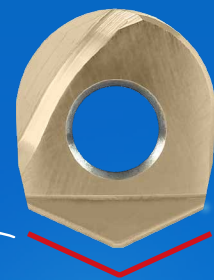


CBPF Series

Copy Milling Tools for Finishing

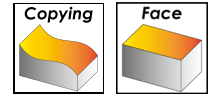
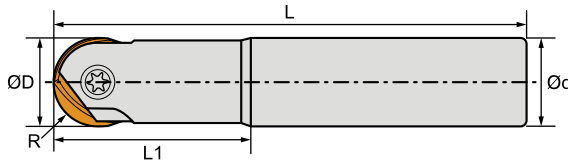
精加工捨棄式仿形銑削刀具

- Use WBPF inserts include 6R, 8R, 10R and 12.5R.
- Helix edge design provides a good cutting surface.
- High R accuracy is $\pm 0.01\text{mm}$.
- 使用 WBPF 銑刀片，尺寸包含 6R, 8R, 10R 及 12.5R
- 螺旋刃設計提供了良好的切削表面
- 高球頭 R 精度 $\pm 0.01\text{mm}$



V-shaped design for superior stability
V 型設計，穩定性更佳

Shank Type 仿形銑刀

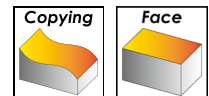
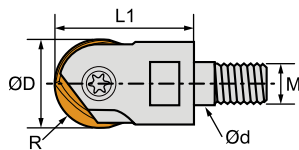


Insert Brand : Winstar

Order No.	R	D	L1	L	d	T	Inserts	Screw	Wrench	Stock
ICBPFE102012130	6R	12	30	130	12	2	WBPF12	IBR06	ITK10	●
ICBPFE102016150	8R	16	30	150	16	2	WBPF16	IBR08	ITK20	●
ICBPFE202020160	10R	20	45	160	20	2	WBPF20	IBR10	ITK20	○
ICBPFE202025180	12.5R	25	45	180	25	2	WBPF25	IBR12	ITK30	●

● stock ○ by inquiry

Modular Type 仿形銑刀頭



Insert Brand : Winstar

Order No.	R	D	L1	d	M	T	Inserts	Screw	Wrench	Stock
ICBPFM102012060	6R	12	22	6.5	M6	2	WBPF12	IBR06	ITK10	●
ICBPFM102016080	8R	16	28	8.5	M8	2	WBPF16	IBR08	ITK20	●
ICBPFM202020100	10R	20	30	10.5	M10	2	WBPF20	IBR10	ITK20	●
ICBPFM202025120	12.5R	25	40	12.5	M12	2	WBPF25	IBR12	ITK30	●

● stock ○ by inquiry

Recommended Cutting Conditions 建議切削數據

Working Material	Vc	fz				ap
		WBPF12	WBPF16	WBPF20	WBPF25	
Carbon Steel / Alloy Steel	150 ~ 300	0.22	0.22	0.28	0.28	≤ 0.03 × ØD
Stainless Steel	100 ~ 250	0.22	0.22	0.28	0.28	≤ 0.03 × ØD
Cast Iron	90 ~ 350	0.28	0.33	0.33	0.39	≤ 0.04 × ØD
Hardened Steel (HRC 35~45)	100 ~ 350	0.11	0.14	0.17	0.22	≤ 0.02 × ØD
Hardened Steel (HRC > 45)	100 ~ 350	0.11	0.14	0.17	0.22	≤ 0.01 × ØD

Insert Specifications 刀片規格

Insert	Dimensions (mm)						Chipbreaker
	A	B	S	r	d1	t1	
WBPF12	12	14.6	3.2	6	5	6.6	SM
WBPF16	16	16.6	4.2	8	5	9	SM
WBPF20	20	20.3	5.2	10	6	11.5	SM
WBPF25	25	24.1	6.2	12.5	6	14.5	SM


Insert Geometry 刀片幾何

Chipbreaker 斷屑槽	Application 加工特性
<p>SM</p>	<p>Finishing cutting with sharp geometry design for hardened steel and difficult-to-cut material.</p> <p>精加工的鋒利刀口設計，適用於硬化鋼及難切削材應用</p>

Insert Grade 刀片材質

Grade Type 刀片材質	Color 刀片顏色	Properties 屬性	Application 加工特性	Working Material 加工材質						Industry Area 產業應用範圍
				P	M	K	N	S	H	
CX23TX		<ul style="list-style-type: none"> PVD (AlTiSiN) Wear resistance 耐磨性 	<ul style="list-style-type: none"> Continuous finishing machining For hardened steel is 1st recommended 適用於連續穩定精加工 加工高硬度鋼為第一建議 	●	●	●	○	●	<ul style="list-style-type: none"> Mold & Die Automotive Hardened parts 模具產業 汽車零件 硬質零件 	

Insert Designation 刀片型號

Insert	Order No.	Series-Size-Chipbreaker-Grade	Working Material					
			P	M	K	N	S	H
	IWBPF12SM23TX	WBPF-12-SM-CX23TX	●	●	●		○	●
	IWBPF16SM23TX	WBPF-16-SM-CX23TX	●	●	●		○	●
	IWBPF20SM23TX	WBPF-20-SM-CX23TX	●	●	●		○	●
	IWBPF25SM23TX	WBPF-25-SM-CX23TX	●	●	●		○	●