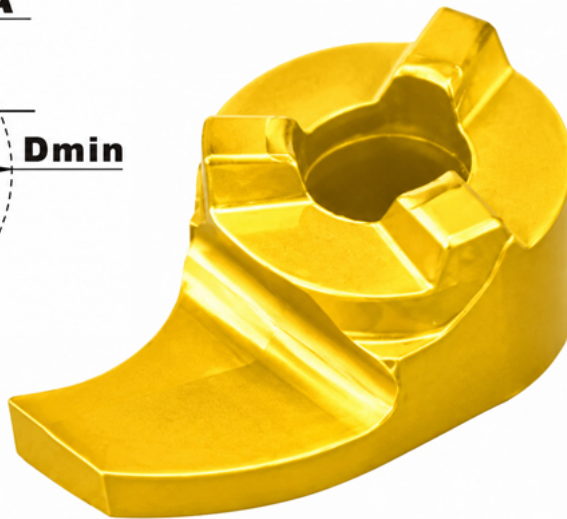
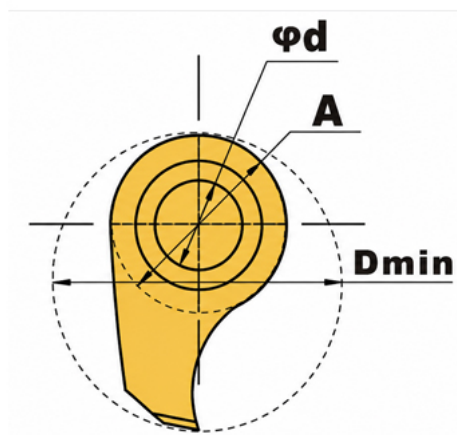


MB Internal Grooving Inserts

ZANHO Cutting Tools



MB05/07/09/11

Grooving Inserts

Feature

ZANHO **MB series**: Specialized "**Comma-style**" internal grooving inserts designed for extremely small bore diameters. Featuring a unique heteromorphic single-edge structure, these

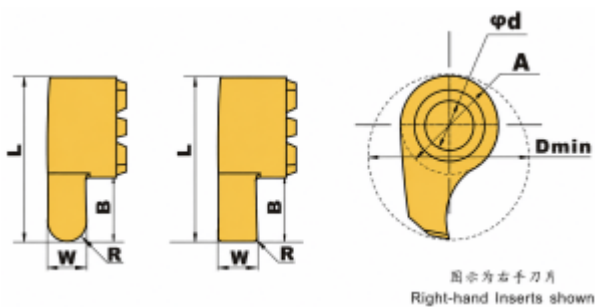
inserts minimize cutting resistance and optimize chip curling in closed environments (Dmin: 9.0mm - 20.0mm). Engineered for **high-precision micro-bore slotting** and profiling in steel and alloys with exceptional process stability and accuracy.

Descriptions

Technical Advantages

- **Micro-Bore Comma Geometry:** Specialized heteromorphic single-edge structure allows entry into extremely small bore diameters where conventional tools fail.
- **Closed-Space Chip Control:** Rake surface optimized for confined internal spaces, ensuring reliable chip curling and preventing packing in deep holes.
- **Enhanced Edge Toughness:** Precision passivated (honed) edges provide superior resistance against chipping under weak machine rigidity conditions.
- **Stable Positioning Structure:** Engineered for high-repeatability clamping in MB-series internal grooving tool holders, ensuring consistent slot width precision.
- **Full Radius Availability:** Complete range of Full Radius versions ($R = W/2$) for high-accuracy hydraulic and profiling applications.

MB series Detailed Specifications (mm)



Designation (Right)	Designation (Left)	L	A	Dmin	ød
MB05GR100D09	MB05GL100D09	8.3	5.0	9.0	2.50
MB05GR150D09	MB05GL150D09				
MB05GR200D09	MB05GL200D09				
MB05GR250D09	MB05GL250D09				
MB05GR300D09	MB05GL300D09				
MB05GR100-R050D09	MB05GL100-R050D09				

Designation (Right)	Designation (Left)	L	A	Dmin	ød
MB05GR150-R075D09	MB05GL150-R075D09	1.50	0.75		
MB05GR200-R100D09	MB05GL200-R100D09	2.00	1.00		
MB05GR250-R125D09	MB05GL250-R125D09	2.50	1.25		
MB05GR300-R150D09	MB05GL300-R150D09	3.00	1.50		
MB07GR100D12	MB07GL100D12	11.0	7.0	12.0	3.40
MB07GR150D12	MB07GL150D12				
MB07GR200D12	MB07GL200D12				
MB07GR250D12	MB07GL250D12				
MB07GR300D12	MB07GL300D12				
MB07GR100-R050D12	MB07GL100-R050D12				
MB07GR150-R075D12	MB07GL150-R075D12				
MB07GR200-R100D12	MB07GL200-R100D12				
MB07GR250-R125D12	MB07GL250-R125D12				
MB07GR300-R150D12	MB07GL300-R150D12				
MB09GR100D17	MB09GL100D17	16.0	9.0	17.0	4.40
MB09GR150D17	MB09GL150D17				
MB09GR200D17	MB09GL200D17				
MB09GR250D17	MB09GL250D17				
MB09GR300D17	MB09GL300D17				
MB09GR100-R050D17	MB09GL100-R050D17				
MB09GR150-R075D17	MB09GL150-R075D17				
MB09GR200-R100D17	MB09GL200-R100D17				
MB09GR250-R125D17	MB09GL250-R125D17				
MB09GR300-R150D17	MB09GL300-R150D17				
MB11GR100D20	MB11GL100D20	19.5	11.0	20.0	5.40
MB11GR150D20	MB11GL150D20				
MB11GR200D20	MB11GL200D20				

Designation (Right)	Designation (Left)	L	A	Dmin	ød
MB11GR250D20	MB11GL250D20	2.50	0.20		
MB11GR300D20	MB11GL300D20	3.00	0.20		
MB11GR350D20	MB11GL350D20	3.50	0.20		
MB11GR400D20	MB11GL400D20	4.00	0.20		
MB11GR100-R050D20	MB11GL100-R050D20	1.00	0.50		
MB11GR150-R075D20	MB11GL150-R075D20	1.50	0.75		
MB11GR200-R100D20	MB11GL200-R100D20	2.00	1.00		
MB11GR250-R125D20	MB11GL250-R125D20	2.50	1.25		
MB11GR300-R150D20	MB11GL300-R150D20	3.00	1.50		
MB11GR350-R175D20	MB11GL350-R175D20	3.50	1.75		
MB11GR400-R200D20	MB11GL400-R200D20	4.00	2.00		

Micro-Precision Excellence for Small Bore CNC Slotting

ZANHO MB series provides the ultimate rigidity for extremely small internal grooving. Contact us for technical support and bulk B2B inquiry.