



# Technical Parameters

## Electro-dynamic Shaker

### Long Stroke – DL Series



DL series long-stroke electro-dynamic vibration test system is mainly used for electronic components, auto parts and coastal defense ships which have more strict requirements for the displacement of the system. And DL series system is applicable to the United States ISTA standard.

#### Features

- Function of automatic static and dynamic armature centering
- Unique upper suspension system to make the system has larger displacement and higher velocity. DL series system has 100 mm (p-p) continuous sweep displacement, 2.4 m/s sine sweep velocity and the working frequency is more than 2000 Hz.

Model	DL-3000-40	DL-4000-50	DL-5400-60
Usable Frequency Range (Hz)	1-2800	1-2200	1-2300
Rated Sine Force (kN)	29.4	39.2	52.9
Max Acceleration (m/s <sup>2</sup> )	784	784	784
Max Velocity (m/s)	2.4	2.4	2.4
Max Displacement (mm)	100	100	100
Max Static Payload (kg)	300	500	800
Vibrator	DL-3000	DL-4000	DL-5400
Effective Armature Mass (kg)	37.5	49	67.5
Armature Diameter (mm)	340	445	445
Cross-axial Allowable Eccentric Moment (N×m)	490	980	1500
Dimensions Uncrated (W x H x D ) (mm)	1220*1185*930	1470×1310×1000	1570×1320×1100
Vibrator Weight Uncrated (kg)	3000	3500	4300
Power Amplifier	SA-40	SA-50	SA-60
Rated Power Output (kVA)	40	50	60
Dimensions Uncrated (W x H x D ) (mm)	580×1700×850	580×1700×850	580×1700×850
Amplifier Weight Uncrated (kg)	450	650	680
Amplifier Cooling Method	Switching		
Amplifier Required Power (kVA)	45	60	70
Blower	FJ-3000	FJ-5000	FJ-6000
Flow (m <sup>3</sup> /min)	40	56	78
Pressure (Pa)	5390	5816	9800
Rated Power (kW)	7.5	15	22
Cooling Method	Air-cooled		
System Required Power (kVA)	52	75	92

Note: Parameters are subject to change upon request.