Rubber Design
vibration and noise control

DOCUMENTATION SHEET

Steel Spring Isolator
Type LRH

LRH

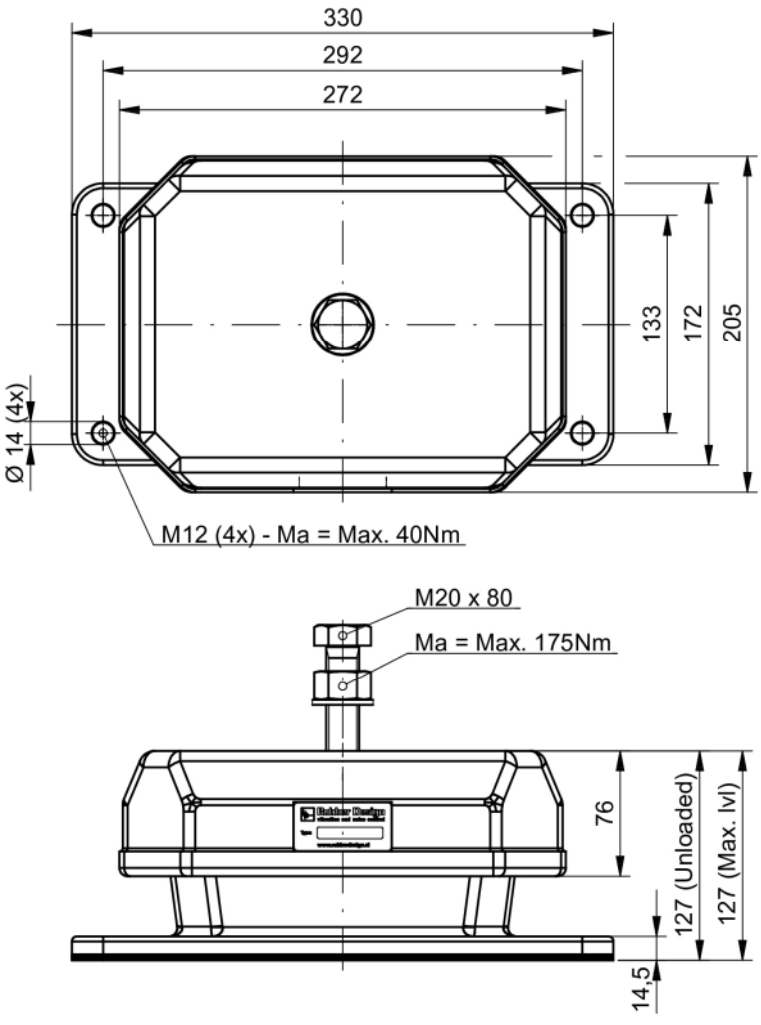
General

The helical spring isolators are enclosed in aluminum castings, the top interlocking with the base. A built-in leveling device is adjustable by the supplied top fixing screw. A molded neoprene O-ring prevents metal to metal contact of the casting and forms a seal against the weather and contaminants.

Low profile multiple spring isolators type MS, LS, LRH and LRX are available for a load range up to 42.2 kN.

Applications

- Generator sets
- Emergency power supplies
- DC-AC converters
- Industrial fans
- Air-handling units
- Pumps
- Air-conditioning machines
- Compressor packages
- Electrical equipment
- Refrigerators
- Cooler units



DIMENSIONS

Type	Cz [N/mm]	Cx, y [N/mm] at preferential load	Fz max [N]	Fz preferential [N]
LRH2100	368,2	258,9	9353	8043
LRH2400	420,3	295,5	10676	9248
LRH2700	473,4	346,0	12010	10402
LRH3000	525,3	396,0	13344	11556
LRH3300	577,9	432,4	14679	12712
LRH3600	630,4	465.1	16013	13869
LRH3900	683,0	505,2	17348	15026
LRH4200	735,5	534,0	18682	16182
LRH4500	788,0	562,4	20017	17338
LRH4800	840,6	591,0	21351	18494
LRH5800	1360,0	815,0	25804	22279
LRH6800	1594,0	956,0	30257	26065
LRH7800	1828,0	1149,0	34710	29850

CHARACTERISTICS

Isolator selection

This described isolator selection is based on the vertical load of the isolators, if required seismic and 6 DOF calculations can be performed by our specialists.

1. Determine the total weight of the machine to be isolated, including work load
2. Determine the position of the combined centre of gravity in horizontal and vertical planes
3. Decide the number of isolators and the positions where the isolators are to be placed relative to the combined centre of gravity
4. Calculate the load per isolator
5. Select with the help of the preferential load in the table the suitable type of mounting

We recommend selection of the isolators be made with the load per isolator within + or - 10% of the preferential load. The static deflection of the isolator is calculated by dividing the load per isolator by the stiffness Cz given in the table for the selected isolator.

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