

MODEL 1503-24-EN THREE-AXIS MANUAL POSITIONING TABLE



FEATURES

- Manually operated
- Optical encoders for precise feedback
- Position Accuracy: ±1 arc minute
- Position Repeatability: ± 30 arc sec
- 24-inch table top
- Digital display
- Manual fine adjustment mechanism for locking table into position

DESCRIPTION

The Model 1503-24-EN Three-Axis Manual Positioning Table is designed to provide precise position feedback via the optical encoder for the development and/or production testing of navigation sensor systems such as tilt sensors and turn and bank indicators. The 1503-24-EN system may be integrated with a customer developed test station and it may be used to test single or multiple test articles at any given time. Users can obtain any position data by way of utilizing the digital display and manual brake on the 1503-24-EN.

System Physical Configuration			
Overall Table Dimensions (mm)	43.8 (1,113) wide x 28.2 (716) deep x 51.8 (1,316) high		
Approximate Table Weight, lbs (kg)	625 (283)		
Table Characteristics:			
Axis Arrangement	Vertical Outer, Middle Orthogonal to Outer, Inner Orthogonal to Middle		
 PayLoad Capacity, lbs (kg) 	150 (68) Centered		
Table Top Diameter (mm)	24 (610)		
 Surface Flatness, inches 	.005 inch TIR		
Material	Aluminum		
 Hole Pattern, inches (mm) 	1/4 - 20 tapped holes on a 2 inch (50 mm) grid pattern		
Surface Finish	32 RMS		
Axis Brake and Adjustment	Manual operation with fine adjustment Encoder/Position digital display		
 Height of Tabletop, inches (mm) 	36 (914) nominal (Varies with adjustment of leveling feet)		
Leveling Range:	±1 Degree		
Electronic Chassis:			
Size, inches (mm)	7.24 (184) high x 19 (483) wide x 17.95 (456) deep		
 Face panel size, inches (mm) 	6.97 (177) high x 19 (483) wide		
Weight, lbs (kg)	35 (15.8)		
Power Requirement	Standard: 115V, 50/60 Hz, 0.5 A Optional: 230 VAC, 50/60 Hz, 0.25 A		

Performance Specifications			
Detetional Freedom	Inner Axis	Middle Axis	Outer Axis
Rotational Freedom	Unlimited	± 185	± 185
Axis brake adjustment range, deg	± 0.5	± 0.5	± 0.5
Position			
Range, deg	0.000 to +359.999	-185.000 to +185.000	-185.000 to +185.000
Accuracy, arc min	± 1	± 1	± 1
Resolution, deg	0.001	0.001	0.001
Repeatability, arc sec	± 30	± 30	± 30
Mechanical Alignment Specifications			
Axis Wobble, arc min	± 1.2	± 1.2	± 1.2
Orthogonality between consecutive axes, arc min	± 1.2		

For special requirements or custom specifications, contact Ideal Aerosmith. Specifications subject to change without notice. Please call for pricing.

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