

# 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.

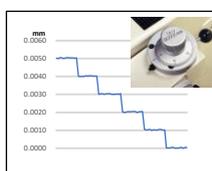


## Mitsui's feed precision has reached a submicron territory

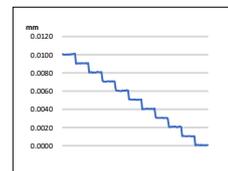
**Fine Crossfeed**  
The micromotion function easily enables even a 0.1µm shift, usually difficult to do with a hand wheel.



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



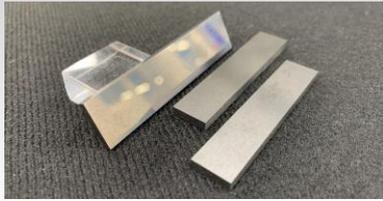
**Forward-and-Backward/Right-and-Left Spindle with the Right Angle Precision**  
Hand feed models are manufactured within the standard of 0.002mm/200mm.



**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.

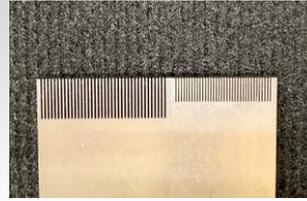
## Sample Works

### Six-sided Processing of Tooling Die Parts



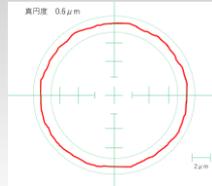
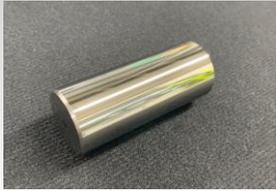
Material Steel, Carbide  
 Dimension .4" × 1.6"  
 Thickness .08"  
 Grinding Accuracy ±.00004"

### Fine Pitch Processing of Connector Core Pin



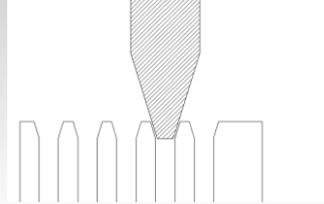
Material Carbide  
 Width .012"  
 Depth .27"  
 Pitch Accuracy .0001"

### 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



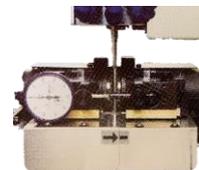
Over The Wheel  
 Dresser for 8"  
 Part No. OTW8



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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