

Isotop® SD

Steel spring vibration isolators

by reinicke
isotop®

Design

Isotop® SD steel spring vibration isolators consist of two spring elements with M10 internal thread and a cylindrical screw spring designed according to DIN EN10270-1: 2001. Height adjustment is done via a threaded rod M10 with three nuts and three locking washers for level adjustment and weight distribution. Corrosion protection: Optional corrosion protection, either galvanized or cataphoresis coated (KTL).

Field of application

Isotop® SD elements have a natural frequency, depending on the load, down to approx. 3.2 Hz and are used for:

- Source isolation of ventilators, fans, extractors, air conditioners, compressors, emergency power units, pumps etc.
- Receiver isolation of sensitive electronic assemblies, measuring equipment, scales, test beds etc.
- Percussion isolation of all sorts of machines.

Required data for selection

- Total weight to be absorbed
- Number and location of points of support
- Centre of gravity
- Structural shape of the device (dimensions)
- Direction of load
- Lowest disturbing frequency (rotational speed or number of strokes)

Advantages

- Construction height, diameter and connection thread are identical for all types, which guarantees exchangeability.
- As a result of the open construction, the source is connected to the foundation point only via the spring. The spring element can oscillate in the horizontal plane without restriction.
- The spring is clearly visible, which allows checking of its condition without dismantling. The distance between spring coils is visible under load.
- Accessories, base plate and height adjustment are universally applicable for all types.



