

Clamp Collars for Spline Shafts - DIN ISO 14

Material: Steel C45, screw strength 12.9, zinc-plated.
Aluminium, screw stainless steel A2-70.

Single-split clamp collars, as end-stops on spline shafts.

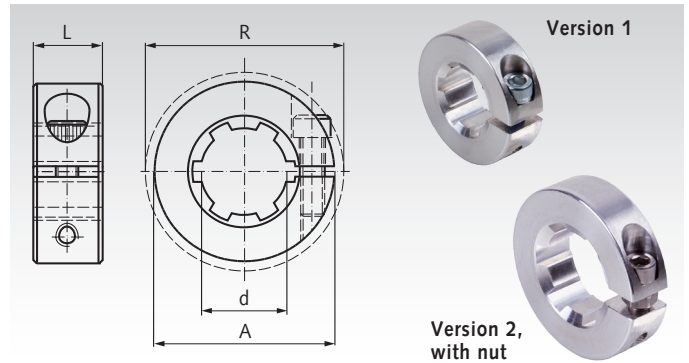
These rings don't damage the shaft. The clamping force is much stronger than with set collars. They are easy to readjust.

Version 1: The thread of the screw DIN 912 is covered with a layer of polyamide.

Version 2: with additional nut, for adjusting the inner diameter and as lock nut.

Tolerance L: +0.08 mm
-0.25 mm

Temperature range: -40°C to +175°C.



Ordering Details: e.g.: Product No. 648 672 00, Clamp Collar, Steel, KN 11 x 14

Product No. Steel C45	Product No. Aluminium	Profile mm	Version Steel	Version Aluminium	A mm	d mm	L mm	R _{max.} mm	Screw DIN912	Nut sw* mm	Weight Steel g	Weight Alu g
648 672 00	648 622 00	KN 11 x 14	1	1	30	11	11	34,7	M4 x 12	-	46	17
648 674 00	648 624 00	KN 13 x 16	1	1	34	13	13	39,9	M5 x 14	-	70	25
648 675 00	648 625 00	KN 16 x 20	1	1	40	16	15	47,6	M6 x 16	-	110	42
648 671 00	648 621 00	KN 18 x 22	1	1	42	18	15	49,3	M6 x 16	-	118	43
648 676 00	648 626 00	KN 21 x 25	1	1	45	21	15	51,8	M6 x 16	-	124	46
648 673 00	648 623 00	KN 23 x 28	1	1	48	23	15	54,4	M6 x 18	-	144	51
648 677 00	648 627 00	KN 26 x 32	2	1	54	26	15	59,7	M6 x 18	10 /-	180	66
648 679 00	648 629 00	KN 28 x 34	2	2	57	28	15	62,3	M6 x 18	10	196	72
648 678 00	648 628 00	KN 32 x 38	2	2	60	32	15	66,0	M6 x 18	10	204	76
648 682 00	648 632 00	KN 36 x 42	2	2	73	36	19	80,4	M8 x 25	13	416	155
648 680 00	648 630 00	KN 42 x 48	2	2	78	42	19	85,7	M8 x 25	13	450	166

* width across flats of nut, only at version 2.

Choice of material

The aluminium version offers a high clamping force. But it has a rotating imbalance, caused by the single screw from heavier material. So, this version is suited for lower speed. At the steel version, the imbalance is much smaller and the clamping force is even higher. This version is proper for higher load, higher speed and high temperature. If highly loaded threadholes must be produced for adapting any components, you should also choose the steel version.

Note for Version 2

At the bigger sizes, due to tensions inside the material, it is necessary to adjust the inner diameter before mounting: Loosen the screw, turn it about half a round further out and hold it in this position. Turn the nut towards the head of the screw to enlarge the ring a little. Push the ring on the shaft, on the desired position. Loosen the nut. Tighten the bolt and then tighten the nut, as a lock nut.