Shank - 2 flutes

■ 2刃長柄圓鼻立銑刀

600
Nano

HRC
55

35°

R

AlTiN

圓鼻銑刀

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm



MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刃徑	R 角	ℓ 刃長	L 全長	D 柄徑	Z 刃數
P-LRTA030032 AlTiN	3	0.3	8	75	3	2
P-LRTA030052 AlTiN	3	0.5	8	75	3	2
P-LRTA030102 AlTiN	3	1	8	75	3	2
P-LRTA040032 AlTiN	4	0.3	10	75	4	2
P-LRTA040052 AlTiN	4	0.5	10	75	4	2
P-LRTA040102 AlTiN	4	1	10	75	4	2
P-LRTA040152 AlTiN	4	1.5	10	75	4	2
P-LRTA060032 AlTiN	6	0.3	15	100	6	2
P-LRTA060052 AlTiN	6	0.5	15	100	6	2
P-LRTA060102 AlTiN	6	1	15	100	6	2
P-LRTA060152 AlTiN	6	1.5	15	100	6	2
P-LRTA060202 AlTiN	6	2	15	100	6	2
P-LRTA080032 AlTiN	8	0.3	20	100	8	2
P-LRTA080052 AlTiN	8	0.5	20	100	8	2
P-LRTA080102 AlTiN	8	1	20	100	8	2
P-LRTA080152 AlTiN	8	1.5	20	100	8	2
P-LRTA080202 AlTiN	8	2	20	100	8	2
P-LRTA080252 AlTiN	8	2.5	20	100	8	2
P-LRTA080302 AlTiN	8	3	20	100	8	2
P-LRTA100032 AlTiN	10	0.3	25	100	10	2
P-LRTA100052 AlTiN	10	0.5	25	100	10	2
P-LRTA100102 AlTiN	10	1	25	100	10	2
P-LRTA100152 AlTiN	10	1.5	25	100	10	2
P-LRTA100202 AlTiN	10	2	25	100	10	2
P-LRTA100252 AlTiN	10	2.5	25	100	10	2
P-LRTA100302 AlTiN	10	3	25	100	10	2
P-LRTA120032 AlTiN	12	0.3	30	100	12	2
P-LRTA120052 AlTiN	12	0.5	30	100	12	2
P-LRTA120102 AlTiN	12	1	30	100	12	2
P-LRTA120152 AlTiN	12	1.5	30	100	12	2
P-LRTA120202 AlTiN	12	2	30	100	12	2
P-LRTA120252 AlTiN	12	2.5	30	100	12	2
P-LRTA120302 AlTiN	12	3	30	100	12	2

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	◎	◎	○			○			

► Specification 規格

600⁺切 削
條件表 **P48**
Cutting Condition

Corner Radius - Long Shank - 4 flutes

■ 4刃長柄圓鼻立銑刀

600
NanoHRC
55

35°

R

AlTiN

● Micro Grain Carbide

● WC=90 Co=10 HV30=1571 Rupture=3750N/mm² Grain Size=0.6μm

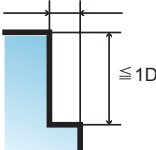
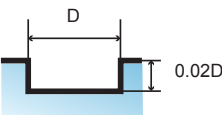
MODE	Diameter	Corner Radius	Flute Length	Full Length	Shank Diameter	Flutes
型號	d 刀徑	R 角	刀長	L 全長	D 柄徑	Z 刃數
P-LRTA030034 AlTiN	3	0.3	8	75	3	4
P-LRTA030054 AlTiN	3	0.5	8	75	3	4
P-LRTA030104 AlTiN	3	1	8	75	3	4
P-LRTA040034 AlTiN	4	0.3	10	75	4	4
P-LRTA040054 AlTiN	4	0.5	10	75	4	4
P-LRTA040104 AlTiN	4	1	10	75	4	4
P-LRTA040154 AlTiN	4	1.5	10	75	4	4
P-LRTA060034 AlTiN	6	0.3	15	100	6	4
P-LRTA060054 AlTiN	6	0.5	15	100	6	4
P-LRTA060104 AlTiN	6	1	15	100	6	4
P-LRTA060154 AlTiN	6	1.5	15	100	6	4
P-LRTA060204 AlTiN	6	2	15	100	6	4
P-LRTA080034 AlTiN	8	0.3	20	100	8	4
P-LRTA080054 AlTiN	8	0.5	20	100	8	4
P-LRTA080104 AlTiN	8	1	20	100	8	4
P-LRTA080154 AlTiN	8	1.5	20	100	8	4
P-LRTA080204 AlTiN	8	2	20	100	8	4
P-LRTA080254 AlTiN	8	2.5	20	100	8	4
P-LRTA080304 AlTiN	8	3	20	100	8	4
P-LRTA100034 AlTiN	10	0.3	25	100	10	4
P-LRTA100054 AlTiN	10	0.5	25	100	10	4
P-LRTA100104 AlTiN	10	1	25	100	10	4
P-LRTA100154 AlTiN	10	1.5	25	100	10	4
P-LRTA100204 AlTiN	10	2	25	100	10	4
P-LRTA100254 AlTiN	10	2.5	25	100	10	4
P-LRTA100304 AlTiN	10	3	25	100	10	4
P-LRTA120034 AlTiN	12	0.3	30	100	12	4
P-LRTA120054 AlTiN	12	0.5	30	100	12	4
P-LRTA120104 AlTiN	12	1	30	100	12	4
P-LRTA120154 AlTiN	12	1.5	30	100	12	4
P-LRTA120204 AlTiN	12	2	30	100	12	4
P-LRTA120254 AlTiN	12	2.5	30	100	12	4
P-LRTA120304 AlTiN	12	3	30	100	12	4

