TRANSDRIVE®

DRIVE PERFORMANCE

Shaft-Hub Connections

transdrive.com.au

TRANSDRIVE®

DRIVE PERFORMANCE

TransDrive was established to bring together our passion and experience in power transmission by being able to offer affordable, high-quality products to the power transmission and bearing market. Built on the philosophy of improving performance and quality of all of our TransDrive products.

Transdrive products have been manufactured and tested to meet ISO standards and the tough, working conditions of heavy industries.

Our team have experience in power transmission and bearings. Every product we design and manufacture is backed by years of industry knowledge and an understanding of what our customers and the market need.

At TransDrive, our goal is simple: to provide accessible, high-quality products at affordable pricing. With an unwavering commitment to excellence, TransDrive operates with a focus on providing innovative industry solutions.

Whether it is through our custom products, the standard range of pulleys, slew drives, chains and sprockets, TransDrive is dedicated to delivering effective solutions for the trades that offer increased productivity and reliability.

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Contents

Taper Lock Bushes

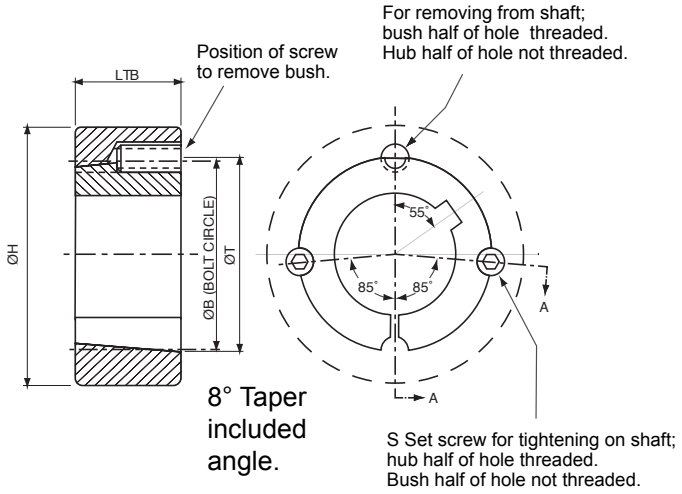
Taper Lock Bushes facilitate a quick method of securing a sprocket, pulley or coupling.

We have a wide range of Taper lock bushes, used for the mechanical joining of a shaft to a sprocket or a pulley. Taper lock bushes are fastened securely to a shaft via the tapered surface. This provides flexibility between the main component to be suitable with many shaft sizes. Our range of Taper Lock Bushes complements our coupling, pulley and sprockets stock.

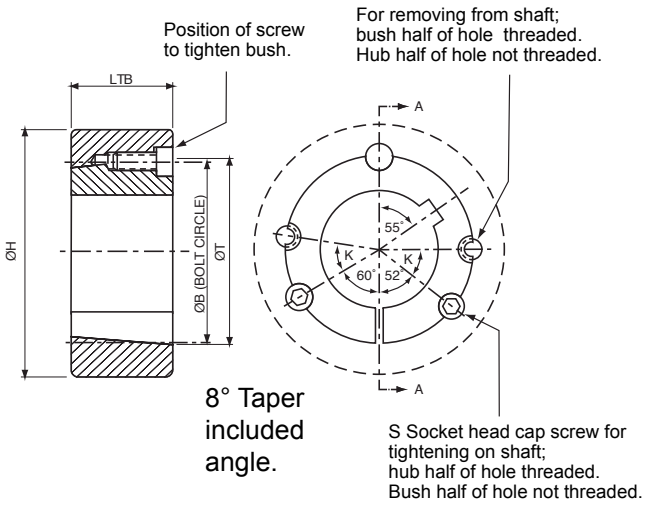
TransDrive range of Taper Lock Bushes come in a variety of bore sizes, in both metric and imperial in sizes from 1008 through to 6050 in both steel and stainless steel.

Specifications

Taper Bush 1008 to 3030



Taper Bush 3525 to 5050



Bush Size	Ø T	LBT	Minimum HUB Dia H			Ø B	S Set Screws		K
			UTS 200 N/mm2 Gray Iron	UTS 250 N/mm2 Gray Iron	UTS 420 N/mm2 Steel		Qty. Screws	Size (Inches)	
1008	35.20	22.3	59	54	51	33.73	2	1/4 x 1/2	-
1108	38.38	22.3	61	57	54	36.92	2	1/4 x 1/2	-
1210	47.62	25.4	99	86	78	44.44	2	3/8 x 5/8	-
1215	47.62	38.1	79	73	68	44.44	2	3/8 x 5/8	-
1310	50.80	25.4	100	88	80	47.63	2	3/8 x 5/8	-
1610	57.15	25.4	102	92	85	53.97	2	3/8 x 5/8	-
1615	57.15	38.1	86	81	77	53.97	2	3/8 x 5/8	-
2012	69.85	31.8	115	106	99	66.68	2	7/16 x 7/8	-
2517	85.73	44.5	125	119	113	82.55	2	1/2 x 1	-
2525	85.73	63.5	115	111	108	82.56	2	1/2 x 1	-
3020	107.96	50.8	154	146	140	101.60	2	5/8 x 1.1/4	-
3030	107.96	76.2	141	136	132	101.60	2	5/8 x 1.1/4	-
3525	127.00	63.5	206	191	178	122.68	3	1/2 x 1.1/2	40°
3535	127.00	89.0	185	176	168	122.68	3	1/2 x 1.1/2	40°
4030	146.05	76.2	220	207	197	140.72	3	5/8 x 1.3/4	40°
4040	146.05	101.5	203	195	188	140.72	3	5/8 x 1.1/4	40°
4535	161.93	89.0	221	212	205	455.70	3	3/4 x 2	40°
4545	161.93	114.3	211	205	200	155.70	3	3/4 x 2	40°
5040	177.80	101.6	236	229	223	170.69	3	7/8 x 2.1/4	37°
5050	177.80	127.0	230	223	219	170.69	3	7/8 x 2.1/4	37°

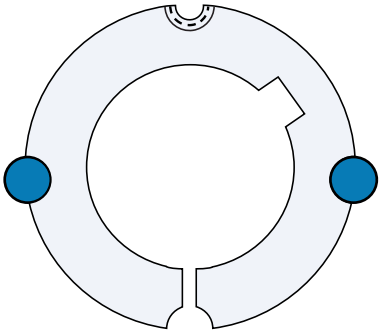
How to install

1. Clean shaft, bore and outside of bush, and bore of hub. Remove any oil, lacquer or dirt. Place bush in hub and match half holes to make complete holes (each complete hole will be threaded on one side only).
2. Lightly oil thread and point of set screws, or thread and under head of cap screws. Place screws loosely in holes that are threaded on hub side.
3. Make sure bush is free in hub. Slip assembly onto shaft and locate in the desired position.
4. Tighten screws alternately and evenly until all are pulled up tightly (See table for torque settings).
5. Hammer against large end of bush using hammer and block or sleeve to avoid damage. Screws can now be turned a little more to the specified torque setting. Repeat this alternate hammering and screw re-tightening until the specified torque is reached.
6. Fill all holes with grease to exclude dirt.

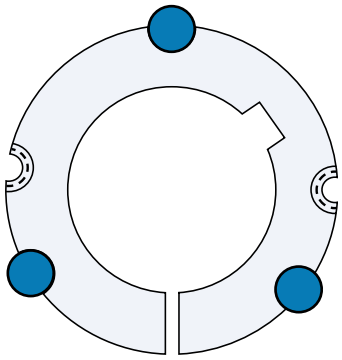
How to remove

1. Remove all screws (●). Lightly oil thread and point of set screws, or thread and under head of cap screws.
2. Insert screws into removal holes that are threaded on the bush side (◡). In sizes where washers are found under screw heads, be sure to use these washers.
3. Tighten screws alternately until bush is loosened in hub and then remove the complete assembly. If bush does not loosen immediately, tap on hub.

1008 to 3030



3525 to 5050



Recommended wrench torque

Bush Size	Screws	Tightening Torque (Nm)	Bush Size	Screws	Tightening Torque (Nm)	Bush Size	Screws	Tightening Torque (Nm)
1008	1/4" Set Screws	6	2012	7/16" Set Screws	30	4030	5/8" Cap Screws	170
1108	1/4" Set Screws	6	2517	1/2" Set Screws	50	4040	5/8" Cap Screws	170
1210	3/8" Set Screws	20	2525	1/2" Set Screws	50	4535	3/4" Cap Screws	190
1215	3/8" Set Screws	20	3020	5/8" Set Screws	90	4545	3/4" Cap Screws	190
1310	3/8" Set Screws	20	3030	5/8" Set Screws	90	5040	7/8" Cap Screws	270
1610	3/8" Set Screws	20	3525	1/2" Cap Screws	113	5050	7/8" Cap Screws	270
1615	3/8" Set Screws	20	3535	1/2" Cap Screws	113			

Bush Series - Metric

1008

Bore (mm)	Weight (kg)	Key Steel
9	0.13	3 x 3
10	0.14	
11	0.14	4 x 4
12	0.13	
14	0.13	5 x 5
16	0.12	
18	0.11	6 x 6
19	0.10	
20	0.10	
22	0.09	
24	0.09	8 x 7
25	0.08	

1108

Bore (mm)	Weight (kg)	Key Steel
9	0.16	3"x 3
10	0.15	
11	0.10	4 x 4
12	0.16	
14	0.16	5 x 5
16	0.14	
18	0.14	6 x 6
19	0.13	
20	0.13	
22	0.12	
24	0.11	8 x 7
25	0.10	
28	0.09	

1210

Bore (mm)	Weight (kg)	Key Steel
11	0.20	4 x 4
12	0.28	
14	0.28	5 x 5
16	0.27	
18	0.26	6 x 6
19	0.25	
20	0.25	
22	0.23	
24	0.22	8 x 7
25	0.21	
28	0.19	
30	0.17	
32	0.15	10 x 8

1215

Bore (mm)	Weight (kg)	Key Steel
11	0.41	4 x 4
12	0.40	
14	0.39	5 x 5
16	0.38	
18	0.37	6 x 6
19	0.36	
20	0.35	
22	0.33	
24	0.31	8 x 7
25	0.30	
28	0.27	
30	0.24	
32	0.22	10 x 8

Bush Series - Metric

1610

Bore (mm)	Weight (kg)	Key Steel
14	0.42	5 x 5
16	0.41	
18	0.40	6 x 6
19	0.40	
20	0.39	
22	0.38	
24	0.36	8 x 7
25	0.35	
28	0.33	
30	0.31	
32	0.29	l0 x 8
35	0.26	
38	0.24	
40	0.22	12 x 8
42	0.20	

1615

Bore (mm)	Weight (kg)	Key Steel
14	0.60	5 x 5
16	0.58	
18	0.56	6 x 6
19	0.56	
20	0.54	
22	0.52	
24	0.50	8 x 7
25	0.49	
28	0.47	
30	0.44	
32	0.41	10 x 8
35	0.38	
38	0.33	
40	0.31	12 x 8
42	0.28	

2012

Bore (mm)	Weight (kg)	Key Steel
14	0.79	5 x 5
16	0.78	
18	0.77	6" x 6"
19	0.76	
20	0.76	
22	0.74	
24	0.73	8" x 7"
25	0.71	
28	0.68	
30	0.66	
32	0.64	10 x 8
35	0.61	
38	0.57	
40	0.54	12 x 8
42	0.51	
45	0.47	14 x 9
48	0.42	
50	0.37	

2517

Bore (mm)	Weight (kg)	Key Steel
16	1.75	5 x 5
18	1.71	6 x 6
19	1.66	
20	1.62	
22	1.58	
24	1.56	8 x 7
25	1.56	
28	1.50	
30	1.49	
32	1.46	10 x 8
35	1.42	
38	1.35	
40	1.31	12 x 8
42	1.26	
45	1.20	14 x 9
48	1.14	
50	1.10	
55	0.95	16 x 10
60	0.82	18 x 11
65	0.70	

Bush Series - Metric

2525

Bore (mm)	Weight (kg)	Key Steel
22	2.20	6 x 6
24	2.17	8 x 7
25	2.15	
28	2.09	
30	2.05	
32	2.01	10 x 8
35	1.94	
38	1.86	
40	1.80	12 x 8
42	1.74	
45	0.64	14 x 9
48	0.61	
50	0.57	
55	0.54	16 x 10
60	0.51	18 x 11

3020

Bore (mm)	Weight (kg)	Key Steel
25	2.93	8 x 7
28	2.88	
30	2.85	
32	2.84	10 x 8
35	2.77	
38	2.71	
40	2.67	12 x 8
42	2.60	
45	2.56	14 x 9
48	2.47	
50	2.20	
55	2.15	16 x 10
60	2.07	18 x 11
65	1.93	
70	1.70	20 x 12
75	1.50	

