

FOURAX-700

MULTI-AXIS POSITIONER

FEATURES

- 4 axes of motion: Y, Z, Yaw, Pitch
- Compact
- High-payload
- Precise and stable
- Durable
- Easy-to-use
- 10mm T-slot mounting platform, standard
- No external electronics required: (Included FOURAX-C1 software runs on PC)



Fig.1 : FOURAX-700 Multi-Axis Positioner

DESCRIPTION

Magtrol FOURAX positioners are parallel-kinematic, multi-axis systems designed specifically for mechanical test labs. Providing 4 axes of motion in one integrated device, the FOURAX can fully position a line in 3-dimensional space, so is well-suited to the alignment of rotary equipment.

Designed for durability and high-capacity as well as precision, the FOURAX can accommodate a wide variety of payloads. Difficult-to-fixture items can be aligned precisely with the FOURAX, eliminating frustrating, time-consuming work with shims, and/or expensive custom fixtures. The FOURAX-700 features a robust aluminum mounting platform with 10mm T-slots in its standard configuration.



Fig.2 : FOURAX-700 Multi-Axis Positioner with table and dynamometer

The FOURAX does not require any special external electronics or cords. Required connections are one standard USB-C cable, and one standard AC power cord- just like a printer. The easy-to-use FOURAX-C1 software runs on any PC (PC must support LabVIEW™ runtime environment). All common measurement units are supported. Positions may be saved for later recall.

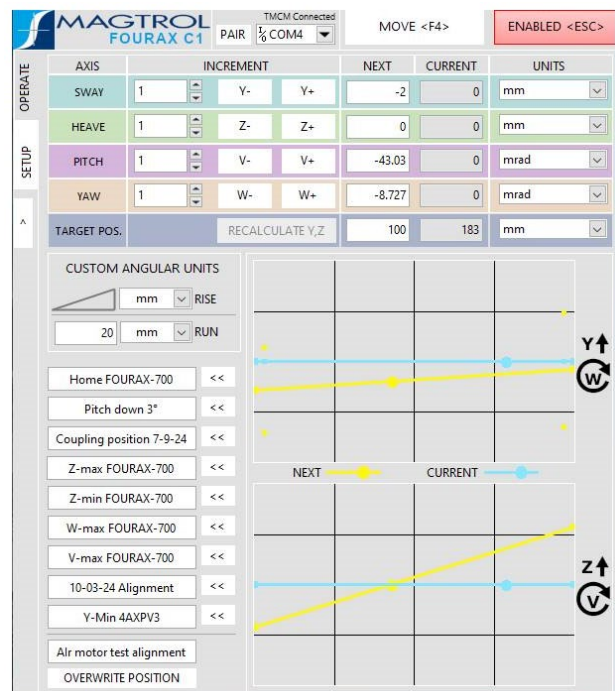
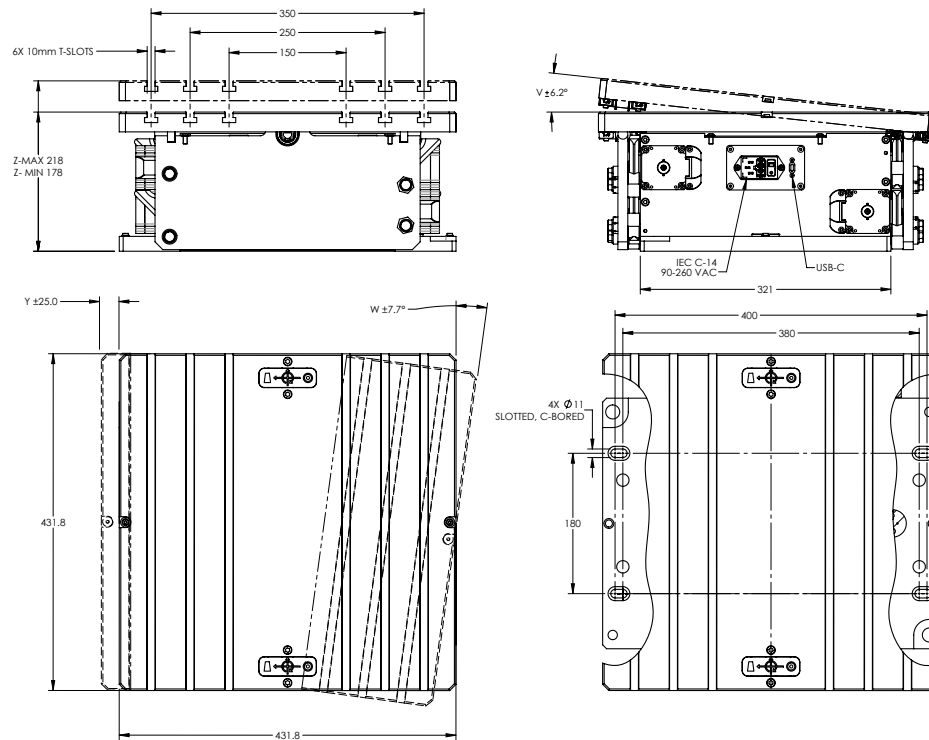


Fig.3 : FOURAX C1 Software

DIMENSIONS



SPECIFICATIONS

RATINGS

Travel Ranges (maximum) ^{a)}	Y	SWAY	±24 mm
	Z	HEAVE	±20 mm
	θY(V)	PITCH	±6.2 deg
	θZ(W)	YAW	±7.7 DEG
Minimum Incremental Motion	Y		13 µm
	Z		13 µm
	θY(V)		70 µrad
	θZ(W)		70 µrad
Backlash, (typical)	Y		50 µm
	Z		50 µm
Stiffness, (typical)	Y		5 N/µm
	Z		5 N/µm
Maximum Payload, Centered ^{b)}	100 KG		
Mounting Platform	Width		432 mm
	Length		432 mm
	T-Slots (6)		10 mm
Connections	Power	IEC C14, 90-260 VAC	
	Control	USB-C	

a) Maximum values where other axes are centered. Range of motion is shared between axes.

b) Recommendation may vary by usage & dynamic loads present.

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