

Conical spring covers

Protection under extreme conditions

Conical spring covers protect spindles, columns, shafts, threads and rod guides reliably against contamination, chips and mechanical damage. They provide a good sealing function, and are self-cleaning if installed in a suitable position. High temperature resistance and resistance to chemicals guarantee reliable protection even under extreme operating conditions.



The springs are made of hardened high-quality spring band steel. The optimized design means that the horizontal bending and vertical deflection is very

low. Thus, even in the extended state KABELSCHLEPP conical spring covers guarantee excellent protection against dirt and mechanical influences.

Properties

- Accident prevention for operating personnel from revolving spindles and shafts
- Reduction in downtimes resulting from contamination
- Increased machine service life
- Some conical spring covers are also available for retrofitting

Subject to change.

Conical spring covers



Selection

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Installation positions

The conically wound conical spring covers automatically follow the motions of the machine. Made of high-quality blue polished steel or alternatively of stainless steel, they can be used in vertical, horizontal and inclined positions.

Vertical installation

When installed vertically, conical spring covers are mounted with the larger diameter at the top. This way the overlapping of the individual coils makes the conical spring covers self-cleaning.



Horizontal installation

When installed horizontally, conical spring covers are mounted with the larger diameter in the direction of the chip generation. In horizontal installation with larger diameters or longer expansion, the maximum expansion is reduced to 60 % of the value for vertical installation.

Moreover, a slight sag appears in the conical spring cover, which is about 2 – 5 % of the maximum expansion.



Installation in inclined position

In addition to vertical and horizontal installation, installation in an inclined position is also possible. For small angles of incline above the horizontal the same conditions apply as in horizontal installation.





Installation of several conical spring covers in series

By connecting several conical spring covers in series it is possible to deal with special requirements, such as extra-long traversing distances.

We would be happy to advise you regarding such applications and can supply you with the necessary special flanges.



Retrofitting

Many conical spring covers are also available for retrofitting.

Selection

Selection of the conical spring cover suitable for your specific application is generally based on the following criteria:

- Internal diameter D_1
- Expansion AZ (vertical / horizontal)
- Compression ZD