Application 適用材質：

◎ Recommend 最適合 ○ Suitable 適合 X Not Recommend 不建議

carbon steel, Alloy steel 炭素鋼,合金鋼	Pre-hardened steel 預硬鋼	High-hardened 高硬度鋼					Stainless steel 不 鋼	Copper alloy 銅合金,銅	Aluminun alloy 鋁合金
	~45HRC	~50HRC	~55HRC	~60HRC	~65HRC				
○	◎	◎	○			○			

• P-SSE/P-MSE/P-SE 2 FLUTES SLOTTING
P-SSE/P-MSE/P-SE 2刃 溝銑

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼			
			~32HRC		33~41HRC		42~50HRC	
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
1	47,500	280	17,500	96	12,500	72	11,000	52
1.5	32,000	256	12,500	96	8,900	72	7,900	52
2	24,000	248	9,700	104	7,000	72	6,300	56
2.5	20,000	280	8,200	128	6,100	72	5,300	56
3	16,000	320	6,900	136	5,300	80	4,400	60
3.5	14,000	336	6,000	152	4,600	96	3,800	64
4	12,000	360	5,400	168	4,200	100	3,500	72
4.5	10,500	400	5,100	192	3,900	104	3,200	76
5	9,500	432	4,800	216	3,500	104	3,000	80
5.5	8,800	432	4,400	216	3,200	104	2,700	80
6	7,900	424	4,000	216	2,900	104	2,500	80
6.5	7,500	424	3,700	216	2,700	104	2,300	80
7	6,900	424	3,400	216	2,500	104	2,100	80
7.5	6,400	424	3,200	216	2,300	104	2,000	80
8	5,900	416	3,000	208	2,200	100	1,900	80
8.5	5,600	416	2,800	208	2,000	100	1,700	80
9	5,300	408	2,600	208	1,900	100	1,500	80
9.5	5,100	408	2,500	208	1,800	100	1,400	76
10	4,700	400	2,400	200	1,700	100	1,500	76
11	4,400	400	2,200	200	1,600	100	1,100	76
12	4,000	408	2,000	200	1,400	100	1,200	76
16	3,000	320	1,500	160	1,100	92	800	64
18	2,700	288	1,300	144	900	80	700	56
20	2,400	240	1,200	120	800	72	600	48
DEPTH OF CUT 加工深度	$\leq 0.02D$  							

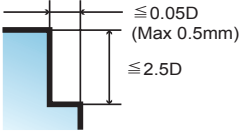
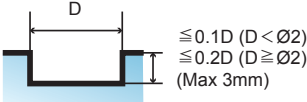
• P-LNT 2 FLUTES SLOTING P-LNT 2刃 溝銑

