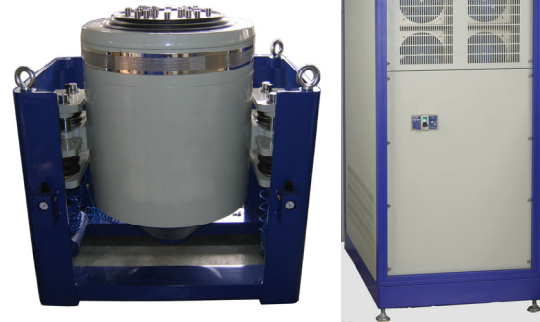




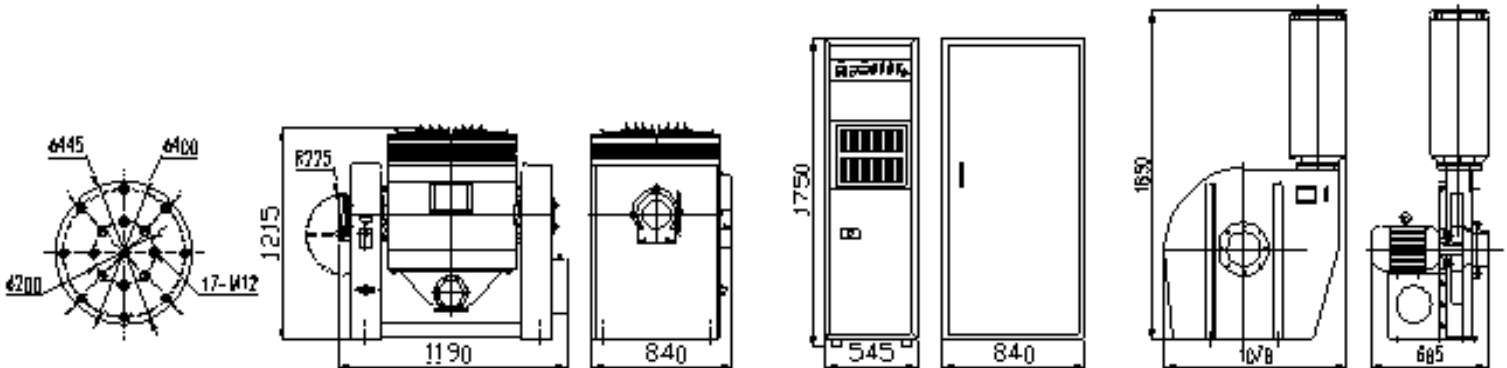
DS-9000-LS

- 8,800 POUNDS PEAK FORCE
- **FOUR INCH STROKE**
- IGBT AMPLIFIER DESIGN
- 100% AIR COOLED
- **BEST WARRANTY IN THE INDUSTRY!**



The **DS-9000LS** is a long stroke, wideband frequency electro-dynamic vibration test system designed with special features to meet the testing requirements of the automotive, aviation, military, medical and electronic manufacturing industries for small to medium sized payloads. The 100% air-cooled system consists of a DS-9000LS-175 shaker, driven by our DS40 state-of-the-art digital switching amplifier and a 15 KW remote cooling blower.

- **Wide Useable Frequency Band** Dynamic Solution's SA-series power amplifiers are designed using the latest IGBT technology. The system operates over a useful frequency range of 5 to 2,800Hz.
- **High Fundamental Resonance** The DS9000LS armature is constructed using an unique aluminum alloy that is lightweight with remarkable stiffness, raising the fundamental resonant frequency to 2,400 Hz.
- **100% Air Cooled** The DS-9000LS shaker system is 100% air cooled for easy installation and economical operation.
- **High Overturning Moment** The DS9000LS armature design incorporates a dual guidance system employing four robust roller-structures for top guidance and a unique roller-bearing for bottom guidance. Since the distance between the top and bottom guidance systems is longer, the system is capable of providing higher overturning moments which is important when testing products with high centers of gravity.
- **Integral Pneumatic Payload Support** A superior integral pneumatic load support system guarantees a full nominal displacement with a maximum vertical payload of up to eleven-hundred pounds! An optical auto armature-centering sensor is standard for optimal system performance.
- **Worm Wheel System for Easy Rotation** The DS9000LS shaker comes standard in a Vertical/Horizontal rotating trunnion configuration. The thrust direction is adjusted using an easy to operate worm wheel system located on the side of the trunnion. The shaker can be operated in the vertical axis or rotated 90° for horizontal operation with an optional combination base or stand-alone slip table assembly.



DS-9000-LS/175-40

Shaker Specifications			
Sine (Pk)	4,000 kgf (8,800 lbf)	Load Attachment Points (Standard)	17 stainless steel M12 Inserts (UNC option)
Random (RMS)	4,000 kgf (8,800 lbf)		
Shock (Pk)	8,000 kgf (17,600 lbf)	Degauss Coil	Standard
Usable Frequency	5 to 2,800 Hz	Stray Flux Density @6 inch (152 mm) above table	< 1 mT (10 gauss)
Displacement (p-p)	Maximum 100mm (4")		
	Continuous 90 mm (3.5")	Overall Dimensions	1190mmL×840mmD ×1215mmH (46.9"L×33.1"D× 47.8"H)
Maximum Velocity	180 cm/s (70.9 in/s)		
Maximum Acceleration	100 g		
Fundamental Resonance Frequency (Bare table)	2,400 Hz (nom.) +/- 5%	Weight of Shaker (Uncrated)	2,600 kg (5,720 lbs)
Body Suspension Natural Frequency (Thrust Axis)	2.5 Hz	Compressed Air Requirement	0.6 Mpa (87 psi)
Armature Effective Nominal Weight	40 kg (88 lbs)	Auto-Centering Support	<ul style="list-style-type: none"> •Electrical Magnetic Position Centering System •Optical Position Centering System
Vertical Load Support	500 kg (1100 lbs)		
Table Diameter	445 mm (17.5")		

Power Amplifier Specifications SA-40	
Rated Output Capacity	40 kVA
Signal to Noise Ratio	Greater than 65 dB
Amplifier Efficiency	Greater than 90%
Interlock Protection(to prevent the output devices from working outside their specified limits)	<ul style="list-style-type: none"> •Over-Current •Logic Fault •Input Phase Loss •Over-Voltage •System Fault •Input Under-Voltage •Over-Travel •External Fault •Door Interlock •Over-Temp (Field Coil and Driving Coil)

Blower Specifications	
Blower Power (Full Load)	20 HP
Air Flow Rate	Air Flow: 2500 CFM 15 kW Air Pressure: 25 (inch WG)

System Environmental Requirement	
Operating Room Temperature	0 to 40 degree C
Humidity	0 to 80%, non condensing
System Continuous Duty	not less than 7 hours at the full ratings
Power Supply Requirement	380/415/480 VAC, 50/60 Hz, 3Ph, 70 kW

SYSTEM OPTIONS	
<ul style="list-style-type: none"> •Slip Table Configuration •V-Groove Caster and Rail System •Table Inserts 	<ul style="list-style-type: none"> •Head Expander •Thermal Barrier •Air Caster

* Due to continuous product development and improvement, these Specifications are subject to revision without notice.

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