



Model 2924A Low frequency comparison vibration shaker

Features

- Frequency range <1 Hz to 200 Hz
- Six inch peak-to-peak displacement
- Increased signal-to-noise ratio at low frequencies
- Optical over-travel detector
- Rigid floor-mounted base

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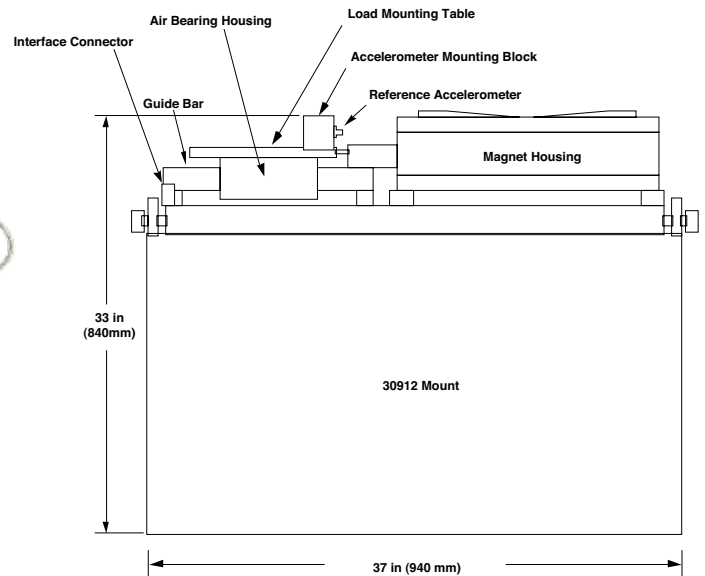
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Description

The Endeveco® model 2924A low frequency comparison vibration shaker (long stroke) supports the need for high signal-to-noise ratio at low frequencies, by generating larger accelerations at low frequencies. The shaker's six inch peak-to-peak displacement extends calibration frequencies to < 1 Hz (when using a dc-coupled reference accelerometer).

Model 2924A features low waveform distortion, very low transverse motion (typically < 1%), low magnetic fields, and very low temperature changes even when running continuously at maximum displacement.

Optical over-travel detectors protect the shaker from damage.



Model 2924A

Low frequency comparison vibration shaker

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Specifications

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

Dynamic characteristics

Frequency range	1 to 200 Hz	
Force rating (continuous)	1 to 100 Hz	20 lb (94 N) vector
Maximum stroke	6 in (15.2 cm) pk-pk*	
Rated velocity	60 in/s (150 cm/s)	
Maximum acceleration	200 gram load	6 g vector
Magnetic field	Permanent magnet	
Air supply		
Air pressure required	60 psig (42 N/cm ²)	
Filtration required	10 micron filter	

*Normal operating transducer displacement is typically 100 mm to allow safety margin.

Armature characteristics

Electrical resistance	3.6 Ω
Moving mass	
Armature plus table	2.4 lb (1.1 kg)
Mounting fixture	0.44 lb (0.2 kg)
Suspension resonance	<1 Hz

Physical

Weight Shaker	140 lbs (64 kg)
Base/Mount	450 lbs (205 kg)
Size	See Figure 1

Environmental characteristics

Temperature	Operating 32°F to 122°F (0°C to 50°C) Storage -40°F to 185°F (-40°C to 85°C)
Altitude	Not affected
Humidity	5% to 90% non condensing

Accessories

Product	Description	2924A
30912	Shaker mount assembly	Included
32594 (Qty 2)	Bearing plate	Included
31650 (Qty 2)	Bearing disk	Included
EH695 (Qty 4)	Socket head cap screw .75-10x2.5	Included
EH701 (Qty 2)	Socket head cap screw .75-10x1.25	Included
EHM1027	Wrench, 5/8 allen	Included
7290A-10	MICROTRON accelerometer (if below < 1 Hz)	Optional
7751-500	ISOTRON accelerometer (standard reference)	Optional

NOTE: A second 7751-500 may also be used as a transfer standard



Continued product improvement necessitates that Endevco reserve the right to modify these specifications without notice. Endevco maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability.