

Centering Clamping Elements EH 23340.

https://www.halder.com/eng_de/Products/Standard-Parts/Clamping-Elements/Centering-Clamping-Elements

Centering clamping elements are used for clamping and centering workpieces with locating bore. They are often used in mechanical engineering, but can be also used in all industries thanks to their simple operation and quick installation. The precise self-centering enables you to achieve a high accuracy of $\pm 0,025\text{mm}$. The centering clamping element is characterized by large adjustment ranges and a low overall height. Can be screwed on from the top and the bottom.

The centering clamping elements are available in four different versions.

With clamping segments:

Due to the grounded clamping segments, machine parts can be centered by frictional connection and pulled down onto the support points. The clamping segments are intended for surfaces that have already been machined (turned, milled, grounded).



With clamping balls:

The grounded clamping balls are suitable for components where the clamping range is still unmachined. The balls “dig” easily into the workpieces. They leave slight clamping marks, which is why the clamping segment variant should be selected for sensitive or important surfaces.



Centering clamping elements with mounting from the top

[EH 23340. Centering Clamping Elements with clamping segments](#)

[EH 23440. Centering Clamping Elements with clamping balls](#)



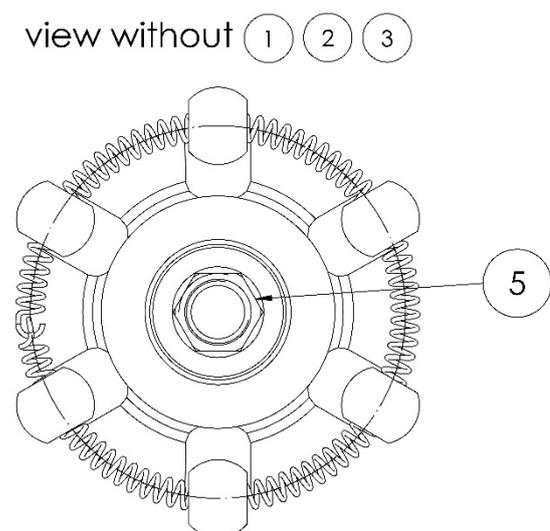
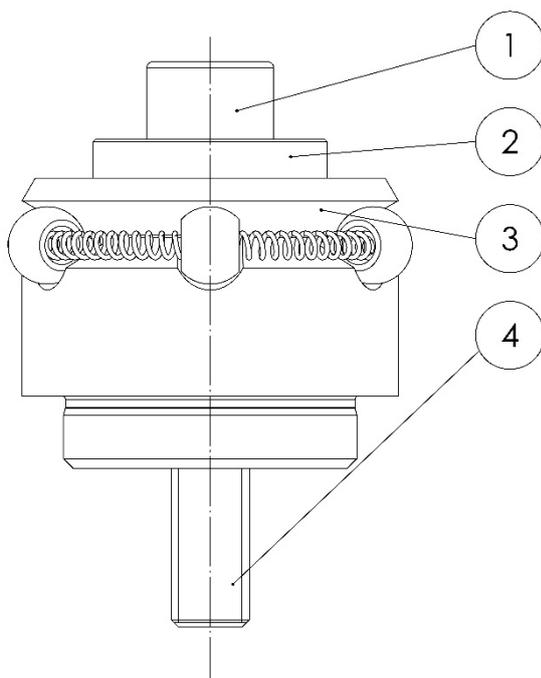
Both versions can be mounted from either top or bottom.

Mounting from the top:

Unscrew the clamping screw (1), remove the spacer (2), remove the clamping ring (3), screw in the appropriate grub screw (4) from below, and fasten the centering clamping element to the counterpart using the inner key width (5). Reattach the clamping ring (3) and make sure that the clamping segments / balls are seated correctly in the recess. Now place the spacer (2) and tighten the screw (1) again.

Mounting from the bottom:

Replace the grub screw (4) with a suitable screw and fix the centering clamping element from below via the threaded hole.



Centering clamping elements with operation from the bottom

[EH 23340. Centering Clamping Elements with clamping segments, operation from the bottom](#)

[EH 23340. Centering Clamping Elements with clamping balls, operation from the bottom](#)

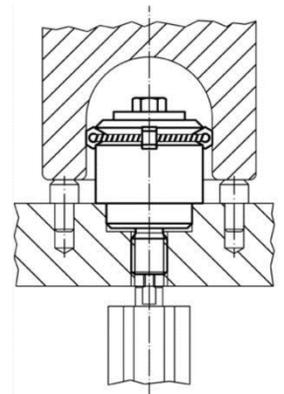
These centering clamping elements are often used in mounting or clamping devices. Operation from the bottom can be done both manually and automatically (pneumatic or hydraulic). This version is also available with clamping segments / balls.



