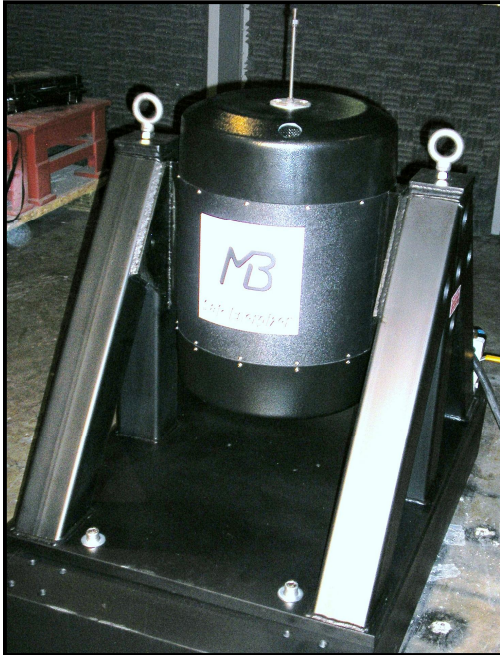
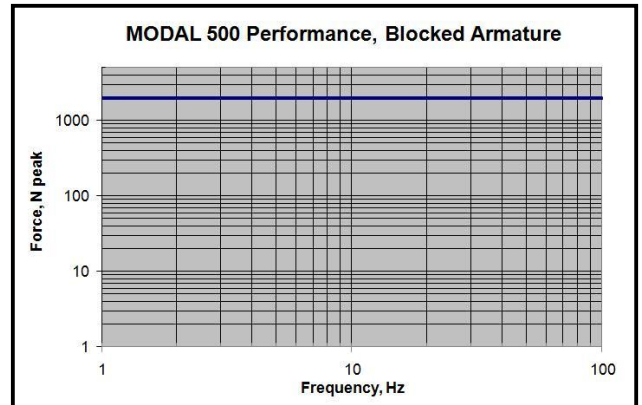


# MODAL 500 Modal Exciter

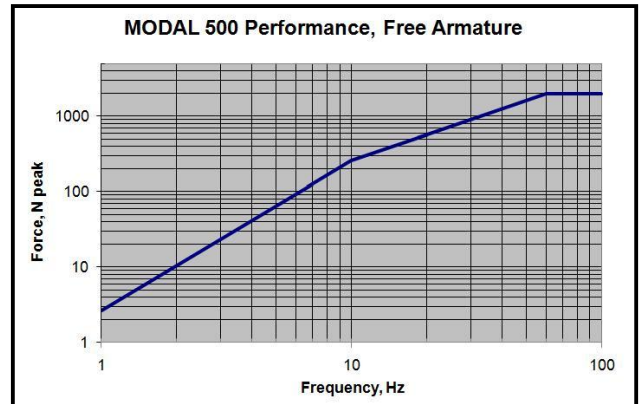


**MODAL 500 in Trunnion Base  
(other base designs available)**

**Blocked Armature:** high stiffness reflected by test item back into MODAL 500 and no movement of MODAL 500 body. A measure of low frequency force output



**Free Armature:** no stiffness reflected by test item back into MODAL 500 and no movement of MODAL 500 body. A measure of low frequency force output



## MODAL 500 Technical Specifications (Air Bearings for Armature Guidance)

Force Output with Forced Air cooling  
Force Output with Ambient Air cooling  
Stroke  
Velocity  
Acceleration  
Frequency Range  
Moving Element Weight  
Moving Element Axial Resonance  
Driven-Axis Stiffness

Exciter Weight, incl. Trunnion Base  
Stinger Attachment  
Shaker Attachments

Dimensions  
Drive Cable Length  
Accessory Kit

Cooling  
Force Sensor (optional)

- \* 2,000N pk sine excitation (450 lbf); 1,300N RMS random (290 lbf)
- \* 1,000N pk sine excitation (225 lbf); 650N RMS random (145 lbf)
- \* 50mm peak-to-peak (2 in.)
- \* 1.75m/s peak (70 inches/second)
- \* 68 g pk continuous sine
- \* DC-1000 Hz usable to 3000 Hz
- \* Less than 3.0kg (6.6 lbs.)
- \* Approximately 3,000 Hz
- \* Air bearings provide outstanding sine waveform purity especially at low frequencies where flexure distortion can be troublesome (Quiet, portable compressor supplies air to bearings)
- \* 200kg (440 pounds)
- \* M6 (1/4"-28) female thread on shaker armature
- \* Floor mount with trunnion base; suspension mount with multiple turnbuckles
- \* 457mm X 355mm Footprint X 516mm High (18" X 14" X 20 5/16")
- \* 10m (32 ft.); up to 50m (160 ft.) optional
- \* Turnbuckles, wrenches, M6/M10/M4 stingers X 400mm long; (Optional bolt-on-masses for additional inertia with nuts & bolts)
- \* Portable unit; optional Quiet Enclosure < 60dBA; or shop air
- \* 2,225N (500 lbs.) tension & compress; 10 mV/lb (2248 mV/kN)