

DONGLING TECHNOLOGIES Air Cooled Shaker

The air-cooled series electro-dynamic vibration test system has the advantages, such as wide frequency range, excellent indicators, high reliability, small floor space, easy to move, and easy to operate.

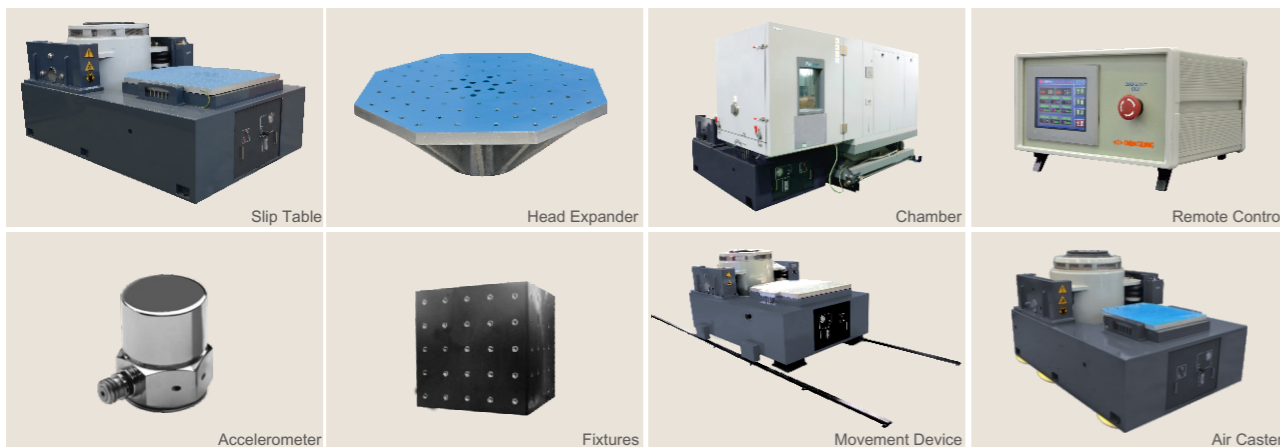
At present, this series has a variety of models of vibration generators to choose. The exciting force range is from 1kN to 70kN and maximum load is from 70 kg to 1000 kg. Also, the climate and mechanics environmental testing equipments are provided.



Performance characteristics

- Sinusoidal excitation force range: 1kN ~ 70kN
- Random to sinusoidal excitation force ratio 1:1
- Two-times-of-sine shock force (Three times optional)
- Displacement peak-to-peak value of 25mm, 40mm, 51mm, 76mm or 100mm
- Lightweight armature with optimization design and strong vibration-resistant performance, and with better vibration isolation effect of air spring at trunnion position
- Strong bearing capacity of air spring in central room, and good low-frequency performance
- Double magnetic circuit design, with low flux leakage and uniform magnetic field
- Sine, Random and Shock etc. test function
- Good cooling effect and low noise fan

Optional accessories: **TechnoPRIST ТехноПрист**



ES-50LS4-445		
System Performance	Metric	American
Rated Sine Force	50 kN	11000 lbf
Rated Random Force	50 kN	11000 lbf
Rated Shock Force	100/150* kN	22000/33000* lbf
Usable Frequency	DC-2600 Hz	DC-2600 Hz
Maximum Velocity	2/2.5* m/s	78.7/98.4* in/s
Maximum Acceleration	900 m/s ²	90 g
Maximum Static Payload	800 kg	1760 lbs
Resonance Frequency	2300±5% Hz	2300±5% Hz
Maximum Displacement (p-p)	100 mm	4 in

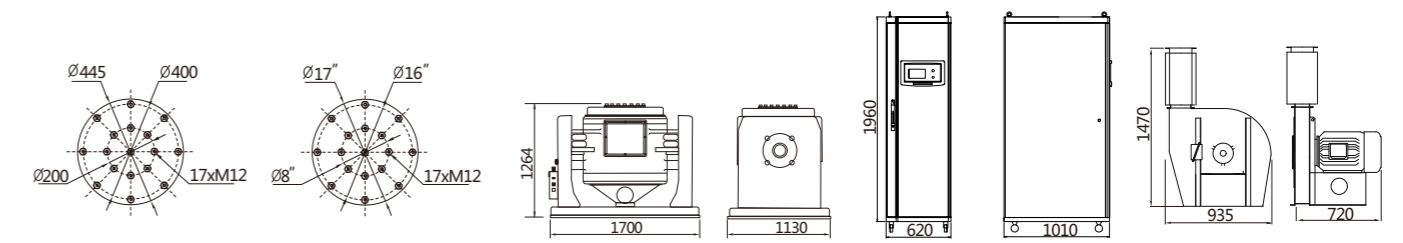
Shaker: ET-50LS4-445		
Mass of Moving Elements	56 kg	123 lbs
Armature Diameter	445 mm	17.5 in
Weight Uncrated	4500 kg	9921 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	1700×1130×1264 mm	66.9×44.5×49.8 in

Power Amplifier: SDA-50		
Power	50 kVA	50 kVA
Power Supply Requirement	82 kVA	82 kVA
Dimension L×W×H	620×1010×1960 mm	24.4×39.8×77.2 in
Weight Uncrated	550 kg	1213 lbs

Blower: B-5000		
Power	15 kW	20.12 hp
Air Flow	1.1 m ³ /s	1100 l/s
Air Pressure	7.7 kPa	1.117 psi
Weight Uncrated	255 kg	562 lbs

- ### Options
- Magnesium or Aluminum Armature
 - Combo or Standalone Slip Table
 - Motorized Shaker Body Rotation System
 - Head Expanders and Vertical Support Platforms
 - Thermal barrier
 - Customized Fixtures (T, L, Cube)
 - Pneumatic Isolators or Free Foundation Isolation Base
 - Air Caster or Glide Rail
 - Enclosed Air Inlet and Outlet Ducts
 - Remote control

Outline Drawing



Shaker ET-50LS4-445 Power Amplifier SDA-50 Blower B-5000

NOTE: In keeping with our commitment to continuous product improvement, the information herein is subject to change.