3030

Bore (mm)	Weight (kg)	Key Steel
35	3.97	10 x 8
38	3.89	
40	3.80	12 x 8
	3.65	
42	3.40	
45	3.35	14 x 9
48	3.30	
50	3.25	
55	3.20	16 x 10
60	2.95	18 x 11
65	3.67	
70	2.45	12 x 12
75	2.10	

3525

Bore (mm)	Weight (kg)	Key Steel
35	4.96	10 x 8
38	4.88	
40	4.82	12 x 8
42	4.76	
45	4.67	14 x 9
48	4.57	
50	4.50	
55	4.31	16 x 10
60	4.10	81 x 11
65	3.88	
70	3.64	20 x 12
75	3.38	
80	3.10	22 x 14
85	2.80	
90	2.49	25 x 14
95	2.20	
100	2.00	28"x 16

Bush Series - Metric

3535

Bore (mm)	Weight (kg)	Key Steel
35	6.20	10 x 8
38	6.50	
40	6.60	12 x 8
42	6.34	
45	6.25	14 x 9
48	6.10	
50	6.00	
55	5.77	16 x 10
60	5.45	18 x 11
65	5.15	
70	4.80	20 x 12
75	4.45	
80	4.06	22 x 14
85	3.63	
90	3.50	25 x 14

4030

Bore (mm)	Weight (kg)	Key Steel
40	7.85	12 x 8
42	7.78	
45	7.66	14 x 9
48	7.54	
50	7.46	
55	7.23	16 x 10
60	6.99	18 x 11
65	6.72	
70	6.43	20 x 12
75	6.11	
80	5.78	22 x 14
85	5.42	
90	5.05	25 x 14
95	4.65	
100	4.23	28"x 16
105	4.00	
110	3.80	
115	3.60	32 x 18

4040

Bore (mm)	Weight (kg)	Key Steel
40	10.46	12 x 8
42	10	
45	0.56	14 x 9
48	0.56	
50	0.54	16 x 10
55	0.52	
60	0.50	18 x 11
65	0.49	
70	0.47	20 x 12
75	0.44	
80	0.41	22 x 14
85	0.38	
90	0.33	25 x 14
95	0.31	
100	0.28	28 x 16

4535

Bore (mm)	Weight (kg)	Key Steel
55	10.69	16 x 10
60	10.40	18 x 11
65	10.08	
70	9.74	20 x 12
75	9.38	
80	8.99	22 x 14
85	8.57	
90	8.13	25 x 14
95	7.67	
100	7.17	28 x 16
105	6.66	
110	6.12	
115	6.00	32 x 18
120	5.80	
125	5.60	

Bush Series - Metric

4545

Bore (mm)	Weight (kg)	Key Steel
55	13.20	8 x 7
60	12.90	18 x 11
65	12.40	
70	12.00	20 x 12
75	11.50	
80	10.90	22 x 14
85	10.50	
90	9.90	25 x 14
95	9.50	
100	8.90	28 x 16
105	8.20	
110	7.40	

5040

Bore (mm)	Weight (kg)	Key Steel
70	13.93	20 x 12
75	13.52	
80	13.07	22 x 14
85	12.60	
90	12.09	25 x 14
95	11.56	
100	11.00	28 x 16
105	10.41	
110	9.80	
115	9.15	32 x 18
120	8.48	
125	7.77	

5050

Bore (mm)	Weight (kg)	Key Steel
70	13.20	20 x 12
75	12.90	
80	12.40	22 x 14
85	12.00	
90	11.50	25 x 14
95	10.90	
100	10.50	28 x 16
105	9.90	
110	9.50	
115	8.90	32 x 18
120	8.20	
125	7.40	

Bush Series - Imperial

1008

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
3/8"	0.14	1/8" x 1/8"	—
1/2"	0.13		
5/8"	0.12	3/16" x 3/16"	—
3/4"	0.11		
7/8"	0.09	1/4" x 1/4"	—
1"	0.07		
1 1/8"	0.08	5/16" x 5/16"	5/16" x 1/4"
1 1/4"			
1 3/8"		3/8" x 3/8"	3/8" x 1/4"
1 1/2"			
1 5/8"		7/16" x 7/16"	7/16" x 5/16"

1108

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
3/8"	0.17	1/8" x 1/8"	—
1/2"	0.16		
5/8"	0.15	3/16" x 3/16"	—
3/4"	0.14		
7/8"	0.12	1/4" x 1/4"	—
1"	0.10		
1 1/8"	0.08	5/16" x 5/16"	5/16" x 1/4"
1 1/4"			
1 3/8"		3/8" x 3/8"	3/8" x 1/4"
1 1/2"			
1 5/8"		7/16" x 7/16"	7/16" x 5/16"

1210

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1/2"	0.20	1/8" x 1/8"	—
5/8"	0.28	3/16" x 3/16"	—
3/4"	0.26		
7/8"	0.24	1/4" x 1/4"	—
1"	0.21		
1 1/8"	0.10	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	0.15		

1215

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
5/8"	0.42	3/16" x 3/16"	—
3/4"	0.30		
7/8"	0.36	1/4" x 1/4"	—
1"	0.32		
1 1/8"	0.28	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	0.24		

1610

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1/2"	0.46	1/8" x 1/8"	—
5/8"	0.44	3/16" x 3/16"	—
3/4"	0.42		
7/8"	0.40	1/4" x 1/4"	—
1"	0.38		
1 1/8"	0.35	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	0.32		
1 3/8"	0.29	3/8" x 3/8"	3/8" x 1/4"
1 1/2"	0.25		
1 5/8"	0.21	7/16" x 7/16"	7/16" x 5/16"

1615

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1/2"	0.66	1/8" x 1/8"	—
5/8"	0.64	3/16" x 3/16"	—
3/4"	0.61		
7/8"	0.58	1/4" x 1/4"	—
1"	0.55		
1 1/8"	0.51	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	0.46		
1 3/8"	0.41	3/8" x 3/8"	3/8" x 1/4"
1 1/2"	0.36		
1 5/8"	0.30	7/16" x 7/16"	7/16" x 5/16"

Bush Series - Imperial

2012

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
5/8"	0.85	3/16" x 3/16"	—
3/4"	0.83		
7/8"	0.80	1/4" x 1/4"	—
1"	0.77		
1 1/8"	0.74	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	0.70		
1 3/8"	0.66	3/8" x 3/8"	3/8" x 1/4"
1 1/2"	0.61		
1 5/8"	0.56	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	0.51		
1 7/8"	0.45	1/2" x 1/2"	1/2" x 5/16"
2"	0.39		

2517

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
3/4"	1.77	3/16" x 3/16"	—
7/8"	1.74	1/4" x 1/4"	—
1"	1.70		
1 1/8"	1.65	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	1.60		
1 3/8"	1.54	3/8" x 3/8"	3/8" x 1/4"
1 1/2"	1.48		
1 5/8"	1.41	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	1.33		
1 7/8"	1.25	1/2" x 1/2"	1/2" x 5/16"
2"	1.17		
2 1/8"	1.07	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	0.98		
2 3/8"	0.88		
2 1/2"	0.77		

2525

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
7/8"	2.38	1/4" x 1/4"	—
1"	2.31		
1 1/8"	2.24	5/16" x 5/16"	5/16" x 1/4"
1 1/4"	2.19		
1 3/8"	1.99	3/8" x 3/8"	3/8" x 1/4"
1 1/2"	1.97		
1 5/8"	1.94	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	1.62		
1 7/8"	1.72	1/2" x 1/2"	1/2" x 5/16"
2"	1.58		
2 1/8"	1.45	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	1.31		
2 3/8"	1.18		
2 1/2"	1.01		

3020

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1 1/4"	3.07	3/8" x 3/8"	3/8" x 1/4"
1 3/8"	3.00		
1 1/2"	2.93		
1 5/8"	2.85	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	2.76		
1 7/8"	2.67	1/2" x 1/2"	1/2" x 5/16"
2"	2.57		
2 1/8"	2.47	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	2.36		
2 3/8"	2.24		
2 1/2"	2.12		
2 5/8"	1.99	3/4" x 3/4"	3/4" x 1/2"
2 3/4"	1.85		
2 7/8"	1.78		
3"	1.56		

Bush Series - Imperial

3030

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1 1/4"	4.44	3/8" x 3/8"	3/8" x 1/4"
1 3/8"	4.34		
1 1/2"	4.23		
1 5/8"	4.12	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	3.99		
1 7/8"	3.85	1/2" x 1/2"	1/2" x 5/16"
2"	3.70		
2 1/8"	3.55	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	3.38		
2 3/8"	3.21		
2 1/2"	3.02		
2 5/8"	2.63	3/4" x 3/4"	3/4" x 1/2"
2 3/4"	2.62		
2 7/8"	2.41		
3"	2.19		

3525

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1 1/2"	5.28	3/8" x 3/8"	3/8" x 1/4"
1 5/8"	5.18	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	5.08		
1 7/8"	4.96	1/2" x 1/2"	1/2" x 5/16"
2"	4.84		
2 1/8"	4.71	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	4.57		
2 3/8"	4.42		
2 1/2"	4.27		
2 5/8"	4.11	3/4" x 3/4"	3/4" x 1/2"
2 3/4"	3.94		
2 7/8"	3.76		
3"	3.58		
3 1/8"	3.38	7/8" x 7/8"	7/8" x 5/8"
3 1/4"	3.18		
3 3/8"	2.07		
3 1/2"	2.80		
3 3/4"	2.50	1" x 1"	1" x 3/4"
4"	2.20		

3535

Bore (in)	Weight (kg)	Key Steel	
		Square	Non-Square
1 1/2"	7.16	3/8" x 3/8"	3/8" x 1/4"
1 5/8"	7.02	7/16" x 7/16"	7/16" x 5/16"
1 3/4"	0.88		
1 7/8"	6.73	1/2" x 1/2"	1/2" x 5/16"
2"	6.55		
2 1/8"	6.36	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	6.16		
2 3/8"	5.96		
2 1/2"	5.75		
2 5/8"	5.51	3/4" x 3/4"	3/4" x 1/2"
2 3/4"	5.28		
2 7/8"	5.02		
3"	4.77		
3 1/8"	4.50	7/8" x 7/8"	7/8" x 5/8"
3 1/4"	4.21		
3 3/8"	3.92		
3 1/2"	3.62		

4030

Bore (mm)	Weight (kg)	Key Steel	
		Square	Non-Square
1 3/4"	8.33	7/16" x 7/16"	7/16" x 5/16"
2"	8.04	1/2" x 1/2"	1/2" x 5/16"
2 1/8"	7.88	5/8" x 5/8"	5/8" x 7/16"
2 1/4"	7.71		
2 3/8"	7.54		
2 1/2"	7.36		
2 5/8"	7.16	3/4" x 3/4"	3/4" x 1/2"
2 3/4"	6.96		
2 7/8"	6.75		
3"	6.53		
3 1/8"	6.28	7/8" x 7/8"	7/8" x 5/8"
3 1/4"	6.05		
3 3/8"	5.80		
3 1/2"	5.54		
3 3/4"	4.98	1" x 1"	1" x 3/4"
4"	4.40		
4 1/4"	4.00	1 1/4" x 1 1/4"	1 1/4" x 7/8"
4 1/2"	3.70		

Bush Series - Imperial

4040

Bore (mm)	Weight (kg)	Key Steel	
		Square	Non-Square
1 3/4	10.92	7/16" x 7/16"	7/16" x 5/16"
1 7/8	10.61	1/2" x 1/2"	1/2" x 5/16"
2	10.42		
2 1/8	10.21	5/8" x 5/8"	5/8" x 7/16"
2 1/4	9.99		
2 3/8	9.71		
2 1/2	9.51		
2 5/8	9.15	3/4" x 3/4"	3/4" x 1/2"
2 3/4	8.97		
2 7/8	8.09		
3	8.40		
3 1/8	8.09	7/8" x 7/8"	7/8" x 1/2"
3 1/4	7.76		
3 3/8	7.43		
3 1/2	7.08		
3 3/4	6.35	1" x 1"	1" x 3/4"
4	5.56		

4535

Bore (mm)	Weight (kg)	Key Steel	
		Square	Non-Square
2 1/4	8.65	5/8" x 5/8"	5/8" x 7/16"
2 3/8	14.06		
2 1/2	9.99		
2 3/4	9.53	3/4" x 3/4"	3/4" x 1/2"
2 7/8	12.87		
3	9.02		
3 1/8	8.75	7/8" x 7/8"	7/8" x 1/2"
3 1/4	8.46		
3 3/8	8.17		
3 1/2	7.87		
3 3/4	7.22	1" x 1"	1" x 3/4"
4	6.54		
4 1/4	5.81	1 1/4" x 1 1/4"	1 1/4" x 7/8"
4 1/2	5.03		
4 3/4	4.90		

