



EVO-10

EVO SERIES

HIGH PRECISION SINGLE-AXIS POSITIONING & RATE TABLES

Testing and calibration solutions for sensors, inertial systems and components : accelerometers, gyroscopes, MEMS sensors.

FEATURES

- Several EVO-10 Series configurations
- Models N (standard), M (medium), L (large)
- Vertical & horizontal operations with unlimited rotation
- Advanced NEngine model-based controller with auto-tuning function (patents)
- Thermal chamber (optional)

BENEFITS

- Optimized for MEMS sensors and IMU testing and calibration
- Cost effective, evolving, ready-to-run out-of-the-box solutions
- Unrivalled capabilities with automatic setup

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



EVO-10

TECHNICAL SPECIFICATIONS

PERFORMANCE depending on physical characteristics of payloads under test

Rotational freedom	Unlimited
Driving mechanism	Direct/AC brushless motor
Position	
Accuracy	± 2 or ± 10 arc sec
Repeatability	± 1 or ± 5 arc sec
Resolution	0,0001 deg
Wobble	< 3 or < 10 arc sec
Orthogonality	< 3 or < 10 arc sec
Dynamic	
Rate	± 300 deg/sec to ± 3000 deg/sec
Resolution	± 0.001 deg/sec
Accuracy & stability	0.5 % (over 0,1°) to 0,005 % (360 deg) 0.5 % (over 0,1°) to 0,001 % (360 deg) with HP option
Max acceleration with nominal payload	± 1000 deg/sec ² to ± 2000 deg/sec ²
Bandwidth	up to 100 Hz with no attenuation and no phase shift in sinus mode

PHYSICAL CHARACTERISTICS

Nominal payloads N, M, L	10 kg (22 lbs), 25 kg (55 lbs), 50 kg (110 lbs)
Nominal volume of payload N, M, L	200 mm (7,8 in.), 300 mm (11,8 in.), 400 mm (15,7 in.) [square]
Table tops N, M, L	$\varnothing 300$ mm (11,8 in.), $\varnothing 450$ mm (17 in.), $\varnothing 600$ mm (23 in.)
Slip-rings N, M, L	32 lines 2A
Weight of tables N, M, L	40 kg (88 lbs); 60 kg (132 lbs), 80 kg (176 lbs)
Power supply	1 phase 230 VAC/10A

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	Analog I/O (one input, two outputs) Digital I/O (two inputs, two outputs)
TC	Mechanically refrigerated thermal chamber CO ₂ /LN ₂ gas thermal chamber
H	Horizontal operation, tilt operation, pedestal
HP	High mechanical performances
HD	High dynamic performances

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