

Fibromounts

Engineering Information and Product Specifications



Buckhorn Rubber Products, Inc.

A Myers Industries Company

Huntington Brand Fibromounts Reduce Distortion... Vibration... Shock

Protects components from shock loads and vibration damage. Fibromounts feature multi-angle resilience combined with positive fastening between components. If your design requires special sizes and load ratings, Buckhorn is able to supply samples for testing. See table for standard sizes and nominal load ratings.

Function

When isolation from adjacent structures is necessary to control shock, distortion, vibration or sound transmission, Fibromount isolators offer positive positioning without transmitting unwanted movement. This type of mount offers a multi-angle response to cyclic movements.

These mounts function as connectors between oscillating machinery and rigid baseplates or frames, having flexibility with no solid bottoming-out to cause noise or damage.

A wide range of standard sizes and load capacities offer maximum flexibility in choosing the correct mount. If your requirements do not fall within the sizes shown, send your specifications and space needs to us and Buckhorn will work with you on your particular design.

Design Features

The Fibromount incorporates a rubber load-carrying outer member enclosing a steel axial spacer. The rubber is formulated to resist high stress loads. Once assembled, limited surface area is exposed confining attack from ozone, radiation and chemicals to the surface only. This results in long service life under difficult environmental conditions. Should the design parameters involve high or low temperatures, oil or active solvents, special elastomeric formulations are available.

In the solo mount, the isolating rebound shoulder is formed at assembly by tightening the mounting bolt against the integral spacer. The spacer is protected from corrosion by zinc plating or other types of appropriate coatings.

The factory-assembled spacer in the rubber mount assures positive, precise assembly each time. A simple tightening of the mounting bolt against both ends of the spacer forms a definite, accurate stop. Minor alignment problems are easily handled with the flexible rubber member.

Application Criteria

Calculate the total static load the mount must support and select a matching nominal load rating. If the dynamic load is predominantly in one direction, a solo mounting configuration with the flanged end in compression is needed. If loading oscillates from full positive to full negative, a tandem configuration may be selected, taking full advantage of the compression loading of the flanged head. If space limitations will not allow a Fibromount of the proper load rating to fit, multiple smaller mounts with additive load ratings may be used. Buckhorn can furnish samples for customer load testing.

Installation

Fibromounts are sized to provide a snug fit between the mounting hole "C" and the shank "H". Special installation tools are not normally required. If a tight fit is encountered, short term lubrication can be obtained by coating the shank with rubber or neoprene cement. Do not use oil or grease, as this lubricant remains for long periods and may alter the damping characteristics.

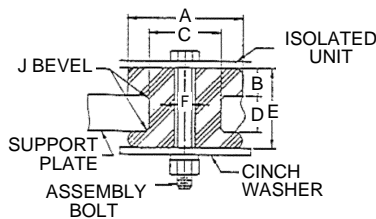
An exact pre-load is obtained by tightening the assembled unit against the spacer. This pre-load is essential to achieve rated performance. Do not tighten with impact tools. Use only a torque wrench or oil pulse tooling when tightening. Contact your Buckhorn representative for tightening torque recommendations.

Material Options

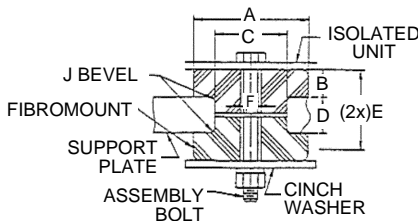
Most of the nominal load ratings are based on 70± 5 Shore A Durometer natural rubber, ethylene, propylene, or neoprene. A wide choice of elastomers is also available for special service conditions involving oil, heat, cold, solvents, radiation, ozone and chemicals.

Specifications

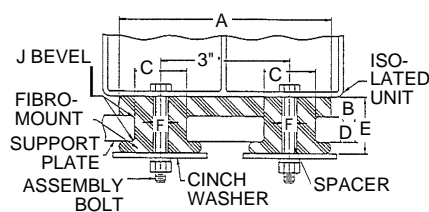
Solo Mounting



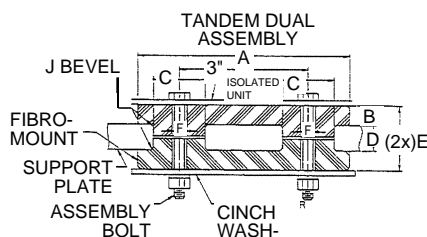
Tandem Mounting



Dual Mounting



Tandem Dual Mounting



Part No.	Nominal Load Rating Axial	SOLO MOUNTING													
		A	B	C	D	E	F	G	H	J	K	L	M	N(Min.)	