WORK MATERIAL 被切削材		COPPER, COPPER ALLOY 銅、鋁合金			MILD STEELS, CARBON STEELS, SS400、S55C、FC250、 NAK55 一般構造用鋼、碳素鋼			HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELSSKT、 SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼					
					~32HRC			33~41HRC			42~50HRC		
MILL DIA. (mm) 直徑	(FLUTE LENGTH) 有效長	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap
0.5	2	38,500	480	0.054	32,000	400	0.045	32,000	320	0.038	29,000	240	0.030
	4	33,500	384	0.025	28,000	320	0.021	28,000	256	0.018	25,000	200	0.014
	6	26,500	336	0.007	22,000	280	0.006	22,000	176	0.005	20,000	144	0.004
0.6	2	38,500	576	0.065	32,000	480	0.054	32,000	320	0.045	27,000	240	0.036
	4	33,500	432	0.048	28,000	360	0.040	28,000	240	0.033	25,000	160	0.026
	6	26,500	240	0.022	22,000	200	0.018	22,000	160	0.015	20,000	120	0.012
0.7	4	33,500	432	0.055	28,000	360	0.046	28,000	240	0.039	22,000	240	0.031
	6	33,500	432	0.035	28,000	360	0.029	28,000	160	0.025	22,000	160	0.020
0.8	4	38,500	576	0.064	32,000	480	0.053	32,000	480	0.044	25,000	320	0.035
	6	31,000	432	0.041	26,000	360	0.034	26,000	320	0.028	21,000	240	0.022
	8	26,500	336	0.290	22,000	280	0.024	22,000	240	0.020	18,000	200	0.016
0.9	6	36,000	960	0.071	30,000	800	0.059	28,000	624	0.050	22,000	480	0.040
	8	31,000	768	0.046	26,000	640	0.038	25,000	480	0.032	19,000	320	0.025
	10	24,000	576	0.032	20,000	480	0.027	20,000	400	0.023	16,000	240	0.018
1.0	6	32,500	960	0.084	27,000	800	0.070	26,000	720	0.060	20,000	480	0.040
	8	27,500	768	0.048	23,000	640	0.040	22,000	560	0.040	18,000	320	0.030
	10	23,000	576	0.036	19,000	480	0.030	18,000	400	0.028	15,000	240	0.020
	12	23,000	576	0.024	19,000	480	0.020	18,000	400	0.019	15,000	240	0.010
	16	18,000	288	0.010	15,000	240	0.008	15,000	240	0.007	12,000	160	0.006
1.2	6	27,500	960	0.096	23,000	800	0.080	22,000	720	0.070	18,000	560	0.060
	8	24,000	672	0.084	20,000	560	0.070	19,000	560	0.050	17,000	480	0.050
	10	24,000	672	0.060	20,000	560	0.050	19,000	560	0.040	14,000	320	0.040
	12	20,500	576	0.048	17,000	480	0.040	16,000	400	0.030	14,000	320	0.030
1.4	6	24,000	960	0.156	20,000	800	0.013	19,000	720	0.110	15,000	480	0.090
	10	21,500	768	0.072	18,000	640	0.050	17,000	560	0.040	13,000	320	0.030
	16	18,000	576	0.036	15,000	480	0.030	14,000	400	0.020	11,000	240	0.020
1.5	6	21,500	960	0.168	18,000	800	0.014	18,000	720	0.110	14,000	480	0.090
	8	19,000	768	0.120	16,000	640	0.010	15,000	560	0.080	12,000	320	0.070
	10	19,000	768	0.096	16,000	640	0.080	15,000	560	0.070	12,000	320	0.050
	12	19,000	768	0.072	16,000	640	0.060	15,000	560	0.050	12,000	320	0.040
	14	19,000	768	0.060	16,000	640	0.050	15,000	560	0.045	12,000	320	0.035
	16	17,000	576	0.060	14,000	480	0.050	13,000	400	0.040	10,000	240	0.030
	18	17,000	576	0.036	14,000	480	0.030	13,000	400	0.020	10,000	240	0.020
	20	14,500	400	0.024	12,000	336	0.020	11,000	304	0.015	10,000	240	0.010
1.6	6	20,500	960	0.180	17,000	800	0.150	17,000	720	0.130	13,000	480	0.100
	8	18,000	768	0.168	15,000	640	0.140	15,000	560	0.120	11,000	320	0.100
	10	18,000	768	0.132	15,000	640	0.110	15,000	560	0.090	11,000	320	0.070
	12	18,000	768	0.084	15,000	640	0.070	15,000	560	0.060	11,000	320	0.050
	14	18,000	768	0.072	15,000	640	0.060	15,000	560	0.050	11,000	320	0.040
	16	15,500	576	0.060	13,000	480	0.050	13,000	400	0.040	9,000	240	0.035
	18	15,500	576	0.048	13,000	480	0.040	13,000	400	0.030	9,000	240	0.030
1.8	8	19,000	1,040	0.252	16,000	880	0.210	15,000	800	0.170	12,000	560	0.130
	14	17,000	768	0.096	14,000	640	0.080	14,000	560	0.060	10,000	400	0.050
	20	14,500	576	0.048	12,000	480	0.040	12,000	400	0.040	8,000	320	0.030
2.0	6	18,000	1,040	0.372	15,000	880	0.310	14,000	800	0.260	11,000	560	0.210
	8	18,000	1,040	0.312	15,000	880	0.260	14,000	800	0.220	11,000	560	0.180
	10	15,500	768	0.288	13,000	640	0.240	12,000	560	0.200	9,000	400	0.160
	12	15,500	768	0.156	13,000	640	0.130	12,000	560	0.110	9,000	400	0.090
	14	15,500	768	0.132	13,000	640	0.110	12,000	560	0.090	9,000	400	0.070
	16	15,500	768	0.096	13,000	640	0.080	12,000	560	0.070	9,000	400	0.060
	18	15,500	768	0.084	13,000	640	0.070	12,000	560	0.060	9,000	400	0.050
2.5	20	13,000	576	0.060	11,000	480	0.050	10,000	400	0.050	7,000	320	0.040
	8	14,500	1,040	0.468	12,000	880	0.039	11,000	800	0.330	9,000	560	0.260
	10	14,500	1,040	0.396	12,000	880	0.033	11,000	800	0.280	9,000	560	0.220
	12	14,500	1,040	0.276	12,000	880	0.230	11,000	800	0.190	9,000	560	0.150
	14	12,000	768	0.204	12,000	640	0.170	9,000	560	0.140	7,000	400	0.110
	16	12,000	768	0.144	12,000	640	0.120	9,000	560	0.100	7,000	400	0.080
	20	12,000	768	0.108	12,000	640	0.090	9,000	560	0.090	7,000	400	0.060

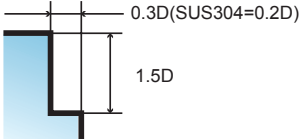
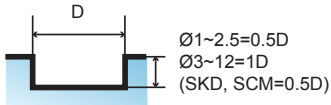
• P-LNT 2 FLUTES SLOTTING P-LNT 2刃 溝銑

WORK MATERIAL 被切削材		COPPER, COPPER ALLOY 銅、鋁合金			MILD STEELS, CARBON STEELS, SS400、S55C、FC250、 NAK55 一般構造用鋼、碳素鋼			HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELSSKT、 SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼					
					~32HRC			33~41HRC			42~50HRC		
MILL DIA. (mm) 直徑	(FLUTE LENGTH) 有效長	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	ap
3.0	8	12,000	1,040	0.432	10,000	880	0.360	10,000	800	0.300	8,000	560	0.240
	10	12,000	1,040	0.348	10,000	880	0.290	10,000	800	0.240	8,000	560	0.190
	12	12,000	1,040	0.324	10,000	880	0.270	10,000	800	0.230	8,000	560	0.180
	16	12,000	768	0.240	10,000	640	0.200	9,000	560	0.170	6,000	400	0.130
	20	12,000	768	0.156	10,000	640	0.130	9,000	560	0.110	6,000	400	0.080
	25	12,000	768	0.132	10,000	640	0.110	9,000	560	0.090	6,000	400	0.070
4.0	12	8,550	1,080	0.456	7,000	880	0.380	7,000	800	0.320	6,000	560	0.260
	16	8,550	1,080	0.432	7,000	880	0.360	7,000	800	0.300	6,000	560	0.240
	20	8,550	776	0.408	7,000	640	0.340	6,000	560	0.280	5,000	400	0.220
	25	8,550	776	0.312	7,000	640	0.260	6,000	560	0.220	5,000	400	0.180
	30	8,550	776	0.228	7,000	640	0.190	6,000	560	0.160	5,000	400	0.130
	35	8,550	776	0.204	7,000	640	0.170	6,000	560	0.140	5,000	400	0.110
DEPTH OF CUT 加工深度													

