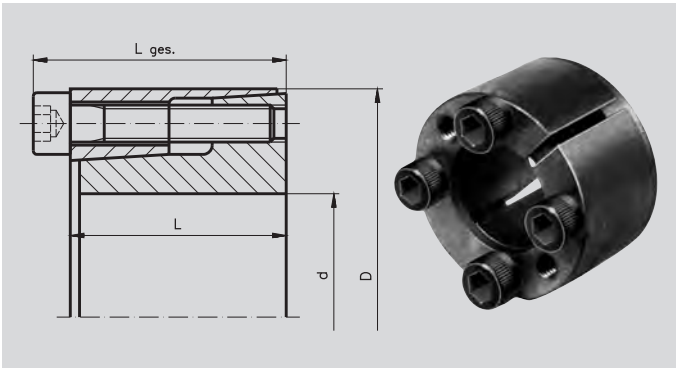
Clamping Sets BAR, Stainless

Material: Stainless steel 1.4057.

- For fixing a hub (e.g. drive wheel, rotor or similar) on a shaft.
- Stainless Steel.
- For low torques.
- Self-centering.
- Slight axial offset possible during assembly.



Ordering Details: e.g.: Product No. 615 994 06, Clamping Set BAR Stainless 6 mm

Product No.	d mm	D mm	L mm	L ges. mm	At M_A transmittable M_t Nm	F_{ax} kN	Surface Pressure at Shaft P_W N/mm²	at Hub P_N N/mm²	Tensioning Screw DIN 912 Size	Fastening Torque M_A [Nm]	Weight kg
615 994 06	6	16	11	13.5	3	0.9	49	19	M 2.5	0.5	0.012
615 994 07	7	17	11	13.5	3	0.9	42	17	M 2.5	0.5	0.013
615 994 08	8	18	11	13.5	4	0.9	37	17	M 2.5	0.5	0.015
615 994 09	9	20	13	15.5	6	1.2	37	17	M 2.5	0.5	0.020
615 994 10	10	20	13	15.5	6	1.2	33	17	M 2.5	0.5	0.019
615 994 11	11	22	13	15.5	7	1.2	30	15	M 2.5	0.5	0.024
615 994 12	12	22	13	15.5	7	1.2	26	15	M 2.5	0.5	0.022
615 994 14	14	26	17	20	13	1.9	28	15	M 3	0.9	0.039
615 994 15	15	28	17	20	14	1.9	26	14	M 3	0.9	0.044
615 994 16	16	32	17	21	28	3.5	45	23	M 4	2.2	0.066
615 994 17	17	35	21	25	30	3.5	34	17	M 4	2.2	0.092
615 994 18	18	35	21	25	32	3.5	32	17	M 4	2.2	0.087
615 994 19	19	35	21	25	34	3.5	31	17	M 4	2.2	0.084
615 994 20	20	38	21	26	55	5.5	45	24	M 5	4.2	0.100
615 994 22	22	40	21	26	61	5.5	41	23	M 5	4.2	0.110
615 994 24	24	47	26	32	96	8.0	44	23	M 6	7.3	0.200
615 994 25	25	47	26	32	100	8.0	43	23	M 6	7.3	0.190
615 994 28	28	50	26	32	210	15.0	57	32	M 6	7.3	0.220
615 994 30	30	55	26	32	220	15.0	54	29	M 6	7.3	0.270
615 994 32	32	55	26	32	240	15.0	50	29	M 6	7.3	0.250
615 994 35	35	60	29	35	350	20.0	55	32	M 6	7.3	0.360
615 994 38	38	65	29	35	380	20.0	51	29	M 6	7.3	0.430
615 994 40	40	65	29	35	400	20.0	48	29	M 6	7.3	0.400

Fit, Surface

Due to the special design of the BAR clamping set, even rough fits can be bridged with excellent self centering capacity.
Shaft and hub up to Quality h8/H8.
Surface finish for shaft and hub < 12µm.

Mounting

Slightly oil the clamping set before mounting, do not use molibdenum disulphide or grease. Tighten the screws evenly and crosswise in several steps.

Important

The clamping set has to sit inside the bore by at least the measure „L“.

Demounting

Loosen the screws crosswise.

Simple design	**cost efficient**
Ideal load distribution among shaft and hub	**lower transmittable torque**
Large clamping area	**shaft and hub up to quality h8/H8**
Very good centering capacity and concentricity	**shaft and hub without special concentricity tolerance**
No special tools No self-locking capacity	**simple mounting trouble-free demounting**

Hub Calculation

$$D_N \geq D \cdot \sqrt{\frac{\sigma_{N\,0.2} + P_N \cdot C}{\sigma_{N\,0.2} - P_N \cdot C}}$$

D_N = hub diameter in mm
$\sigma_{N\,0.2}$ = elastic limit of the hub material = 350 N/mm² for C45
C = 0.6 at hub width 2 x L
C = 1.0 at hub width 1 x L
Please take D, P_N and L from the table