



EVO-AMI

EVO SERIES

COMPACT TWO-AXIS POSITIONING & RATE TABLES

Testing and calibration solutions for sensors, inertial systems and components.

FEATURES

- Smallest and lightest two-axis rate and positioning table configurations
- Two-axis unlimited rotation
- Advanced model-based controller with auto-tuning function (patents)
- Works inside temperature chamber from -40°C to $+70^{\circ}\text{C}$ (optional)
- Integration with EVO-10 rate table for three-axis configuration

BENEFITS

- Low cost for all inertial testing applications
- Compactness for reduce cost of ownership
- Unrivalled capabilities with automatic set-up
- Precise absolute positioning
- Bandwidth testing capabilities with no attenuation and no phase shift

APPLICATIONS • Aeronautics • Space • Defense • Marine • Automotive • Scientific • Consumer industry



EVO-AMI

TECHNICAL SPECIFICATIONS

PERFORMANCE depending on characteristics of payloads under test – given for nominal payload for laboratory temp range

Rotational freedom	Unlimited	
Direct mechanism	Direct / AC brushless motor	
Position		
Accuracy	+/- 15 arc sec	
Repeatability	+/- 10 arc sec	
Resolution	0,001 deg	
Wobble	< 15 arc sec	
Orthogonality	< 30 arc sec	
Dynamic	Inner Axis	Outer Axis
Rate (deg/sec)	+/- 300	+/- 200
Resolution (deg/sec)	+/- 0,001	+/- 0,001
Accuracy & stability over 360 deg	0,5% to 0,01%	0,5% to 0,01%
Max acceleration with payload (deg/sec ²)	+/- 100	+/- 50
Bandwidth with no attenuation and no phase shift	up to 10Hz	

PHYSICAL CHARACTERISTICS

Nominal payloads	5 kg (11 in.) (10 kg max – 22 lbs)
Nominal volumes of payloads	Cube of 200 mm (7,8 in)
Slip-rings	20 lines 2A
Weight of table	26 kg
Power supply	1 Phase 115/230VAC

GENERAL SPECIFICATIONS

Command Control	ixBlue ProAxe Graphical User Interface MCU unit with ixBlue NGen Controller with advanced patented functions and real-time control
Communication interfaces	RS232, RS422, Ethernet

OPTIONS & ACCESSORIES

I/O	Optional Analog I/O (one input and two outputs per axis) Digital I/O (two inputs and two outputs per axis)
RT	Real time interfaces (RS-422, other on demand)
TC	Mechanically refrigerated thermal chamber (-40°C to +70°C) CO ₂ /LN ₂ gas thermal chamber (-40°C to +70°C)
BK	Optional brake on both axis

Performance can change depending on configuration / Specifications are subject to change without notice / Please contact **ixBlue** for special requirements