

Rubber Mounts Type NR / NRD

Single and Double Deflection Rubber

APPLICATION

Used where a low cost mount is required for effective isolation of noise and vibration from equipment with speeds of 1,000 RPM upwards.

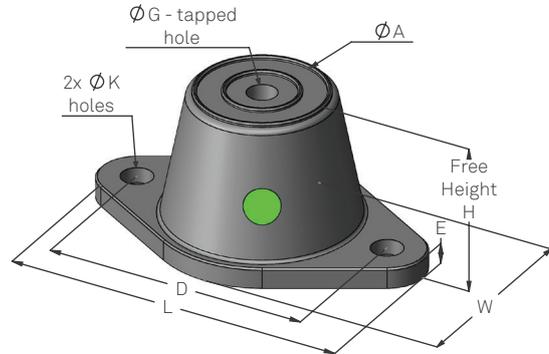
- Pumps and fans
- Generator sets
- General industrial equipment
- Mobile equipment
- Electrical transformers
- Packaged air conditioning equipment

FEATURES

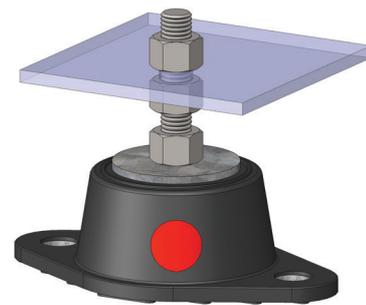
- 5 to 12mm static deflection
- Threaded top insert
- Non-skid ribbed base
- Colour coded load range
- Working Temperature Range -50°C + 105°C

OPTIONS

- Moulded in alternative elastomers (special order)
- Internal plates can be supplied in stainless steel
- Can be supplied with leveling bolt for the NR3, NRD3 (see NRL picture)
- Can be supplied with oil caps
- NL Mount option (through hole in top plate)



NR / NRD



NRL MOUNT

NR / NRD PRODUCT GUIDE

Type	Colour	Max Load kg	Dynamic Factor	Stat. Defl.		Height (H)		L mm	W mm	D mm	A mm	G Dia	K mm	E mm
				NR mm	NRD mm	NR mm	NRD mm							
NR1 or NRD1	Blue	17	1.0	5	8	28	35	80	45	60	36	M10 (NL Ø12)	8.5	5
	White	25	1.0											
	Red	40	1.2											
	Green	55	1.3											
	Yellow	80	1.4											
NR2 or NRD2	White	70	1.1	6	10	32	44	98	60	76	45	M10 (NL Ø12)	8.5	6
	Red	100	1.2											
	Green	160	1.4											
	Yellow	250	1.5											
NR3 or NRD3	White	145	1.2	6	12	44	72	140	85	104	68	M12 (NL Ø14)	14	7
	Red	200	1.3											
	Green	300	1.4											
	Yellow	500	1.6											
NR4 or NRD4	Blue	380	1.2	6	12	46	76	166	110	128	100	M16 (NL Ø18)	14	9
	White	580	1.4											
	Red	850	1.5											
	Green	1,300	1.6											

CONSTRUCTION

Material: Black filled natural rubber; UV and ozone inhibited.
Metal components are corrosion protected and embedded in the elastomer.

PERFORMANCE CHARACTERISTICS

Axial Loads: See Table – Load/deflection is close to linear from 10% to 100% loads.

Shear Loads: Shear/axial stiffness;
NR series = 0.3; NRD series = 0.2.

Creep: Maximum 4% deflection per decade of time (ref 1 minute).

DYNAMIC CHARACTERISTICS

Rubber mounts differ from spring mounts in that the natural frequency is a function not only of deflection, but also of the rubber hardness (durometer).

The natural frequency is usually greater than indicated by static deflection alone. For effective assessment of natural frequency, multiply natural frequency obtained from static deflection by the dynamic factor given in the table.

INSTALLATION

Type NR mounts are designed to carry the load on the full surface of the top face. The tapped centre hole must only be used for bolting down equipment to the isolator, and not as a jacking point for leveling. If leveling is necessary this can be done with the NRL option (see NRL picture on left).

BOLTING DOWN

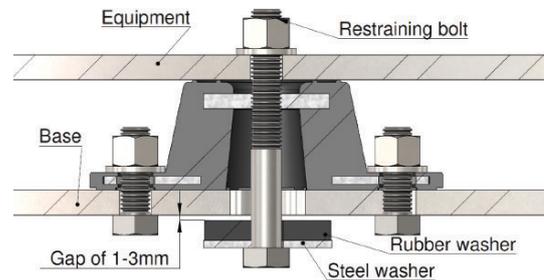
Where bolting is required, washers should be used and the manufacturers recommended bolt torque not exceeded. For installations with limited access to the top hole, a metal thread screw can be threaded up through the bottom of the mount (see table for thread size). Care must be taken to ensure that clearance under the screw head (h) exceeds the design deflection of the mount.

MOBILE MOUNTING

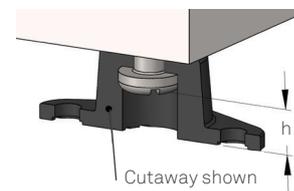
A restraining bolt is recommended for mobile and marine applications to control inertia forces.

Mobile Mounts are coded NRB1 to NRB4 and have the same load deflection characteristics as the stationary mounts (NR1 to NR4).

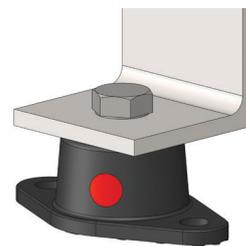
It is recommended that for mobile use, mounts be loaded under static conditions to only 60% of maximum rated capacity.



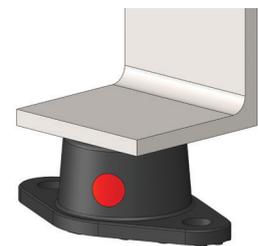
NRB MOBILE MOUNT ASSEMBLY



BRACKET MOUNT ASSEMBLY INACCESSIBLE



BRACKET MOUNT ASSEMBLY



BRACKET MOUNT ASSEMBLY NO BOLT

TECHNICAL ASSISTANCE

All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which may be inspected on request.

SPECIFICATION

Rubber mounts, colour coded for identification of load capacity, shall have a minimum deflection under rated load of 5mm, incorporating separate steel top and base plates completely embedded in the elastomer. They shall have non-skid mount surfaces to make bolting down generally unnecessary although bolt holes are to be incorporated. They will be type NR (NRD) as supplied by Embelton.