2103C SERIES THREE AXIS POSITION AND RATE TABLE SYSTEM

STANDARD FEATURES

- Position Accuracy: ±15 arc sec (all axes)
- Rate Accuracy: ±0.001% (for unlimited rotation axes)
- Max Rate (varies depending on axis configuration)
- Inner Axis: 1080-2000 deg/sec
- Middle Axis: 150-350 deg/sec
- Outer Axis: 150-350 deg/sec
- Direct-drive, brushless servo system
- Precision-ground anodized aluminum tabletop
- 10 (254 mm) or 14 (356 mm) inch diameter tabletop
- Fail-safe brakes (all axes)
- Rotational freedom
- Inner Axis: Unlimited
- Middle Axis: ±185 deg or unlimited
- Outer Axis: ±370 deg or unlimited
- AERO 3500 Commander Digital Controller mounted in a cabinet
- RS-232, IEEE-488 and Ethernet interface
- 2 kHz servo update rate
- Front panel display of status and data
- Local or remote operation
- User-friendly Ideal Aerosmith Table Language (ATL)
- Trapezoidal motion profiles with programmable velocity and acceleration
- Sinusoidal Motion profiles with variable amplitude and frequency
- Position Profile, Velocity Profile and Flight Profile Mode for simulating complex motion profiles
- Analog position and velocity input
- Analog position, velocity and position error output
- Absolute Optical Encoders
- Capable of querying the current position, velocity, and acceleration
- CE Mark

DESCRIPTION

The Model 2103C Three-Axis Positioning and Rate Table System is designed to provide precise position, rate, and acceleration motion for the development and/or production testing of military and/or commercial antenna stabilization systems and/or heading sensors.

The 2103C test table achieves accurate and reliable motion control with a servo-controlled system consisting of direct-drive brushless torque motors, precision absolute optical encoders and the Ideal Aerosmith AERO 3500 Commander microprocessor based three-axis motion controller. The table can be operated from the AERO 3500 Commander Controller front panel for local control or remotely through a host PC via Ideal Aerosmith Table Language (ATL) over an RS-232, IEEE-488 or an Ethernet communication interface using .NET.

OPTIONS

- Unlimited rotation available on all axes
- Customer defined user lines to the tabletop
- 19 inch controller console, approximately 73 inches tall
- Custom tabletop mounting hole pattern
- *For special requirements, accuracies, or custom specifications, please contact Ideal Aerosmith, Inc*

For much more detailed information, contact Ideal to request a 2103C Series Specification Document or AERO 3500 Commander Controller Data Sheet.

Rev A