Isotop® SD, galvanized

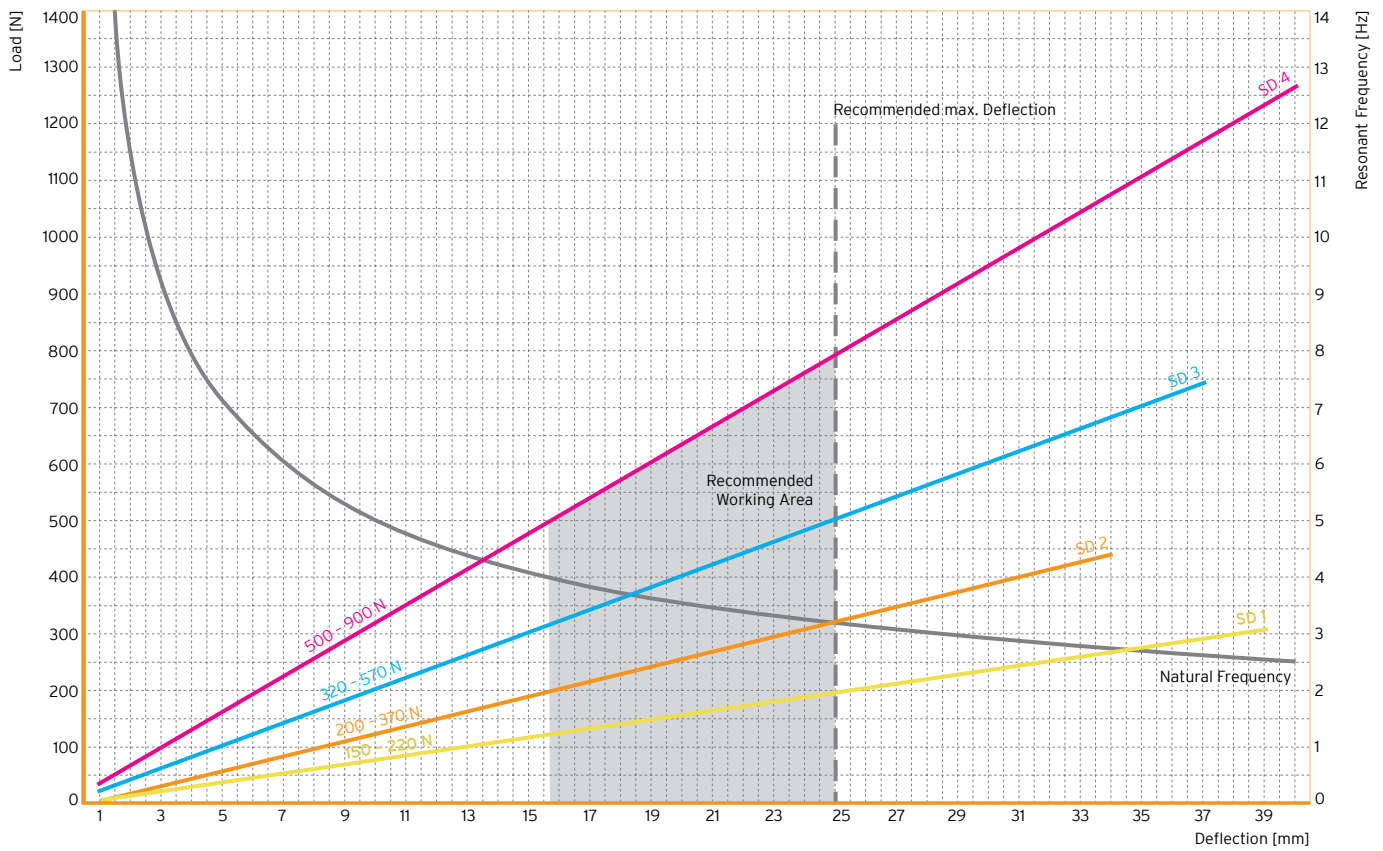


Isotop® SD, KTL

Our service

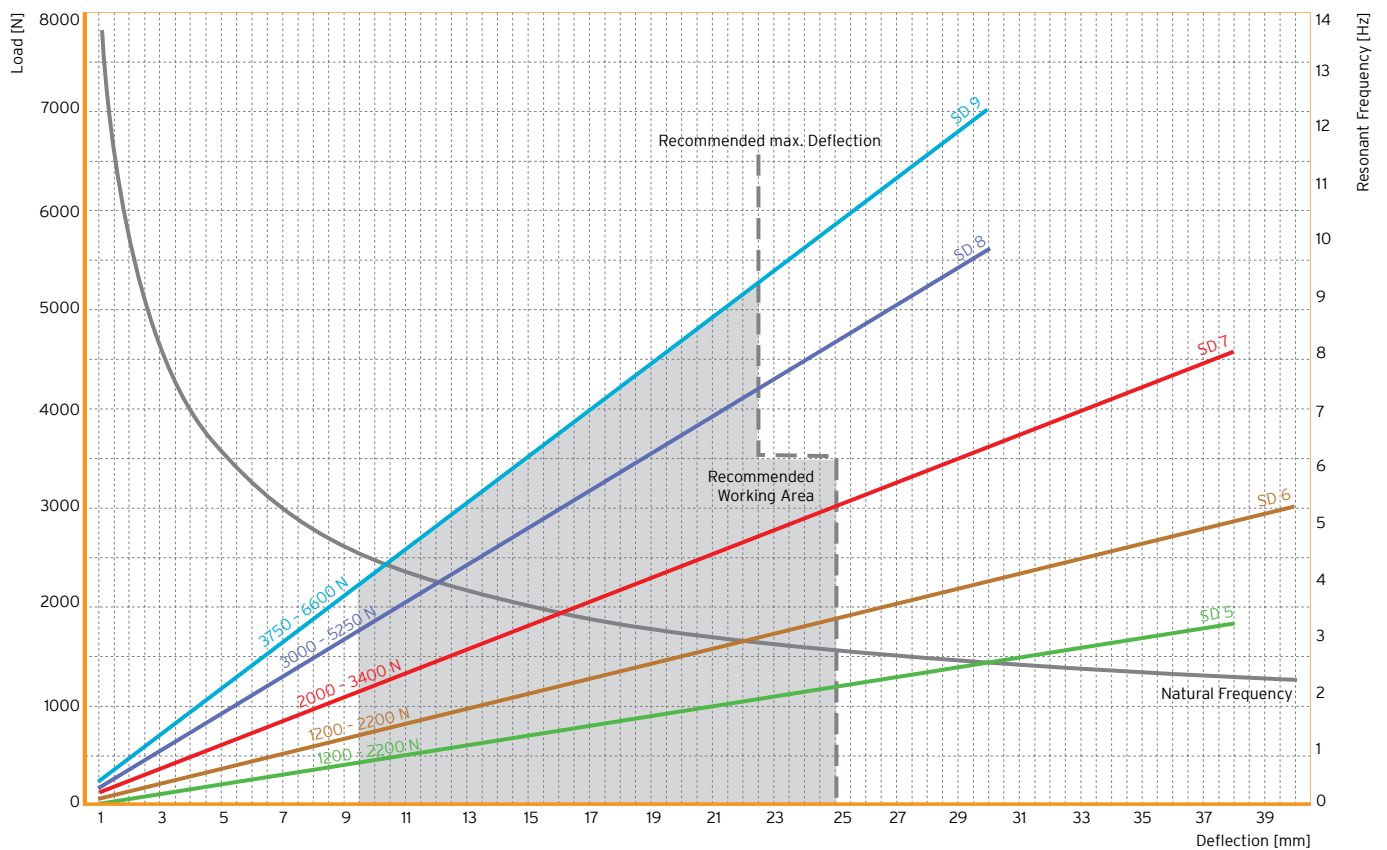
Make use of our know-how on questions about vibration technology. We will gladly consult you and will calculate tailor-made solutions for vibration isolation.

