

SEW 500 & SEW 590
WATER COOLED SERIES

Series	SEW 500 – DSA 120K		SEW 500 – DSA 160K		SEW 590 – DSA 200K		SEW 590 – DSA 240K	
Armature Diameter	500 mm		500 mm		590 mm		590 mm	
Sine Force (peak)	8000 kgf (78.5 kN)		10000 kgf (98.1 kN)		12000 kgf (117.7 kN)		16000 kgf (156.9 kN)	
Random Force (rms)	8000 kgf (78.5 kN)		10000 kgf (98.1 kN)		12000 kgf (117.7 kN)		16000 kgf (156.9 kN)	
Shock Force (peak)	16000 kgf (156.9 kN)		20000 kgf (196.1 kN)		24000 kgf (235.4 kN)		32000 kgf (313.8 kN)	
Acceleration (Sine)	90 g		100 g		90 g		100 g	
Acceleration (Random)	70 grms		70 grms		70 grms		70 grms	
Acceleration (Shock)	180 g		200 g		180 g		200 g	
Velocity (peak)	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*
Displacement (pk-pk)	51 mm	76 mm**	51 mm	76 mm**	51 mm	76 mm**	51 mm	76 mm**
Axial Resonance	1900 Hz ±5%		1900 Hz ±5%		1700 Hz ±5%		1700 Hz ±5%	
Useful Frequency Range***	DC to 2000 Hz		DC to 2000 Hz		DC to 2000 Hz		DC to 2000 Hz	

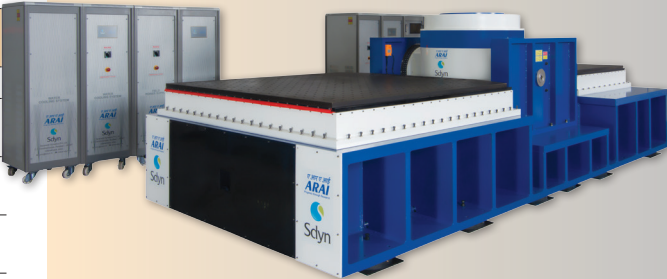
SEW 650 & SEW 760
WATER COOLED SERIES

Series	SEW 650 – DSA 280K		SEW 650 – DSA 320K		SEW 760 – DSA 360K		SEW 760 – DSA 400K	
Armature Diameter	650 mm		650 mm		760 mm		760 mm	
Sine Force (peak)	18000 kgf (176.5 kN)		22000 kgf (215.7 kN)		24000 kgf (235.4 kN)		30000 kgf (294.2 kN)	
Random Force (rms)	18000 kgf (176.5 kN)		22000 kgf (215.7 kN)		24000 kgf (235.4 kN)		30000 kgf (294.2 kN)	
Shock Force (peak)	36000 kgf (353.0 kN)		44000 kgf (431.5 kN)		48000 kgf (470.7 kN)		60000 kgf (588.4 kN)	
Acceleration (Sine)	90 g		100 g		90 g		100 g	
Acceleration (Random)	70 grms		70 grms		70 grms		70 grms	
Acceleration (Shock)	180 g		200 g		180 g		200 g	
Velocity (peak)	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*
Displacement (pk-pk)	51 mm		76 mm**		51 mm		76 mm**	
Axial Resonance	1500 Hz ±5%		1500 Hz ±5%		1300 Hz ±5%		1300 Hz ±5%	
Useful Frequency Range***	DC to 2000 Hz		DC to 2000 Hz		DC to 2000 Hz		DC to 2000 Hz	

Redefining Endurance Testing



Notes:
*Peak velocity with reduced field power for Shock
**Long stroke option
***Low frequency operation below 5Hz may require body locking or seismic foundation



Notes:
*Peak velocity with reduced field power for Shock
**Long stroke option
***Low frequency operation below 5Hz may require body locking or seismic foundation



Saraswati Dynamics Pvt. Ltd.