M-87	40	.89	.19	.56	.13	.47	.26	.22	.57	.03	.67	.26	.87	.06
M-101	60	1.00	.17	.75	.13	.44	.38	.18	.77	.03	.55	.38	1.00	.09
M-200	125	1.09	.19	.75	.31	.69	.38	.21	.78	.03	.96	.38	1.12	.09
M-300	150	1.75	.38	1.12	.38	1.00	.52	.41	1.20	.03	1.38	.52	1.75	.10
M-400	200	2.01	.48	1.25	.62	1.37	.52	.53	1.31	.06	2.18	.52	2.00	.12
M-401	200	1.99	.45	1.25	.25	1.00	.52	.52	1.30	.06	1.29	.52	2.00	.12
M-402	200	2.00	.46	1.25	.62	1.37	.64	.53	1.25	.06	1.71	.64	2.00	.12
M-403	200	2.00	.46	1.25	.18	.94	.64	.53	1.30	.06	1.25	.64	2.00	.12
M-404	200	2.00	.46	1.25	.25	1.00	.39	.52	1.32	.06	1.30	.38	2.00	.12
M-405	200	2.00	.46	1.25	.25	1.00	.64	.52	1.25	.06	1.30	.64	2.00	.12
M-406	200	2.00	.46	1.35	.25	1.00	.64	.54	1.35	.06	1.25	.64	2.00	.12
M-407	200	2.01	.46	1.37	.62	1.38	.52	.53	1.39	.06	1.70	.52	2.00	.12
M-409	200	2.00	.48	1.25	.18	.94	.52	.52	1.29	.06	1.25	.52	2.00	.12
M-500	425	2.01	.56	1.50	.75	1.71	.64	.62	1.52	.06	2.12	.64	2.50	.15
M-501	425	2.50	.58	1.61	.75	1.71	.64	.62	1.61	.06	2.00	.64	2.50	.15
M-600	500	3.00	.71	1.81	.93	2.00	.64	.81	1.81	.12	2.42	.64	3.00	.19
M-602	500	3.00	.76	1.81	.50	1.56	.64	.81	1.81	.12	1.97	.64	3.00	.19
M-609H	500	3.00	.63	2.08	1.12	2.00	.64	.65	2.08	.06	2.11	.64	3.00	.19
M-616	500	3.00	.76	1.94	.93	2.00	.77	.81	1.81	.12	1.19	.77	3.00	.25
M-700	900	3.75	.94	2.00	.75	2.12	.77	1.16	2.06	.09	2.66	.77	3.70	.25
M-800	1300	4.58	1.12	2.75	1.00	2.63	.75	1.20	2.75	.12	3.57	.76	4.50	.25
M-802	1300	4.53	1.12	2.75	1.75	3.37	1.06	1.22	2.76	.12	4.34	1.06	4.50	.25
M-1400	3000	7.00	1.38	4.00	1.00	3.13	1.03	1.50	4.02	.25	4.29	1.06	6.00	.37
M-3000	4000	8.00	1.00	4.00	1.00	2.75	1.06	1.25	4.00	.18	3.30	1.06	6.00	.38

TANDEM MOUNTING

M-301	150	1.78	.38	1.12	.38	.59	.52	.43	1.16	.03	.62	.52	1.75	.10
M-502	425	2.58	.87	1.50	.50	1.05	.64	.92	1.62	.06	1.17	.64	2.50	.15
M-601	500	3.00	.75	1.81	.75	1.16	.64	.40	1.85	.12	1.19	.64	3.00	.19
M-701	900	3.75	.74	2.25	.75	1.13	.77	1.12	2.28	.12	1.50	.77	4.00	.25
M-705	900	3.98	.94	2.31	.75	2.12	1.00	1.04	2.33	.12	2.43	1.06	3.75	.25
M-707	900	3.75	.74	2.25	.75	1.15	.77	.92	2.25	.12	1.50	.64	3.75	.25

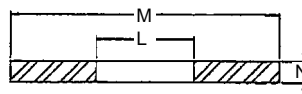
DUAL MOUNTING

M-505	500	2 X 5	.63	1.50	.50	1.95	.64	.69	1.50	.12	2.59	.64	2.50	.15
M-506	900	2 X 5.5	.64	1.50	.75	1.68	.64	.70	1.52	.12	2.34	.64	2.50	.15

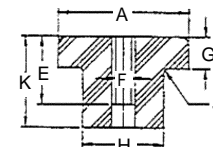
TANDEM DUAL MOUNTING

M-608	1450	3 X 6	.68	1.81	.75	1.05	.64	.78	1.82	.12	1.18	.64	3.00	.19
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Cinch Washer



Pre-Assembly



Dimensions shown for reference only. Actual dimensions may vary.
For information on specific parts, contact your Buckhorn Rubber sales representative.



*m*eeding Your Specialized Needs.

Buckhorn Rubber Products manufactures rubber replacement and original equipment parts at our Hannibal, Missouri plant to meet the specialized needs of the transportation, agricultural, and civil construction industries. Injection molded rubber parts include: flexible air intake hose, vibration isolators, rubber latches, rubber boots, bellows, and specialized rubber to metal bonding.

To find out more about us please call
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