● P-LET 2 FLUTES SIDE MILLING P-LET 2刃 側銑

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼			
			~32HRC		33~41HRC		42~50HRC	
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
1	9,800	96	5,700	36	5,400	40	-	-
1.5	7,000	104	3,900	36	3,600	40	-	-
2	5,200	96	3,000	36	2,800	40	-	-
2.5	4,100	112	2,500	44	2,500	40	-	-
3	3,400	120	2,100	48	2,100	40	1,900	24
3.5	2,800	128	1,800	56	1,800	44	1,600	24
4	2,400	136	1,600	60	1,600	52	1,400	28
4.5	2,100	160	1,500	68	1,500	52	1,300	32
5	2,000	168	1,400	76	1,400	52	1,300	32
5.5	1,800	168	1,300	76	1,300	52	1,100	32
6	1,600	168	1,200	76	1,200	52	1,000	32
8	1,100	160	900	76	900	52	800	32
10	900	160	700	72	700	52	630	32
12	800	160	600	72	600	52	525	32
DEPTH OF CUT 加工深度	 $\leq 0.05D$ (Max 0.5mm) $\leq 2.5D$  $\leq 0.1D$ ($D < \varnothing 2$) $\leq 0.2D$ ($D \geq \varnothing 2$) (Max 3mm)							

• P-MPE/P-PE (45°) 3 FLUTES SLOTTING
P-MPE/P-PE(45°) 3刃 溝銑

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼			
			~32HRC		33~41HRC		42~50HRC	
直徑 MILL DIA. (mm)	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
1	47,500	420	17,500	144	12,500	108	11,000	78
1.5	32,000	384	12,500	144	8,900	108	7,900	78
2	24,000	372	9,700	156	7,000	108	6,300	84
2.5	20,000	420	8,200	192	6,100	108	5,300	84
3	16,000	480	6,900	204	5,300	120	4,400	90
3.5	14,000	504	6,000	228	4,600	144	3,800	96
4	12,000	540	5,400	252	4,200	150	3,500	108
4.5	10,500	600	5,100	288	3,900	156	3,200	114
5	9,500	648	4,800	324	3,500	156	3,000	120
5.5	8,800	648	4,400	324	3,200	156	2,700	120
6	7,900	636	4,000	324	2,900	156	2,500	120
6.5	7,500	636	3,700	324	2,700	156	2,300	120
7	6,900	636	3,400	324	2,500	156	2,100	120
7.5	6,400	636	3,200	324	2,300	156	2,000	120
8	5,900	624	3,000	312	2,200	150	1,900	120
8.5	5,600	624	2,800	312	2,000	150	1,700	120
9	5,300	612	2,600	312	1,900	150	1,500	120
9.5	5,100	612	2,500	312	1,800	150	1,400	114
10	4,700	600	2,400	300	1,700	150	1,500	114
11	4,400	600	2,200	300	1,600	150	1,100	114
12	4,000	612	2,000	300	1,400	150	1,200	114
16	3,000	480	1,500	240	1,100	138	800	96
18	2,700	432	1,300	216	900	120	700	84
20	2,400	360	1,200	180	800	108	600	72
DEPTH OF CUT 加工深度	 							

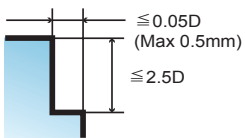
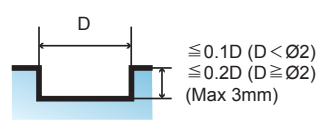
• P-SSE/P-MSE/P-SE/P-MPE/P-PE(45°) 4T SIDE MILLING
P-SSE/P-MSE/P-SE/P-MPE/P-PE(45°) 4刃 側銑

WORK MATERIAL 被切削材	MILD STEELS, CARBON STEELS, CAST IRON SS400、S55C、FC250 (~750N/mm ²) 一般構造用鋼、碳素 鋼、鑄鐵		ALLOY STEELS, TOOL STEELS SCM、SKT、SKS、SKD (~30HRC) 合金鋼、工具鋼		HARDENED STEELS, PREHARDENED STEELS SKT、SKD、NAK55、 HPM1 (30~38HRC) 調質鋼、預硬鋼		STAINLESS STEELS, HARDENED STEELS SUS304、SKD (38~45HRC)不銹鋼、 調質鋼		HARDENED STEELS, TITANIUM ALLOY STEELS (45~55HRC) 調質鋼、鈦合金		HEAT RESISTANT ALLOY STEELS INCONEL 耐熱合金鋼、高鎳合金	
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
3	12,500	880	9,550	672	8,100	500	7,650	492	7,400	436	3,800	176
4	9,750	960	7,550	788	6,400	544	6,050	568	5,850	504	3,000	192
5	7,950	1,040	6,150	840	5,250	580	4,950	620	4,800	536	2,450	196
6	6,750	1,280	5,250	960	4,450	712	4,200	668	4,050	556	2,100	200
8	5,050	1,240	3,950	880	3,350	652	3,150	648	3,050	540	1,600	180
10	4,100	1,160	3,200	840	2,700	580	2,550	572	2,450	508	1,250	172
12	3,400	1,120	2,650	800	2,250	576	2,100	540	2,050	484	1,050	168
16	2,550	960	2,000	752	1,700	508	1,600	444	1,550	404	765	168
20	2,050	788	1,600	604	1,350	472	1,250	412	1,250	368	635	160
25	1,650	704	1,250	540	1,100	428	1,000	388	990	316	510	148
DEPTH OF CUT 加工深度												

