

ES-500-1070

System Performance	Metric	American
Rated Sine Force	500 kN	110000 lbf
Rated Random Force	400 kN	88000 lbf
Rated Shock Force	1250 kN	275000 lbf
Usable Frequency	DC-1500 Hz	DC-1500 Hz
Maximum Velocity	2 m/s	78.7 in/s
Maximum Acceleration	1000 m/s ²	100 g
Maximum Static Payload	15000 kg	33069 lbs
Resonance Frequency	1300 Hz	1300 Hz
Maximum Displacement p-p	60 mm	2.36 in

Shaker: ET-500-1070

Mass of Moving Elements	500 kg	1000 lbs
Armature Diameter	1070 mm	42.2 in
Weight	About 32000 kg	About 70548 lbs
Body Suspension Natural Frequency	3 Hz	3 Hz
Stray Flux Density	<10 Gauss	<10 Gauss
Dimension L×W×H	3500×2200×2250 mm	137.8×86.6×88.6 in

Power Amplifier: SDA-500

Power	630 kVA	630 kVA
Power Supply Requirement	660 kVA	660 kVA
Dimension L×W×H	7760×1010×2070mm	305.5×39.8×81.5 in
Weight Uncrated	About 7000 kg	About 15432 lbs

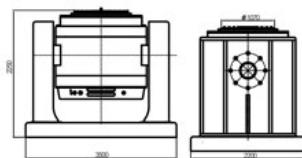
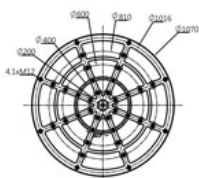
Water Cooling: CU-4

Internal Circle Water Flow (Distilled Water)	260 L/min	57.2 gal/min
Internal Circle Water Pressure (Distilled Water)	1 Mpa	147.4 psi
External Circle Water Flow (City Water)	670 L/min	70.4 gal/min
External Circle Water Pressure (City Water)	0.25-0.4 Mpa	36-58 psi
Water Pump Power (Internal/External)kW	8/12 kW	18/12 kW
Distilled Water Requirement	Hardness 30ppm, PH7~8, Conductivity 1Us/cm	
Unit Weight (kg)	About 450 kg	About 772 lbs
Dimension L×W×H	1157×1010×2070 mm	23.9×39.8×81.5in

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
- Cooling tower
- Thermal barrier
- Remote control

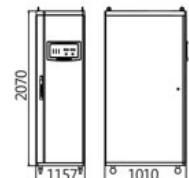
Outline Drawing



ET-500-1070



Power Amplifier SDA-500



Water Cooling CU-4

Water-cooled Series

Water-cooled Vibration test system features with the large force, large bearing capacity and high cooling efficiency, to complete the tri-axial sinusoidal vibration test, broadband random vibration test and classical (semi-sinusoidal, trapezoidal, and postpeak sawtooth) pulse and shock response spectrum test. The multi-environment combined test can be completed with the equipped climate chamber. At present, this series has a variety of models to choose. The exciting force range is from 50 kN to 500 kN and maximum load is from 800 kg to 10000 kg.

Performance characteristics

- Random to sinusoidal excitation force ratio: 1:1
- Two-times-of-sine shock force (Three times optional)
- Displacement peak-to-peak: 51mm, 76mm or 100mm
- Lightweight armature and large working table
- Better vibration isolation effect of air spring at trunnion position
- Large bearing capacity of air spring in central room, and good low-frequency performance
- Equipped with an automatic centering system, to control the armature is always in the balance position during movement
- Double magnetic circuit design, with low flux leakage and uniform magnetic field

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