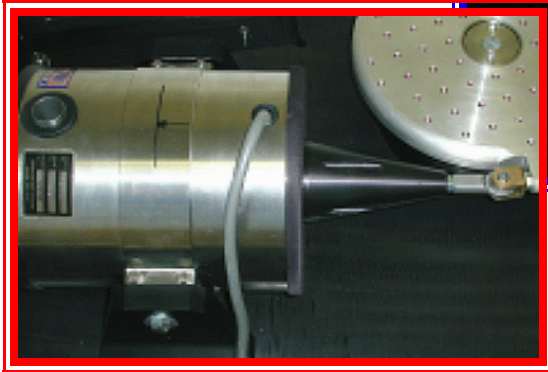
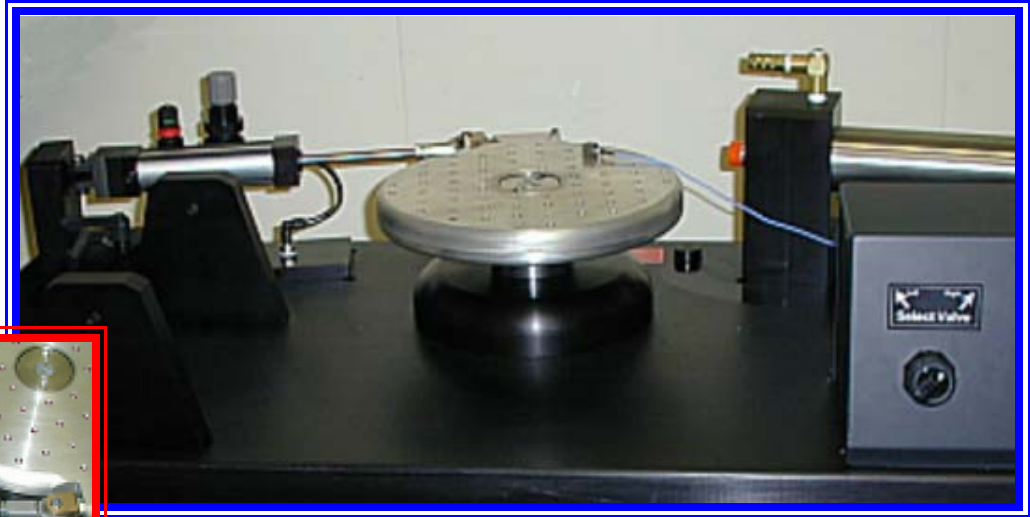
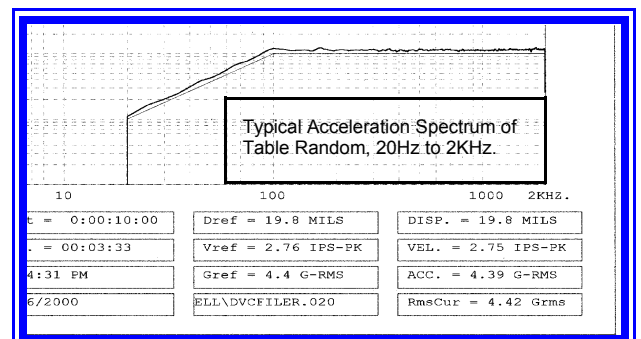
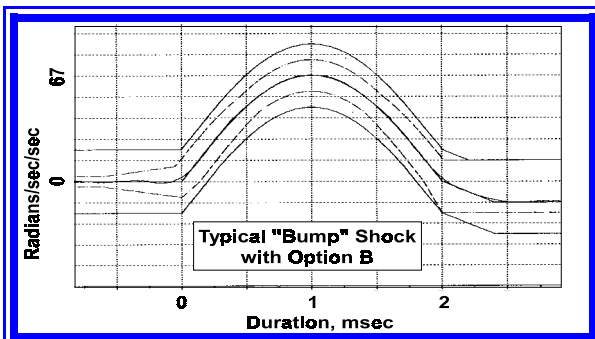


