

ES-20-445

System Performance	Metric	American
Rated Sine Force	20 kN	4400 lbf
Rated Random Force	20 kN	4400 lbf
Rated Shock Force	40/60* kN	8800/13200* lbf
Usable Frequency	DC-2800 Hz	DC-2800 Hz
Maximum Velocity	2/2.5* m/s	78.7/98.4* in/s
Maximum Acceleration	700 m/s ²	70 g
Maximum Static Payload	300 kg	660 lbs
Resonance Frequency	2600±5% Hz	2600±5% Hz
Maximum Displacement p-p	51 mm	2 in

Shaker: ET-20-445

Mass of Moving Elements	28 kg	62 lbs
Armature Diameter	445 mm	17.5 in
Weight	1700 kg	3748 lbs
Body Suspension Natural Frequency	<2.5 Hz	<2.5 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	1222×760×1052 mm	48.1×29.9×41.4 in

Power Amplifier: SDA-20

Power	20 kVA	20 kVA
Power Supply Requirement	44 kVA	44 kVA
Dimension L×W×H	607×820×1593 mm	23.9×32.3×62.7 in
Weight Uncrated	450 kg	992 lbs

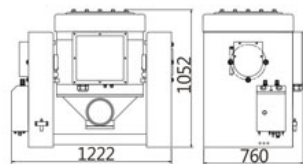
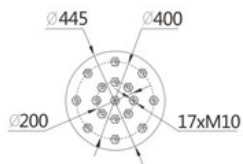
Blower: B-2000LN

Power	7.5 kW	10.06 hp
Air Flow	0.71 m ³ /s	710 l/s
Air Pressure	3.5 kPa	0.508 psi
Weight Uncrated	140 kg	309 lbs

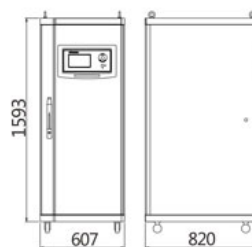
Options

- 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

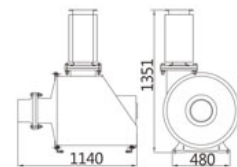
Outline Drawing



Shaker ET-20-445



Power Amplifier SDA-20



Blower B-2000LN

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.