切削條件表 P423-424
Cutting Condition

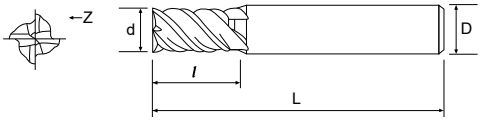
FHP Type - Short Flute - 4 flutes

■ 4刃重切削立銑刀

400 Nano | HRC ▶ 60 | ALTIBN

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm^2 Grain Size=0.4 μm





Purchase Code 採購代碼 : FHPS020.A

HRC ▶ 40
HRC ▶ 45
HRC ▶ 50
HRC ▶ 55
HRC ▶ 60
HRC ▶ 65

UMG - FHPS

Dimension 規格					Purchase Code 採購代碼	
Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Standard Type 標準刀型	Anti-Vibration Design 抗震刀型
d 直徑	l 刃長	L 全長	D 柄徑	Z 刃數	45°	
2	3	50	6	4	FHPS020	FHPS020.A
2.1	3.2	50	6	4	FHPS021	FHPS021.A
2.2	3.3	50	6	4	FHPS022	FHPS022.A
2.3	3.5	50	6	4	FHPS023	FHPS023.A
2.4	3.6	50	6	4	FHPS024	FHPS024.A
2.5	3.8	50	6	4	FHPS025	FHPS025.A
2.6	3.9	50	6	4	FHPS026	FHPS026.A
2.7	4.1	50	6	4	FHPS027	FHPS027.A
2.8	4.2	50	6	4	FHPS028	FHPS028.A
2.9	4.4	50	6	4	FHPS029	FHPS029.A
3	4.5	50	6	4	FHPS030	FHPS030.A
3.1	4.7	50	6	4	FHPS031	FHPS031.A
3.2	4.8	50	6	4	FHPS032	FHPS032.A
3.3	5	50	6	4	FHPS033	FHPS033.A
3.4	5.1	50	6	4	FHPS034	FHPS034.A
3.5	5.3	50	6	4	FHPS035	FHPS035.A
3.6	5.4	50	6	4	FHPS036	FHPS036.A
3.7	5.6	50	6	4	FHPS037	FHPS037.A
3.8	5.7	50	6	4	FHPS038	FHPS038.A
3.9	5.9	50	6	4	FHPS039	FHPS039.A
4	6	50	6	4	FHPS040	FHPS040.A
4.1	6.2	50	6	4	FHPS041	FHPS041.A
4.2	6.3	50	6	4	FHPS042	FHPS042.A
4.3	6.5	50	6	4	FHPS043	FHPS043.A
4.4	6.6	50	6	4	FHPS044	FHPS044.A
4.5	6.8	50	6	4	FHPS045	FHPS045.A
4.6	6.9	50	6	4	FHPS046	FHPS046.A
4.7	7.1	50	6	4	FHPS047	FHPS047.A
4.8	7.2	50	6	4	FHPS048	FHPS048.A
4.9	7.4	50	6	4	FHPS049	FHPS049.A
5	7.5	50	6	4	FHPS050	FHPS050.A
5.1	7.7	50	6	4	FHPS051	FHPS051.A