4545

Bore (mm)	Weight (kg)	Key Steel	
		Square	Non-Square
2 1/4	14.30	5/8" x 5/8"	5/8" x 7/16"
2 3/8	14.06		
2 1/2	13.80		
2 3/4	13.20	3/4" x 3/4"	3/4" x 1/2"
2 7/8	12.87		
3	12.54		
3 1/8	8.75	7/8" x 7/8"	7/8" x 5/8"
3 1/4	11.83		
3 3/8	11.46		
3 1/2	11.07		
3 3/4	10.25	1" x 1"	1" x 3/4"
4	9.37		
4 1/4	8.43	1 1/4" x 1 1/4"	1 1/4" x 7/8"
4 1/2	7.43		

5040

Bore (mm)	Weight (kg)	Key Steel	
		Square	Non-Square
2 3/4	15.12	3/4" x 3/4"	3/4" x 1/2"
2 7/8	12.50		
3	14.54		
3 1/8	14.10	7/8" x 7/8"	7/8" x 5/8"
3 1/4	13.90		
3 3/8	13.57		
3 1/2	13.22		
3 3/4	12.49	1" x 1"	1" x 3/4"
4	11.70		
4 1/4	10.87	1 1/4" x 7/8"	1 1/4" x 7/8"
4 1/2	10.40		
4 3/4	10.00		
5	9.90		

Bush Series - Imperial

5050

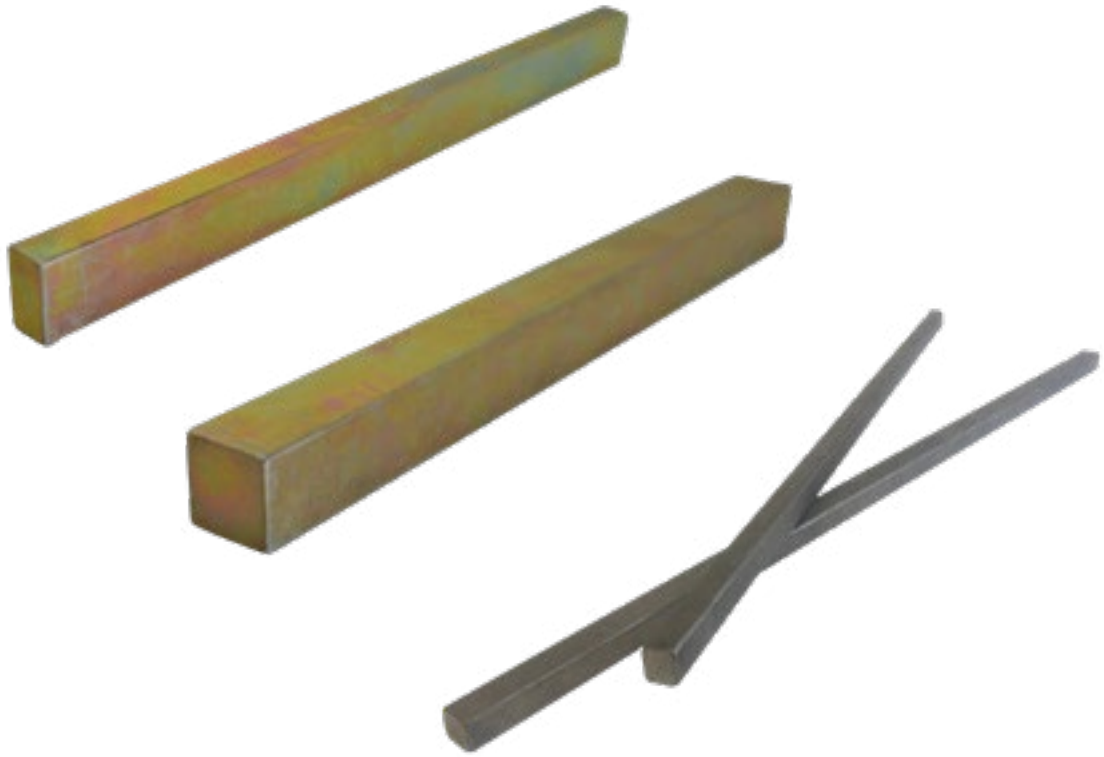
Bore (mm)	Weight (kg)	Key Steel	
		Square	Non-Square
2 3/4	15.12	3/4" x 3/4"	3/4" x 1/2"
2 7/8	12.50		
3	17.80		
3 1/8	14.10	7/8" x 7/8"	7/8" x 5/8"
3 1/4	16.93		
3 1/2	15.99		
3 3/4	15.16	1" x 1"	1" x 3/4"
4	14.18		
4 1/4	13.13	1 1/4" x 7/8"	1 1/4" x 7/8"
4 1/2	12.03		
4 3/4	10.86		
5	9.03		

Key Steel

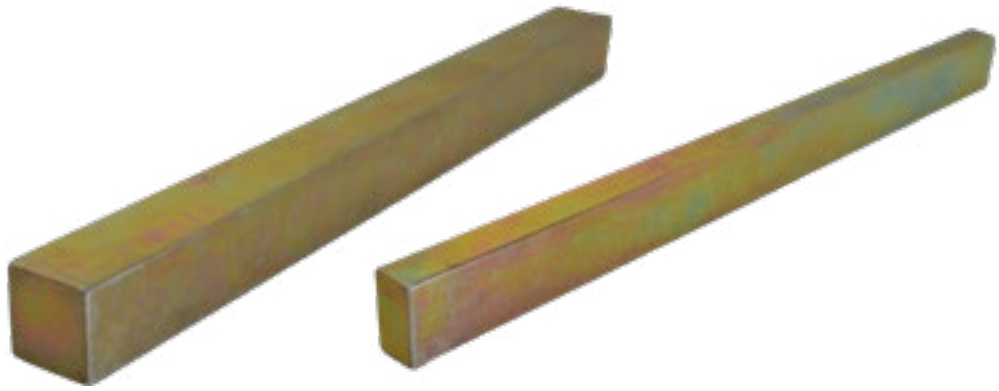
Also known as Key bars or key stock, these are used to locate and drive a number of products such as couplings, pulleys, drums or propellers from drive shafts. It serves as the key that prevents relative rotation between the shaft and the component, transferring torque and maintaining alignment.

Our Range

- Zinc-Coated
- Stainless Steel



Zinc Coated



Metric				
Product Code	Size	To suit shafts between		App. kg
		Min	Max	
KS-3-3MM-Z	3 x 3mm	-	-	0.03
KS-4-4MM-Z	4 x 4mm	10	12	0.04
KS-5-5MM-Z	5 x 5mm	12	17	0.06
KS-6-6MM-Z	6 x 6mm	17	22	0.08
KS-6-8MM-Z	6 x 8mm	-	-	0.12
KS-6-10MM-Z	6 x 10mm	-	-	0.14
KS-7-7MM-Z	7 x 7mm	-	-	0.13
KS-7-8MM-Z	7 x 8mm	22	30	0.13
KS-8-8MM-Z	8 x 8mm	-	-	0.15
KS-8-10MM-Z	8 x 10mm	30	38	0.19
KS-8-12MM-Z	8 x 12mm	38	44	0.23
KS-9-14MM-Z	9 x 14mm	44	50	0.3
KS-10-10MM-Z	10 x 10mm	-	-	0.24
KS-10-12MM-Z	10 x 12mm	-	-	0.28
KS-10-16MM-Z	10 x 16mm	50	58	0.38
KS-11-18MM-Z	11 x 18mm	58	65	0.47
KS-12-12MM-Z	12 x 12mm	-	-	0.34
KS-12-20MM-Z	12 x 20mm	65	75	0.57
KS-14-14MM-Z	14 x 14mm	-	-	0.46
KS-14-22MM-Z	14 x 22mm	75	85	0.73
KS-14-25MM-Z	14 x 25mm	85	95	0.82
KS-16-16MM-Z	16 x 16mm	-	-	0.6
KS-16-28MM-Z	16 x 28mm	95	110	1.06
KS-18-18MM-Z	18 x 18mm	-	-	0.76
KS-18-32MM-Z	18 x 32mm	110	130	1.36
KS-20-20MM-Z	20 x 20mm	-	-	0.94
KS-20-36MM-Z	20 x 36mm	130	150	1.7
KS-22-22MM-Z	22 x 22mm	-	-	1.14
KS-22-40MM-Z	22 x 40mm	150	170	2.07
KS-25-25MM-Z	25 x 25mm	-	-	1.5

Imperial				
Product Code	Size	To suit shafts between		App. kg
		Min	Ma	
KS-18-18-Z	1/8 x 1/8	1/4	1/2	0.02
KS-18-14-Z	1/8 x 1/4	-	-	0.05
KS-18-316-Z	1/8 x 3/16	-	-	0.04
KS-532-532-Z	5/32 x 5/32	-	-	0.04
KS-316-316-Z	3/16 x 3/16	1/2	3/4	0.05
KS-316-14-Z	3/16 x 1/4	-	-	0.07
KS-14-14-Z	1/4 x 1/4	3/4	1	0.1
KS-14-516-Z	1/4 x 5/16	-	-	0.12
KS-14-12-Z	1/4 x 1/2	-	-	0.19
KS-14-38-Z	1/4 x 3/8	1 1/4	1 1/2	0.14
KS-516-516-Z	5/16 x 5/16	1	1 1/4	0.15
KS-516-38-Z	5/16 x 3/8	-	-	0.18
KS-516-716-Z	5/16 x 7/16	1 1/2	1 3/4	0.21
KS-516-12-Z	5/16 x 1/2	1 3/4	2	0.24
KS-38-38-Z	3/8 x 3/8	1 1/4	1 1/2	0.22
KS-38-12-Z	3/8 x 1/2	-	-	0.29
KS-38-716-Z	3/8 x 7/16	-	-	0.3
KS-716-716-Z	7/16 x 7/16	1 1/2	1 3/4	0.3
KS-716-12-Z	7/16 x 1/2	-	-	0.34
KS-716-58-Z	7/16 x 5/8	2	2 1/2	0.42
KS-12-12-Z	1/2 x 1/2	1 3/4	2	0.39
KS-12-58-Z	1/2 x 5/8	-	-	0.48
KS-12-34-Z	1/2 x 3/4	-	-	0.58
KS-916-58-Z	9/16 x 5/8	-	-	0.55
KS-916-916-Z	9/16 x 9/16	2	2 1/4	0.49
KS-58-58-Z	5/8 x 5/8	2	2 1/2	0.6
KS-58-34-Z	5/8 x 3/4	2 1/2	3	0.72
KS-58-78-Z	5/8 x 7/8	3	3 1/2	0.84
KS-34-34-Z	3/4 x 3/4	2 1/2	3	0.87
KS-34-1-Z	3/4 x 1	3 1/2	4	1.16
KS-78-78-Z	7/8 x 7/8	3	3 1/2	1.18
KS-78-114-Z	7/8 x 1 1/4	4	5	1.69
KS-1-1-Z	1 x 1	-	-	1
KS-118-118-Z	1 1/8 x 1 1/8	4	4 1/2	1.95
KS-1-112-Z	1 x 1 1/2	5	6	2.32
KS-114-114-Z	1 1/4 x 1 1/4	4	5	2.41
KS-112-112-Z	1 1/2 x 1 1/2	5	6	3.47
KS-134-134-Z	1 3/4 x 1 3/4	6 1/2	7	4.73
KS-2-2-Z	2 x 2	-	-	6.17

Stainless Steel

Metric				
Product Code	Size	To suit shafts between		App. kg
		Min	Max	
KS-3-3MM-SS	3 x 3mm	-	-	0.02
KS-4-4MM-SS	4 x 4mm	10	12	0.04
KS-5-5MM-SS	5 x 5mm	12	17	0.06
KS-6-6MM-SS	6 x 6mm	17	22	0.08
KS-7-8MM-SS	7 x 8mm	22	30	0.12
KS-8-8MM-SS	8 x 8mm	-	-	0.15
KS-8-10MM-SS	8 x 10mm	30	38	0.19
KS-8-12MM-SS	8 x 12mm	38	44	0.23
KS-9-14MM-SS	9 x 14mm	44	50	0.30
KS-10-10MM-SS	10 x 10mm	-	-	0.24
KS-10-16MM-SS	10 x 16mm	50	58	0.38
KS-11-18MM-SS	11 x 18mm	58	65	0.48
KS-12-12MM-SS	12x12mm	-	-	0.35
KS-12-20MM-SS	12x20mm	65	75	0.58
KS-14-14MM-SS	14x14mm	-	-	0.47
KS-16-16MM-SS	16 x16mm	-	-	0.61
KS-20-20MM-SS	20 x 20mm	-	-	0.96

Imperial				
Product Code	Size	To suit shafts between		App. kg
		Min	Ma	
KS-18-18-SS	1/8x1/8	1/4	1/2	0.03
KS-316-316-SS	3/16x3/16	1/2	3/4	0.05
KS-14-14-SS	1/4x1/4	3/4	1	0.10
KS-516-516-SS	5/16x5/16	1	1 1/4	0.15
KS-38-38-SS	3/8x3/8	1 1/4	1 1/2	0.22
KS-716-716-SS	7/16x7/16	1 1/2	1 3/4	0.30
KS-12-12-SS	1/2x1/2	1 3/4	2	0.39
KS-916-916-SS	9/16x9/16	2	2 1/4	0.49
KS-58-58-SS	5/8x5/8	2	2 1/2	0.60
KS-34-34-SS	3/4x3/4	2 1/2	3	0.87
KS-78-78-SS	7/8x7/8	3	3 1/2	1.19
KS-1-1-SS	1x1	-	-	1.55

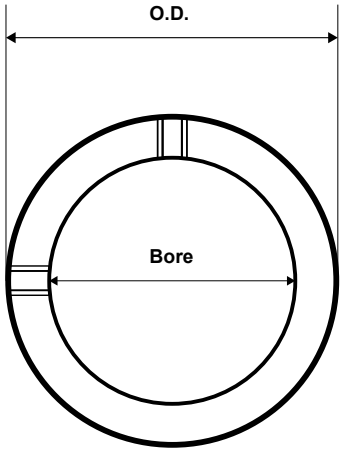
Shaft Collars

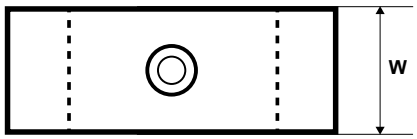
Shaft collars are versatile and can be found in industrial equipment, machinery, and even light-duty applications like coat racks and football tables. They are used to hold bearings and sprockets on shafts, position components in motor assemblies, and serve as mechanical stops

Our Range

- Zinc-Coated
- Stainless Steel
- CL - One Piece Split
- SP - Two Piece Split (Metric & Imperial)

Zinc Plated





Metric

Part No.	Bore	O.D.	W	Screw Size	Weight (kg)
FSC-6	6.0	12.0	8.0	M4*4	0.01
FSC-8	8.0	12.0	8.0	M4*4	0.01
FSC-10	10.0	20.0	10.0	M6*6	0.02
FSC-12	12.0	22.0	12.0	M6*6	0.03
FSC-14	14.0	22.0	12.0	M6*6	0.03
FSC-16	16.0	28.0	12.0	M6*6	0.04
FSC-20	20.0	32.0	14.0	M6*6	0.05
FSC-22	22.0	36.0	14.0	M6*6	0.07
FSC-25	25.0	40.0	16.0	M6*6	0.10
FSC-28	28.0	45.0	16.0	M8*8	0.11
FSC-30	30.0	45.0	16.0	M8*8	0.15
FSC-32	32.0	50.0	16.0	M8*8	0.16
FSC-35	35.0	56.0	16.0	M8*8	0.18
FSC-38	38.0	56.0	16.0	M8*8	0.21
FSC-40	40.0	63.0	18.0	M10*12	0.30
FSC-45	45.0	70.0	18.0	M10*12	0.35
FSC-50	50.0	80.0	18.0	M10*12	0.40

All measurements in mm.

Bore Tolerances	
Bore	Tolerances
All	+0.01mm
	0.05mm

Width Tolerance	
All	+0.08mm
	-0.25mm

Imperial

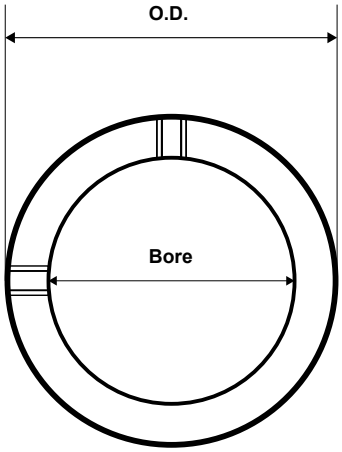
Part No.	Bore	O.D.	W	Screw Size	Weight (kg)
FSC-1/4	0.250	0.500	0.281	M4*4	0.01
FSC-5/16	0.312	0.625	0.308	M4*4	0.01
FSC-3/8	0.375	0.750	0.375	M6*5	0.01
FSC-1/2	0.500	1.000	0.438	M6*5	0.03
FSC-5/8	0.625	1.125	0.500	M6*6	0.04
FSC-3/4	0.750	1.250	0.563	M6*6	0.05
FSC-7/8	0.875	1.500	0.563	M6*6	0.07
FSC-1	1.000	1.625	0.625	M6*6	0.10
FSC-1-1/8	1.125	1.750	0.625	M8*6	0.11
FSC-1-1/4	1.250	2.000	0.688	M8*8	0.16
FSC-1-3/8	1.375	2.125	0.750	M8*8	0.18
FSC-1-7/16	1.437	2.250	0.750	M8*8	0.20
FSC-1-1/2	1.500	2.250	0.750	M8*8	0.21
FSC-1-5/8	1.625	2.500	0.813	M8*8	0.29
FSC-1-3/4	1.750	2.750	0.875	M10*12	0.32
FSC-1-7/8	1.875	2.750	0.875	M10*12	0.35
FSC-2	2.000	3.000	0.875	M10*12	0.45

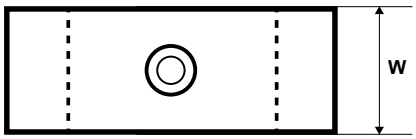
All measurements are in inches.

Bore Tolerances	
Bore	Tolerances
Up to 1"	+0.0005"
	+0.002"
1 1/8" to 2"	+0.0005"
	-0.003"

Width Tolerance	
All	+ 0.003"
	- 0.010"

Stainless Steel





Metric

Part No.	Bore	O.D.	W	Screw Size	Weight (kg)
SSFSC-10	10.0	20.0	10.0	M6*6	0.02
SSFSC-12	12.0	22.0	12.0	M6*6	0.03
SSFSC-16	16.0	28.0	12.0	M6*6	0.04
SSFSC-20	20.0	32.0	14.0	M6*6	0.05
SSFSC-25	25.0	40.0	16.0	M6*6	0.10
SSFSC-30	30.0	45.0	16.0	M8*8	0.15
SSFSC-35	35.0	56.0	16.0	M8*8	0.18
SSFSC-40	40.0	63.0	18.0	M10*12	0.30
SSFSC-45	45.0	70.0	18.0	M10*12	0.35
SSFSC-50	50.0	80.0	18.0	M10*12	0.40

All measurements are in mm.

Imperial

Part No.	Bore	O.D.	W	Screw Size	Weight (kg)
SSFSC-3/8	0.375	0.750	0.375	M6*5	0.01
SSFSC-1/2	0.500	1.000	0.438	M6*5	0.03
SSFSC-5/8	0.625	1.125	0.500	M6*6	0.04
SSFSC-3/4	0.750	1.250	0.563	M6*6	0.05
SSFSC-1	1.000	1.625	0.625	M6*6	0.10
SSFSC-1-1/4	1.250	2.000	0.688	M8*8	0.16
SSFSC-1-1/2	1.500	2.250	0.750	M8*8	0.21
SSFSC-1-3/4	1.750	2.750	0.875	M10*12	0.32
SSFSC-1-7/8	1.875	2.750	0.875	M10*12	0.35
SSFSC-2	2.000	3.000	0.875	M10*12	0.45

All measurements are in inches.

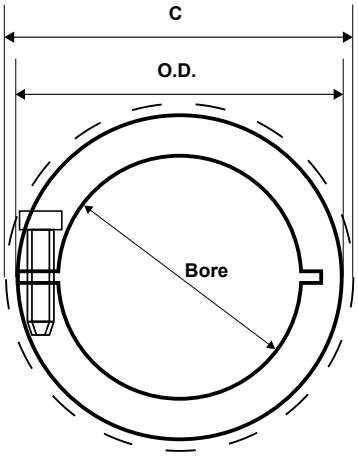
Bore Tolerances	
Bore	Tolerances
All	+0.01mm
	0.05mm

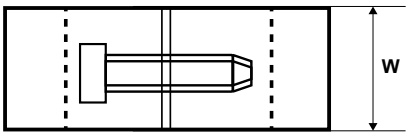
Bore Tolerances	
Bore	Tolerances
Up to 1"	+0.0005"
	+0.002"
1 1/8" to 2"	+0.0005"
	-0.003"

Width Tolerance	
All	+0.08mm
	-0.25mm

Width Tolerance	
All	+ 0.003"
	- 0.010"

CL - One Piece Split (Clamp Type)





Metric

Part No.	Bore	O.D.	C	W
FSC-6-CL	6.0	16.0	20.8	9.0
FSC-8-CL	8.0	18.0	22.4	9.0
FSC-10-CL	10.0	24.0	26.3	9.0
FSC-12-CL	12.0	28.0	32.0	11.0
FSC-14-CL	14.0	30.0	33.7	11.0
FSC-16-CL	16.0	34.0	39.3	13.0
FSC-20-CL	20.0	40.0	47.4	15.0
FSC-22-CL	22.0	42.0	49.5	15.0
FSC-25-CL	25.0	45.0	52.1	15.0
FSC-28-CL	28.0	48.0	54.7	15.0
FSC-30-CL	30.0	54.0	59.2	15.0
FSC-32-CL	32.0	54.0	59.2	15.0
FSC-35-CL	35.0	57.0	62.4	15.0
FSC-38-CL	38.0	60.0	65.6	15.0
FSC-40-CL	40.0	60.0	65.6	15.0
FSC-45-CL	45.0	73.0	80.1	19.0
FSC-50-CL	50.0	78.0	84.7	19.0

All measurements in mm.

Imperial

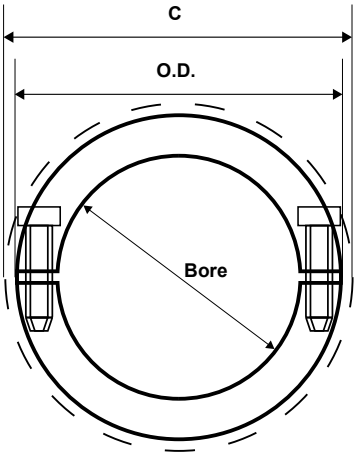
Part No.	Bore	O.D.	C	W
FSC-1/4-CL	0.250	0.625	0.773	0.281
FSC-3/8-CL	0.375	0.875	1.027	0.343
FSC-1/2-CL	0.500	1.125	1.281	0.406
FSC-5/8-CL	0.625	1.313	1.500	0.437
FSC-3/4-CL	0.750	1.500	1.808	0.500
FSC-7/8-CL	0.875	1.625	1.916	0.500
FSC-1-CL	1.000	1.750	2.032	0.500
FSC-1-1/8-CL	1.125	1.875	2.140	0.500
FSC-1-1/4-CL	1.250	2.063	2.295	0.500
FSC-1-3/8-CL	1.375	2.250	2.465	0.563
FSC-1-1/2-CL	1.500	2.375	2.578	0.563
FSC-1-5/8-CL	1.625	2.625	2.935	0.688
FSC-1-3/4-CL	1.750	2.750	3.046	0.688
FSC-1-7/8-CL	1.875	2.875	3.160	0.688
FSC-2-CL	2.000	3.000	3.273	0.688

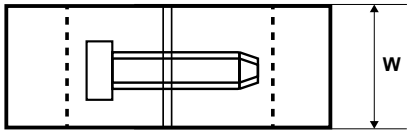
All measurements are in inches.

Width Tolerance	
All	+0.08mm
	-0.25mm

Width Tolerance	
All	+ 0.003"
	- 0.010"

SP - Two Piece Split (Clamp Type)





Metric

Part No.	Bore	O.D.	C	W
FSC-6-SP	6.0	16.0	20.8	9.0
FSC-8-SP	8.0	18.0	22.4	9.0
FSC-10-SP	10.0	24.0	26.3	9.0
FSC-12-SP	12.0	28.0	32.0	11.0
FSC-14-SP	14.0	30.0	33.7	11.0
FSC-16-SP	16.0	34.0	39.3	13.0
FSC-20-SP	20.0	40.0	47.4	15.0
FSC-22-SP	22.0	42.0	49.5	15.0
FSC-25-SP	25.0	45.0	52.1	15.0
FSC-28-SP	28.0	48.0	54.7	15.0
FSC-30-SP	30.0	54.0	59.2	15.0
FSC-32-SP	32.0	54.0	59.2	15.0
FSC-35-SP	35.0	57.0	62.4	15.0
FSC-38-SP	38.0	60.0	65.6	15.0
FSC-40-SP	40.0	60.0	65.6	15.0
FSC-45-SP	45.0	73.0	80.1	19.0
FSC-50-SP	50.0	78.0	84.7	19.0

All measurements are in mm.

Imperial

Part No.	Bore	O.D.	C	W
FSC-1/4-SP	0.250	0.625	0.773	0.281
FSC-3/8-SP	0.375	0.875	1.027	0.343
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All measurements are in inches.

Width Tolerance	
All	+0.08mm
	-0.25mm

Width Tolerance	
All	+ 0.003"
	- 0.010"

CAPT Units

CAPT units (Clamping and Anti-Pullout Tapered) use a tapered bushing or sleeve that clamps the shaft and the hub together. The taper ensures a tight, interference fit and often includes anti-pullout features that prevent axial movement, making it suitable for heavy loads.

Our range

- B-CAPT Lock
- D-CAPT Lock
- FA2-CAPT Lock

B - CAPT Locks

B CAPT-Locks are the commonly used type. The machining precision of the connect parts can be reduced if this type is used which in turn reduces the machining cost.

Using B type provides easy on and easy off capabilities, has excellent installation and can be self installed. The connection function depends on its impacted power and frictional power among the bore and the shaft to achieve non-clearance joint and no key is necessary so that some over elaborate work such as key machining, pressing installation and hot installation, etc can be avoided. The working efficiency and the lifetime of the machining parts can be raised.

Nomenclature

CL 60 X 90 B

- CL — enterprise code CAPT-Lock
- 60 — bore diameter d
- X — outer diameter D
- 90 — CAPT-Lock Type B
- B

Key elements for designing and calculation

1. Determine max torque and max axial load

$$Mmax = \frac{30000H}{\pi n} . K \text{ (Nm)}$$

$$Fmax = F K$$

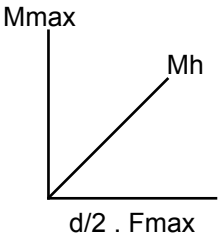
H - Transmission power KW
n - rotational speed r/min
K - coefficient needed
Used coefficient sheet for K

Sheet for coefficient used K

No shock load, transmitting with little inertia	1.5 - 2.5
Slight shock load, transmitting with middle inertia	2.0 - 4.0
Big shock load, transmitting with heavy inertia	3.0 - 5.0

2. Calculate synthetic load and transmitted torque

$$Mh = \sqrt{M_{max}{}^2 + (d/2 \times F_{max})^2}$$



Mmax - Required transmit torque Nm
Fmax - Required transmit axial force N
Mh - synthetic transmit torque Nm
d - Transmission shaft diameter mm
Mt - CAPT Lock rate transmitted torque Nm

Mt ≥ Mh can be used.
Mt < Mh need bigger type of CAPT Lock or to be install by two CAPT Locks or more together.

3. Calculation for the hub diameter

$$Da \geq D \frac{Õb + Ka . Ph}{Õb - Ka . Ph}$$

Da - outside diameter of hub mm
D - inside diameter of hub mm
Ph - surface pressures on hub Mpa
Õb - tensile strength of material
Ka - It should be 0.6 for single CAPT Lock, it will be 0.8 when two CAPT Locks or more are installed together.

4. Calculation for the inside diameter of cannon

$$dB \leq d \sqrt{\frac{Õb - 2xPs . K3}{Õb}}$$

dB - inside diameter of cannon mm
d - outside diameter of cannon mm
6b - tensile strength of shaft material Mpa
Ps - pressure on the surface of shaft Mpa
K3 - coefficient=0.6

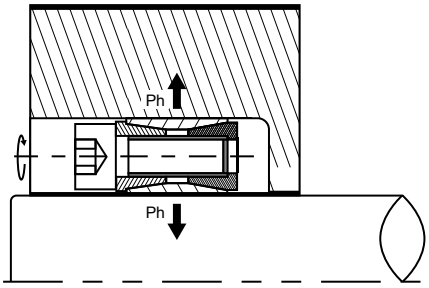
5. Settlement for the surface roughness and dimension tolerance

Fitting section	Ra (um) Surface roughness	Dimension precision
Shaft diameter d	1.6	h8-H9
Shaft diameter D	1.6	H8-H9

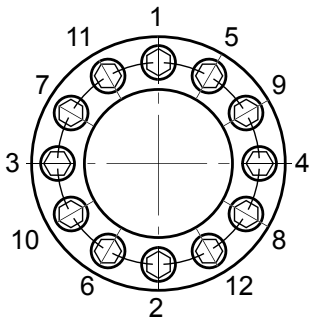
6. Installation for CAPT-Locks

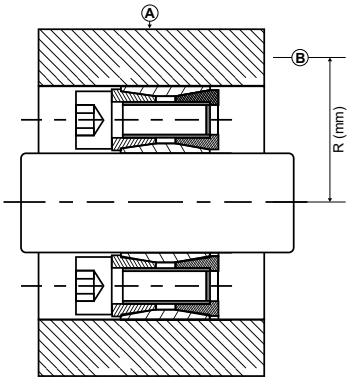
Cleaning the CAPT-Locks, then install it into corresponding position of hub and shaft (Ref Drawing A). Then acc. to the order in Drawing B. Tighten the bolts in turn, the bolts should be tightened step by step in 3 to 4 times up to specified rated torque. After correct installation, CAPT-Locks should be inspected radial and axial as per A ≤ 0.05mm, B ≤ 0.002Rmm.

A.

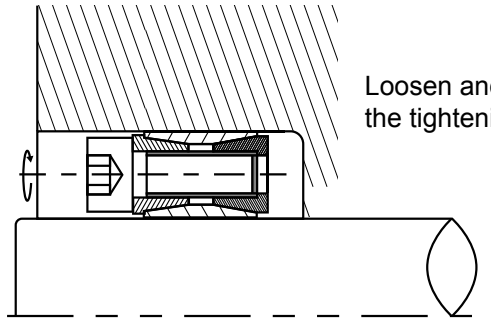


B.

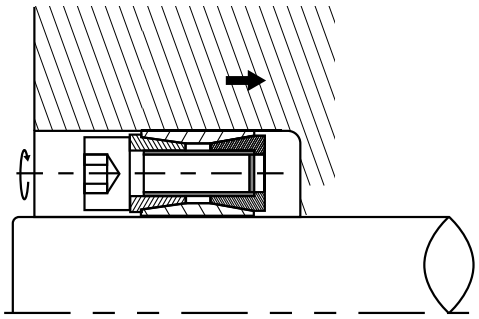




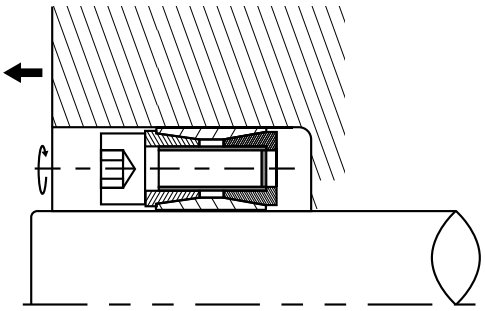
7. Disassembling CAPT-Locks



Loosen and remove the tightening bolts

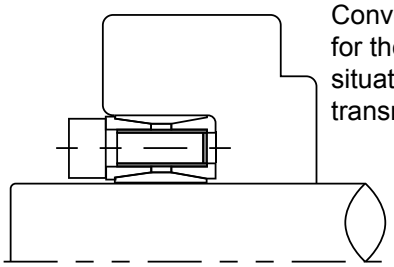


Put bolts into the corresponding threaded jack holes, turning the bolts clockwise, loosen the inner taper rings.



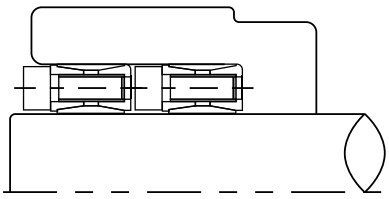
Pull out the bolts with strength, loosen and remove outer taper rings.

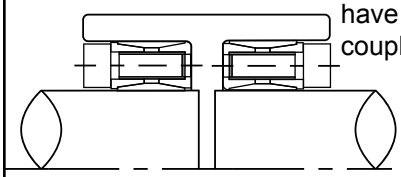
As for disassembling, loosen and remove all the tightening bolts first, then place the unloading bolts in the corresponding unloading tap holes (i.e. tap holes with bolts, zinc plated), and tighten them in turn, taper rings on both sides of the CAPT-Lock can be gradually separated. By doing so, the inner and outer rings will counter spring out from the bore of the hub and surface of the shaft. Then the CAPT-Lock can be disassembled.



Conventional installation, for the usage of ordinary situation and general power transmission.

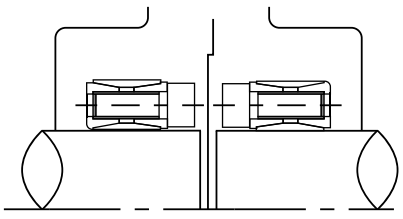
Used in pairs, for the usage of greater power transmission

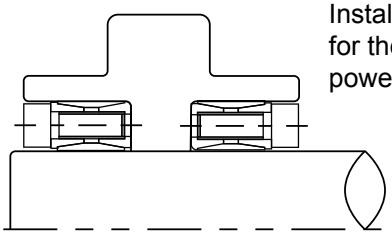




Mounted with shaft sleeves to connect transmission between two shafts. They have the same function with couplings.

Mounted with the couplings to connect transmission between two shafts



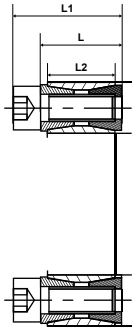


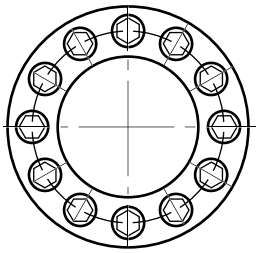
Installed from both sides, for the usage of greater power transmission

While installed with cams, the position and angle of the cams can be adjusted at will

B - CAPT Locks

The CAPT Lock B Series is a premium shaft locking hub offering high torque capacity and keyless installation, reducing machining costs and simplifying setup. Its quick assembly and easy disassembly streamline maintenance, while durable construction ensures reliable performance in demanding industrial applications.





Part No.	Dimensions			Size x N	Rated Load		Ps	Ph	Ma	G
dxD	L2	L	L1		Ft (Kn)	Mt (KNm)	Mpa	Mpa	Nm	Kg
CL19x47B	17	20	26	M6x8	27	0.24	213	90	14	0.25
CL20x47B	17	20	26	M6x8	27	0.27	210	90	14	0.24
CL22x47B	17	20	26	M6x8	27	0.30	195	90	14	0.23
CL25x50B	17	20	26	M6x9	30	0.38	190	95	14	0.25
CL28x55B	17	20	26	M6x10	33	0.47	185	95	14	0.30
CL30x55B	17	20	26	M6x10	33	0.50	175	95	14	0.29
CL35x60B	17	20	26	M6x12	40	0.70	180	105	14	0.32
CL38x63B	17	20	26	M6x14	46	0.88	185	105	14	0.33
CL40x65B	17	20	26	M6x14	46	0.92	180	110	14	0.34
CL42x72B	20	24	32	M8x12	73	1.36	200	117	35	0.48
CL45x75B	20	24	32	M8x12	73	1.62	210	125	35	0.57
CL50x80B	20	24	32	M8x12	83	1.77	190	115	35	0.60
CL55x85B	20	24	32	M8x14	83	2.27	200	130	35	0.63
CL60x90B	20	24	32	M8x14	83	2.47	180	120	35	0.69
CL65x95B	20	24	32	M8x16	93	3.04	190	130	35	0.73
CL70x110B	24	28	38	M10x14	132	4.60	210	130	70	1.26
CL75x115B	24	28	38	M10x14	131	4.90	195	125	70	1.33
CL80x120B	24	28	38	M10x14	131	5.20	180	120	70	1.40
CL85x125B	24	28	38	M10x16	148	6.30	195	130	70	1.49
CL90x130B	24	28	38	M10x16	147	6.60	180	125	70	1.53
CL95x135B	24	28	38	M10x18	167	7.90	195	135	70	1.62
CL100x145B	29	33	45	M12x14	192	9.60	195	135	125	2.01
CL105x150B	29	33	45	M12x14	190	9.98	185	130	125	2.10
CL110x155B	29	33	45	M12x14	191	10.50	180	125	125	2.15
CL120x165B	29	33	45	M12x16	218	13.10	185	135	125	2.35
CL125x170B	29	33	45	M12x18	220	13.78	180	130	125	2.95
CL130x180B	34	38	50	M12x20	272	17.60	165	120	125	3.51
CL140x190B	34	38	50	M12x22	298	20.90	165	125	125	3.85
CL150x200B	34	38	50	M12x24	324	24.20	170	125	125	4.07
CL160x210B	34	38	50	M12x26	350	28.00	170	130	125	4.30
CL170x225B	38	44	58	M14x22	386	32.80	160	120	190	5.78

