

CMBX

WBNM Insert

Copy Milling

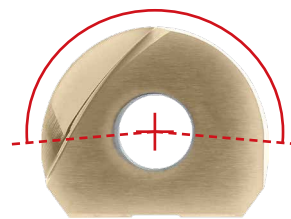
捨棄式仿形銑削刀具

- Use WBNM insert include 6R, 8R, 10R and 12.5R.
 - 200° R-shaped to avoid interference.
 - High rigidity thick insert for finish or medium high efficiency copy milling.
- 使用 WBNM 銑刀片，尺寸包含 6R, 8R, 10R 及 12.5R
 - 200° R 形避免加工干涉
 - 適用於精加工或中加工高效能仿形銑削的高剛性厚刀片



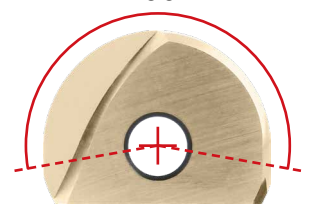
R degree range

190°



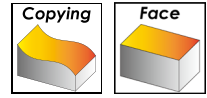
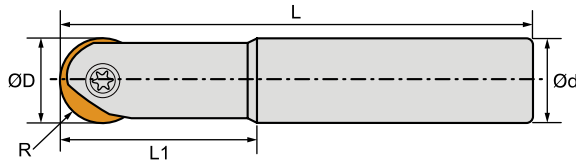
Traditional Insert

200°



WBNM

Shank Type 仿形銑刀

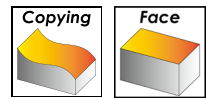
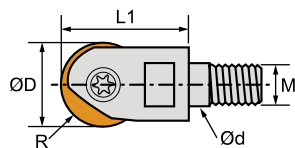


Insert Brand : Winstar

Order No.	R	D	L1	L	d	T	Inserts	Screw	Wrench	Stock
ICMBXE102012130	6R	12	30	130	12	2	WBNM12	IPH06	ITK10	●
ICMBXE102016150	8R	16	30	150	16	2	WBNM16	IPH08	ITK15	●
ICMBXE102020160	10R	20	45	160	20	2	WBNM20	IPH10	ITK20	○
ICMBXE102025180	12.5R	25	45	180	25	2	WBNM25	IPH12	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
ICMBXM102012060	6R	12	22	6.5	M6	2	WBNM12	IPH06	ITK10	●
ICMBXM102016080	8R	16	28	8.5	M8	2	WBNM16	IPH08	ITK15	●
ICMBXM202020100	10R	20	30	10.5	M10	2	WBNM20	IPH10	ITK20	●
ICMBXM202025120	12.5R	25	40	12.5	M12	2	WBNM25	IPH12	ITK30	●

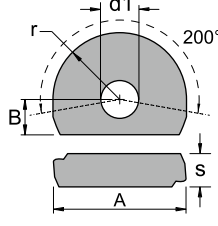
● stock ○ by inquiry



Recommended Cutting Conditions 建議切削數據

Working Material	Vc	fz				ap
		WBNM12	WBNM16	WBNM20	WBNM25	
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	100 ~ 350	0.11	0.14	0.17	0.22	≤ 0.02 × ØD

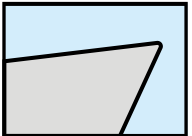
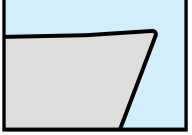
Insert Specifications 刀片規格

Insert	Dimensions (mm)					Chipbreaker
	A	B	S	r	d1	
WBNM12	12	4	3	6	3.5	SM, MM
WBNM16	16	4	4	8	4	SM, MM
WBNM20	20	5	5	10	5	SM, MM
WBNM25	25	6	6	12.5	6	SM, MM











Insert Geometry 刀片幾何

Chipbreaker 斷屑槽	Application 加工特性
 SM	Finishing cutting with sharp geometry design for hardened steel and difficult-to-cut material. 精加工的鋒利刀口設計，適用於硬化鋼及難切削材應用
 MM	Medium cutting with low cutting force for hardened steel and difficult-to-cut material. 中加工的低切削阻力刀口設計，適用於硬化鋼及難切削材應用

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
	IWBNM12SM23TX	WBNM-12-SM-CX23TX	●	●	●		○	●
	IWBNM12MM23TX	WBNM-12-MM-CX23TX	●	●	●		○	●
	IWBNM16SM23TX	WBNM-16-SM-CX23TX	●	●	●		○	●
	IWBNM16MM23TX	WBNM-16-MM-CX23TX	●	●	●		○	●
	IWBNM20SM23TX	WBNM-20-SM-CX23TX	●	●	●		○	●
	IWBNM20MM23TX	WBNM-20-MM-CX23TX	●	●	●		○	●
	IWBNM25SM23TX	WBNM-25-SM-CX23TX	●	●	●		○	●
	IWBNM25MM23TX	WBNM-25-MM-CX23TX	●	●	●		○	●