

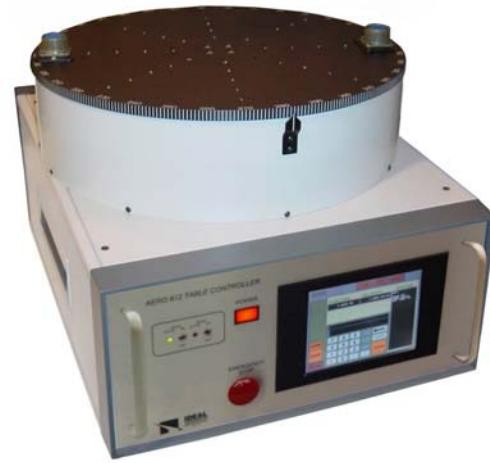
1100-5B SERIES DIGITAL RATE TABLE

STANDARD FEATURES

- Specifications meet or exceed 1100-5 (Genisco and Trio-Tech) designs
- Reliable digital control and interface
- Precision-ground anodized aluminum tabletop
- Direct drive
- Unlimited axis rotation with sliprings
- Rate Accuracy: $\pm 0.01\%$
- Rate Range: 0.05-3200 deg/sec
- Position Accuracy: ± 15 arc sec
- Position Repeatability: ± 5 arc sec
- Tests loads up to 250 lbs (113 kg)
- Remote interface (RS-232 or IEEE-488), backward compatible Genisco and Trio-Tech language
- Touch screen interface

DESCRIPTION

The Model 1100-5B Rate Table is designed to be an easy-to-use digital replacement to the venerable analog 1100-5 tables built by Genisco and Trio-Tech. The 1100-5B will meet or exceed the performance specifications of the original analog 1100-5 rate tables. The performance of the 1100-5B is more stable, since the rate stability is tied to a quartz crystal rather than a DC reference voltage circuit. The touch screen on the 1100-5B offers two modes



of operation: Genisco/Trio-Tech emulation, or standard Ideal Aerosmith rate and positioning table format.

All 1100-5B tables come with a 1/rev as well as a 3600/rev pulse output. The 1100-5B accepts a $\pm 10V$ signal to drive the servo amp directly (AUX IN function). The system provides a $\pm 10V$ analog output proportional to velocity. An optional tachometer output is provided to maintain backward compatibility if a larger voltage range is required.

OPTIONS

- Various tabletop sizes and hole patterns
- Various slipring packages and connectors

| Performance Specifications | |
|---------------------------------|---------------------------------------|
| Rotational Freedom | Unlimited |
| Rate | |
| • Maximum, deg/sec | 3200 |
| • Minimum, deg/sec | 0.0007 |
| • Resolution, deg/sec | 0.0007 |
| • Accuracy (measured over 360°) | ± 0.01% of selected rate ± resolution |
| Position | |
| • Accuracy, arc sec | ± 15 |
| • Repeatability, arc sec | ± 5 |
| • Resolution, counts/rev | 1,048,576 |

| System Physical Configuration | |
|--------------------------------------|--|
| Table Surface Characteristics | |
| • Diameter, in (mm) | 20 (508) or 24 (610) |
| • Hole Pattern | 1/4-20 threaded holes on a two-inch (50 mm) grid pattern. (Other interface patterns available upon request.) |
| • Face Flatness | .003 (.076 mm) TIR at a 3.5 inch (89 mm) radius measured over one revolution |
| • Material | Aluminum |
| • Surface Finish | 32 RMS |
| • Tabletop Connectors | D-Sub or MS3102A22 |
| Test Load Capacity, lbs (kg) | 250 (113), balanced |
| Slipring Options | Standard: 18 lines at 5 amps per line Optional: 34 lines at 5 amps per line |
| Table Configurations | |
| • Dimensions, in (mm) | 20 Wide x 26.2 Deep x 18.7 High (508 x 665 x 475) |
| • Weight, lbs. | 150 |
| Controller | |
| • Type | Digital |
| • Rate Setting | Front Panel Dial, IEEE-488, Aux In (± 10V) |
| • Communication Interface | IEEE-488 |
| • Operating Environment | 50 to 95° F (10 to 35° C) 20% to 85% non-condensing |
| Power Requirements | Standard: 115/230 VAC, 50/60 Hz, 15 A IEC-320 Power Inlet |

For additional information or special requirements, contact Ideal Aerosmith. Specification and pricing subject to change without notice. Please call for pricing. Rev C - Web