

ITS-300 *Vibration Testing System*



System Overview

ITS-300 Electro-dynamic vibration testing system is consisted of shaker, amplifier, slip table (optional), Head expander (optional), vibration controller, accelerometer, etc. It can accomplish tests of sine, random, shock, mixed, road simulation, etc.

ITS-300 Electro-dynamic vibration testing system possess the advantages of wide frequency band, outstanding indexes, high reliability, small occupation space, high mobility, and user-friendly, etc. Its standard vibration simulation has wide application in military, auto parts, electronics, household appliances, transportation, etc.

Features

- ◆ Top and bottom guide rollers structure, strong resistance to overturn, good guidance quality, wide working frequency band
- ◆ Central airbag support the structure, high support capacity.
- ◆ Air spring trunnion vibration isolation structure reduces the resonance of the shaker.
- ◆ “dual magnetic circuit” structure reduce the magnetic leakage, increase the evenness of the magnetic field
- ◆ Full protection function, easy for maintenance.
- ◆ Well designed air cooling system, low noise.



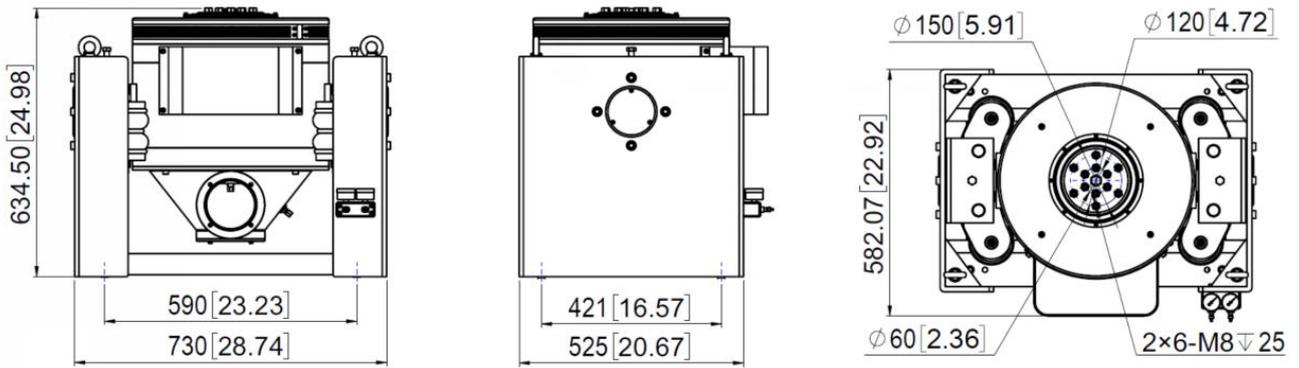
| ITS-300 | | | |
|---------------------------------|----------------------------|---------------------------------|---|
| Max. Sine Force | 300kgf (661.39 lbs) | Max. Random Force | 210kgf (462.97lbf) |
| Frequency range | 2-3000Hz | Equivalent mass of moving parts | 3kg (6.61lbs) |
| Max displacement (p-p) | 25.4mm (1 in) | Load joint | 6 ∅ 60mm (2.36in) , 6 ∅ 120mm (4.72in) |
| Max speed | 2m/s (78.7in/s) | Table bolt | M8 |
| Max acceleration | 981m/s ² (100g) | Magnetic leakage | <1mT |
| First order resonance frequency | 3000Hz | (L*W*H) overall dimension | 730mm*600mm*640mm (28.74in*23.62in*25.20in) |
| Max load | 120kg (264.55lbs) | Shaker weight (without package) | 520kg (1146lbs) |
| Vibration isolation frequency | <3Hz | Cooling | Air Cooling |
| Table diameter | ∅ 200mm (7.87in) | | |

| VSA-S302 Amplifier parameters | | PBL-1 Blower parameters | |
|--------------------------------------|--|--------------------------------|---|
| Max output power | 4kVA (4.8A) | Blower power | 0.75kW |
| Rated output voltage | 120Vrms | Blast capacity | 0.2m ³ /s (7.06ft ³ /a) |
| SNR | >65dB | Blast pressure | 0.015kgf/cm ² (0.21psi) |
| Efficiency of the amplifier | >93% | Diameter of air duct | 120mm (4.72in) |
| Dimensions of amplifier (L*W*H) | 800mm*600mm*1558mm (31.50in*23.62in*61.34in) | Dimensions of blower(L*W*H) | 450mm*550mm*1100mm (17.72in*21.65*43.31in) |
| Amplifier weight (without package) | 320kg (705 lbs) | Blower weight(without package) | 48kg (105.82lbs) |

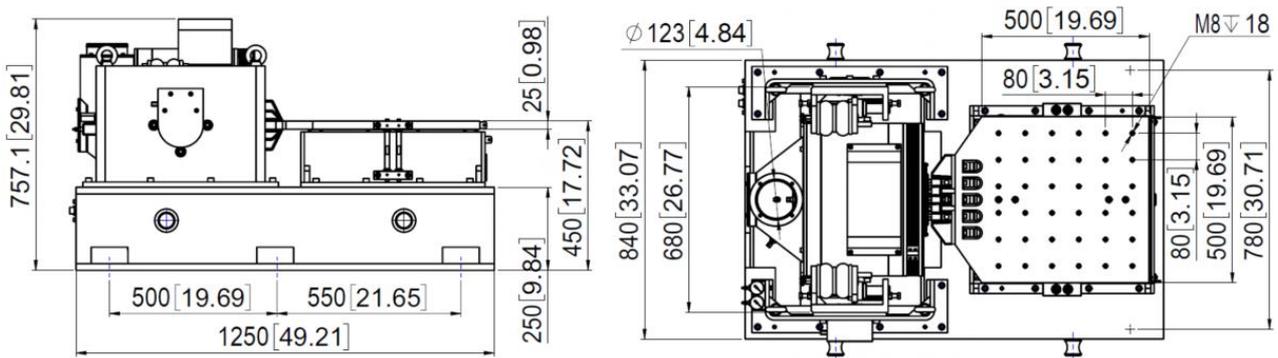
| Environment requirement | | Optional configuration | |
|--------------------------------|------------------------------------|-------------------------------|----------------------|
| Temp | 0-40°C (32-104F) | Slip table | Head expander |
| Humidity | 0%-90%RH, no frost | Moving parts | Heat isolation board |
| Power requirement | 3phase 480V±10%, 60Hz, 26kVA (31A) | Fixture | |
| Requirement of pressing air | 0.6MPa (87psi) | | |

ITS-300 Dimension Diagram

Vertical mode diagram



Horizontal mode diagram



Table, amplifier and blower

