



**UNHOLTZ-
DICKIE
CORP.**

Vibration Test Equipment

Long Stroke

SA15-6X-S



- 3,000 lbs (13.3 kN) Force
- 300 in/s (17 MPH) Velocity Change
- 6 inch (153 mm) Stroke
- 150 g , 10 msec - Haversine with 4 lb Payload
- Bearing Guided Slider
- Modular, High Efficiency SA Series Class D Power Amplifier

Standard System Specifications

Shock	35 ms. (Compensated Haversine)	45 g: 22 lbs (10 kg)
vs	20 ms. (Compensated Haversine)	78 g: 22 lbs (10 kg)
Load lb (kg)		
Shock Force (pk)		3,000 lbf (13.3 kKN)
Max. Velocity Change (pk)		300 in/s (17 MPH)
Displacement (pk-pk) ¹		6.0 inches (153 mm)
Total Weight (Armature + Slider)		16 lbs (7 kg) standard plate 33 lbs (15 kg) large plate
Slider Dimensions ²		3 5/8 x 10 7/8 inch (92 x 276 mm) standard plate 8 x 24 inch (203 x 609 mm) large plate
Amplifier Model (output)		SA15F (15 KVA)
SA Series Power Amplifier EMI Shielding	EMI Shielded Console designed with minimal penetrations including metal gaskets on all external joints, special plating for better electrical continuity and corrosion protection, EMI shielded air cooling screens and 3-phase line filtering standard.	
Stray Gauss Level Standard	Levels measured at 6 inches (152 mm) from end of Thruster shaft attachment < 10 gauss (1.0 mT)	
Thruster Body Isolation Standard	5 Hz	
Optional	4 Hz (with air mounts)	
Total Electrical Requirements	31 KVA	
Total Heat Dissipation		
Shaker :	1.5 KW	
Amplifier :	2.5 KW	
Blower :	17 KW	
Acoustic Noise (@ 2 m) Amplifier	< 70 dBA	
Shaker Body Weight	2,300 lb (1,045 kg)	

The SA15-6X-S is regarded as an industry standard Long Stroke Test System. The system in addition to Sine and Random it can produce highly accurate and repeatable acceleration pulses in the horizontal plane; pulses such as classical haversine and half sine waveforms, The longstroke capability and powerful amplifier can reproduce crash waveforms with velocity changes up to 17 MPH.

Wide Performance Envelope:
Rugged. Lightweight Armature and Slider:
The 6X was designed for reliable and repetitive high acceleration pulse applications. The 6X includes a high strength ribbed magnesium alloy armature, and a rugged specimen and fixturing. The standard slider size is 3 5/8" x 10 7/8" (92 x 276 mm). An optional 8" x 24" (203 x 609 mm) size is available for testing larger or multiple items. Massive Supporting Base:
The system is mounted on a large steel base structure designed to allow easy access to the slider, as well as, shock isolation from the surroundings.