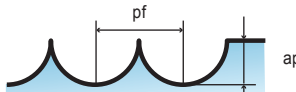
• P-SSE/P-MSE/P-SE/P-MPE/P-PE(45°) 4刃 溝銑
P-SSE/P-MSE/P-SE/P-MPE/P-PE(45°) 4T SLOTTING

WORK MATERIAL 被切削材	MILD STEELS, CARBON STEELS, CAST IRON SS400、S55C、FC250 (~750N/mm ²) 一般構造用鋼、碳素 鋼、鑄鐵		ALLOY STEELS, TOOL STEELS SCM、SKT、SKS、SKD (~30HRC) 合金鋼、工具鋼		HARDENED STEELS, PREHARDENED STEELS SKT、SKD、NAK55、 HPM1 (30~38HRC) 調質鋼、預硬鋼		STAINLESS STEELS, HARDENED STEELS SUS304、SKD (38~45HRC)不銹鋼、調 質鋼		HARDENED STEELS, TITANIUM ALLOY STEELS (45~55HRC) 調質鋼、鈦合金		HEAT RESISTANT ALLOY STEELS INCONEL 耐熱合金鋼、高鎳合金	
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
3	10,500	584	8,550	544	7,850	416	7,450	368	7,200	352	2,500	100
4	7,750	584	6,400	620	5,900	416	5,550	412	5,400	396	1,900	108
5	6,200	588	5,100	604	4,700	436	4,450	436	4,300	428	1,500	116
6	5,150	592	4,250	508	3,950	460	3,700	456	3,600	436	1,250	116
8	3,850	480	3,200	440	2,950	440	2,800	420	2,700	408	945	124
10	3,100	464	2,550	432	2,350	384	2,250	380	2,150	364	760	116
12	2,600	448	2,150	380	1,950	368	1,850	352	1,800	348	630	116
16	1,950	444	1,600	344	1,500	296	1,400	296	1,350	292	475	88
20	1,550	380	1,300	304	1,200	284	1,100	264	1,100	264	380	88
25	1,250	360	1,000	292	945	252	890	228	865	188	300	84
DEPTH OF CUT 加工深度												

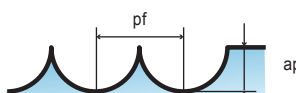
• P-LET 4 FLUTES SIDE MILLING
P-LET 4刃 側銑

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼		
			~32HRC		33~41HRC		42~50HRC
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速
1	5,880	96	3,420	36	3,240	40	-
1.5	4,200	104	2,340	36	2,160	40	-
2	3,120	96	1,800	36	1,680	40	-
2.5	2,460	112	1,500	44	1,500	40	-
3	2,040	120	1,260	48	1,260	40	1,140
3.5	1,680	128	1,080	56	1,080	44	960
4	1,440	136	960	60	960	52	840
4.5	1,260	160	900	68	900	52	780
5	1,200	168	840	76	840	52	780
5.5	1,080	168	780	76	780	52	660
6	960	168	720	76	720	52	600
8	660	160	540	76	540	52	480
10	540	160	420	72	420	52	378
12	480	160	360	72	360	52	315
DEPTH OF CUT 加工深度	 						

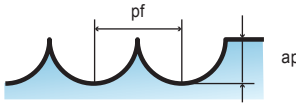
• P-SSB/P-MSB/P-SB 2 FLUTES REGULAR MILLING P-SSB/P-MSB/P-SB 2刃 標準切削

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金				MILD STEELS, CARBON STEELS, SS400・S55C・FC250・NAK55 一般構造用鋼、碳素鋼				HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT・SKD61・NAK80・HPM1・DH 調質鋼、預硬鋼、不銹鋼							
					~32HRC				33~41HRC				42~50HRC			
	R	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度 ap pf		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度 ap pf		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度 ap pf				
R 0.05	40,000	120	0.003	0.005	32,000	60	0.005	0.005	32,000	40	0.005	0.005	32,000	28	0.005	0.005
R 0.1	40,000	240	0.010	0.020	32,000	160	0.010	0.010	32,000	160	0.010	0.010	32,000	160	0.005	0.005
R0.2	40,000	392	0.020	0.080	32,000	328	0.020	0.080	32,000	264	0.040	0.080	32,000	164	0.020	0.040
R0.3	40,000	464	0.030	0.120	32,000	392	0.030	0.120	32,000	336	0.060	0.120	32,000	212	0.030	0.060
R0.4	40,000	528	0.040	0.160	32,000	440	0.040	0.160	31,500	336	0.080	0.160	27,500	232	0.040	0.080
R0.5	32,000	600	0.050	0.200	31,500	496	0.050	0.200	25,000	320	0.100	0.200	22,000	228	0.050	0.100
R1	19,000	600	0.200	0.400	15,500	496	0.200	0.400	12,500	320	0.200	0.400	11,000	232	0.100	0.200
R1.5	12,500	608	0.300	0.600	10,500	504	0.300	0.600	8,450	324	0.300	0.600	7,400	232	0.150	0.300
R2	9,500	608	0.400	0.800	7,950	504	0.400	0.800	6,350	356	0.400	0.800	5,550	296	0.200	0.400
R3	6,300	640	0.600	1.200	5,300	536	0.600	1.200	4,200	372	0.600	1.200	3,700	312	0.300	0.600
R4	4,750	760	0.800	1.600	3,950	632	0.800	1.600	3,150	444	0.800	1.600	2,750	364	0.400	0.800
R5	3,800	712	1.000	2.000	3,150	596	1.000	2.000	2,500	420	1.000	2.000	2,200	344	0.500	1.000
R6	3,170	672	1.200	2.400	2,650	560	1.200	2.400	2,100	392	1.200	2.400	1,850	344	0.600	1.200
R8	2,400	504	1.600	3.200	1,990	420	1.600	3.200	1,580	296	1.600	3.200	1,390	260	0.800	1.600
R10	1,900	400	2.000	4.000	1,590	336	2.000	4.000	1,260	232	2.000	4.000	1,110	208	1.000	2.000
DEPTH OF CUT 加工深度																

