

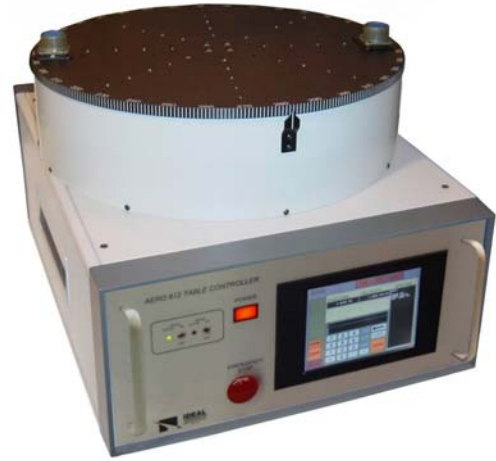
## 1100-5B SERIES DIGITAL RATE TABLE

### 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:  $\pm 15$  arc sec
- Position Repeatability:  $\pm 5$  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

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

<b>System Physical Configuration</b>	
<b>Table Surface Characteristics</b>	
• 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
<b>Test Load Capacity, lbs (kg)</b>	250 (113), balanced
<b>Slipping Options</b>	Standard: 18 lines at 5 amps per line Optional: 34 lines at 5 amps per line
<b>Table Configurations</b>	
• Dimensions, in (mm)	20 Wide x 26.2 Deep x 18.7 High (508 x 665 x 475)
• Weight, lbs.	150
<b>Controller</b>	
• Type	Digital
• Rate Setting	Front Panel Dial, IEEE-488, Aux In (± 10V)
• Communication Interface	IEEE-488
• Operating Environment	
○ Temperature	50 to 95° F (10 to 35° C)
○ Relative Humidity	20% to 85% non-condensing
<b>Power Requirements</b>	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