Both versions can be mounted from either top or bottom.

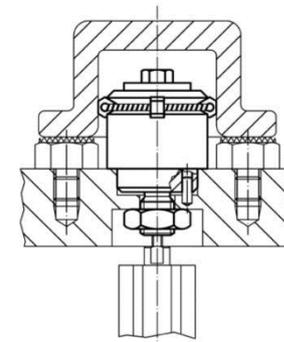
Mounting from the top:

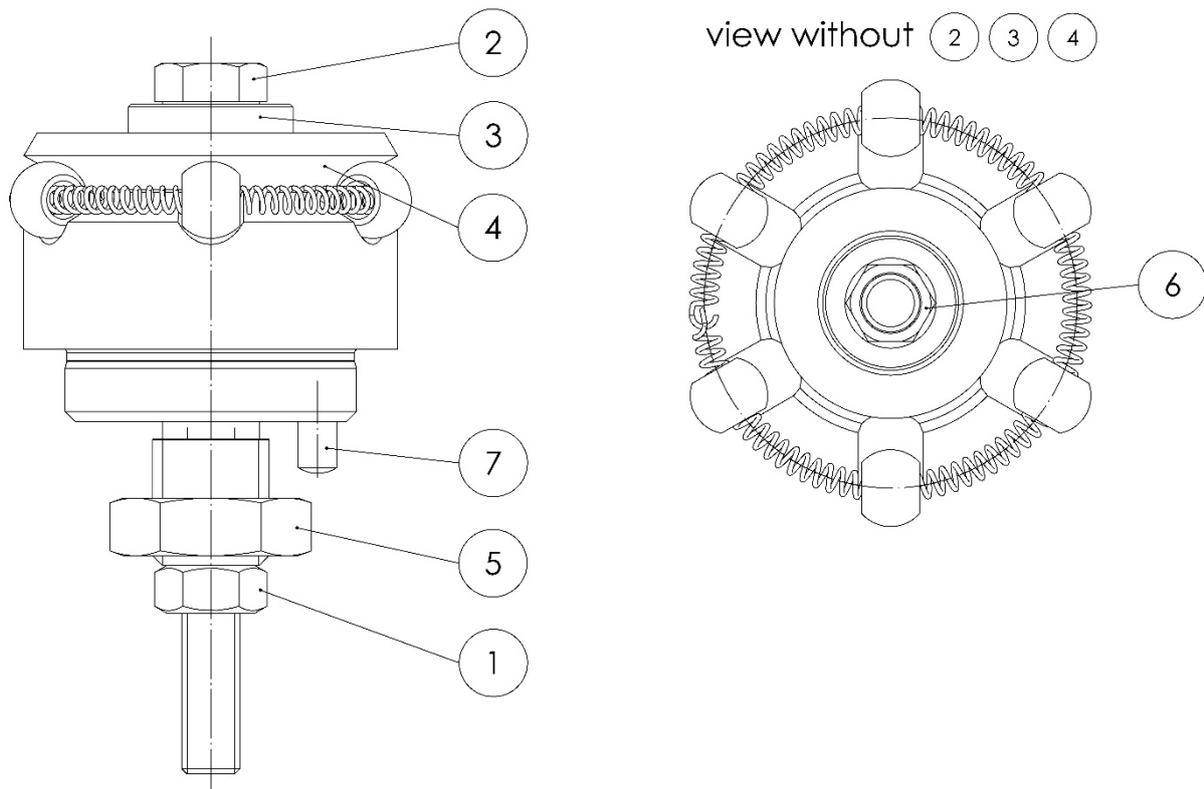
Unscrew the lock nut (1), remove the hexagon screw (2), remove the spacer (3) and the clamping ring (4). Unscrew the nut (5) (not necessary for this version). Fasten the centering clamping element in the threaded hole using the inner key width (6). Then reattach the clamping ring (4) and make sure that the clamping segments / balls are seated correctly in the recess. Now place the spacer (3) and tighten the screw (2) again.



Mounting from the bottom:

Place the centering clamping element in the provided hole. Secure with a cylindrical pin (7) against twisting if necessary, then tighten the nut (5).



**Important notes:**

- The contact surface of the centering clamping element and the counterpart must be clean and free from chips or other dirt before assembly.
- Before first use: Make sure that all clamping points are in contact with the workpiece.
- With pneumatic or hydraulic connection, it is essential to ensure the maximum tractive force.

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