

Modal Shakers

TENZO Series Modal Shakers are designed for demanding modal testing applications; TENZO series permanent magnet modal shakers provide precise, reliable, stable and long-lasting operation. Highest quality materials, stringent quality control and rugged construction assure a versatile means of modal excitation for any experimental modal test using the attached excitation method.

Based upon years of practical modal test experiences, TENZO series modal shakers are exhibiting high force-to-weight ratio, has been specifically developed to help ensure the best possible modal test performance with minimum setup time.

Applications:

- ✓ General mechanical mobility measurements
- ✓ Experimental modal analysis on most mechanical structures
- ✓ SISO, MISO, SIMO and MIMO modal test applications
- ✓ Advanced structural dynamics investigations
- ✓ Structural damage detection
- ✓ Finite element model correlation



Specifications

Specifications	TEN-M50	TEN-M100	TEN-M200	TEN-M250	TEN-M300	TEN-M500	TEN-M1000
Rated peak force (N) forced-air cooled	N/A	N/A	200N	250N	300N	500N/350N	1000N/700N
Rated peak force (N) naturally cooled	50N	100N	100N	130N	150N	200N/175N	500N/350N
Frequency range (Hz)	DC-10000	DC-8000	DC-8000	DC-8000	DC-8000	DC-6000	DC-4500
Main resonance frequency (Hz)	10000Hz	5800Hz	5800Hz	5800Hz	5800Hz	4700Hz	3900Hz

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Max. displacement (mm)Peak-Peak	16	18	18	18	18	20	20
Max. Acceleration speed (g)	40	35	70	80	100	100	100
Effective moving mass (kg)	0.13	0.32	0.30	0.30	0.30	0.45	1
Shaker weight (kg)	4	14.5	14.5	14.5	15	16	41
Coupling (Thread ø mm)	M6	M6	M6	M6	M6	M6	M6
Dimensions (WxHxD) (mm)	183*110*167	242*202*250	242*202*250	242*202*250	242*202*250	262*192*247	347*220*342
Maximum operating current	4 A	5 A	10 A	10 A	10A	10 A	13 A
DC resistance (Ω)	1.1	2.8	2.8	2.8	3	4	3.8
Protection	Over- displacement	Over- displacement	Over- displacement	Over- displacement	Over- displacement	Over- displacement	Over- displacement
	Over-voltage	Over-voltage	Over-voltage	Over-voltage	Over-voltage	Over-voltage	Over-voltage
	Over-current	Over-current	Over-current	Over-current	Over-current	Over-current	Over-current
	Over- temperature	Over- temperature	Over- temperature	Over- temperature	Over- temperature	Over- temperature	Over- temperature

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