

# MSBSH330-5X

规格  
Size R0.1 ~ R1



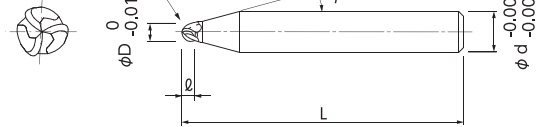
无限白金Plus涂层 5轴MC加工用3刃球头铣刀

共有8种规格  
Total 8 sizes

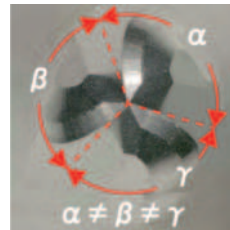
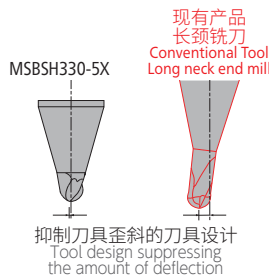
MUGEN COATING PREMIUM Plus 3-Flute Ball End Mill for 5-Axis Machining

利用5轴加工机床的特点，采用3刃和高刚性的球头造型，实现高精度的高效率加工，进而降低总成本

3-flute high rigidity ball design conforms features of 5-axis machine to reduce total manufacturing cost with high precision and high efficiency machining



- 利用5轴加工机床的特点，采用3刃和高刚性的球头造型，实现高精度的高效率加工，进而降低总成本。
- 对45 ~ 70HRC的高硬度钢材也可实现延长刀具寿命、高效率加工。
- 利用3刃和不等分割设计抑制振刀现象，在注重耐崩损性的钨钢材质上采用锐角刃口，减小切削阻力，从而实现了高效加工。
- R精度达 ±0.005mm (R精度以实际外径的1/2为基准)。
- 柄径公差为-0.001mm至-0.003mm的高精度规格。
- 3-flute high rigidity ball design conforms features of 5-axis machine to reduce total manufacturing cost with high precision and high efficiency machining.
- Even hardened steel of 45 to 70HRC can be machining with long tool life and high efficiency.
- By adopting positive cutting edge for carbide material emphasized breakage resistance that suppresses chattering by 3-flute and unequal flute.
- R accuracy is ±0.005mm (R accuracy is based on a half value of actual diameter).
- Shank diameter tolerance, high accuracy type, is - 0.001 ~ - 0.003.



高进给加工时也可抑制  
振刀现象的不等分割  
Unequal spacing suppresses chattering  
even high feed rate machining



加工案例  
Machining case

- 高硬度钢~60  
Hardened Steel HRC H
- 高硬度钢~65  
Hardened Steel HRC H
- 高硬度钢~70  
Hardened Steel HRC H

单位 [规格: mm / 价格: 日元]  
Unit [Size: mm / Retail Price: JPY]

产品代码 Code No.	(R)球头半径 Radius	(ℓ)刃长 Length of Cut	(D)外径 Dia.	(γ)颈角 Neck Taper Angle	(d)柄径 Shank Dia.	(L)全长 Overall Length	定价(日元) Retail Price
08-00610-00100	R0.1	0.12	0.2	15°	6	50	10,800
08-00610-00150	R0.15	0.18	0.3	15°	6	50	9,200
08-00610-00200	R0.2	0.24	0.4	15°	6	50	6,700
08-00610-00250	R0.25	0.3	0.5	15°	6	50	6,400
08-00610-00300	R0.3	0.36	0.6	15°	6	50	6,100
08-00610-00500	R0.5	0.6	1	15°	6	50	5,700
08-00610-00750	R0.75	0.9	1.5	15°	6	50	6,600
08-00610-01000	R1	1.2	2	15°	6	50	5,200

订购方法  
How to Order

请指定MSBSH330-5X 球头半径(R)。  
When you order, indicate MSBSH330-5X(R).

※(γ)为参考值。  
※(γ) is reference value.

加工案例  
Machining Case

M-019, M-020

常规系列  
无限白金Plus涂层  
Regular Line  
MUGEN PREMIUM Plus