Machine Mount

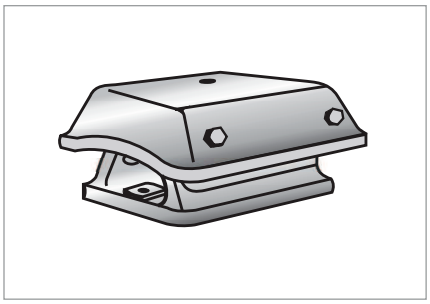

Fig. 1 Machine Mount

Material

Standard material	Hardness
Natural rubber NR 11	45, 50, 55, 60, 70 Shore A

Operating conditions

Axial forces in Z direction	1400 N ... 16000 N	Maximum permissible force
Max. temperature	+60 °C, transient +80 °C	
Min. temperature	−45 °C	

Product description

The special shape of the machine mount protects the built-in flat mount against mechanical damage and oil attack.

Product advantages

- Elastomer spring elements are replaceable and the metal connecting components are reusable
- Spring elements are protected against random damage and direct oil splashes
- Reduced settling in the Z direction
- RoHS-compliant.

Application

Machine mounts are particularly suitable for mounting heavy machines, compressors, engines, etc. They enable machine- and unit-generated vibrations introduced into the foundation or the enclosing building to be reduced by a significant margin.

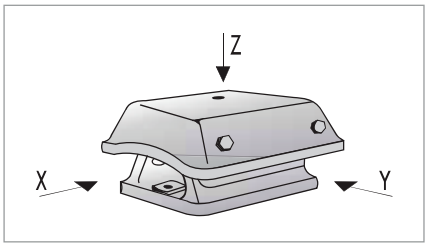

Fig. 2 Primary load directions

The combined compression and shear loading of the flat mounts fitted provides a long service life and good vibration insulation, even at lower interference frequencies (i.e. lower rotational speed). The mount is easily attached to the foundation and the machine using the standard boreholes and threads. Anchoring to the foundation and the machine permits the application of compressive loads (Z direction) to the mount as well as shear loads (X & Y direction). The primary load direction is perpendicular to the planes of attachment, centred to the cap.

Design notes

The machine mount comprises a rectangular cap and two metal parts with equally angled side faces and flange. Flat mounts are screwed in between the two stacked metal parts.Both metal parts are provided with through-holes or threaded holes.

Fitting & installation

- Machine mounts are designed to be anchored by threaded fasteners
- Individual components permit slight adjustment to allow for in-situ offset
- It is important to ensure that the mating faces of the frame and the mass carried by the mount are flat and smooth
- Position the mount relative to the static load in such a way that the cap and the flange are preloaded relative to each other.

Article list

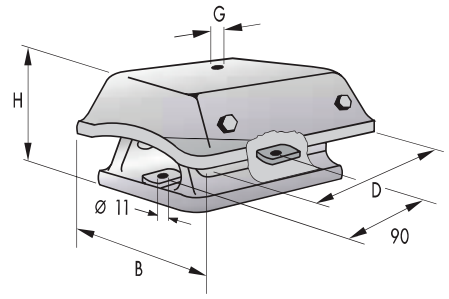

Fig. 3 Machine Mount 050 18 001

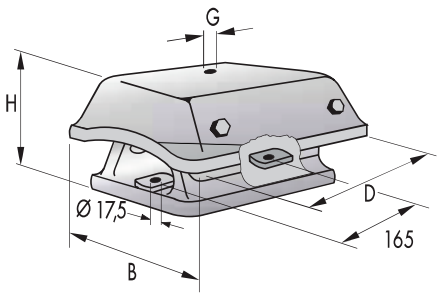

Fig. 4 Machine Mount 050 18 002, 050 18 004

Nominal maxima		Stiffness	Length	Width	Height	Threads	Product No.	Material	Type	Article No.	
$F_{z\,max}$	$s_{z\,max}$	c_z	D	B	H	G					
[N]	[mm]	[N/mm]	[mm]	[mm]	[mm]						
1400	5,8	240	122	72	M12	128	5018 001	45 NR 11	A3	96808	●
1400	5,8	240	122	72	M16	128	5018 001	45 NR 11	A3	49047069	●
1800	5,8	310	122	72	M12	128	5018 001	50 NR 11	A2	96806	●
1800	5,8	310	122	72	M16	128	5018 001	50 NR 11	A2	49041129	○
3000	5,8	520	122	72	M12	128	5018 001	60 NR 11	A1	96809	●
3000	5,8	520	122	72	M16	128	5018 001	60 NR 11	A1	49047070	●
5200	5,8	900	122	72	M12	128	5018 001	70 NR 11	A0	96807	●
5200	5,8	900	122	72	M16	128	5018 001	70 NR 11	A0	49047071	●
6500	6,0	1080	228	110	M16	204	5018 002	45 NR 11	B3	96802	●
9500	6,0	1580	228	110	M16	204	5018 002	55 NR 11	B2	96805	●
12500	6,0	2080	228	110	M16	204	5018 002	60 NR 11	B1	96804	●
16000	6,0	2670	228	110	M16	204	5018 002	70 NR 11	B0	96803	●
5000	11,0	450	228	125	M16	204	5018 004	45 NR 11	HD3	596744	●
8500	11,0	770	228	125	M16	204	5018 004	55 NR 11	HD2	96800	●
9500	11,0	860	228	125	M16	204	5018 004	60 NR 11	HD1	96920	●
12500	11,0	1140	228	125	M16	204	5018 004	70 NR 11	HD0	96801	●

● Available from stock ○ On request: Tool is available, delivery at short notice