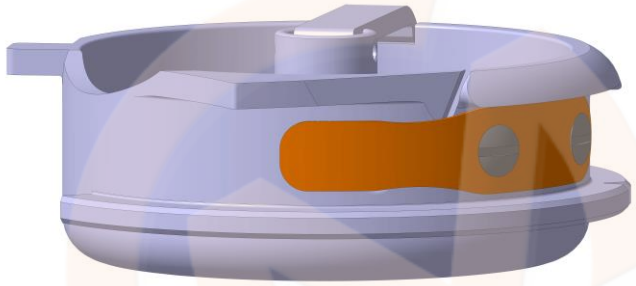
Tension Spring Types For Vertical Hooks

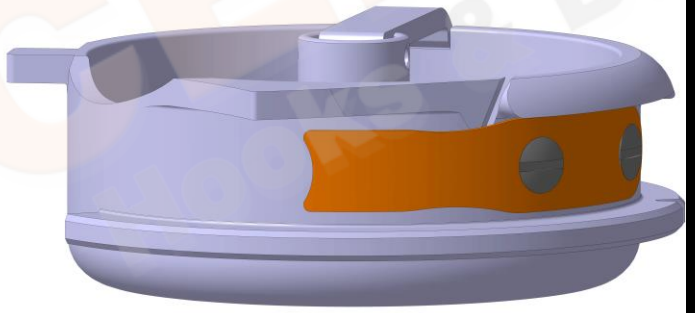
Vertical axis rotary hooks have several executions of the tension spring that is mounted on the basket (on drop-in hooks =KL) or on the cap (on hooks with cap = KK). Such tension springs differ in the shape of their ends under which passes the bobbin thread. The spring must provide the bobbin thread with the correct tension to balance the tension of the needle thread and close the stitch in a symmetrical manner with respect to the thickness of the sewing material. The different spring shapes have been developed over the years to better adapt to different types of threads, as illustrated by the following figures. Important is also the quality of the material used to manufacture the spring and its bending, which allow fine adjustment of the tension and that determine the maximum and minimum of the tension's adjustment range, such guaranteeing the spring's performance constancy over the time. There is a good reason to trust only quality products such as CM CERLIANI®!
Moreover, there are different systems to avoid unwanted unscrewing of the adjusting screw during sewing. A first antiloosening system is achieved by a slot in the threaded area of the adjusting screw, which deforms it slightly, increasing the friction. Another, more refined anti-loosening system, instead, has an hex head adjusting screw cooperating with a double deep-drawing on the tension spring. In any case, most important are always the quality and accuracy of this adjusting screw! Even in these details, you can appreciate the superior quality of CM CERLIANI®!

TENSION SPRING EXECUTIONS

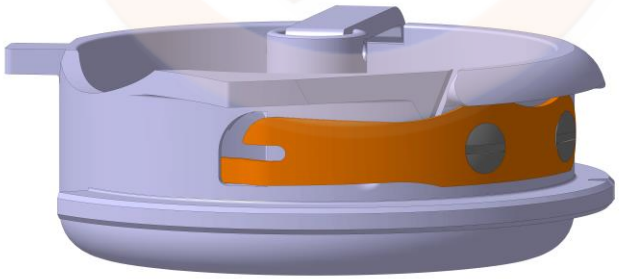
PLATE SPRING
(for heavy threads)



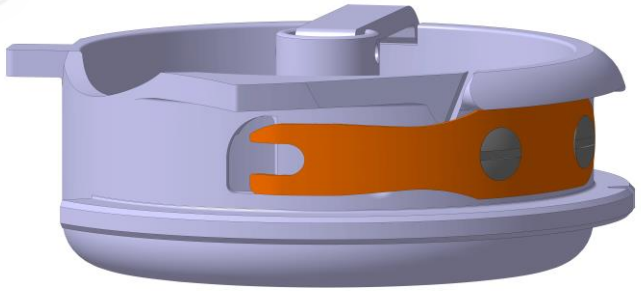
HALF-MOON SHAPED SPRING
(for medium-heavy threads)



SPRING WITH ONE EMBEDDED TOOTH
(for light threads)

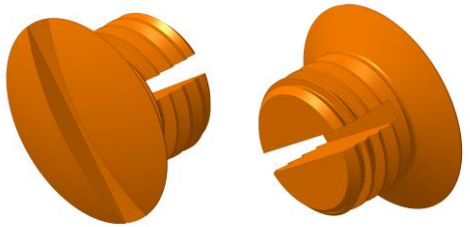


SPRING WITH TWO BENT TEETH
(for light threads)



ANTILOOSENING SYSTEMS OF THE TENSION SPRING ADJUSTING SCREW

SCREW WITH SLOT IN THE THREADED AREA



HEXAGON HEAD SCREW