

Housed Spring Mount Type D

Up to 50mm Static Deflection, Laterally Restrained

APPLICATION

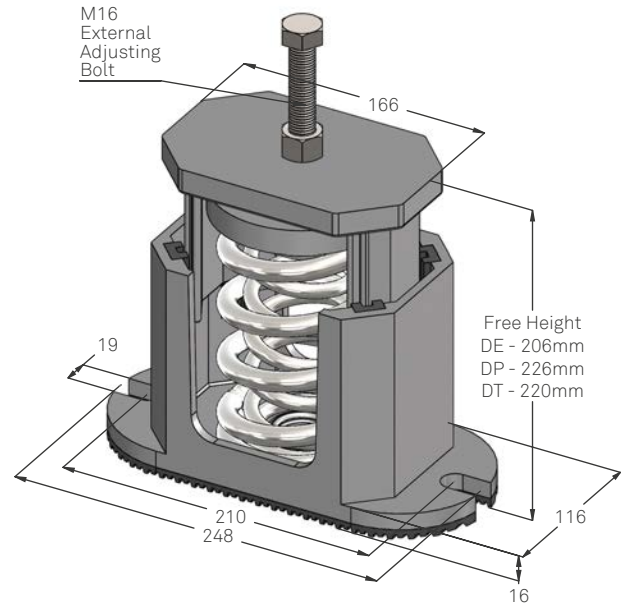
Typically used on reciprocating engine sets, refrigeration compressors, hydrant pumps and chillers.

FEATURES

- Robust steel springs with high inbuilt safety factor
- Built-in external leveling bolts with locknut (DE only)
- Telescoping cast housing
- Soft rubber stabilising snubbers for control of lateral motion
- Noise absorbing, non-skid ribbed pad bonded to base

OPTIONS

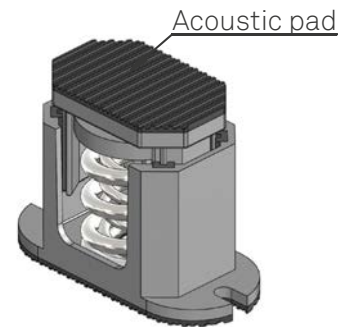
- TYPE DT – Extra non-skid acoustical pad on top housing and internal leveling, used when bolting to the equipment is not required. Comes with internal leveling bolt for use when external leveling is limited
- TYPE DP – Positioning pin on top housing for locating on equipment without bolting. Comes with internal leveling bolt for use when external leveling is limited



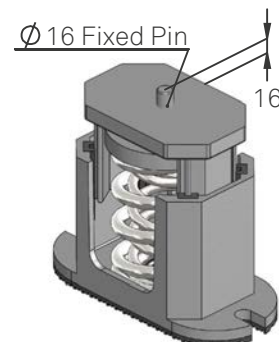
DE DIMENSIONS

D PRODUCT GUIDE

Type	Max Load kg	Static Deflection mm	Spring Constant kg/mm	Spring Colours	
				Outer	Inner
DE-1-50	65	50	1.3	Blue	-
DE-1-51	125	50	2.5	Black	-
DE-1-510	195	50	3.9	Black	Blue
DE-1-52	225	50	4.5	Red	-
DE-1-520	295	50	5.9	Red	Blue
DE-1-521	350	50	7.0	Red	Black
DE-1-53	450	50	9.0	Green	-
DE-1-530	520	50	10.4	Green	Blue
DE-1-531	575	50	11.5	Green	Black
DE-1-532	700	50	14.0	Green	Red
DE-1-55	650	50	13.0	Grey	-
DE-1-551	775	50	15.5	Grey	Black
DE-1-552	900	50	18.0	Grey	Red
DE-1-553	1,000	50	20.0	Grey	Green
DE-1-593	1,115	45	24.8	Orange	Green



TYPE DT



TYPE DP

DESIGN

Type D spring mounts have inbuilt motion-limiting rubber snubbers which are effective in reducing lateral movement of the mounted equipment, particularly during start up and run down. These snubbers are designed for minimum damping to allow springs to function effectively and prevent metal to metal contact between upper and lower housings.

ACOUSTICAL ISOLATION

Steel spring mounts provide effective isolation of mechanical vibration. However, the spring itself has its own inherent surge frequency depending on its physical geometry and material properties. As such, it is possible to transmit certain audible level frequencies.

To minimise these audible level transmissions, all mounts are fitted with a resilient rubber base. For type DE mounts, the standard pad has a theoretical effectiveness of over 95% in isolating such transmissions (96% - 98% for DT only).

If greater high frequency isolation is required, a second layer of pad is attached to the base, separated from the first by a 1.5mm metal shim plate.

MOUNT SELECTION

When selecting mounts, it is recommended that the calculated mass of equipment is increased 10-20% to avoid overloading of any mount. If maximum rated deflections are required, then equipment should be weighed and an accurate assessment of point loads made.

For equipment using more than four mounts, endeavour to distribute them so that each mount has equal loading. If this cannot be done, mount selection must be made on the basis of matching static deflections as closely as possible.

INSTALLATION

Type DE – External Adjustment

1. Remove adjusting bolt with lock nut from mount.
2. Centre mount under equipment leg or base.
3. Replace adjusting bolt with lock nut but do not tighten lock nut.
4. Transfer load to spring and level equipment by turning external adjusting bolt clockwise to raise. Clearance between upper and lower housings should be 12mm minimum.
5. Tighten lock nut.

Type DT and DP – Internal Adjustment

1. Centre mount under equipment leg or base (see note).
2. Transfer load to spring and level equipment by turning internal adjusting nut clockwise to raise. Clearance between upper and lower housings should be 12mm minimum.

NOTE: It may be necessary to lift or block up equipment to place mounts in position.

BOLTING DOWN

If bolting is required, the lower plate must be located and fastened to the floor before equipment is placed on its mounts. Bolts must only be tightened a half turn more than hand tight. An isolation sleeve should be used to prevent the transmission of acoustical frequencies by metal to metal contact between the bolt and the mount, see Datasheet IS for details.

FINISH

Housings are supplied as standard with a two coat industrial quality enamel finish, suitable for most weather conditions. All other metal components, including springs, are zinc-plated. Hot dipped galvanised housings can be supplied to order.

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

Mounts shall have a cast telescoping housing containing a steel spring capable of up to 50mm static deflection; an inbuilt leveling facility; resilient acoustically-isolating inserts to act as guides for the upper and lower housings and a non-skid ribbed acoustical pad minimum 6mm thick bonded to the base. They shall be type D as supplied by Embelton.