

Mitsui Precision Surface Grinders

MSG-200MH

MSG-205MH

MSG-250M

Mitsui Surface Grinders with everlasting, superlative precision

Our simple motto since the company's foundation:

“To provide our customers with the ultimate, superlative precision machinery.” Mitsui manufactures “M” series manual surface grinders with the same precision and manufacturing process as our high-end model grinders.

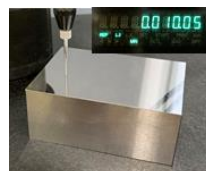
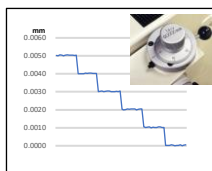


Mitsui's feed precision has reached a submicron territory

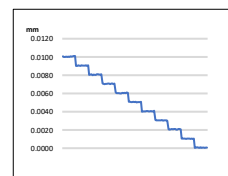
Fine Crossfeed
The micromotion function easily enables even a 0.1µm shift, usually difficult to do with a hand wheel.



Following Precision of Fine Feed
The result of following precision measurements of the grinding stone spindle at 1µm fine feed.



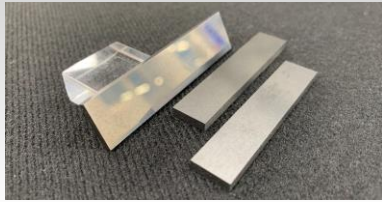
Forward-and-Backward/Right-and-Left Spindle with the Right Angle Precision
Hand feed models are manufactured within the standard of 0.002mm/200mm.



Ten-Step Processing at 1 µm gradation
The result of measurement of ten-step processing at 1 µm gradation
Absolutely precise incisions are made in micromotion.

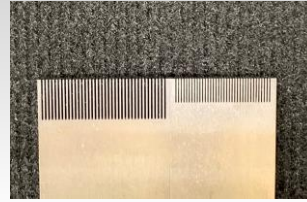
Sample Works

Six-sided Processing of Tooling Die Parts



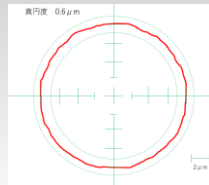
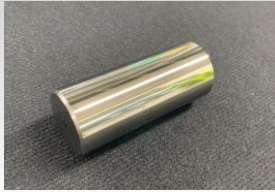
Material Steel, Carbide
 Dimension .4" × 1.6"
 Thickness .08"
 Grinding Accuracy ±.00004"

Fine Pitch Processing of Connector Core Pin



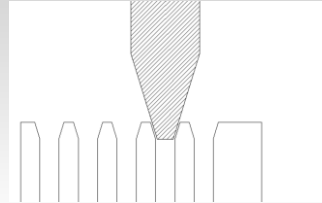
Material Carbide
 Width .012"
 Depth .27"
 Pitch Accuracy .0001"

Cylindrical Processing Parts



Material Carbide
 O.D .78"
 Length 2.3"
 Roundness .00002"

Processing of the Tip of Connector Core Pin



Material HSS
 Thickness .04"
 Width .008"
 Corner R .0012"
 Pitch Accuracy .0001"

Optional Accessories



Magnescale Digital Readout
 Part No. DRO&DROI



Chuck Control
 Part No. SMART1B



Chuck Control
 Part No. SCV1.5



Coolant Cover
 Part No. CC200IPO



13GAL Stainless Steel
 Coolant Tank w/ Paper
 Part No. MSTP-50



Power Elevation
 Part No. PE



Dust Scoop Assy
 Part No. DS



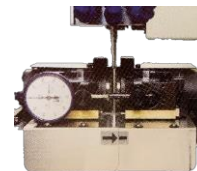
Over The Wheel
 Dresser for 8"
 Part No. OTW8



8" Wheel Guard with
 built-in Dust Scoop
 Part No. WGSP8IPO



Optidress
 Part No. OPTIDRESS



Universal Twin
 Rotary Dresser
 Part No. UTRD



Service Call
 Video Call

Service Call

Specification		MSG-200MH	MSG-205MH	MSG-250M
Capacity	Table Work Surface	6×13-1/2"	6 × 19"	8×19"
Table(C/F)	Movement per Rev.of Hand Wheel	0.1"	0.1"	6mm
	Fine Feed Attachment	0.00005"	0.00005"	0.00005"
Head	Movement per Rev.of Hand Wheel	0.05"	0.05"	0.05"
	Fine Feed Attachment	0.00001"	0.00001"	0.00001"
Wheel	Size	8"×3/4"×1-1/4"	8" × 3/4" × 1-1/4"	8" × 3/4" × 1-1/4"
	Spindle Speed (50Hz/60Hz)	2,900/3,460rpm	2,900/3,460rpm	2,900/3,460rpm
Motor	Spindle	1-1/3HP 2P V-3	1-1/3HP 2P V-3	1-1/3HP 2P V-3
Power	Power Supply	1.5KVA	1.5KVA	1.5KVA
Floor Space	Width × Length × Height	58"×46"×71"	70×46×71"	73×51×71"mm
Gross Weight		1,980lbs	2,090lbs	2,425lbs



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