

ES-70LS3-550

System Performance	Metric	American
Rated Sine Force	70 kN	13200 lbf
Rated Random Force	70 kN	13200 lbf
Rated Shock Force	140/210* kN	30800/46200* lbf
Usable Frequency	DC-2500 Hz	DC-2500 Hz
Maximum Velocity	2/2.5* m/s	78.7/98.4* in/s
Maximum Acceleration	850 m/s ²	85 g
Maximum Static Payload	1000 kg	2200 lbs
Resonance Frequency	2100±5% Hz	2100±5% Hz
Maximum Displacement p-p	76 mm	3 in

Shaker: ET-70LS3-550

Mass of Moving Elements	82 kg	181 lbs
Armature Diameter	550 mm	21.7 in
Weight	7300 kg	16094 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	1820×1297×1518 mm	71.6×50.1×59.71 in

Power Amplifier: SDA-70

Power	70 kVA	70 kVA
Power Supply Requirement	108 kVA	108 kVA
Dimension L×W×H	620×1010×2106 mm	24.4×39.8×82.9 in
Weight Uncrated	700 kg	1543 lbs

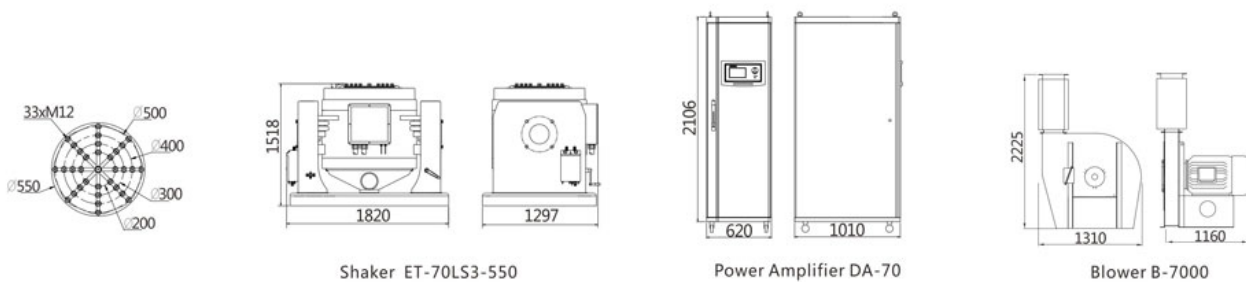
Blower: B-7000

Power	22 kW	29.5 hp
Air Flow	1.6 m ³ /s	1600 l/s
Air Pressure	7.5 kPa	1.09 psi
Weight Uncrated	340 kg	750 lbs

Options

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

Outline Drawing



Shaker ET-70LS3-550

Power Amplifier DA-70

Blower B-7000

Air-cooled Series

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

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