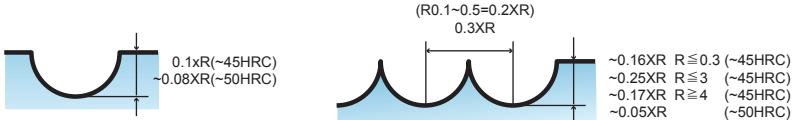
• P-SSB/P-MSB/P-SB 2 FLUTES HIGH-SPEED LIGHT MILLING P-SSB/P-MSB/P-SB 2刃 高速切削

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金				MILD STEELS, CARBON STEELS, SS400・S55C・FC250・NAK55 一般構造用鋼、碳素鋼				HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT・SKD61・NAK80・HPM1・DH 調質鋼、預硬鋼、不銹鋼							
					~32HRC				33~41HRC				42~50HRC			
	R	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度
			ap	pf			ap	pf			ap	pf			ap	pf
R 0.5	50,000	2,680	0.020	0.050	50,000	2,240	0.020	0.050	50,000	2,000	0.020	0.050	47,500	1,800	0.020	0.050
R1	31,500	2,680	0.040	0.100	25,000	2,240	0.040	0.100	24,500	2,000	0.040	0.100	23,500	1,800	0.040	0.100
R1.5	21,000	2,680	0.060	0.150	16,500	2,240	0.060	0.150	16,000	2,000	0.060	0.150	15,500	1,800	0.060	0.150
R2	15,500	3,264	0.080	0.200	15,500	2,720	0.080	0.200	15,000	2,200	0.080	0.200	13,500	1,960	0.080	0.200
R3	10,500	4,128	0.120	0.300	13,500	3,440	0.300	0.600	11,500	2,200	0.300	0.600	9,500	1,800	0.120	0.300
R4	7,900	3,072	0.160	0.400	10,000	2,560	0.400	0.800	8,950	1,680	0.400	0.800	7,150	1,360	0.160	0.400
R5	6,300	2,496	0.200	0.500	8,250	2,080	0.500	1.000	7,150	1,360	0.500	1.000	5,700	1,080	0.200	0.500
R6	5,250	2,064	0.240	0.600	6,850	1,720	0.500	2.400	5,950	1,120	0.500	2.400	4,750	880	0.240	0.600
R8	4,950	1,240	0.320	0.800	4,110	1,032	0.500	3.200	4,460	840	0.500	3.200	3,560	656	0.320	0.800
R10	3,950	992	0.400	1.000	3,290	824	0.500	4.000	3,570	672	0.500	4.000	2,850	528	0.320	1.000
DEPTH OF CUT 加工深度																

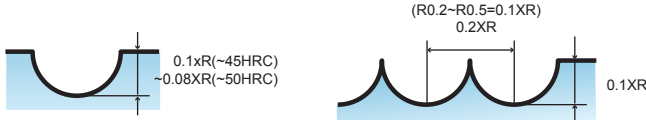
• P-LNBT 2 FLUTES REGULAR MILLING P-LNBT 2刃 標準切削

