

WBMF Ballnose Finishing End Mill

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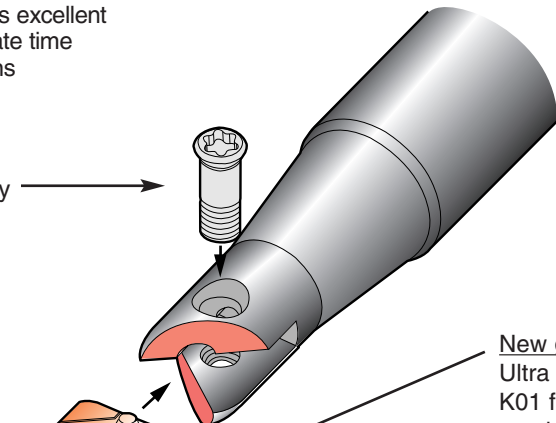
WBMF End Mills

Features and Benefits

- Highly accurate fully ground insert offers reliable repeatability (within 0.0002") to simplify the finish milling processes of complex 3-dimensional work
- Multi ground locking surfaces and screw-on insert design makes the cutter assembly super strong and rigid
- The tool body design matches that of the WBMR line to provide worry-free programming, insuring no side wall interference down to as little as 3° of draft without body modification of weldon style tools
- Each diameter is offered in multiple lengths to allow application of the shortest, most efficient length for the job
- New ACZ120, ZX coated carbide inserts efficiently cut hardened mold and die steels with low cutting forces and long tool life
- Sharp helical cutting edge generates excellent surface finishes to reduce or eliminate time consuming hand polishing operations

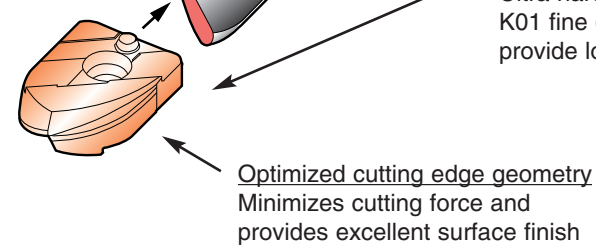


New clamping system
Excellent index repeatability
within 0.0002"

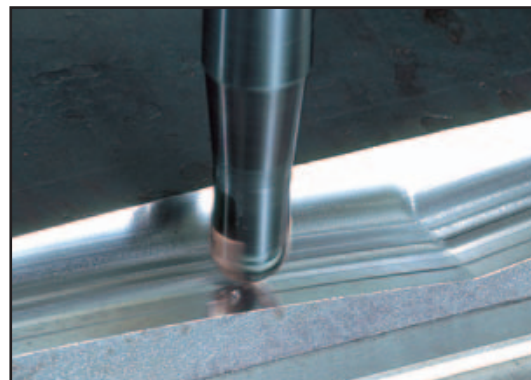


New grade ACZ120
Ultra hard ZX coating and
K01 fine grain substrate
provide long tool life

Radius form accuracy
Less than 0.0006"



Optimized cutting edge geometry
Minimizes cutting force and
provides excellent surface finish



WBMF End Mill Series

Catalog Number	Dimensions								Insert	Fig.
	D	d	Shank	L	ℓ ₁	ℓ ₂	ℓ ₃	R		
WBMF0500S	0.500	0.625	W	3.678	1.772	1.906	0.427	0.782	ZPGU2S	1
WBMF0500M		0.625	W	4.428	2.522	1.906	0.427	0.782		
WBMF0500L		0.750	W	5.300	3.270	2.031	0.427	0.782		
WBMF0625S	0.625	0.750	W	3.801	1.770	2.0313	0.470	1.000	ZPGU2.5S	1
WBMF0625M		0.750	W	4.551	2.520	2.0313	0.470	1.000		
WBMF0625L		1.000	W	5.546	3.265	2.2813	0.470	1.000		
WBMF0750S	0.750	1.000	W	4.5459	2.265	2.2813	0.572	1.250	ZPGU3S	1
WBMF0750M		1.000	W	6.0459	3.7647	2.2813	0.572	1.250		
WBMF0750L		1.000	W	7.546	5.265	2.2813	0.572	1.250		
WBMF0750LC		1.000	C	9.750	3.126*	6.624**	0.572	1.250		2
WBMF1000S	1.000	1.250	W	4.793	2.5117	2.2813	0.736	1.500	ZPGU4S	1
WBMF1000M		1.250	W	6.546	4.265	2.2813	0.736	1.500		
WBMF1000L		1.250	W	8.296	6.0147	2.2813	0.736	1.500		
WBMF1000LC		1.250	C	11.750	2.535*	9.215**	0.736	1.500		2
WBMF1250S	1.250	1.250	W	4.796	2.515	2.2813	0.919	1.750	ZPGU5S	1
WBMF1250M		1.250	W	6.796	4.515	2.2813	0.919	1.750		
WBMF1250L		1.250	W	8.796	6.5147	2.2813	0.919	1.750		

*Represents relieved portion of cutter body
**Represents straight portion of cutter body
◦ Future Products

Inserts

Sumitomo Cat. No.	Coated	Dimensions (Inches)					
		∅D	L	A	T	R	
ZPGU2S	•	0.500	0.427	0.722	0.220	0.250	
ZPGU2.5S	•	0.625	0.470	0.805	0.240	0.3125	
ZPGU3S	•	0.750	0.572	0.946	0.280	0.375	
ZPGU4S	•	1.000	0.736	1.130	0.299	0.500	
ZPGU5S	•	1.250	0.919	1.392	0.339	0.625	

Hardware

Catalog Number	Screw	Wrench
WBMF0500□	BFTG0409F	TRD15
WBMF0625□	BFTG0513F	TRD20
WBMF0750□	BFTG0617F	TRD25
WBMF1000□	BFTG0621F	TRD25
WBMF1250□	BFTG0825F	TRD25

See pages 92-93
For recommended running
parameters