

## MM-3M-FOS

Folded Motorized  
MicroMini™ Stages



### Specifications:

	Standard Slider
<b>*Repeatability:</b>	4µm + 1 count
<b>*Homing Repeatability:</b>	4µm + 1 count
<b>*Accuracy (linearity):</b>	6µm/inch + 1 count
<b>Speed, no load (max.):</b>	6mm/second
<b>†Slider Backlash:</b>	<50µm
<b>Encoder Conversion (resolution):</b>	0.49609µm per count with 16:1 gearhead (See also: gearhead options)

\*Encoder resolution must be added based on the gearhead: 16:1 add ± 0.5µm, 64:1 add ±0.12 µm

†Slider backlash represents maximum overshoot

<b>Runout (max.):</b>	3µm/25.4mm (1 inch)
<b>Gearhead Backlash:</b>	1-2µm equivalent; can be compensated in software without overshoot
<b>Motor:</b>	10 mm diameter, 6-12 VDC servo, brush type (see motor specifications)
<b>Vacuum Compatibility:</b>	10 <sup>-3</sup> Torr, standard
<b>Load Capacity:</b>	
<b>Direct Top Load</b>	17.6 ounce (0.5 kg)
<b>Push:</b>	8.8 ounce (0.25 kg)
<b>Pull:</b>	8.8 ounce (0.25 kg)
<b>Roll:</b>	8 inch-ounce (576 gram-centimeter)
<b>Pitch:</b>	4 inch-ounce (288 gram-centimeter)
<b>Yaw:</b>	4 inch-ounce (288 gram-centimeter)

*Note: These stages may be run at twice the specified ratings without damage, but with a loss of accuracy and speed.*

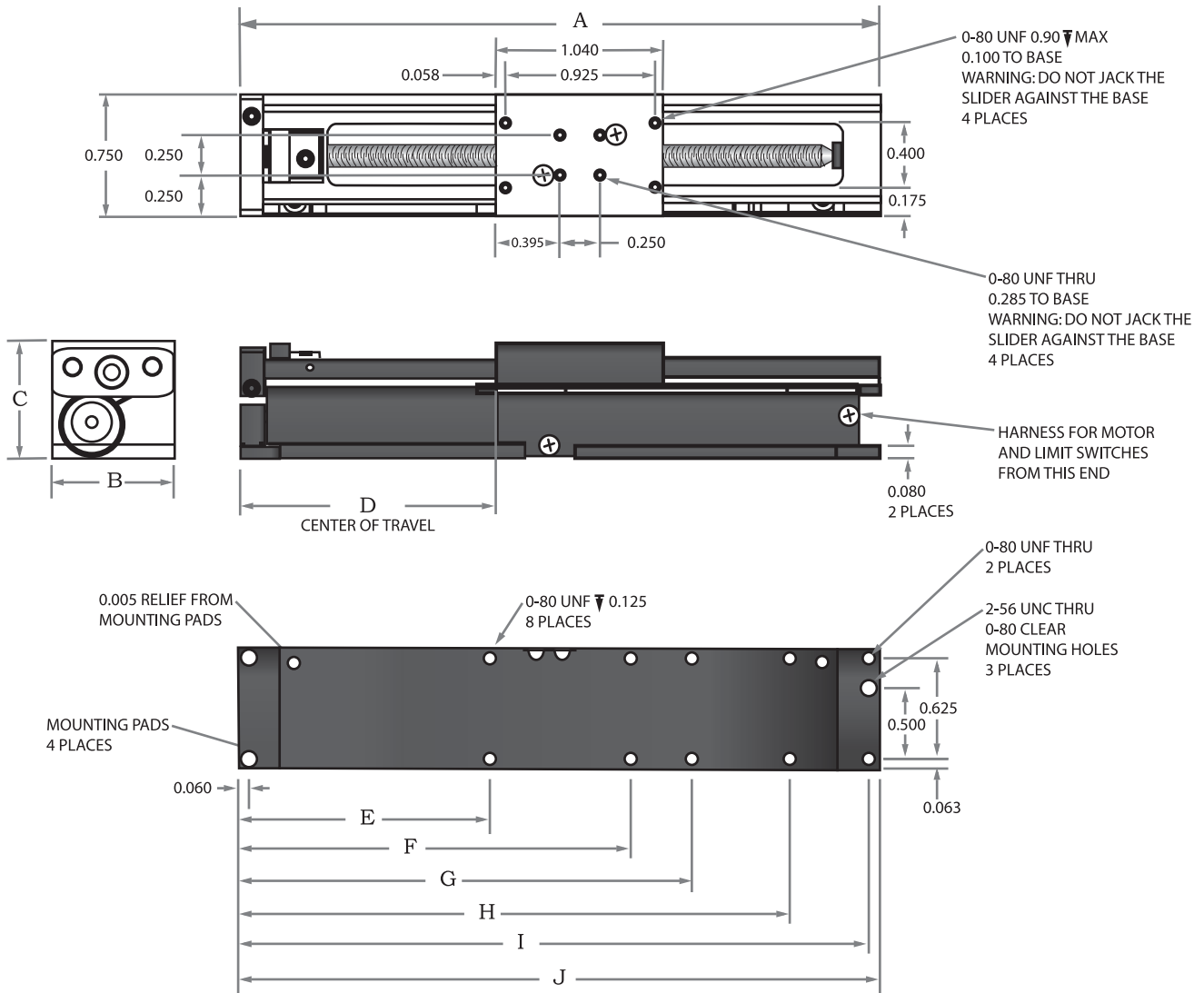
### Travel Ranges and Dimensions:

Model No.	Travel Range	Stage Body (L x W x H)	Weight
<b>MM-3M-FOS-2.0</b>	50.8mm (2.0 inch)	88.14 x 19.1 x 18.54 (mm)	66g
		3.47 x 0.75 x 0.73 (inch)	66g
<b>MM-3M-FOS-2.5</b>	63.5mm (2.5 inch)	100.8 x 19.1 x 18.54 (mm)	72g
		3.97 x 0.75 x 0.73 (inch)	72g

*Additional sizes ranging from 0.75 to 4.0 inches are available upon request  
All sizes are available in xy configuration*

# Folded **MM-3M-FOS** Motorized MicroMini Stage™ 0.75 to 4 inch Travel

## Dimensional Data



	A	B	C	D	E	F	G	H	I	J
MM-3M-FOS-2.0	3.470	0.750	0.730	1.410	1.305	1.930	2.555	2.915	3.410	3.470
MM-3M-FOS-2.5	3.970	0.750	0.730	1.594	1.555	2.430	2.805	3.415	3.910	3.970

The information contained in this data sheet is subject to change without notice. Critical dimensions or specifications should be verified with our technical support staff.

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