B - CAPT Locks

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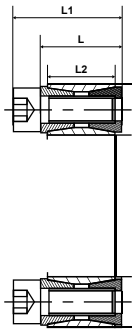
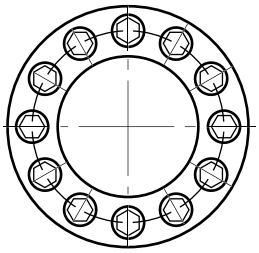




Part No.	Dimensions			Size x N	Rated Load		Ps	Ph	Ma	G
dxD	L2	L	L1		Ft (Kn)	Mt (KNm)	Mpa	Mpa	Nm	Kg
CL180x235B	38	44	58	M14x24	420	37.80	165	125	190	6.05
CL190x250B	46	52	66	M14x28	490	46.50	150	115	190	8.25
CL200x260B	46	52	66	M14x30	525	52.50	150	115	190	8.65
CL210x275B	50	56	72	M16x24	599	62.89	151	115	295	10.10
CL220x285B	50	56	72	M16x26	620	68.00	150	115	295	11.22
CL240x305B	50	56	72	M16x30	715	85.50	160	125	295	12.20
CL250x315B	50	56	72	M16x32	768	96.00	162	125	295	12.70
CL260x325B	50	56	72	M16x34	800	104.00	165	130	295	13.20
CL280x355B	60	66	84	M18x32	915	128.00	145	115	405	19.20
CL300x375B	60	66	84	M18x36	1020	153.00	150	120	405	20.50
CL320x405B	72	78	98	M20x36	1310	210.00	150	120	580	29.60
CL340x425B	72	78	98	M20x36	1310	224.00	145	115	580	31.10
CL360x455B	84	90	112	M22x36	1630	294.00	145	115	780	42.20
CL380x475B	84	90	112	M22x36	1620	308.00	135	110	780	44.00
CL400x495B	84	90	112	M22x36	1610	322.00	130	105	780	46.00
CL420x515B	84	90	112	M22x40	1780	374.00	135	110	780	50.00
CL450x555B	96	102	126	M24x40	2050	461.25	124	100	1000	65.00
CL480x585B	96	102	126	M24x42	2160	518.40	124	100	1000	71.00
CL500x605B	96	102	126	M24x44	2240	560.00	123	100	1000	72.60
CL530x640B	96	102	126	M24x45	2330	617.00	121	110	1000	83.60
CL560x670B	96	102	126	M24x48	2440	680.00	120	110	1000	85.00
CL600x710B	96	102	126	M24x50	2580	775.00	118	100	1000	91.00
CL630x740B	96	102	126	M24x52	2680	844.00	117	105	1000	94.00
CL670x780B	96	102	126	M24x56	2820	944.00	116	100	1000	101.0
CL710x820B	96	102	126	M24x60	2970	1054.00	115	100	1000	106.0
CL750x860B	96	102	126	M24x62	3130	1173.00	115	100	1000	112.0
CL800x910B	96	102	126	M24x66	3260	1300.00	112	100	1000	118.0
CL850x960B	96	102	126	M24x70	3500	1487.00	113	100	1000	125.0
CL900x1010B	96	102	126	M24x75	3680	1650.00	112	100	1000	132.0
CL950x1060B	96	102	126	M24x80	3870	1838.00	112	100	1000	139.0
CL1000x1110B	96	102	126	M24x82	4000	2000.00	110	100	1000	146.0

D - CAPT Locks

D CAPT-Locks is a heavier type of the B CAPT-Lock which has the connecting capacity of two or three times that of the B type. The dimension series of the D type is the same as the B type so you can simply use one piece of the D type and reduce costs.

D CAPT-Locks has characteristics of self installation and good concentricity. The guiding taper surface does not need to be machined specially. The central bore of the hub and the surface of the shaft all align which helps in cutting production time and money.

D CAPT-Locks have the characteristics of easy on and easy off, high precision for installation and connection capacity. The connecting function of D CAPT-Locks comes from the friction and pressure between the CAPT-Locks and the shaft and hub. It connects without slot and key . This eliminates the need for machining the keyway, pressing installation, and hot charging. D type can be used with heavy duty and larger torque transmissions.

Nomenclature

CL 60 X 90 D

- D — CAPT-Lock Type D
- 90 — outer diameter D
- 60 — bore diameter d
- CL — enterprise code CAPT-Lock

Key elements for designing and calculation

1. Determine max torque and max axial load

$$Mmax = \frac{30000H}{\pi n} . K \text{ (Nm)}$$

$$Fmax = F K$$

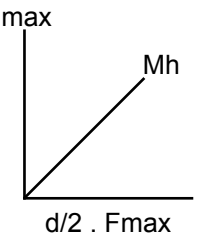
H - Transmission power KW
n - rotational speed r/min
K - coefficient needed
Used coefficient sheet for K

Sheet for coefficient used K

No shock load, transmitting with little inertia	1.5 - 2.5
Slight shock load, transmitting with middle inertia	2.0 - 4.0
Big shock load, transmitting with heavy inertia	3.0 - 5.0

2. Calculate synthetic load and transmitted torque

$$Mh = \sqrt{M_{max}{}^2 + (d/2 \times F_{max})^2}$$



Mmax - Required transmit torque Nm
Fmax - Required transmit axial force N
Mh - synthetic transmit torque Nm
d - Transmission shaft diameter mm
Mt - CAPT Lock rate transmitted torque Nm

Mt ≥ Mh can be used.
Mt < Mh need bigger type of CAPT Lock or to be install by two CAPT Locks or more together.

3. Calculation for the hub diameter

$$Da \geq D \frac{Õb + Ka . Ph}{Õb - Ka . Ph}$$

Da - outside diameter of hub mm
D - inside diameter of hub mm
Ph - surface pressures on hub Mpa
Õb - tensile strength of material
Ka - It should be 0.6 for single CAPT Lock, it will be 0.8 when two CAPT Locks or more are installed together.

4. Calculation for the inside diameter of cannon

$$dB \leq d \sqrt{\frac{Õb - 2xPs . K3}{Õb}}$$

dB - inside diameter of cannon mm
d - outside diameter of cannon mm
6b - tensile strength of shaft material Mpa
Ps - pressure on the surface of shaft Mpa
K3 - coefficient=0.6

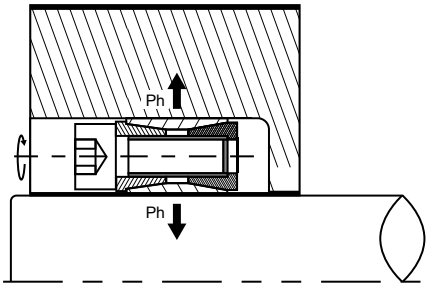
5. Determine the surface roughness and dimension tolerance

Fitting section	Ra (um) Surface roughness	Dimension precision
Shaft diameter d	1.6	h8
Shaft diameter D	1.6	H8

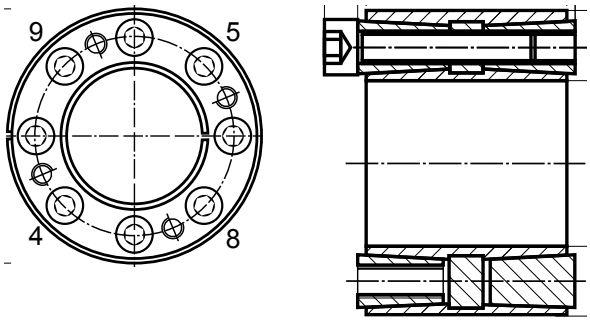
6. Settlement for the surface roughness and dimension tolerance

Cleaning the CAPT-Locks, then install it into corresponding position of hub and shaft (Ref Drawing A). Then acc. to the order in Drawing B. Tighten the bolts in turn, the bolts should be tightened step by step in 3 to 4 times up to specified rated torque. After correct installation, CAPT-Locks should be inspected radial and axial as per A ≤ 0.05mm, B ≤ 0.002Rmm.

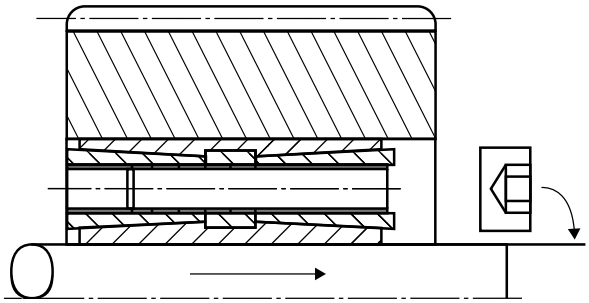
A.



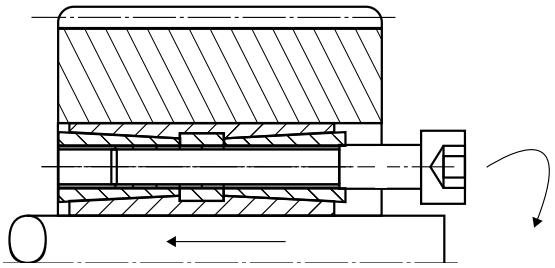
B.



7. Disassembling CAPT-Locks

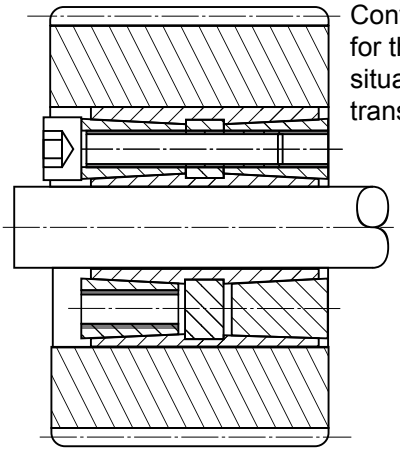


Loosen and remove all the tightening bolts first, then place the unloading tap hole of the tightening taper ring in A side, tightening and pressing in proper order, separate the tightening taper ring in A side with the inside and outside taper bushes step by step.

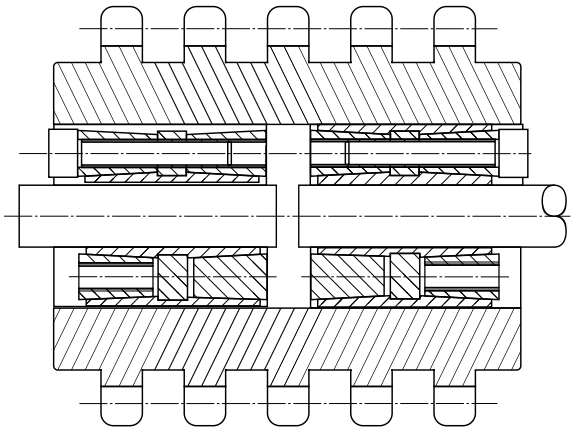


After removing the tight taper ring in A side, place the unloading tap hole in the middle ring, tightening and pres in proper order, separate the tightening taper ting in B side with the inside and outside taper bushes step by step from the other side.

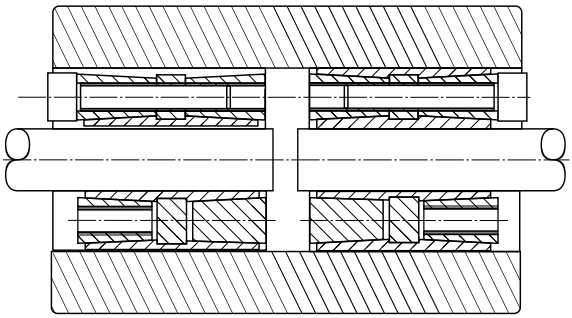
D type CAPT-Locks can be easily disassembled after the above two steps.



Conventional installation, for the usage of ordinary situation and general power transmission.



Used in pairs, for the usage of greater power transmission



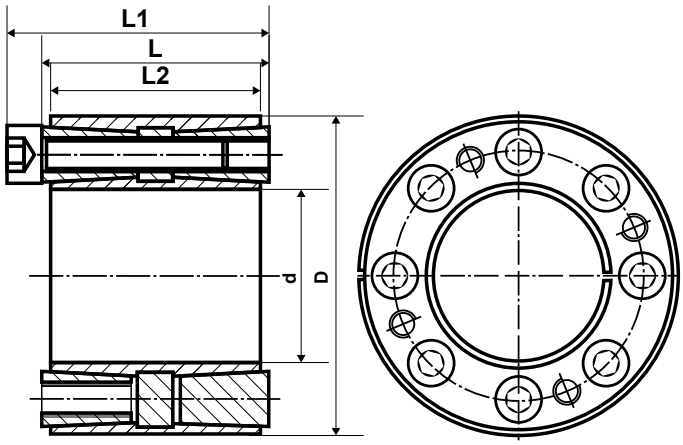
Mounted with shaft sleeves to connect transmission between two shafts.

