

Low Force Shakers

TENZO series Low Force Shakers are the high-quality, compact machine with a permanent magnetic field. Be designed for long, trouble-free operation, and has a force rating of from 10N to 1000N enabling relatively heavy loads to be excited to high g levels. The moving element is supported by a robust rectilinear guidance system consisting of grouped radial and transverse flexures in a unique construction. The flexures are made from a bonded sandwich of spring steel and a damping elastomer, providing a clean acceleration waveform with low cross motion and low distortion characteristics



Applications:

- ✓ Vibration testing
- ✓ Mechanical impedance measurements
- ✓ Educational demonstrations
- ✓ Structural response testing
- ✓ Vibration transducer calibration

Specifications

Specifications	TEN-V50	TEN-V100	TEN-V200	TEN-V300	TEN-V500	TEN-V1000
Rated peak force (N) forced-air cooled	N/A	N/A	200N	300N	500N/350N	1000N/700N
Rated peak force (N) convection	50N	100N	100N	150N	250N/175N	500N/350N
Frequency range (Hz)	5-10000	5-7000	5-6500	5-6500	5-5000	5-4000
Main resonance frequency (Hz)	9500Hz	4800Hz	4800Hz	4800Hz	3560Hz	3100Hz
Max. displacement (mm)Peak-Peak	10	12	12	12	15	15
Max. Speed (m/s)	1.6	1.6	1.6	1.6	1.6	1.6
Max. Acceleration speed (g)	20	35	50	65	80	80
Effective moving mass (g)	250	400	400	450	630	1300

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Table diameter (mm)	Ø30	Ø50	Ø50	Ø50	Ø50	Ø60
Shaker weight (kg)	3.6	14.5	14.5	14.5	15	41
Coupling (Thread ø mm)	4*M5	4*M5	4*M5	4*M5	4*M5	4*M6
Dimensions (WxHxD) (mm)	183*110*162	242*202*245	242*202*245	242*202*245	262*192*242	347*267*319
Maximum operating current	4 A	5 A	10 A	10 A	10 A	13 A
DC resistance (Ω)	1.1	2.8	2.8	2.8	4	3.8
Protection	Over-displacement Over-current Over-temperature	Over-displacement Over-current Over-temperature	Over-displacement Over-voltage Over-current Over-temperature	Over-displacement Over-voltage Over-current Over-temperature	Over-displacement Over-voltage Over-current Over-temperature	Over-displacement Over-voltage Over-current Over-temperature

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