# RSM-III For Rotary Shock & Random Vibration Testing



*The One Place Solution  
For Your Drive Testing Needs.*

Item	Basic Machine, Standard Shock,	Optional Vibration Capability**
Type of Machine:	Pneumatic Driven Piston with MEP Programmers	ED Actuator with Random & Sine Rotary and Shock Control Software
Actuator Force		222.4 N, 660 Kgf-cm (575 lbf-in.)
Directionality:	Bidirectional with quick connect changeover of actuator	Bidirectional Actuator
Shock Pulse Shape:	Nominal Haversine	Halfsine, trapezoid, terminal sawtooth using ED control S/W
Typical Shock Capability: @ max air pressure.	50KRad/sec <sup>2</sup> @ 2 msec, 70KRad/sec <sup>2</sup> @ 1.5 msec, 100KRad/sec <sup>2</sup> @ 1 msec.	Repetitive Bump Shock, 2 - 12 msec, 5 - 25g's, depending on control software and user setup.
Table Rotation:	4 inches at outer radius, allows more convenient high speed photography	10°, 1 inch (25.4 mm) peak
Random Vibration:	N/A	10Hz-3KHz, 300 Rad/sec <sup>2</sup> RMS (4.5gRMS @ 5.75in radius), 50%/sec
Velocity Change, Max	50 Rad/sec	NA

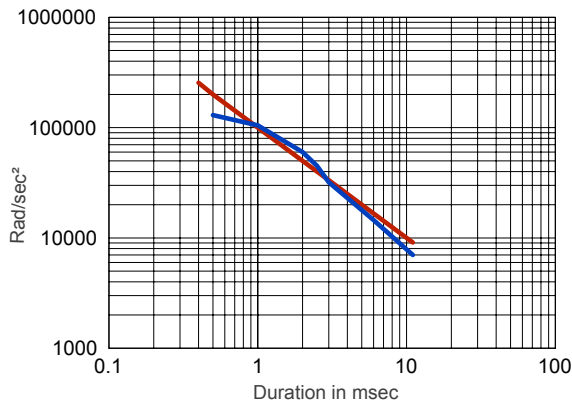


Preliminary Specifications (cont.)

Item	Standard Shock Setup	Option B, Vibration Capability
Actuator:	Pneumatic with vernier flow adjustment for volume, adjustable pneumatic stroke shock absorber. 12V DC solenoids for piston valve control, allowing remote operation in conjunction with other test systems.	ED Actuator, 100lbF with power amplifier and cooler, Random & Sine Vibration Control Hardware and Software, Bump Shock Software optional.
Test Unit Mounting:	8.8 inches (223 mm) diameter mounting hole grid: 0.984 inch (25 mm) centers with Heli-Coil inserts. #7 Metric	Same
Brake-after-impact:	Pneumatic energy absorber with adjustable damping. Reduces braking shock to less than 10% of primary shock.	NA
Test Sample weight	6 lbs (3kG), Max.	Same
Supply air requirements:	100-120 PSI dry filtered air	N/A
Off-axis noise amplitude, 0 to 5KHz bandwidth:	Less than 20% of primary magnitude within spectral band from 0 to 5KHz, at fixture mounting points.	Same
Physical Size:	19 x 39 in (483 mm x 990 mm) base 16 in (406 mm) High	19 x 39 in (483 mm x 990 mm) base 7 in (178 mm) High
Weight	Approx 280 lbs (127 Kg)	Approx 390 lbs (177 Kg)

\*\* Includes VTS actuator and random controller. Sine & Bump Shock additional.

Constant Velocity Change Graph



Computed versus measured performance limited to a max velocity change of 50 Rad/sec. Programmers and machine were not optimized for shocks longer than 3 msec.

— Test Data  
— Computed Max

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\*Specifications subject to change without notice. Contact Factory for current price and delivery information.