C-7, Industrial Estate, Roorkee – 247667, Uttarakhand, India
Mobile: +91 8392920267 | Email: info@sdyn.in | Website: www.sdyn.in

DELHI
Saraswati Dynamics Pvt. Ltd.
Office No. 1414, 14th Floor, DLF Galleria
Tower, DLF City Phase IV, Sector-28,
Gurugram – 122002, Haryana, India
Mobile: +91 7060014774

PUNE
Saraswati Dynamics Pvt. Ltd.
Office No. 303, 3rd Floor,
Vasudha Equinox, Near Khadki Railway
Station, Old Mumbai-Pune Highway, Bopodi,
Pune – 411003, Maharashtra, India
Mobile: +91 7722024245

CHENNAI
Saraswati Dynamics Pvt. Ltd.
New Door No. 38-D, Old Door No. 44-D,
First Floor, G.S.T. Road, Alandur,
Chennai – 600032, Tamil Nadu, India
Mobile: +91 7060014471

HYDERABAD
Saraswati Dynamics Pvt. Ltd.
38/C, Ground Floor, M.L.A. Colony,
Road No. 12, Banjara Hills,
Hyderabad – 500034, Telangana, India
Mobile: +91 7893255877

BENGALURU
Saraswati Dynamics Pvt. Ltd.
302, 3rd Floor, 92,
Kedia Arcade, Infantry Road,
Bengaluru – 560001, Karnataka, India
Mobile: +91 9837077573

Redefining Endurance Testing



ELECTRODYNAMIC VIBRATION
TESTING SOLUTIONS

Saraswati Dynamics Private Limited (Sdyn) is a pioneer and market leader of Electrodynamic Vibration Systems. We manufacture the complete range of Electrodynamic Shakers, Power Amplifiers, Head Expanders, and Horizontal Slip Tables to meet the testing requirements of industries across the globe. The company has its headquarters and R&D facility in Roorkee, Uttarakhand with offices in Delhi NCR, Bengaluru, Chennai, Pune, and Hyderabad. Our distributor network is established throughout the world to cater to our international clients.

With a majority market share in India and growing global presence, Sdyn is recognised for its products, services, and application support. We are the preferred choice of all sectors of the industry due to our unique combination of performance, reliability, and cost competitiveness. As the only indigenous manufacturer and exporter of air cooled and water cooled series of Electrodynamic Vibration Systems, Sdyn, for over three decades, has remained focused on excellence in the field of vibration testing.

Technical Specifications

SEV 180 & SEV 240
AIR COOLED SERIES

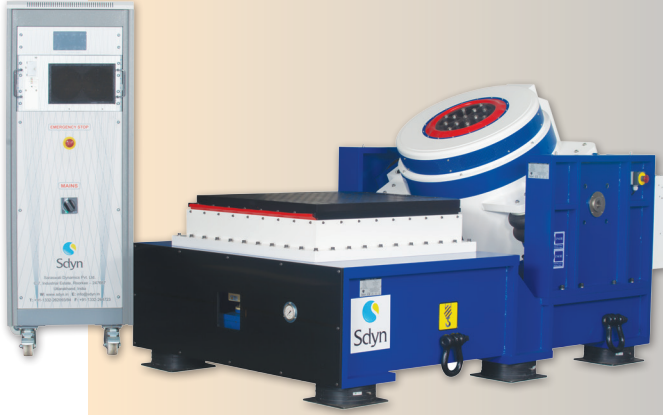
Series	SEV 180 – DSA 4K		SEV 180 – DSA 6K		SEV 240 – DSA 10K		SEV 240 – DSA 15K	
Armature Diameter	180 mm		180 mm		240 mm		240 mm	
Sine Force (peak)	400 kgf (3.9 kN)		600 kgf (5.9 kN)		1000 kgf (9.8 kN)		1500 kgf (14.7 kN)	
Random Force (rms)	400 kgf (3.9 kN)		600 kgf (5.9 kN)		1000 kgf (9.8 kN)		1500 kgf (14.7 kN)	
Shock Force (peak)	800 kgf (7.8 kN)		1200 kgf (11.8 kN)		2000 kgf (19.6 kN)		3000 kgf (29.4 kN)	
Acceleration (Sine)	80 g		100 g		80 g		100 g	
Acceleration (Random)	70 grms		70 grms		70 grms		70 grms	
Acceleration (Shock)	175 g		200 g		175 g		200 g	
Velocity (peak)	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*
Displacement (pk-pk)	38 mm	51 mm**	38 mm	51 mm**	38 mm	51 mm**	38 mm	51 mm**
Axial Resonance	3200 Hz ±5%		3200 Hz ±5%		2800 Hz ±5%		2800 Hz ±5%	
Useful Frequency Range***	DC to 3500 Hz		DC to 3500 Hz		DC to 3200 Hz		DC to 3200 Hz	



Notes:
*Peak velocity with reduced field power for Shock
**Long stroke option
***Low frequency operation below 5Hz may require body locking or seismic foundation

