



## FEATURES

- Position Accuracy:  $\pm 10$  arc sec
- Rate Accuracy:  $0.01\% \pm$  Resolution
- Maximum Rate: 18,000 deg/sec (50 Hz)
- Direct-drive, DC brushless servo system
- Aerodynamic/safety enclosure around tabletop
- Precision-ground anodized aluminum tabletop
- 10 to 24 inch diameter tabletop options
- Fail-safe brake
- 48 slipring lines
- Electronics Console for AERO 4000 Controller and Servo Amplifiers

## AERO 4000 CONTROLLER FEATURES

- .NET interface over Ethernet
- Front panel display of status and data
- Local and remote operation
- Trapezoidal velocity profiles with programmable velocity and acceleration
- Sinusoidal motion profiles with variable amplitude and frequency
- Profile Modes for simulating complex motion

## DESCRIPTION

The 1571P Series High Speed Rate Table Systems are designed to provide a precision high velocity testing solution for the development and/or production testing of inertial packages or their components. A typical application is for missile or projectile programs.

The 1571P test table is a servo-controlled system featuring a direct-drive DC brushless motor, precision optical encoder and a microprocessor that provides accurate and reliable motion control.

The table can be operated from the AERO 4000 Controller front panel for local control or through a computer interface for remote control

## EASE OF INTEGRATION

- LabVIEW™ Virtual Instrument (.vi) driver included
- GPIB and 100base-T Ethernet interfaces standard
- Available control languages: ATL (Aerosmith Table Language) and MPACS (Legacy Carco and Contraves Controllers)

## OPTIONS

- Integral Thermal Chamber with electric heating and LN<sub>2</sub> or CO<sub>2</sub>. Testing range: -65 to 150 deg C.
- Various Tabletop sizes
- Custom slip package
- Drive assembly available separately as a spin fixture or as a “roll drive” for use on existing tables
- Horizontal axis configuration
- *For special requirements, please contact Ideal Aerosmith regarding system customization.*



Spin fixture

Rev B