Vibration Testing Equipment

Systems & Solutions

Engineered vibration testing solutions for improved product quality.

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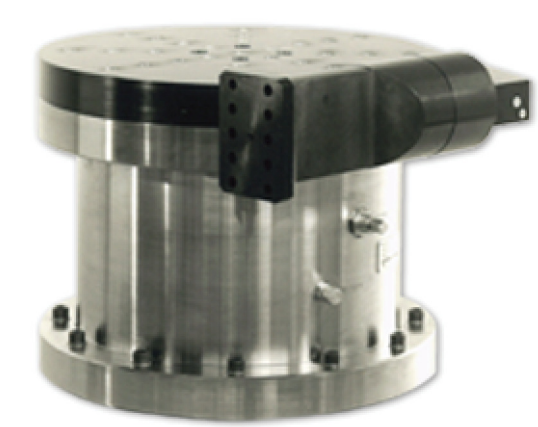
R1900
Torsional Table

The R-1900 Torsional Table converts the linear vibration of a shaker into torsional vibration, thus expanding your shaker's capability to torsional vibration testing. It is the only way to achieve torsional vibration at frequencies above 1,000 hz. A typical use for the R-1900 is for torsional vibration studies of inertial guidance systems.

The Torsional Table has three hydrostatic bearings. One large journal bearing defines the axis of rotation, a thrust bearing carries the vertical static load, and a spherical drive coupling in the connecting arm allows for the angular rotation of the table. The drive arm bearing is 12 inches from the center of the rotation of the table. With that dimension you can calculate the angular acceleration knowing the shaker acceleration. Inserts in any desired pattern may be installed on the top mounting surface.



Features:

- Customer specified insert pattern
- Extend existing linear shaker versatility
- Reaction bases adjustable to match existing shaker centerline

Applications:

- Inertial guidance systems
- Rotational vibration tests of heavy payloads
- High frequency excitation*
- Rotary vibration fatigue tests

Specifications

Model	R-1900
Moving Wt. (connecting arm)	14 lbs
Moving Mass	100 lbs.
Radius of Gyration*	4.32 in.
Maximum Angular Rotation	+/- 5 degrees
Mounting Surface	19 in. dia.
Rated Loads:	
Vertical (compression)	8,000 lbs.
Connecting Arm Dynamic Force	6,000 lbs.
Maximum Linear Displacement	+/- 1 in.
Shipping Wt.	1,000 lbs.

*Of Top Plate & bearing Shaft