They have the same function with couplings.

While installed with cams, the position and angle of the cams can be adjusted at will

D - CAPT Locks

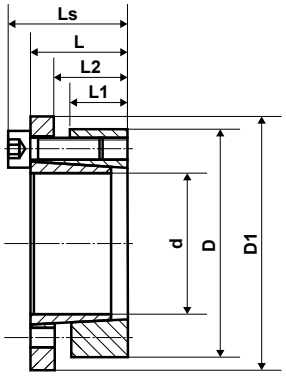
The CAPT Lock D Series is a robust shaft locking hub for high-performance, heavy-duty applications. It eliminates the need for keyways, lowering machining costs, and features self-installation with excellent concentricity, requiring no special machining for the taper surface. With up to three times the torque capacity of the B Series, it's ideal for larger torque transmissions in demanding environments. The dimension series of the D type is the same as the B type so you can simply use one piece of the D type and reduce costs.



Part No.	Dimensions			Size x N	Rated Load		Ps	Ph	Ma	G
dxD	L2	L	L1		Ft (Kn)	Mt (KNm)	Mpa	Mpa	Nm	Kg
CL45x75D	56	64	72	M8x9	160	3.51	179	108	41	1.25
CL48x80D	56	64	72	M8x9	160	3.72	168	101	41	1.41
CL50x80D	56	64	72	M8x9	170	4.3	162	101	41	1.35
CL55x85D	56	64	72	M8x9	170	4.7	147	95	41	1.45
CL60x90D	56	64	72	M8x11	190	5.81	165	110	41	1.55
CL65x95D	56	64	72	M8x11	190	6.10	130	89	41	1.92
CL70x110D	70	78	88	M10x11	330	11.8	179	114	83	3.11
CL75x115D	70	78	88	M10x11	330	12.6	167	109	83	3.28
CL80x120D	70	78	88	M10x12	360	14.7	171	114	83	3.45
CL85x125D	70	78	88	M10x12	360	15.6	161	109	83	3.63
CL90x130D	70	78	88	M10x13	390	17.9	165	114	83	3.8
CL95x135D	70	78	88	M10x13	390	18.9	156	110	83	3.97
CL100x145D	90	100	112	M12x12	467	23.3	181	108	145	6.80
CL110x155D	90	100	112	M12x13	553	30.4	190	110	145	7.50
CL120x165D	90	100	112	M12x15	617	37	195	119	145	8.60
CL130x180D	104	116	130	M14x13	759	49	180	111	230	11.1
CL140x190D	104	116	130	M14x15	845	59	186	121	230	11.8
CL150x200D	104	116	130	M14x16	897	67	185	123	230	12.6
CL160x210D	104	116	130	M14x17	950	76	183	123	230	13.4
CL170x225D	137	146	162	M16x15	1223	104	172	110	355	19.6
CL180x235D	137	146	162	M16x16	1289	116	172	113	355	20.6
CL190x250D	137	146	162	M16x17	1363	130	172	113	355	23.8
CL200x260D	137	146	162	M16x17	1368	136	172	108	355	24.9
CL220x285D	137	146	162	M16x20	1582	174	172	118	355	29.6
CL240x305D	137	146	162	M16x22	1725	207	172	120	355	31.9
CL260x325D	137	146	162	M16x22	1800	225	170	110	355	34.3
CL280x355D	165	177	197	M20x20	2429	340	168	118	690	52.0
CL300x375D	165	177	197	M20x22	2540	381	161	112	690	55.3
CL320x405D	165	177	197	M20x22	2781	431	175	122	690	67.3
CL340x425D	165	177	197	M20x24	2994	509	171	108	690	71.0

FA2 - CAPT Locks

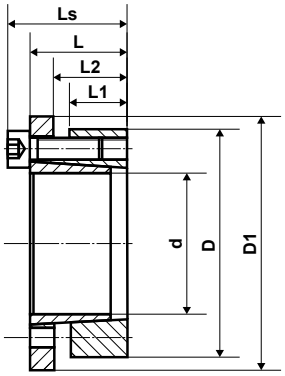
The CAPT Lock FA2 Series offers versatile, keyless shaft locking hubs for reliable torque transmission and axial thrust resistance in industrial applications. Its interference-fit design streamlines installation and reduces machining costs by eliminating keyways.



Part No.	Dimensions					Size x N	Rated Load		Ps	Ph	Ma	G
dxD	L1	L2	L	Ls	D1		Ft (Kn)	Mt (KNm)	Mpa	Mpa	Nm	Kg
CL18x47FA2	17	22	28	34	56	M6x5	28	0.25	241	95	17	0.26
CL19x47FA2	17	22	28	34	56	M6x5	28	0.26	229	95	17	0.27
CL20x47FA2	17	22	28	34	56	M6x5	28	0.28	220	95	17	0.27
CL22x47FA2	17	22	28	34	56	M6x5	28	0.30	200	95	17	0.28
CL24x50FA2	17	22	28	34	59	M6x5	28	0.33	180	90	17	0.29
CL25x50FA2	17	22	28	34	59	M6x6	34	0.42	210	105	17	0.29
CL28x50FA2	17	22	28	34	64	M6x6	34	0.47	190	95	17	0.35
CL30x55FA2	17	22	28	34	64	M6x6	34	0.50	175	95	17	0.40
CL32x60FA2	17	22	28	34	69	M6x8	45	0.72	220	115	17	0.44
CL35x60FA2	17	22	28	34	69	M6x8	45	0.79	200	115	17	0.48
CL38x65FA2	17	22	28	34	74	M6x8	45	0.85	185	105	17	0.48
CL40x65FA2	17	22	28	34	74	M6x8	45	0.90	175	105	17	0.55
CL42x75FA2	20	25	33	41	84	M8x7	73	1.49	225	125	41	0.76
CL45x75FA2	20	25	33	41	84	M8x7	73	1.60	215	125	41	0.80
CL48x80FA2	20	25	33	41	89	M8x7	73	1.71	200	120	41	0.81
CL50x80FA2	20	25	33	41	89	M8x7	73	1.79	195	120	41	0.87
CL55x85FA2	20	25	33	41	94	M8x8	83	2.10	200	130	41	0.96
CL60x90FA2	20	25	33	41	99	M8x8	83	2.32	185	125	41	1.00
CL63x95FA2	20	25	33	41	104	M8x9	94	2.51	188	130	41	1.06
CL65x95FA2	20	25	33	41	104	M8x9	94	2.98	190	130	41	1.70
CL70x110FA2	24	30	40	50	119	M10x8	133	4.63	210	135	83	1.79
CL75x115FA2	24	30	40	50	124	M10x8	133	5.00	195	125	83	1.95
CL80x120FA2	24	30	40	50	129	M10x8	133	5.30	185	125	83	1.98
CL85x125FA2	24	30	40	50	134	M10x9	148	6.30	195	135	83	2.20

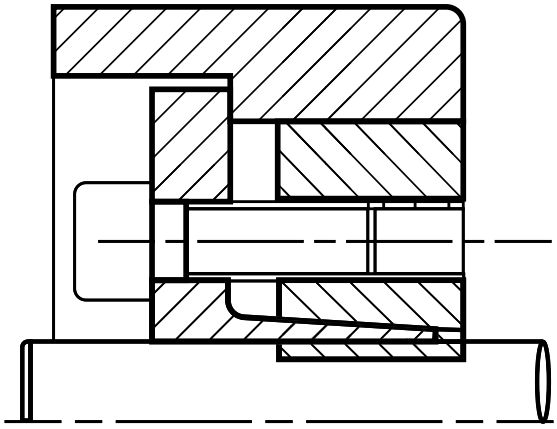
FA2 - CAPT Locks

The CAPT Lock FA2 Series offers versatile, keyless shaft locking hubs for reliable torque transmission and axial thrust resistance in industrial applications. Its interference-fit design streamlines installation and reduces machining costs by eliminating keyways.

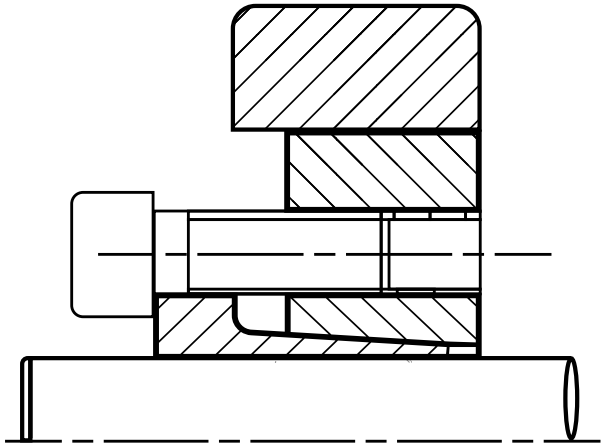


Part No.	Dimensions					Size x N	Rated Load		Ps	Ph	Ma	G
dxD	L1	L2	L	Ls	D1		Ft (Kn)	Mt (KNm)	Mpa	Mpa	Nm	Kg
CL90x130FA2	24	30	40	50	139	M10x9	148	6.75	185	130	83	2.28
CL95x135FA2	24	30	40	50	144	M10x10	166	7.90	195	135	83	3.20
CL100x145FA2	26	32	44	56	154	M12x8	194	9.70	200	140	145	3.40
CL110x155FA2	26	32	44	56	164	M12x9	194	10.6	180	130	145	3.65
CL120x165FA2	26	32	44	56	174	M12x12	216	13.0	185	135	145	5.25
CL130x180FA2	34	40	54	68	189	M12x12	290	18.9	175	125	145	5.63
CL140x190FA2	34	40	54	68	199	M14x9	290	20.5	165	120	230	5.95
CL150x200FA2	34	40	54	68	209	M14x10	333	24.5	175	130	230	6.89
CL160x210FA2	34	40	54	68	219	M14x11	362	28.9	180	135	230	7.85
CL170x225FA2	44	50	64	78	234	M14x12	400	33.2	140	105	230	8.32
CL180x235FA2	44	50	64	78	244	M14x12	400	35.6	135	105	230	9.12
CL190x250FA2	44	50	64	78	259	M14x15	500	46.5	160	120	230	9.58
CL200x260FA2	44	50	64	78	269	M14x15	500	48.3	150	115	230	11.7
CL220x285FA2	50	56	72	88	294	M16x12	578	58.0	145	110	355	15.9
CL240x305FA2	50	56	72	88	314	M16x15	725	79.0	165	130	355	16.5
CL260x325FA2	50	56	72	88	334	M16x18	830	102	180	145	355	17.7
CL280x355FA2	60	66	84	102	364	M18x16	925	118	150	120	485	24.0
CL300x375FA2	60	66	84	102	384	M18x18	1050	142	160	125	485	25.5
CL320x405FA2	74	81	101	121	414	M20x18	1365	198	150	120	690	38.0
CL340x425FA2	74	81	101	121	434	M20x21	1590	230	175	135	690	40.0
CL360x455FA2	86	94	116	138	464	M22x18	1675	256	140	110	930	48.0
CL380x475FA2	86	94	116	138	484	M22x21	1980	310	155	125	930	57.0
CL400x495FA2	86	94	116	138	504	M22x21	1980	352	150	120	930	63.0

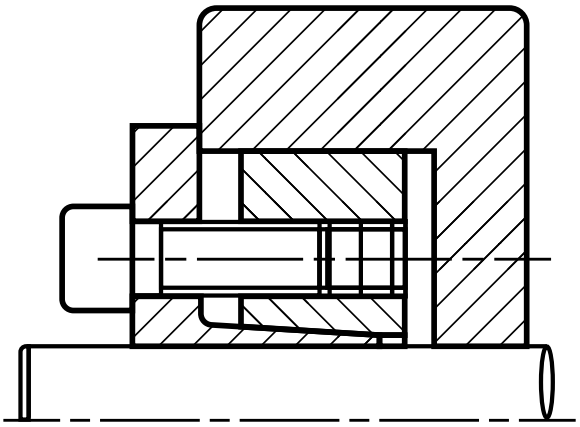
FA2 - CAPT Locks



Installed with through bored hubs, in the form of step bored. It can be positioned in axial direction. The outer ring moves in axial during usage, thus inner ring and hub bore will be tightened.



Positioned with hub end and then fix the position in axial direction. The outer ring moves in axial direction during usage, thus inner ring and hub bore will be tightened.



