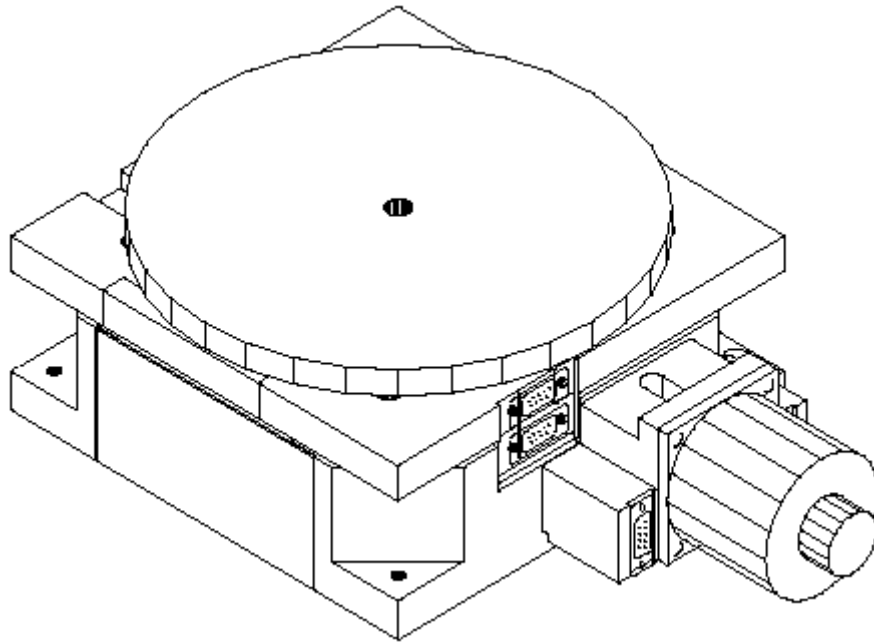


**Z-Theta™ Z-Elevator
Small Angle Theta**

Dimensions – Perspective



Z-Theta™ Z-Elevator with Small Angle Theta

Specifications

	Z-Axis	Theta Axis
Travel	0.5 inch	±4 degrees
Positional Accuracy ()	10µm	0.05 degree
Bidirectional Repeatability	3µm	0.003 degree
Flatness & Straightness	5µm	--
Pitch & Yaw (arc-seconds)	15 arc-seconds	--
Load Capacity (kg)	10	10
Maximum Speed	15 leadscrew rps	7°/sec
Mass (kg)	Moving Total	
	5.3 10	3 10

Configurations

Leadscrew	Lead (inch) Z Resolution (inch $\times 10^{-6}$) ²	0.50, 0.40, 0.20, 0.10, 0.02 100, 80, 40, 20, 4
	Lead (mm) Z Resolution (µm) ²	3, 2, 1.4 0.6, 0.4, 0.28
Motor	Stepper (oz-in) 400 step/rev 200 step/rev	118, others available 53, 100, others available
	Servo ³	brush, brushless

Options

Encoder	Rotary (counts/rev.) ⁴	2000, 4000
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¹ Standard configuration is highlighted.

² Resolution assuming ÷ 10 microstep drive and standard 200 step/rev. stepping motor.

³ Servo on Z axis only.

⁴ Enclosed on Z axis only.

For Further Information Contact

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