

## MAC SERIES

SMI produces low cost, high precision ball slide positioning stages for versatile, smooth, accurate travel used in gauging and positioning light to heavy loads. Pre-assembled and pre-loaded for immediate installation, mounting can be done with our standard hole patterns with standard fasteners or can be created to your requirements including metrics. Our process of manufacturing eliminates unnecessary components and stack up tolerances which improves accuracy and reliability, and reduces the overall cost of the stage. Multiple axis assemblies available. Interchangeable with many popular sizes. Custom-made ball slide positioning stages available.



## GENERAL SPECIFICATIONS

**Straight Line Accuracy:**  
0.0005" / inch of travel

**Positional Repeatability:**  
0.0001"

**Coefficient of Friction:**  
0.003 typical

**Drive:**  
Micrometer 0.001" graduations, 0.01mm graduations optional.

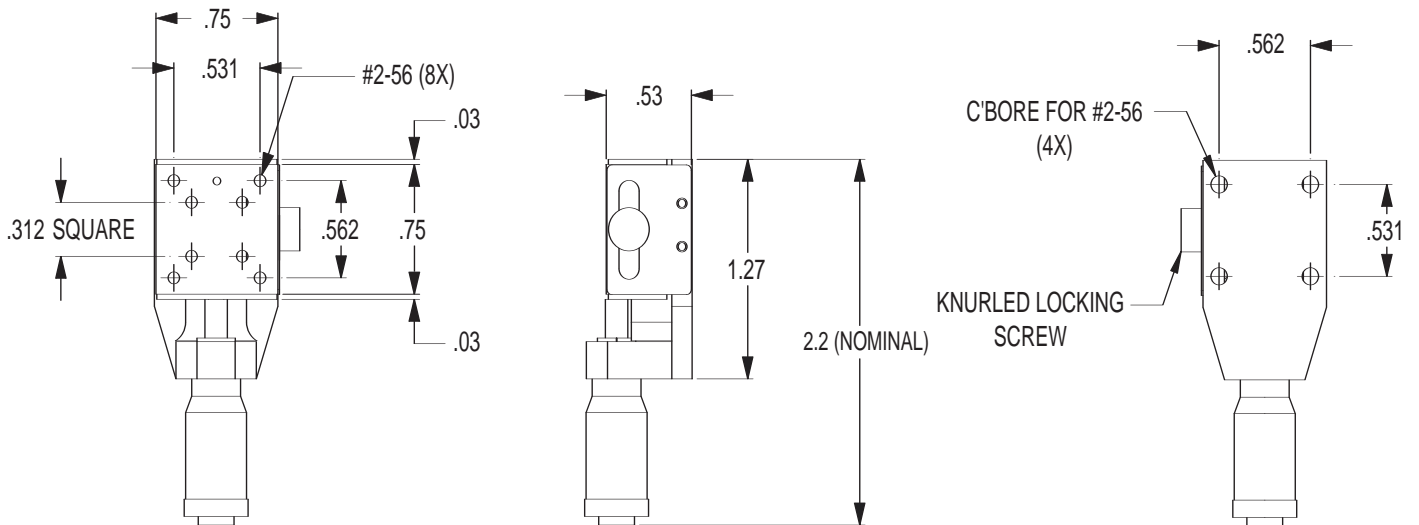
**Construction:**  
Aluminum carriage and base, hardened steel shafts and balls, mild steel end caps.

**Finish:**  
Black anodized

## MAC4-12

**Stroke:** 0.25"  
**Height:** 0.53"  
**Load Cap:** 5 lbf (X, XY)  
1.25 lbf (Z)

Part Number System	MAC 4 - 12 XY	Blank = Single Axis
Ball Slide Positioning Stage		XY = Double Axis
		XZ = Double Axis
		XYZ = Triple Axis
Travel in 1/16"		Carriage Width in 1/16"
(e.g. 0.25" = 4)		



Tolerances: .XX ±0.01  
.XXX ±0.005