VIBRATION AND SHOCK TESTING

Electrodynamic Vibration Test System 3 kN (TL-VS-3)

Model TL-VS-3 | **3 kN** | **5–4.000 Hz** | **IEC 60068-2-6**

DESCRIPTION

Electrodynamic vibration system that verifies the structural reliability of products by simulating vibration in transport, use and harsh environments. 300 kgf (≈ 3 kN) sine and random force, 5–4,000 Hz, with horizontal slip table and vertical head expander; sine, random, shock and road-spectrum tests.



Image for illustration; configuration may differ

TECHNICAL FEATURES

- Sine and random force 300 kgf; shock force (6 ms) 600 kgf
- Armature Ø150 mm, moving mass 3 kg; first resonance 2,900 Hz; axial isolation < 3 Hz
- Horizontal slip table 400 × 400 mm magnesium, ≤ 150 kg, 2,000 Hz; vertical head expander 400 × 400 mm aluminium, 2,000 Hz
- Vibration controller: sine, random, shock and road spectrum; power amplifier
- Shaker size 840 × 563 × 677 mm, weight 490 kg (unpacked)
- Frequency 5–4,000 Hz; displacement 25.4 mm (p-p); velocity 2 m/s; acceleration 981 m/s²
- Max. load 120 kg; allowable eccentric moment > 196 N·m; 12 mounting points (M8)
- Pneumatic support and automatic centring; air cooling (water cooling option)
- Over-current, over-voltage, over-temperature and displacement-limit protection; leakage flux ≤ 1 mT

APPLICABLE METHODS

IEC 60068-2-6 Sinusoidal vibration	**IEC 60068-2-64** Broadband random vibration	**IEC 60068-2-27** Shock	**ISO 16750-3** Road vehicles – mechanical loads
ISTA Packaged-product transport tests			

SUPPLY AND SERVICE

- One (1) year warranty
- Installation, commissioning and operator training
- Remote technical support after installation
- Spare parts and service from Istanbul

WHY TLI-TEXLABINSTRUMENTS

- Control system and software by TLI-TexLabInstruments
- CE marked instruments
- ISO 9001 / 14001 / 45001 certified manufacturer
- Direct sales to 16 countries and the EU

Please note: Values refer to the standard configuration; room and chamber dimensions, electrical power and site requirements are given in the technical specification of the ordered configuration. Image for illustration; the delivered configuration may differ.

Specification and quotation

Send us your test specification and specimen details.

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Product page: www.texlabinstruments.com/en/p/txl-gen-034-electrodynamic-vibration-test-system-tl-vs-3
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