WORK MATERIAL 被切削材		COPPER, COPPER ALLOY 銅、鋁合				MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼				HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼								
						~32HRC				33~41HRC				42~50HRC				
R	(FLUTE LENGTH) 有效長	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	DEPTH OF CUT 加工深度		
				ap	pf			ap	pf			ap	pf			ap	pf	
0.25	2	32,000	480	0.040	0.050	32,000	320	0.020	0.025	32,000	240	0.020	0.020	32,000	240	0.010	0.010	
	4	27,000	360	0.040	0.050	27,000	240	0.020	0.025	27,000	160	0.020	0.020	27,000	160	0.010	0.010	
	6	21,000	240	0.020	0.030	20,000	160	0.010	0.015	20,000	120	0.010	0.010	20,000	120	0.010	0.010	
0.30	2	32,000	540	0.045	0.120	32,000	360	0.030	0.060	32,000	240	0.030	0.050	32,000	240	0.030	0.030	
	4	30,000	300	0.045	0.120	25,000	200	0.030	0.060	24,000	160	0.030	0.040	24,000	160	0.030	0.030	
	6	25,000	180	0.045	0.120	20,000	120	0.030	0.060	20,000	120	0.030	0.040	20,000	120	0.020	0.020	
0.40	4	27,000	540	0.060	0.160	23,000	360	0.040	0.080	21,000	240	0.040	0.060	21,000	240	0.040	0.040	
	6	24,000	300	0.060	0.120	21,000	200	0.040	0.080	19,000	160	0.040	0.050	19,000	160	0.020	0.025	
	8	22,000	180	0.060	0.120	19,000	120	0.040	0.060	17,000	120	0.040	0.050	17,000	120	0.020	0.025	
0.50	6	21,000	360	0.075	0.200	19,000	240	0.050	0.100	16,000	160	0.050	0.080	16,000	160	0.050	0.050	
	8	21,000	360	0.075	0.150	19,000	240	0.050	0.075	16,000	160	0.050	0.060	16,000	160	0.030	0.030	
	10	18,000	240	0.060	0.120	17,000	160	0.030	0.050	14,000	120	0.030	0.040	14,000	120	0.010	0.015	
	12	18,000	240	0.060	0.120	17,000	160	0.030	0.050	14,000	120	0.030	0.040	14,000	120	0.010	0.015	
0.60	6	20,000	360	0.090	0.240	17,000	240	0.060	0.120	14,000	160	0.060	0.100	14,000	160	0.060	0.060	
	8	20,000	360	0.090	0.240	17,000	240	0.060	0.120	14,000	160	0.060	0.100	14,000	160	0.060	0.060	
	10	20,000	360	0.090	0.180	17,000	240	0.060	0.090	14,000	160	0.060	0.070	14,000	160	0.030	0.030	
	12	16,000	240	0.090	0.180	14,000	160	0.060	0.090	11,000	120	0.060	0.070	11,000	120	0.030	0.030	
0.70	16	13,000	240	0.090	0.180	12,000	160	0.060	0.090	9,000	120	0.040	0.070	9,000	120	0.010	0.030	
0.75	6	18,000	600	0.120	0.300	15,000	400	0.080	0.150	12,000	280	0.080	0.120	12,000	240	0.080	0.100	
	8	17,000	360	0.120	0.300	15,000	240	0.080	0.150	12,000	200	0.080	0.120	12,000	200	0.080	0.100	
	10	17,000	360	0.120	0.300	15,000	240	0.080	0.150	12,000	200	0.080	0.120	12,000	200	0.080	0.100	
	12	17,000	360	0.120	0.240	15,000	240	0.080	0.120	12,000	200	0.080	0.090	12,000	200	0.050	0.060	
	14	17,000	360	0.120	0.240	15,000	240	0.080	0.120	12,000	200	0.080	0.090	12,000	200	0.050	0.060	
	16	13,000	240	0.090	0.180	12,000	160	0.060	0.010	9,500	120	0.060	0.070	9,500	120	0.010	0.030	
	18	13,000	240	0.090	0.180	12,000	160	0.060	0.010	9,500	120	0.060	0.070	9,500	120	0.010	0.030	
	20	13,000	240	0.090	0.180	12,000	160	0.060	0.010	9,500	120	0.060	0.070	9,500	120	0.010	0.030	
0.80	8	16,500	360	0.120	0.320	14,000	240	0.080	0.160	11,000	200	0.080	0.130	11,000	200	0.080	0.100	
	12	16,500	360	0.120	0.240	14,000	240	0.080	0.120	11,000	200	0.080	0.080	11,000	200	0.050	0.050	
	16	11,500	240	0.120	0.240	11,000	160	0.080	0.120	9,000	120	0.080	0.080	9,000	120	0.050	0.050	
	20	11,500	240	0.090	0.200	11,000	160	0.060	0.120	9,000	120	0.060	0.075	9,000	120	0.015	0.030	
0.90	8	16,500	480	0.130	0.360	14,000	320	0.090	0.180	11,000	240	0.090	0.160	11,000	240	0.090	0.120	
	20	11,000	240	0.100	0.220	11,000	160	0.060	0.130	8,000	160	0.060	0.080	8,000	160	0.020	0.030	
1.00	8	14,000	840	0.150	0.560	16,500	400	0.100	0.280	10,000	240	0.100	0.280	10,000	240	0.100	0.200	
	10	14,000	600	0.150	0.560	13,000	400	0.100	0.280	10,000	240	0.100	0.280	10,000	240	0.100	0.200	
	12	14,000	600	0.150	0.560	13,000	400	0.100	0.280	10,000	240	0.100	0.280	10,000	240	0.100	0.200	
	14	14,000	600	0.150	0.560	13,000	400	0.100	0.280	10,000	240	0.100	0.280	10,000	240	0.100	0.200	
	16	14,000	600	0.150	0.420	13,000	400	0.100	0.210	10,000	240	0.100	0.180	10,000	240	0.060	0.100	
	18	14,000	600	0.150	0.420	13,000	400	0.100	0.210	10,000	240	0.100	0.180	10,000	240	0.060	0.100	
1.25	20	11,000	300	0.150	0.420	10,000	200	0.100	0.210	8,000	160	0.100	0.180	8,000	160	0.060	0.100	
	20	12,000	480	0.180	0.560	10,000	320	0.120	0.280	8,500	240	0.120	0.200	8,500	240	0.080	0.150	
	1.50	12	10,000	720	0.200	0.840	9,500	480	0.150	0.420	7,500	320	0.150	0.360	7,500	320	0.150	0.300
		16	10,000	360	0.200	0.840	8,500	240	0.150	0.420	6,500	200	0.150	0.360	6,500	200	0.150	0.300
20		10,000	360	0.200	0.840	8,500	240	0.150	0.420	6,500	200	0.150	0.360	6,500	200	0.150	0.300	
25		10,000	360	0.200	0.840	8,500	240	0.150	0.420	6,500	200	0.150	0.300	6,500	200	0.090	0.150	
2.00	12	9,000	720	0.500	1.280	7,500	480	0.200	0.640	6,000	320	0.200	0.600	6,000	320	0.200	0.400	
	16	9,000	720	0.500	1.280	7,500	480	0.200	0.640	6,000	320	0.200	0.600	6,000	320	0.200	0.400	
	20	7,000	480	0.500	1.280	6,000	320	0.200	0.640	5,000	200	0.200	0.600	5,000	200	0.200	0.400	
	25	7,000	480	0.500	1.280	6,000	320	0.200	0.640	5,000	200	0.200	0.600	5,000	200	0.200	0.400	
	30	7,000	480	0.400	1.280	6,000	320	0.200	0.640	5,000	200	0.200	0.560	5,000	200	0.120	0.200	
DEPTH OF CUT 加工深度																		

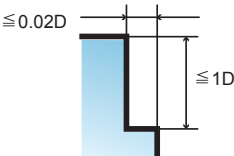
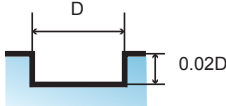
• P-SSB/P-MSB/P-SB 4 FLUTES REGULAR MILLING P-SSB/P-MSB/P-SB 4刃 標準切削

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼			
			~32HRC		33~41HRC		42~50HRC	
R	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
R 0.05	40,000	180	32,000	90	32,000	60	32,000	42
R 0.1	40,000	360	32,000	240	32,000	240	32,000	240
R0.2	40,000	588	32,000	492	32,000	396	32,000	246
R0.3	40,000	696	32,000	588	32,000	504	32,000	318
R0.4	40,000	792	32,000	660	31,500	504	27,500	348
R0.5	32,000	900	31,500	744	25,000	480	22,000	342
R1	19,000	900	15,500	744	12,500	480	11,000	348
R1.5	12,500	912	10,500	756	8,450	486	7,400	348
R2	9,500	912	7,950	756	6,350	534	5,550	444
R3	6,300	960	5,300	804	4,200	558	3,700	468
R4	4,750	1,140	3,950	948	3,150	666	2,750	546
R5	3,800	1,068	3,150	894	2,500	630	2,200	516
R6	3,170	1,008	2,650	840	2,100	588	1,850	516
R8	2,400	756	1,990	630	1,580	444	1,390	390
R10	1,900	600	1,590	504	1,260	348	1,110	312
DEPTH OF CUT 加工深度								

• P-SSB/P-MSB/P-SB 4 FLUTES HIGH-SPEED LIGHT MILLING P-SSB/P-MSB/P-SB 4刃 高速切削

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼			
			~32HRC		33~41HRC		42~50HRC	
R	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
R 0.5	50,000	4,020	50,000	3,360	50,000	3,000	47,500	2,700
R1	31,500	4,020	25,000	3,360	24,500	3,000	23,500	2,700
R1.5	21,000	4,020	16,500	3,360	16,000	3,000	15,500	2,700
R2	15,500	4,896	15,500	4,080	15,000	3,300	13,500	2,940
R3	10,500	6,192	13,500	5,160	11,500	3,300	9,500	2,700
R4	7,900	4,608	10,000	3,840	8,950	2,520	7,150	2,040
R5	6,300	3,744	8,250	3,120	7,150	2,040	5,700	1,620
R6	5,250	3,096	6,850	2,580	5,950	1,680	4,750	1,320
R8	4,950	1,860	4,110	1,548	4,460	1,260	3,560	984
R10	3,950	1,488	3,290	1,236	3,570	1,008	2,850	792
DEPTH OF CUT 加工深度								

• P-RTA/P-LRTA 2 FLUTES SLOTTING
P-RTA/P-LRTA 2刃 溝銑

WORK MATERIAL 被切削材	COPPER, COPPER ALLOY 銅、鋁合金		MILD STEELS, CARBON STEELS, SS400、S55C、FC250、NAK55 一般構造用鋼、碳素鋼		HARDENED STEELS, PREHARDENED STEELS, STAINLESS STEELS SKT、SKD61、NAK80、HPM1、DH 調質鋼、預硬鋼、不銹鋼			
			~32HRC		33~41HRC		42~50HRC	
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
2	24,000	248	9,700	104	7,000	72	6,300	56
3	16,000	320	6,900	136	5,300	80	4,400	60
4	12,000	360	5,400	168	4,200	100	3,500	72
5	9,500	432	4,800	216	3,500	104	3,000	80
6	7,900	424	4,000	216	2,900	104	2,500	80
8	5,900	416	3,000	208	2,200	100	1,900	80
10	4,700	400	2,400	200	1,700	100	1,500	76
12	4,000	408	2,000	200	1,400	100	1,200	76
DEPTH OF CUT 加工深度	 							

• P-RTA/P-LRTA 4 FLUTES SLOTTING P-RTA/P-LRTA 4刃 溝銑

WORK MATERIAL 被切削材	MILD STEELS, CARBON STEELS, CAST IRON SS400、S55C、FC250 (~750N/mm ²) 一般構造用鋼、 碳素鋼、鑄鐵		ALLOY STEELS, TOOL STEELS SCM、SKT、SKS、 SKD (~30HRC) 合金鋼、工具鋼		HARDENED STEELS, PREHARDENED STEELS SKT、SKD、NAK55、 HPM1 (30~38HRC) 調質鋼、預硬鋼		STAINLESS STEELS, HARDENED STEELS SUS304、SKD (38~45HRC) 不銹鋼、調質鋼		HARDENED STEELS, TITANIUM ALLOY STEELS (45~55HRC) 調質鋼、鈦合金		HEAT RESISTANT ALLOY STEELS INCONEL 耐熱合金鋼、 高鎳合金	
MILL DIA. (mm) 直徑	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速	SPEED (min ⁻¹) 迴轉速	FEED (mm/min) 進給速
3	10,500	584	8,550	544	7,850	416	7,450	368	7,200	352	2,500	100
4	7,750	584	6,400	620	5,900	416	5,550	412	5,400	396	1,900	108
5	6,200	588	5,100	604	4,700	436	4,450	436	4,300	428	1,500	116
6	5,150	592	4,250	508	3,950	460	3,700	456	3,600	436	1,250	116
8	3,850	480	3,200	440	2,950	440	2,800	420	2,700	408	945	124
10	3,100	464	2,550	432	2,350	384	2,250	380	2,150	364	760	116
12	2,600	448	2,150	380	1,950	368	1,850	352	1,800	348	630	116
DEPTH OF CUT 加工深度												



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