

Advans INS test solution

Comprehensive hardware and software suite for INS testing and maintenance

The Exail Advans INS test solution is a comprehensive suite of hardware, software, training and support enabling users of Exail Inertial Navigation Systems (INS) to locally control the performance of their equipment. Providing enhanced client autonomy, this solution empowers users to efficiently test their INS, minimizing downtime while ensuring optimal performance assessment and facilitating fault identification.

FEATURES

- Enables verification of power consumption, ethernet and serial communication, inertial sensors, pointing performance
- Automated INS verification report
- Exail EVO-10M single-axis positioning and rate table
- Exail nGine motion simulator controller
- User-friendly Exail ProAxe GUI
- CPU and I/O management
- Standardized training course for test bench operators
- Continuous support and updates for seamless operations

BENEFITS

Controls costs and increases INS uptime:

- Minimizes downtime and maintenance costs by effectively diagnosing issues
- Identifies NFF (No Fault Found) to avoid unnecessary returns
- Enables identification of INS faults vs system-level faults

Enhances user autonomy and resilience:

- Empowers users with greater control and the ability to implement their own quality processes
- Fosters local knowledge and capability in inertial navigation

APPLICATIONS

- Exail Advans Series INS
- Other Exail INS series upon request (quote upon request for HW and SW extensions)
- Operation by end user or, upon request, by a local third-party recommended by Exail

TRACK RECORD

As an industry leader in inertial navigation, Exail has been providing rate tables and motion simulators for more than 60 years. This unique experience allows Exail to build the most accurate, stable and dynamic systems, fulfilling the full range of needs for testing of inertial and optronic payloads. The Advans INS test solution enables users to test and verify their systems with an accuracy comparable to Exail's factory tests.

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ADVANCED PERFORMANCE

The EVO-10 Series motion simulator is meticulously designed, featuring brushless motors, optical encoders, and slip-rings, all produced in-house for optimal quality control, and crucial for the system's overall performance. Each EVO-10 Series unit features the Exail nGine controller and ProAxe GUI, exemplifying top-tier control electronics in performance, efficiency, and safety.

CONTINUOUS TRAINING, SUPPORT & UPDATES

Exail is uniquely positioned to provide first-class yet accessible training in ensuring peak product performance by implementing the Advans INS test solution.

For optimal operations, Exail offers a 24/7 helpline, support services, and no-extra-charge software updates.

Standard training consists of:

- 6-day standardized training courses for test bench operators
- 2-day refresher courses recommended every 2 years
- Training at user's location or Exail sites
- Evaluation and certificate of training

MAIN SPECIFICATIONS

Table	505 x 485 x 450 mm-height
Cabinet	840 x 600 x 2015 mm-height
Maximum payload	70 kg
Yaw performance control	up to 0.001 deg
Report format	PDF, html
Power	15A 230 VAC
Data type	Ethernet, RS232, RS422, 1553