Isotop® SD 1 - SD 4



Remark: Loads higher than the recommended deflection are possible. Please than take into account that the deflection caused by additional dynamic loads has an upper limit. In such cases please ask Reinicke GmbH.

Isotop® SD 5 - SD 9

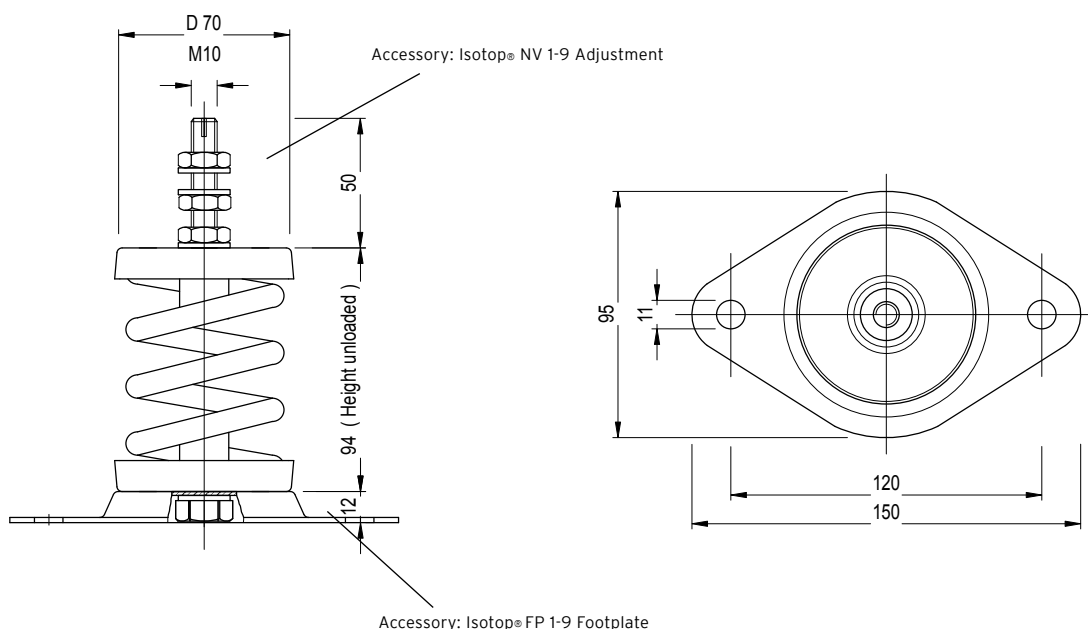


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Selection table

DESCRIPTION	REF. NO., GALVANIZED	REF. NO., KTL (BLACK)	NOMINAL RANGE min./max.	SPRING RATE
Isotop® SD 1	45000011	45000001	120 N - 265 N	7.93 N/mm
Isotop® SD 2	45000012	45000002	195 N - 380 N	12.90 N/mm
Isotop® SD 3	45000013	45000003	300 N - 670 N	20.16 N/mm
Isotop® SD 4	45000014	45000004	475 N - 1,200 N	31.64 N/mm
Isotop® SD 5	45000015	45000005	720 N - 1,700 N	48.07 N/mm
Isotop® SD 6	45000016	45000006	1,130 N - 2,700 N	75.56 N/mm
Isotop® SD 7	45000017	45000007	1,815 N - 3,800 N	121.03 N/mm
Isotop® SD 8	45000028	45000008	2,800 N - 5,200 N	187.10 N/mm
Isotop® SD 9	45000029	45000009	3,750 N - 6,400 N	234.30 N/mm

Figure with Footplate FP



All data indicated are based upon our current knowledge. They may be used as calculation and standard values and are subject to the usual machining tolerances. Subject to change and correction.