

Testing and calibration solutions for sensors, inertial systems and components with hardware-in-the-loop (HWIL) simulation. Three axes with unlimited rotation to simulate flight and target trajectories.

FEATURES

- Several EVO-30 table configurations
- Models N (standard), M (medium), L (large)
- Three-axis unlimited rotation
- Advanced NGine model-based controller with auto-tuning function (patents)
- Opened or closed gimbals available
- Thermal chamber (optional)

BENEFITS

- Effective cost & performance for all testing applications
- Unrivalled capabilities with automatic set-up
- Precise absolute positioning
- High rate accuracy with no drift and excellent rate stability
- Bandwidth testing capabilities with no attenuation and no phase shift

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

• Simulation laboratories for research & development



EVO-30

TECHNICAL SPECIFICATIONS

PERFORMANCE depending on characteristics of payloads under test

Rotational freedom Direct mechanism

rect mechanism Direct / AC brushless motor

Position

Accuracy Repeatability Resolution Wobble Orthogonality +/- 2 or +/- 10 arc sec +/- 1 or +/- 5 arc sec 0,0001 deg < 3 or < 10 arc sec < 3 or < 10 arc sec

Unlimited

Dynamic

Rate (deg/sec) Resolution (deg/sec) Accuracy & stability over 360 deg

Max acceleration with payload (deg/sec2) Bandwidth with no attenuation and no phase shift in sinus mode

PHYSICAL CHARACTERISTICS

Nominal payloads N, M, L Nominal volumes of payloads N, M, L Table tops N, M, L Slip-rings N, M, L Weight of tables N, M, L Power supply 10 kg (22 lbs), 25 kg (55 lbs.), 50 kg (110 lbs.) 200 mm (7,8 in.), 300 mm (11,8 in.), 400 mm (15,7 in.) (square) Ø 300 mm (11,8 in.), Ø 450 mm (17,7 in.), Ø 600 mm (23,6 in.) 32 lines 2A, 52 lines 2A, 72 lines 2A 300 kg (661 lbs) 1500 kg (3306 lbs), 3000 kg (6613 lbs) Power lines according to the standards

GENERAL SPECIFICATIONS

Command Control

Communication interfaces

iXBlue ProAxe Graphical User Interface MCU unit with **iXBlue** NGine Controller with advanced patented functions and real-time control RS232, RS422, Ethernet

OPTIONS & ACCESSORIES

I/O

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, ScramNet, VMIC, other on demand)
TC
CO2/LN2 gas thermal chamber
VC
Vacuum & pressure chamber
HP
High mechanical performances
High dynamic performances

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

