

## **Technical Support** to suit individual testing requirements

The 1g Dynamics' Test House offers a comprehensive range of testing services to industry. Our services include a range of vibration systems up to 53.3 kN sine force, 51 mm travel, with static load capability of 700 kg, sine, random, sine-on-random and shock waveforms and results analysis.

We have 20 years' experience of conducting independent, confidential tests on aerospace, automotive and motor-sport applications to national and international standards, including UKAS, BSI, CECC, IECQ and MIL-STDs for environmental testing.

Testing is carried out by a team of experts using state-of-the-art technologies in our new Hertfordshire based Service Centre. The Test House offers consultancy and advice services, including custom jig and fixture design, qualification approvals, EMC and EMF standards interpretation and final approval tests.



System Performance	LDS V894 Combo	LDS V860 + Chamber	LDS V824LS	IMV i240	LDS V650
Sine Force Peak kN (lbf)	53.3 (12000)	28.0 (6300)	24.0 (5400)	24.0 (5395)	1.6 (364)
Random Force rms kN (lbf)	55.6 (12500)	28.0 (6300)	24.0 (5400)	24.0 (5395)	1.1 (245)
Frequency Range Hz	dc - 2300	dc - 1700	dc - 3000	dc - 2600	dc - 4000
Continuous Displacement mm (in)	38 (1.5)	25.4 (1.0)	38 (1.5)	51 (2.0)	25.4 (1.0)
Max Displacement mm (in)	51 (2.0)	30.5 (1.2)	51 (2.0)	60 (2.3)	25.4 (1.0)
Max Velocity m/s (in/s)	1.78 (70)	1.78 (70)	2.0 (78)	2.2 (86)	1.4 (55)
Max Acc. Sine m/s² (g pk)	981 (100)	325 (33.1)	588 (60)	1200 (122)	720 (73.7)
Max Acc. Random m/s <sup>2</sup> (g rms)	490 (50)	325 (33.1)	588 (60)	1200 (122)	490 (50)
Vibration Generator					
Armature Mass kg (lb)	53 (117)	86.2 (190)	24.5 (54)	35 (77)	2.25 (5.0)
Armature Diameter mm (in)	440 (17.3)	813 (32.0)	336 (13.25)	290 (11.4)	156 (6.1)
Max Payload kg (lb)	700 (1540)	680 (1500)	454 (1000)	400 (880)	50 (110)