SEV 300 & SEV 360
AIR COOLED SERIES

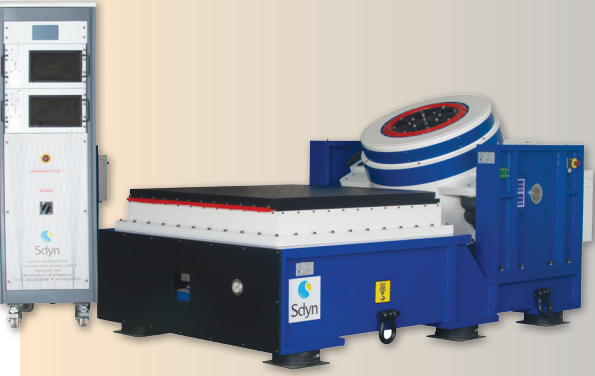
Series	SEV 300 – DSA 25K		SEV 300 – DSA 30K		SEV 360 – DSA 40K		SEV 360 – DSA 45K	
Armature Diameter	300 mm		300 mm		360 mm		360 mm	
Sine Force (peak)	2000 kgf (19.6 kN)		2500 kgf (24.5 kN)		3000 kgf (29.4 kN)		3500 kgf (34.3 kN)	
Random Force (rms)	2000 kgf (19.6 kN)		2500 kgf (24.5 kN)		3000 kgf (29.4 kN)		3500 kgf (34.3 kN)	
Shock Force (peak)	4000 kgf (39.2 kN)		5000 kgf (49.0 kN)		6000 kgf (58.8 kN)		7000 kgf (68.6 kN)	
Acceleration (Sine)	90 g		100 g		90 g		100 g	
Acceleration (Random)	70 grms		70 grms		70 grms		70 grms	
Acceleration (Shock)	180 g		200 g		180 g		200 g	
Velocity (peak)	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*
Displacement (pk-pk)	51 mm	76 mm**	51 mm	76 mm**	51 mm	76 mm**	51 mm	76 mm**
Axial Resonance	2700 Hz ±5%		2700 Hz ±5%		2600 Hz ±5%		2600 Hz ±5%	
Useful Frequency Range***	DC to 3000 Hz		DC to 3000 Hz		DC to 2800 Hz		DC to 2800 Hz	



Notes:
*Peak velocity with reduced field power for Shock
**Long stroke option
***Low frequency operation below 5Hz may require body locking or seismic foundation

SEV 440 & SEV 450
AIR COOLED SERIES

Series	SEV 440 – DSA 50K		SEV 440 – DSA 60K		SEV 440 – DSA 80K		SEV 450 – DSA 100K		SEV 450 – DSA 120K	
Armature Diameter	440 mm		440 mm		440 mm		450 mm		450 mm	
Sine Force (peak)	4000 kgf (39.2 kN)		5000 kgf (49.0 kN)		6000 kgf (58.8 kN)		7000 kgf (68.6 kN)		8000 kgf (78.5 kN)	
Random Force (rms)	4000 kgf (39.2 kN)		5000 kgf (49.0 kN)		6000 kgf (58.8 kN)		7000 kgf (68.6 kN)		8000 kgf (78.5 kN)	
Shock Force (peak)	8000 kgf (78.5 kN)		10000 kgf (98.1 kN)		12000 kgf (117.7 kN)		14000 kgf (137.3 kN)		16000 kgf (156.9 kN)	
Acceleration (Sine)	90 g		100 g		100 g		90 g		100 g	
Acceleration (Random)	70 grms		70 grms		70 grms		70 grms		70 grms	
Acceleration (Shock)	180 g		200 g		200 g		180 g		200 g	
Velocity (peak)	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*	1.8 m/s	2.7 m/s*
Displacement (pk-pk)	51 mm	76 mm**	51 mm	76 mm**	51 mm	76 mm**	51 mm	51 mm	51 mm	76 mm**
Axial Resonance	2100 Hz ±5%		2100 Hz ±5%		2000 Hz ±5%		2000 Hz ±5%		2000 Hz ±5%	
Useful Frequency Range***	DC to 2400 Hz		DC to 2300 Hz		DC to 2200 Hz		DC to 2100 Hz		DC to 2100 Hz	



Notes:
*Peak velocity with reduced field power for Shock
**Long stroke option
***Low frequency operation below 5Hz may require body locking or seismic foundation