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Mechanical Shakers

Mechanical Shaker: Elliptical

SALIENT FEATURES

RELIABILITY SHAKER: Moderate vibration level shaker designed for production line demonstration of end item reliability and longevity testing.

ELLIPTICAL MOTION: Each machine provides vertical and horizontal simultaneous motion in an elliptical vibration pattern.

DAMPING: Friction damping to prevent large table or specimen transient excursions during start and stop of operation.

NO FOUNDATION REQUIRED: Shaker is Reaction Type with self contained coil springs to isolate the shaker and test load from its base. The shaker may be operated on any floor capable of carrying the dead weight loading. No air bags to accidentally deflate during operation.

FREQUENCY RANGE: The standard shaker provides a frequency range of 8 to 60 Hz adjusted while the machine is operating.

FATIGUE SHAKER: A high level vibration shaker designed to perform vibration endurance testing over extended periods of time.

HOLE PATTERN: 3/8-16 threaded holes on a 6 inch pattern in the table top provide attachment points for test loads.

LOW COST: The lowest cost mechanical shaker in our product line. Excellent for production line burn-in testing.

POWER REQUIREMENTS: 208, 230/460 Volt 3 phase, 50/60 Hz

SIMPLE AMPLITUDE ADJUSTMENT: Moving element consists of one rotating eccentric weighted shaft driven by an electric motor. Amplitude of motion precisely positioned with a tight adjustment and locking screws. Easy access to all adjustments through removable panels.



SPECIFICATIONS

Model		MAXIMUM DISPLACEMENT		MAXIMUM ACCELERATION	
Number					
Table	Reaction	Bare	Full	Bare	Full
Size	Moment	Table	Payload	Table	Payload
(Payload)	in-lbs	in (da)	in (da)	(g)	(g)
611 Series					
2424 E					
(25)	16	0.222	0.189	10.0	10.0
(50)	16	0.222	0.165	10.0	10.0
(100)	16	0.222	0.131	10.0	8.1
(200)	16	0.222	0.093	10.0	5.8
(300)	16	0.222	0.072	10.0	4.5
3030 E					
(25)	16	0.190	0.165	10.0	10.0
(50)	16	0.190	0.146	10.0	9.1
(100)	16	0.190	0.119	10.0	7.4
(200)	16	0.190	0.087	10.0	5.4
(300)	16	0.190	0.068	10.0	4.2
3636 E					
(25)	16	0.144	0.129	9.0	8.0
(50)	16	0.144	0.117	9.0	7.3
(100)	16	0.144	0.099	9.0	6.2
(200)	16	0.144	0.075	9.0	4.7
(300)	16	0.144	0.061	9.0	3.8
1. Other sizes available upon request					
2. Larger reaction moments are available to produce greater displacement capabilities					