Application 適用材質：

★ Perfect 最推薦　◎ Excellent 適合　○ Good 佳

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

Unit/單位: mm

切削條件表 P423-424
Cutting Condition

FHP Type - Short Flute - 4 flutes

■ 4刃短刃重切削立銑刀

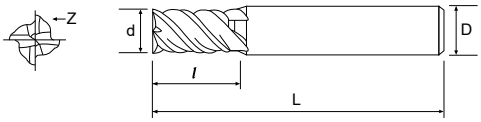
400 Nano | HRC ▶ 60 | ALTIBN

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm² Grain Size=0.4 μm





Purchase Code 採購代碼 : FHPS052.A



UMG - FHPS

Dimension 規格					Purchase Code 採購代碼	
Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Standard Type 標準刀型	Anti-Vibration Design 抗震刀型
d 直徑	l 刃長	L 全長	D 柄徑	Z 刃數	45°	
5.2	7.8	50	6	4	FHPS052	FHPS052.A
5.3	8	50	6	4	FHPS053	FHPS053.A
5.4	8.1	50	6	4	FHPS054	FHPS054.A
5.5	8.3	50	6	4	FHPS055	FHPS055.A
5.6	8.4	50	6	4	FHPS056	FHPS056.A
5.7	8.6	50	6	4	FHPS057	FHPS057.A
5.8	8.7	50	6	4	FHPS058	FHPS058.A
5.9	8.9	50	6	4	FHPS059	FHPS059.A
6	9	50	6	4	FHPS060	FHPS060.A
6.1	9.2	60	8	4	FHPS061	FHPS061.A
6.2	9.3	60	8	4	FHPS062	FHPS062.A
6.3	9.5	60	8	4	FHPS063	FHPS063.A
6.4	9.6	60	8	4	FHPS064	FHPS064.A
6.5	9.8	60	8	4	FHPS065	FHPS065.A
6.6	9.9	60	8	4	FHPS066	FHPS066.A
6.7	10.1	60	8	4	FHPS067	FHPS067.A
6.8	10.2	60	8	4	FHPS068	FHPS068.A
6.9	10.4	60	8	4	FHPS069	FHPS069.A
7	10.5	60	8	4	FHPS070	FHPS070.A
7.1	10.7	60	8	4	FHPS071	FHPS071.A
7.2	10.8	60	8	4	FHPS072	FHPS072.A
7.3	11	60	8	4	FHPS073	FHPS073.A
7.4	11.1	60	8	4	FHPS074	FHPS074.A
7.5	11.3	60	8	4	FHPS075	FHPS075.A
7.6	11.4	60	8	4	FHPS076	FHPS076.A
7.7	11.6	60	8	4	FHPS077	FHPS077.A
7.8	11.7	60	8	4	FHPS078	FHPS078.A
7.9	11.9	60	8	4	FHPS079	FHPS079.A
8	12	60	8	4	FHPS080	FHPS080.A
8.1	12.2	75	10	4	FHPS081	FHPS081.A
8.2	12.3	75	10	4	FHPS082	FHPS082.A
8.3	12.5	75	10	4	FHPS083	FHPS083.A

Application 適用材質 :

★ Perfect 最推薦 ◎ Excellent 適合 ○ Good 佳

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

Unit/單位: mm

切削條件表 P423-424
Cutting Condition

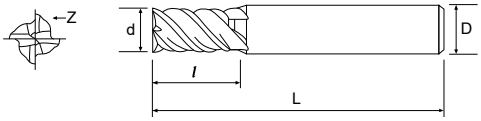
FHP Type - Short Flute - 4 flutes

■ 4刃短刃重切削立銑刀

400 Nano | HRC ▶ 60 | ALTIBN

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm^2 Grain Size=0.4 μm





Purchase Code 採購代碼 : FHPS020.A

UMG - FHPS

Dimension 規格					Purchase Code 採購代碼	
Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Standard Type 標準刀型	Anti-Vibration Design 抗震刀型
d 直徑	l 刃長	L 全長	D 柄徑	Z 刃數	45°	
8.4	12.6	75	10	4	FHPS084	FHPS084.A
8.5	12.8	75	10	4	FHPS085	FHPS085.A
8.6	12.9	75	10	4	FHPS086	FHPS086.A
8.7	13.1	75	10	4	FHPS087	FHPS087.A
8.8	13.2	75	10	4	FHPS088	FHPS088.A
8.9	13.4	75	10	4	FHPS089	FHPS089.A
9	13.5	75	10	4	FHPS090	FHPS090.A
9.1	13.7	75	10	4	FHPS091	FHPS091.A
9.2	13.8	75	10	4	FHPS092	FHPS092.A
9.3	14	75	10	4	FHPS093	FHPS093.A
9.4	14.1	75	10	4	FHPS094	FHPS094.A
9.5	14.3	75	10	4	FHPS095	FHPS095.A
9.6	14.4	75	10	4	FHPS096	FHPS096.A
9.7	14.6	75	10	4	FHPS097	FHPS097.A
9.8	14.7	75	10	4	FHPS098	FHPS098.A
9.9	14.9	75	10	4	FHPS099	FHPS099.A
10	15	75	10	4	FHPS100	FHPS100.A
10.5	15.8	100	12	4	FHPS105	FHPS105.A
11	16.5	100	12	4	FHPS110	FHPS110.A
11.5	17.3	100	12	4	FHPS115	FHPS115.A
12	18	100	12	4	FHPS120	FHPS120.A
12.5	18.8	100	14	4	FHPS125	FHPS125.A
13	19.5	100	14	4	FHPS130	FHPS130.A
13.5	20.3	100	14	4	FHPS135	FHPS135.A
14	21	100	14	4	FHPS140	FHPS140.A
14.5	21.8	100	16	4	FHPS145	FHPS145.A
15	22.5	100	16	4	FHPS150	FHPS150.A
15.5	23.3	100	16	4	FHPS155	FHPS155.A
16	24	100	16	4	FHPS160	FHPS160.A
17	25.5	100	20	4	FHPS170	FHPS170.A
18	27	100	20	4	FHPS180	FHPS180.A
19	28.5	100	20	4	FHPS190	FHPS190.A
20	30	100	20	4	FHPS200	FHPS200.A

