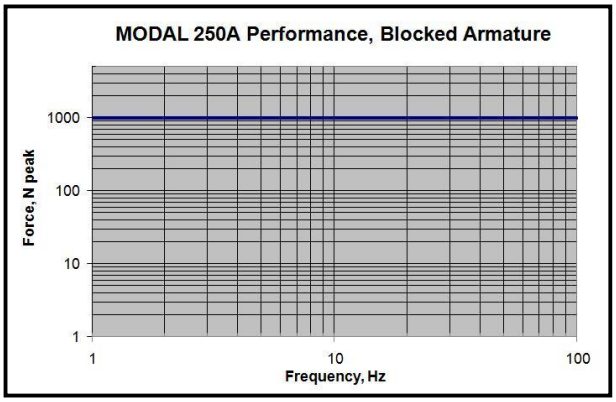
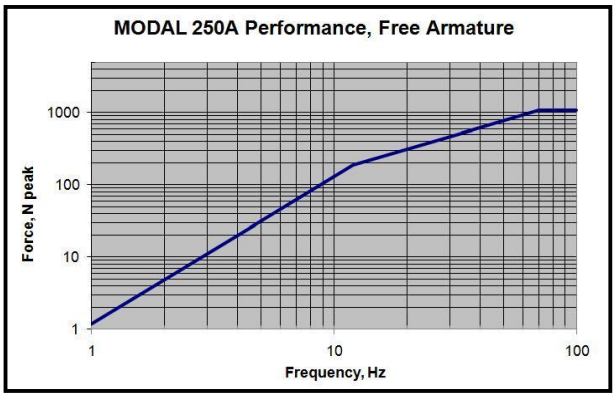
MODAL 250A
Modal Exciter

MODAL 250A in Trunnion Base

Blocked Armature: high stiffness reflected by test item back into MODAL 250A and no movement of MODAL 250A body. A measure of low frequency force output



Free Armature: no stiffness reflected by test item back into MODAL 250A and no movement of MODAL 250A body. A measure of low frequency force output



MODAL 250A Technical Specifications (Air Bearings for Armature Guidance)

Force Output with Forced Air cooling	* 1,000N pk sine excitation (225 lbf); 650N RMS random (145 lbf)
Force Output with Ambient Air cooling	* 550N pk sine excitation (125 lbf); 325N RMS random (75 lbf)
Stroke	* 50mm peak-to-peak (2 in.)
Velocity	* 1.75m/s peak (70 inches/second)
Acceleration	* 80 g pk continuous sine
Frequency Range	* DC-1000 Hz usable to 3000 Hz
Moving Element Weight	* Less than 1.4kg (3.0 lbs.)
Moving Element Axial Resonance	* Approximately 2,000 Hz
Driven-Axis Stiffness	* Air bearings provide outstanding sine waveform purity especially at low frequencies where flexure distortion can be troublesome (Quiet, portable compressor supplies air to bearings)
Exciter Weight, incl. Trunnion Base	* 115kg (250 pounds)
Stinger Attachment	* M6 (¼-28) female thread on shaker armature
Shaker Attachments	* Floor mount with trunnion base; suspension mount with multiple turnbuckles
Dimensions	* 457mm X 355mm Footprint X 436mm High (18òX 14òX 17 3/16ò)
Drive Cable Length	* 10m (32 ft.); up to 50m (160 ft.) optional
Accessory Kit	* Turnbuckles, wrenches, M6/M10/M4 stingers X 400mm long; (Optional bolt-on-masses for additional inertia with nuts & bolts)
Cooling	* Portable unit; optional Quiet Enclosure < 60dBA; or shop air
Force Sensor (optional)	* 2,225N (500 lbs.) tension & compress; 10 mV/lb (2248 mV/kN)

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