

Assembly and Maintenance Instructions for Telescopic Springs

Be sure to read and observe before opening the safety wire!

1) The telescopic springs are highly tensioned, which is why they are tied down with safety wire. This must be opened with the utmost care only after the spring has been slipped onto the part to be protected (e.g. the spindle) and **only when the movable part of the machine is only about 2-3 spring-tape widths apart.**

2) To hold the two ends of the spring, **centering flanges** (recommended material: PA6 plastic) should be provided with the tolerances specified in our catalog, to make sure that the spring is free to turn. The springs must be able to move freely and must NOT under any circumstances be fixed (by means of screws or rivets).

3) For **vertical** use of the springs, their large diameter (D2) should be **at the top** to keep contaminants (such as chips) from entering the coil openings.

4) For the same reason, when using the springs in a **horizontal** position, their large diameter (D2) should be located **where the majority of chips will be encountered.**

5) **Regular maintenance is indispensable.** Depending on the amount of soiling, the springs should be cleaned once a day or week, followed by the application of a thin oil film. We recommend W44T oil spray, you can get it from HALLTECH. **However, never grease the springs!**

6) Telescopic springs find optimum operating conditions in an oily environment. They are not suitable for use where fine particles or dust above all sanding dust are encountered. (Sanding dust may harden and jam the springs.)

In the latter case we recommend the use of bellows.