Application 適用材質：

★ Perfect 最推薦　◎ Excellent 適合　○ Good 佳

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

Unit/單位: mm

切削條件表 P423-424
Cutting Condition

FHP Type - Short Flute - 4 flutes

■ 4刃短刃重切削立銑刀

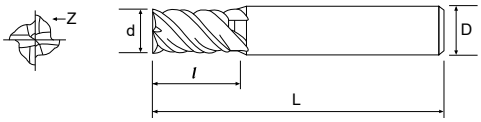
400 Nano | HRC ▶ 60 | ALTIBN

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm^2 Grain Size=0.4 μm





Purchase Code 採購代碼 : FHP030.A



UMG - FHP

Dimension 規格					Purchase Code 採購代碼	
Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Standard Type 標準刀型	Anti-Vibration Design 抗震刀型
d 直徑	l 刃長	L 全長	D 柄徑	Z 刃數	45°	
3	8	60	6	4	FHP030	FHP030.A
4	11	60	6	4	FHP040	FHP040.A
5	13	60	6	4	FHP050	FHP050.A
6	13	60	6	4	FHP060	FHP060.A
8	19	60	8	4	FHP080	FHP080.A
10	22	75	10	4	FHP100	FHP100.A
12	26	100	12	4	FHP120	FHP120.A
16	35	100	16	4	FHP160	FHP160.A
20	40	100	20	4	FHP200	FHP200.A

Application 適用材質 :

★ Perfect 最推薦 ◎ Excellent 適合 ○ Good 佳

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

Unit/單位: mm

切削條件表 P423-424
Cutting Condition

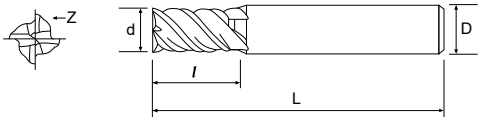
FHP Type - Medium / Long Flute - 4 flutes

■ 4刃長刃重切削立銑刀

400 Nano | HRC ▶ 60 | ALTIBN

- Ultra Micro Grain Carbide
- WC=87 Co=12 HRA=92.1 Rupture=3800N/mm^2 Grain Size=0.4 μm





Purchase Code 採購代碼 : FHPM030.A

UMG - FHPM

Dimension 規格					Purchase Code 採購代碼	
Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Standard Type 標準刀型	Anti-Vibration Design 抗震刀型
d 直徑	l 刃長	L 全長	D 柄徑	Z 刃數	45°	
3	12	60	6	4	FHPM030	FHPM030.A
4	16	60	6	4	FHPM040	FHPM040.A
5	18	60	6	4	FHPM050	FHPM050.A
6	20	60	6	4	FHPM060	FHPM060.A
8	25	75	8	4	FHPM080	FHPM080.A
10	30	80	10	4	FHPM100	FHPM100.A
12	35	100	12	4	FHPM120	FHPM120.A
16	45	110	16	4	FHPM160	FHPM160.A
20	50	125	20	4	FHPM200	FHPM200.A

UMG - FHPL

Dimension 規格					Purchase Code 採購代碼	
Diameter	Flute Length	Full Length	Shank Diameter	Flutes	Standard Type 標準刀型	Anti-Vibration Design 抗震刀型
d 直徑	l 刃長	L 全長	D 柄徑	Z 刃數	45°	
3	15	60	6	4	FHPL030	FHPL030.A
4	20	60	6	4	FHPL040	FHPL040.A
5	22	60	6	4	FHPL050	FHPL050.A
6	25	75	6	4	FHPL060	FHPL060.A
8	30	75	8	4	FHPL080	FHPL080.A
10	35	80	10	4	FHPL100	FHPL100.A
12	40	100	12	4	FHPL120	FHPL120.A
16	55	110	16	4	FHPL160	FHPL160.A
20	60	125	20	4	FHPL200	FHPL200.A

Application 適用材質 :

★ Perfect 最推薦 ◎ Excellent 適合 ○ Good 佳

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

Unit/單位: mm