

### ES-20-320

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-3000 Hz	DC-3000 Hz
Maximum Velocity	2/2.5* m/s	78.7/98.4* in/s
Maximum Acceleration	1000 m/s <sup>2</sup>	100 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-20-320

Mass of Moving Elements	20 kg	44 lbs
Armature Diameter	320 mm	12.6 in
Weight	1700 kg	3736 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	44kVA	44 kVA
Dimension L×W×H	607×820×1593 mm	23.9×32.3×62.7 in
Weight Uncrated	450 kg	992 lbs

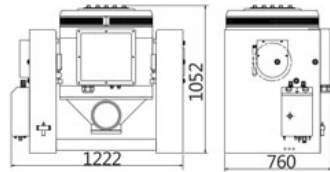
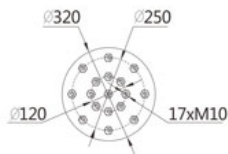
#### Blower: B-2000LN

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

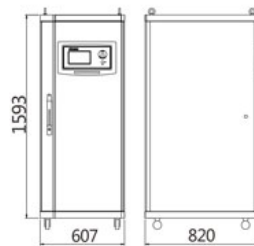
#### Options

- 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

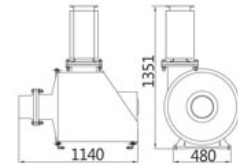
#### Outline Drawing



Shaker ET-20-320



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.