



ENERGIZER RED

Exciter System

- ❖ **MB's ENERGIZER family has a new addition with a new look! Unveiling the ENERGIZER RED – quieter – smaller – lighter – and RED!**
- ❖ **MB S&R ENERGIZERS set the standard for quiet exciters for Squeak & Rattle tests!**

The ENERGIZER RED delivers 110 lbs force (500N) with 1.5" stroke pk-pk, and is even more "Whisper Quiet" than its predecessors, the ENERGIZER BLACK and ENERGIZER BLUE.

- ❖ **Quiet for Squeak & Rattle tests**
- ❖ **Robust for durability tests**
- ❖ **Stiff, quiet flexures safely support non-centered, unbalanced payloads**
- ❖ **Stiff, quiet, patented flexures support 13 lbs. (6kg) payloads, vertical and horizontal**
- ❖ **Large mounting table: 4" (100mm)**
- ❖ **Trunnion base**
- ❖ **1.5" of stroke (38mm) pk-to-pk**
- ❖ **Lightweight shaker: 65 lbs. (30kg)**
- ❖ **Neodymium permanent magnets**



ENERGIZER RED EXCITER SPECIFICATIONS

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| <ul style="list-style-type: none"> ❖ Quiet Package, no exciter noise, no cooling for Squeak & Rattle (S&R) ❖ S&R Background Noise: 0.6 sones N(10) loudness (25 dBA), when running typical S&R random vibration profile of 0.36 gRMS, 8-100 Hz, microphone 10" (250mm) above mounting table ❖ Force: 110 lbf peak (500 N pk) forced-air cooled; 55 lbf pk (250 N pk) convection cooled ❖ Force: 75 lbf RMS (350 N RMS) forced-air cooled; 40 lbf RMS (175 N RMS) convection cooled ❖ Max. stroke: 1.5" (38 mm) p-p ❖ Max. velocity: 50 in/sec (1.3 m/s) ❖ Max. acceleration: 30 g's pk, bare mounting table ❖ Bandwidth, Full Performance: DC-6000 Hz ❖ Bandwidth, Usable: DC-9000 Hz ❖ Armature / mounting table weight: 3.4 lbs (1.6kg) ❖ Armature / mounting table resonance: 5500 Hz ❖ Mounting table: 4 in. (100mm) diameter, with 2" X 2" grid for fixtures (50mm X 50mm); ¼"-28 (M6) inserts | <ul style="list-style-type: none"> ❖ Max. Payload: 13 lbs. (6kg) vertical (without optional air spring) & 13 lbs. (6kg) horizontal ❖ Achieves full force with 10 lbs (4.5kg) payload, vertical or horizontal ❖ Stiff load support with patented flexures resists overturning moments due to offset or "high CG" payloads; horizontal CG offset ≤150mm ❖ Max. overturning moment: 100 in-lbs. (11Nm) ❖ Suspension driven-axis stiffness: 50 lbf/in (8.8 kN/m) ❖ Suspension transverse stiffness: 2500 lbf/in (435 kN/m) ❖ Weight with trunnion base: 65 lbs (30kg) ❖ Dimension: 14" X 12" X 12.4" H (355mm X 305mm X 315mm H) ❖ CE Mark ❖ Shaker cooling: aux. fan cooling package or factory air (optional) ❖ Portable, bolt-on inertial masses for heavy payload or high g combinations (optional) |
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