

XLONG STROKE ELECTRO-DYNAMIC SHAKER

Xlong Stroke (400mm p-p) Electro-Dynamic Shaker adopts advanced high-strength driver technology, which can achieve high-speed, large displacement, and large pulse width impact tests.

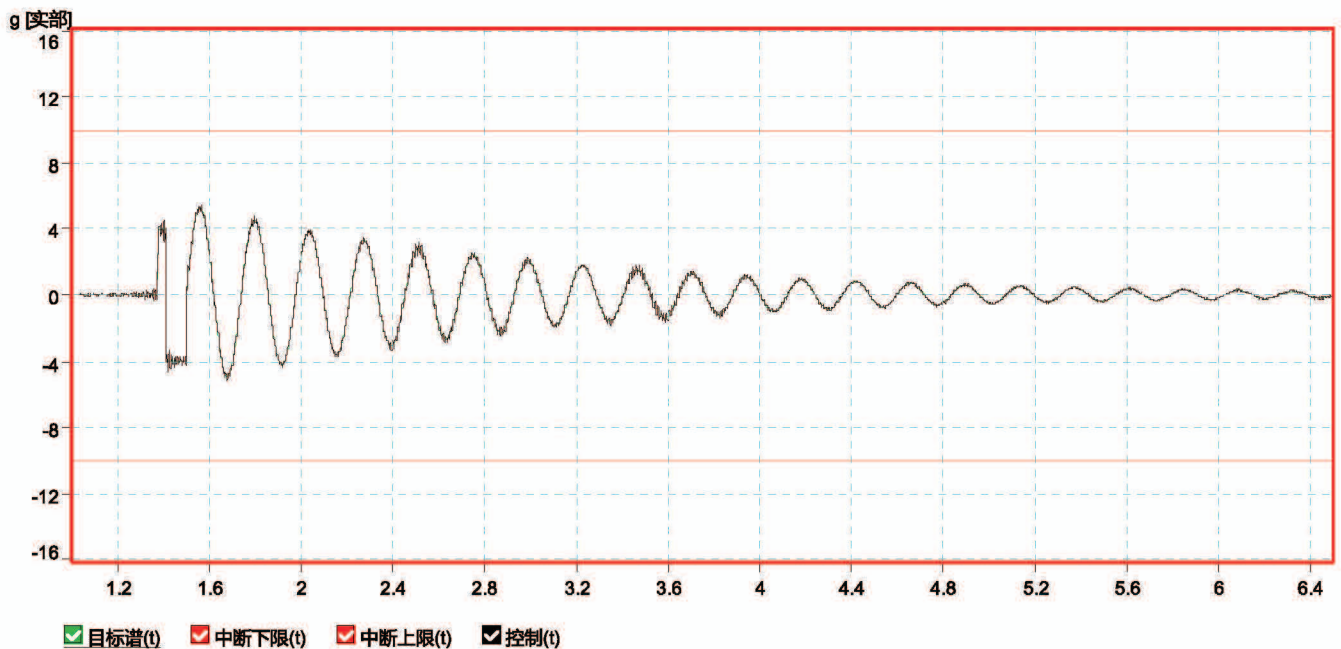
Xlong Stroke ED Shaker is mainly used for extreme testing environments with large displacement, high speed, and large pulse width. It can be used in industries such as aviation, automotive, and shipping, maintaining industry-leading levels of performance and reliability.

System Features

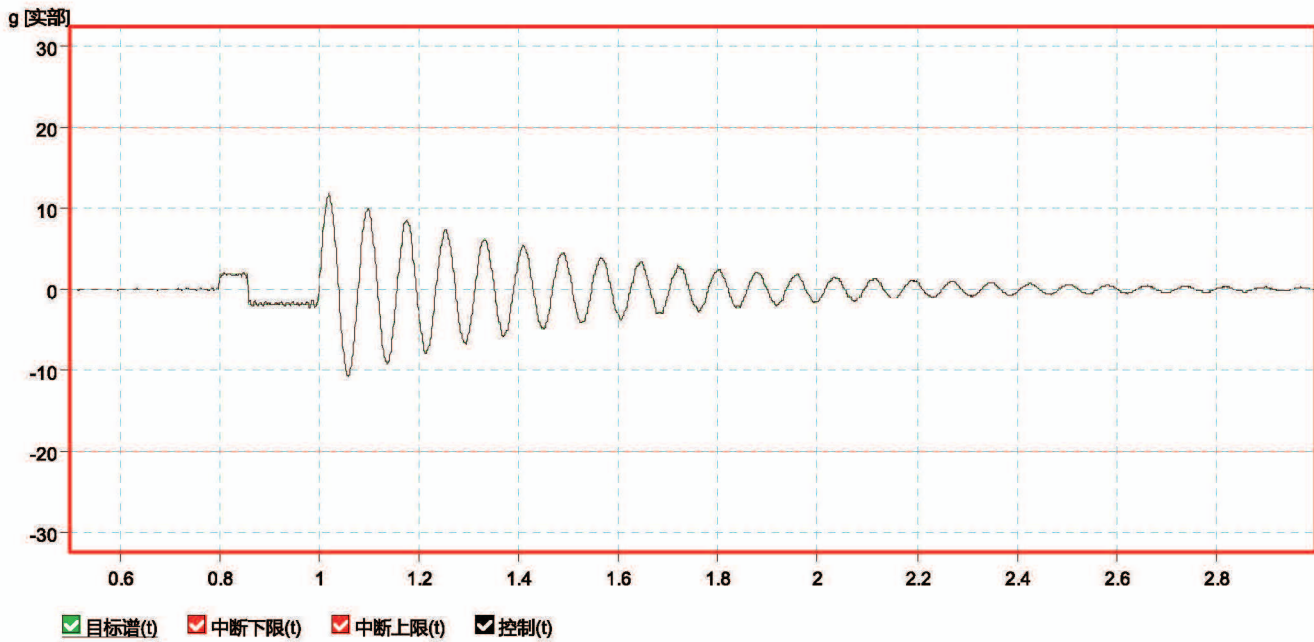
- Large load support capacity
- Small lateral vibration of the working table
- Low waveform distortion and high test accuracy
- Modular design for easy maintenance and repair
- Air-cooled design for environmental friendliness
- Rigid trunnion connection for low-frequency large-displacement vibration

Performance Characteristics

- Max. Load Support: 800kg
- Shock Force: 60-200kN
- Max. Displacement: 400mm (p-p)
- Shock Speed: 6m/s
- Sine Speed: 4.5m/s
- Sine Acceleration: 30g
- Usable Frequency Range: 1-500 Hz



5.5g Damping Test Curve



12g Damping Test Curve

Xlong Stroke Electro-Dynamic Shaker

System Model	ATS20LS-16	ATS40LS-16	ATS70LS-16
Shock Force (kN)	60	100	200
Useable Frequency (Hz)	1-500	1-500	1-500
Displacement (p-pmm)	400	400	400
Sine Acceleration (g)	30	30	30
Shock Speed (m/s)	6	6	6
Sine Speed (m/s)	4.5	4.5	4.5
Effective Mass of Moving Element: (kg)	60	95	160
Armature Diameter (mm)	320	400	480
Armature Inserts Pattern	100-8×M10 200-8×M10	150-8×M10 300-8×M10	200-8×M12 400-8×M12
Max. Internal Load Support (kg)	500	800	1500
Stray Magnetic Field (mT) #	1	1	1
System Working Environment	Ambient Temperature Range: 5-40 Ambient Humidity Range: 0-90% RH no condensation Compressed Air Requirement: 6-8 Bar		