



ASSEMBLY AND SERVICE INSTRUCTIONS
FOR STABILASTIC TELESCOPIC SPRINGS

|||||HENNIG®
global excellence in machine protection

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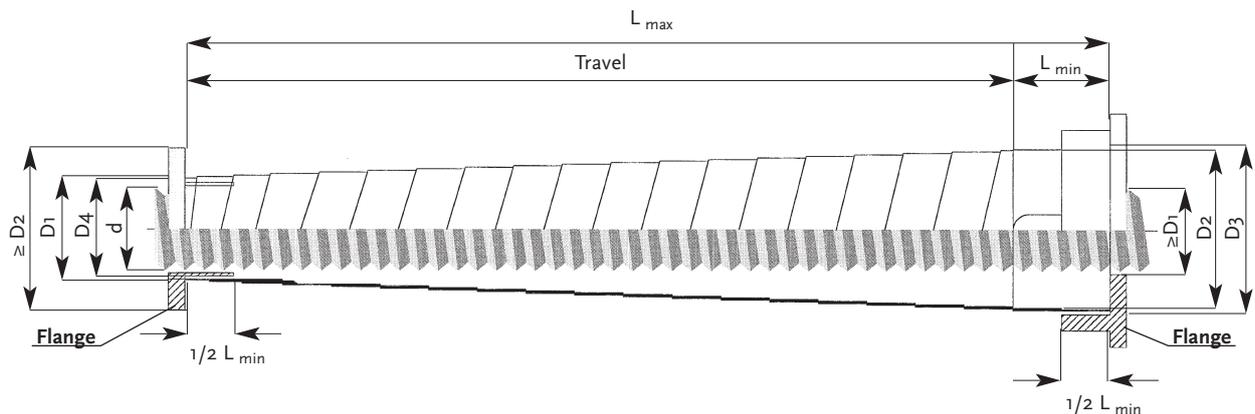
DEAR CUSTOMER,

Thank you of choosing Hennig STABILASTIC Telescopic springs.

Please read the following assembly and maintenance instructions to ensure a long product life.

STABILASTIC telescopic springs protect precise ball screws, acme screws and round guides from chips, dirt and mechanical damage.

This Hennig STABILASTIC telescopic spring is typically a special product engineered to suit your specific requirement, and may deviate from this specific instructions and pictures. When ordering spare parts, please copy the data from the name plate to guarantee shipment of the correct part.



Nomenclature:

d = Maximum diameter of the protected component
 $D_{1\ min}$ = Inner diameter of telescopic spring
 $D_{2\ max}$ = Outer diameter of telescopic spring
 D_3 = Inner diameter of the large flange ($D_2 + 2\ mm$)

D_4 = Outer diameter of the centering flange ($D_1 - 1\ mm$)
 $L_{\ max}$ = Maximum protected length
 $L_{\ min}$ = Minimum protected length
 Hub = Total stroke

A. SAFETY PRECAUTIONS

Check at assembly that the mounting flanges have the proper diameters as specified. If D_4 is too big or D_3 too small, the telescopic spring may jam.

The STABILASTIC telescopic spring is wound and tied together. Be careful when you cut the wire. Long springs have a powerful tension and may cause injury when released.

Wear gloves to protect yourself from sharp edges. Telescopic springs are not recommended for grinding machines since they do not protect sufficiently from grinding dust.

B. WARRANTY

Generally, a telescopic spring is a wear item. Warranty cover only material and workmanship in proper handling and maintenance (weekly cleaning and oiling with light machine oil is required) or overloading beyond the catalogue specifications exclude any warranty. See our general business requirements.

C. ASSEMBLY INSTRUCTIONS FOR STANDARD VERSIONS

1. Slide the first flange, followed by the tied telescopic spring, over the component to be protected.
2. Slide the second flange over the component.
3. Assemble the support for the component to be protected.
4. Insert about 20 mm wide spacers left and right of the telescopic spring between flanges.
5. Position the spacers so that the wire which ties the spring together is cleared and can be removed.
6. Position the machine slide to eliminate any play between spring, spacers and flange.
7. Carefully cut the wires which ties the spring together to relax the telescopic spring.
8. Also carefully remove the spacers on both sides of the spring.
9. Position the spring in both flanges concentrically. Move the machine slide slowly back and forth a few times to seat the spring properly.

D. ASSEMBLY INSTRUCTION FOR WINDING THE SPRING OVER AN ASSEMBLED SPINDLE

Generally a STABILASTIC spring is pushed over an open end of a disassembled component. With smaller types including TF 54/1120/120 it is possible, to wind the spring over an assembled spindle.

1. Before rewinding push the STABILASTIC telescopic spring together and hold it to Lmin length.
2. Rewind the spring by rolling the large diameter (Fig. 1) to become the small diameter (see Fig. 2 and 3)
3. To assemble the spring, wind the outer winding around the spindle to become the smaller protected winding (Fig. 4) and continue until the whole spring is around the spindle.
4. Insert the spring into the centering flanges (Fig. 5). If adding the STABILASTIC telescopic spring was an afterthought, split flanges can be arranged to avoid disassembly. However, this method should be the exception.

Start rewinding with the largest winding:

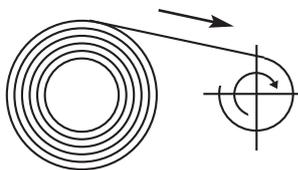


Figure 1

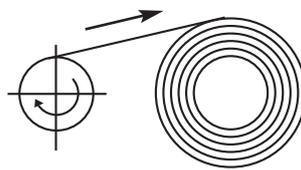


Figure 2

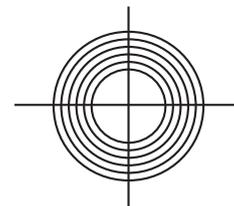


Figure 3

Hook the former smallest winding (now the outer winding) around the spindle and continue until the complete spring is wound around the spindle.

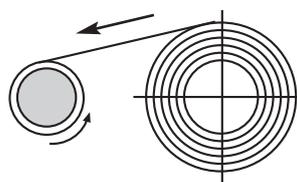


Figure 4

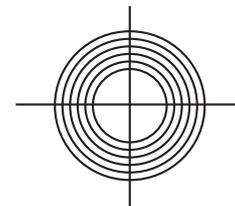


Figure 5

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