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Electrodynamic Shaker Peripheral Equipment

Vibraglide Sliptable

For horizontal motion, the M/RAD Vibraglide Sliptable is considered the industry favorite for ease of operation and longevity. Vibraglide sliptables have been in continuous operation for over twenty-seven years. Designed for interface with any electrodynamic shaker, the Vibraglide test table eliminates the necessity for supporting test specimens by shock cord, rollers or flexures. It permits simplified translational testing of components and provides savings in test fixture design, weight and set up time. The Vibraglide sliptable consists essentially of a magnesium worktable supported on a stationary granite block by a pressurized oil surface. The magnesium table is easily movable along the axis of applied force with a minimum of friction loss. Self-aligning spherical washers are supplied to simplify attachment to the shaker. Drive Bars are available to increase the rigidity of the shaker armature and to provide a quick means of attachment to the slipplate. Proper alignment insures that the table does not inflict unnecessary and damaging twisting moments and severe strains to the shaker armature. The substantial granite base assures a firm foundation for the test and represents substantial resistance to overturning moments. A 30 psi oil supply system provides adequate table breakaway force under heavy specimen loads and is externally mounted for ease of maintenance. Flexures and low pressure bearings are available for increased overturning moment restraint.



VIBRAGLIDE DESCRIPTION

The VIBRAGLIDE Horizontal Test Table eliminates the necessity for supporting test specimens by shock cord, rollers or flexures. It permits simplified translational testing of components and provides savings in test fixture design, weight and setup time. The VIBRAGLIDE test table, consists essentially of a magnesium worktable supported on a stationary granite block by a pressurized oil surface. The magnesium table is easily movable along the axis of applied force with a minimum of friction loss. The coefficient of friction is less than 0.01. Self-aligning spherical washers are supplied to simplify attachment to the exciter. Proper alignment insures that the table does not inflict unnecessary and damaging twisting moments and severe strains to the exciter moving element.

Because the dynamic center of gravity of test objects is invariably displaced from the forcing function input axis, overturning moments are introduced. The substantial granite base employed in the VIBRAGLIDE assures a firm foundation for the test and represents substantial resistance to overturning moments. The granite is firmly bolted to the steel base to prevent rocking at the interface. The table does not require lifting to re-oil. An oil film is established

automatically when the oil pump is started. A 30 psi supply is included to provide adequate table breakaway force under heavy specimen loads. An indication light is provided to show the pump is running. Oil is supplied under pressure at the center of the table on the 20 to 36 inch models and at two or more points under the 40 inch and larger models. Oil pressure can be adjusted to obtain minimum friction with various table loads. Balance of unsymmetrical loads can be performed on the larger tables by individual adjustment of the multiple pressure controls. A pressure indicator is provided with each control. The oil returns to the reservoir through an oil collecting gutter approximately 1" deep on the top surface of the block. The oil circulation system is externally mounted for ease of maintenance: it is not necessary to remove the granite block to service the oil system. The reservoir, pressure gage, pressure control, power switch and pilot lamp are housed in a sturdy 10 gage steel enclosure with an overlapping, removable top access cover. A three wire cable carries 110 volts, 50/60 cps power to the 1/8 hp pump motor.

SPECIFICATIONS

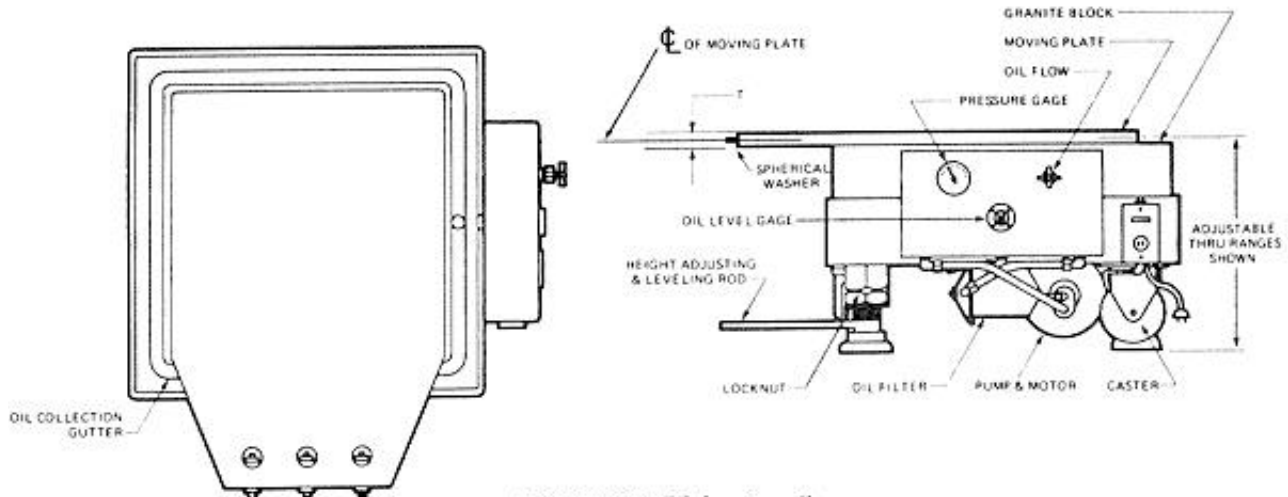
Model	Work Surface Table Size	Table Thickness	First Resonance*	Table Weight	A	Shipping Weight		
						B	C	D
2020	20 in. X 20 in.	1.0 in.	2250 Hz	36 lbs.	790 lbs.	1090 lbs.	1390 lbs.	1690 lbs.
2424	24 X 24	1.0	1970	48	1060	1470	1870	2270
2828	28 X 28	1.0	1760	63	1240	1790	2320	2791
3030	30 X 30	1.25	1500	90	1390	2010	2610	3140
3636	36 X 36	1.25	1300	125	1900	2730	3540	4310
4040	40 X 40	1.5	1120	188	2290	3290	4260	5190
4848	48 X 48	1.5	940	265	3120	4520	5920	7120
4860	48 X 60	2.0	710	312	3830	5540	7260	8730
4872	48 X 72	2.0	600	490	4530	6570	8600	10340
4896	48 X 96	2.0	470	640	5950	8610	11280	13570
6060	60 X 60	2.0	710	519	4700	6790	8900	10700
7296	72 X 96	2.0	470	955	8600	12500	16400	19700

*defined as the approximate frequency at which acceleration at each end of the table work surface is 180° out of phase.

HEIGHT RANGE

(Specify with Order)

A	B	C	D
16 1/8-21 in.	21-27 in.	26-32 in.	30 1/2-36 1/2 in.



ACCESSORIES (optional)

- | | |
|-----------------------------|----------------------------------|
| 1 Casters | 4 Detachable Bull Nose |
| 2 Solid attachment to floor | 5 Special size table or features |
| 3 Detachable drive rod ends | 6 Integral Welded Bull Nose |