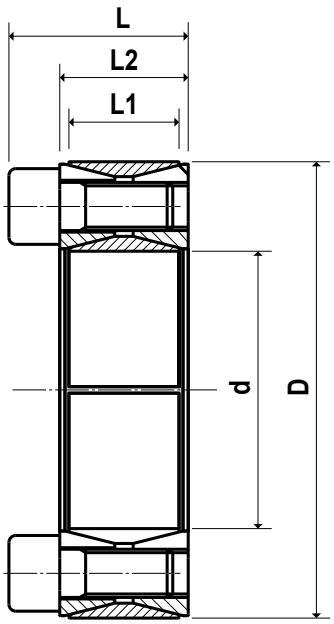
Installed with non-through bored hub, and positioned with hub end. The outer ring moves in axial direction during usage, thus inner ring and bore of hub will be tightened.

Locking Assemblies

Also known as self locking units, Locking Assemblies provide reliable, high-strength keyless connections by converting locking screw clamp loads into radial contact pressures applied simultaneously to both the shaft and the bore of the mounted component. The resulting zero-backlash mechanical interference fit will accommodate high torque, thrust, bending and/or radial loads, and unlike other mounting technologies will never wear or pound out, even for high cycle fluctuating or reversing loads.

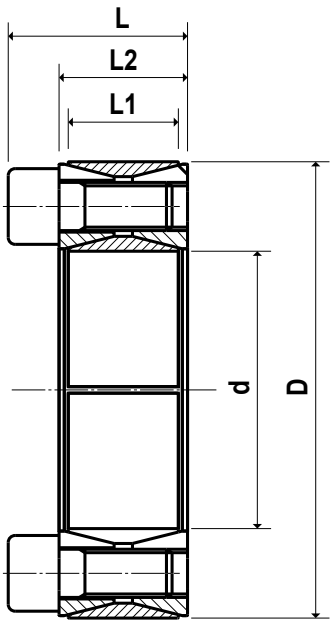
When the Locking Units bolts are tightened plates engage with both the shaft and the inside circumference of the driven component. The locking assembly distributes the applied pressure evenly. No keyways or grubscrews are required with these devices.

Type-01



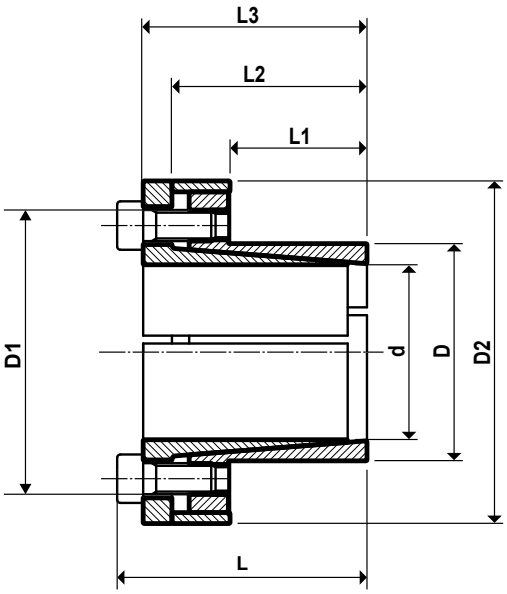
Dimensions					Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	L1	L2	L	Transmissible Axial Force KN	Transmissible Torque Nm	Shaft Surface Pressure N/mm²	Hub Surface Pressure N/mm²	No.	Size	Screws Tightening Torque Nm
20	47	17	20	26	31	313	272	116	8	M6x18	14.9
25	50	17	20	26	35	441	245	123	9	M6x18	14.9
30	55	17	20	26	39	588	227	124	10	M6x18	14.9
35	60	17	20	26	47	822	233	136	12	M6x18	14.9
38	65	17	20	26	55	1042	250	146	14	M6x18	14.9
40	65	17	20	26	55	1097	238	146	14	M6x18	14.9
45	75	20	24	32	83	1864	271	163	12	M8x22	35
48	80	20	24	32	83	1988	254	153	12	M8x22	35
50	80	20	24	32	83	2071	244	153	12	M8x22	35
55	85	20	24	32	97	2658	259	168	14	M8x22	35
60	90	20	24	32	97	2900	238	158	14	M8x22	35
65	95	20	24	32	110	3587	250	171	16	M8x22	35

Type-01



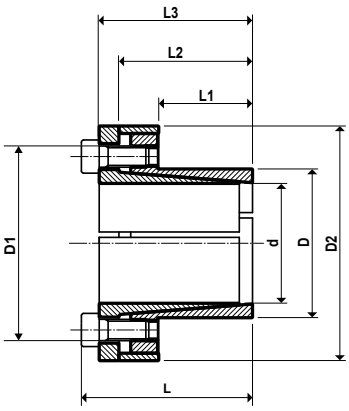
Dimensions					Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	L1	L2	L	Transmissible Axial Force KN	Transmissible Torque Nm	Shaft Surface Pressure N/mm²	Hub Surface Pressure N/mm²	No.	Size	Screws Tightening Torque Nm
70	110	24	28	38	153	5345	268	171	14	M10x25	69
75	115	24	28	38	153	5727	250	163	14	M10x25	69
80	120	24	28	38	153	6108	235	156	14	M10x25	69
85	125	24	28	38	175	7417	252	172	16	M10x25	69
90	130	24	28	38	175	7854	238	165	16	M10x25	69
95	135	24	28	38	196	9326	254	179	18	M10x25	69
100	145	26	33	45	227	11362	258	178	14	M12x30	123.3
110	155	26	33	45	227	12498	234	166	14	M12x30	123.3
120	165	26	33	45	260	15578	245	178	16	M12x30	123.3
130	180	34	38	50	325	21095	217	156	20	M12x35	123.3
140	190	34	38	50	357	24993	221	163	22	M12x35	123.3
150	200	34	38	50	390	29217	225	169	24	M12x35	123.3
160	210	34	38	50	422	33756	229	174	26	M12x35	123.3
170	225	38	44	58	465	39483	212	160	22	M14x40	187
180	235	38	44	58	507	45606	218	167	24	M14x40	187
190	250	46	52	66	591	56163	199	152	28	M14x45	187
200	260	46	52	66	633	63342	203	156	30	M14x45	187
210	275	OA	OA	OA	OA	OA	OA	OA	OA	OA	OA
220	285	50	56	72	745	81960	200	154	26	M16X50	290
240	305	50	56	72	860	103162	211	166	30	M16X50	290
250	315	OA	OA	OA	OA	OA	OA	OA	OA	OA	OA
260	325	50	56	72	974	126669	221	177	34	M16X50	290
320	405	72	78	98	1651	264108	211	167	36	M20X70	580

Type-02



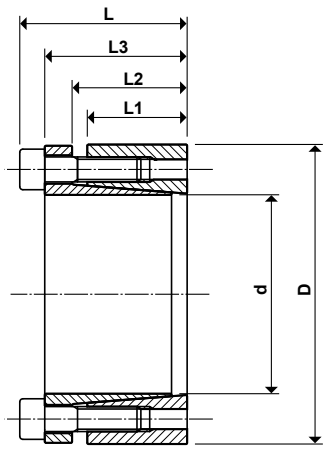
Dimensions								Passing Axis Pressure	Passing Torque	Contracting Pressure		Locking Screw - DIN912-12.9		
										Axis	Hub	Quality	Size	Locking Torque
d	D	L1	L2	L3	L	D2	D1	Ft KN	Mt Nm	P N/mm²	P1 N/ mm²			Ts Nm
8	15	12	21	24	28	28	25	10	39	299	159	4	M4x10	5.2
9	16	14	23	27	31	32	28	10	44	227	128	4	M4x12	5.2
10	16	14	23	27	31	32	28	10	49	205	128	4	M4x12	5.2
11	18	14	23	27	31	34	30	10	53	186	114	4	M4x12	5.2
12	18	14	23	27	31	34	30	10	58	171	114	4	M4x12	5.2
13	23	14	26	27	31	38		10	63	144	81	4	M4x12	5.2
14	23	14	23	27	31	39	35	10	68	146	89	4	M4x12	5.2
15	24	16	29	36	42	45	40	16	120	196	123	3	M4x18	17
16	24	16	29	36	42	45	40	16	128	184	123	3	M4x18	17
17	26	18	31	38	44	45		21	190	197	129	4	M4x18	17
18	26	18	31	38	44	47	42	21	191	194	134	4	M4x18	17
19	27	18	31	38	44	48	43	21	202	183	129	4	M4x18	17
20	28	18	31	38	44	49	44	21	213	174	124	4	M4x18	17
22	32	25	38	45	51	54	48	21	234	114	78	4	M4x18	17

Type-02



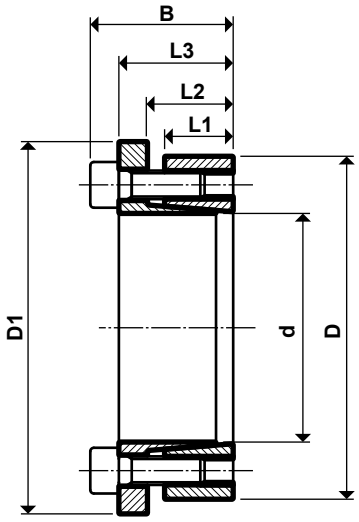
Dimensions								Passing Axis Pressure	Passing Torque	Contracting Pressure		Locking Screw - DIN912-12.9		
										Axis	Hub			Locking Torque
d	D	L1	L2	L3	L	D2	D1	Ft KN	Mt Nm	P N/mm²	P1 N/mm²	Quality	Size	Ts Nm
24	34	25	38	45	51	56	50	21	255	105	74	4	M4x18	17
25	34	25	38	45	51	56	50	21	266	100	74	4	M4x18	17
28	39	25	38	45	51	61	55	27	373	112	81	5	M4x18	17
30	41	25	38	45	51	63	57	32	480	126	92	6	M4x18	17
32	43	30	43	50	56	65	59	32	511	98	73	6	M4x18	17
35	47	30	43	50	56	69	63	43	747	120	89	8	M4x18	17
38	50	30	43	50	56	72	66	43	811	110	84	8	M4x18	17
40	53	32	45	52	58	75	69	48	959	110	83	9	M4x18	17
42	55	32	45	52	58	77	71	48	1007	105	80	9	M4x18	17
45	59	40	56	64	72	85	79	79	1781	130	99	8	M4x22	42
48	62	40	56	64	72	88	82	79	1900	122	94	8	M4x22	42
50	65	50	66	74	82	92	85	99	2473	117	90	10	M4x22	42
55	71	50	66	74	82	98	91	99	2721	106	82	10	M4x22	42
60	77	50	66	74	82	104	97	99	2968	97	76	10	M4x22	42
65	84	50	66	74	82	111	104	99	3215	90	69	10	M4x22	42
70	90	60	80	91	101	122	115	127	4430	89	69	8	M4x25	84
75	95	60	80	91	101	126	119	142	5338	93	74	9	M4x25	84
80	100	65	85	96	106	131	124	190	7595	108	86	12	M4x25	84
85	106	65	85	96	106	137	130	190	8069	101	81	12	M4x25	84
90	112	65	85	96	106	143	136	222	9968	112	90	14	M4x25	84
95	120	65	85	96	106	153	144	222	10522	106	84	14	M4x25	84
100	125	65	89	102	114	162	153	273	13651	124	99	12	M4x30	145
110	140	70	94	107	119	177	168	273	15016	105	82	12	M4x30	145
120	155	90	114	127	139	195	185	364	21844	99	77	16	M4x30	145
130	165	90	114	127	139	205	195	364	23664	92	72	16	M4x30	145
140	175	90	114	127	139	215	205	364	25485	85	68	16	M4x30	145
150	185	90	114	127	139	225	215	364	27305	80	64	16	M4x30	145

Type-04



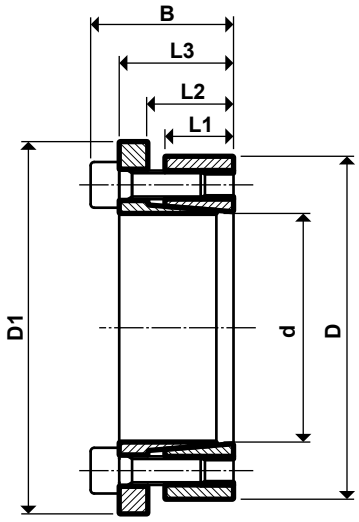
Dimensions						Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	L1	L2	L3	L	Transmissible Axial Force KN	Transmissible Torque Nm	Shaft Surface Pressure N/mm²	Hub Surface Pressure N/mm²	No.	Size	Screws Tightening Torque Nm
19	47	26	31	39	45	332	32	193	78	4	M6x25	17
20	47	26	31	39	45	349	32	183	78	4	M6x25	17
22	47	26	31	39	45	383	32	166	78	4	M6x25	17
24	50	26	31	39	45	629	48	229	110	6	M6x25	17
25	50	26	31	39	45	654	48	220	110	6	M6x25	17
28	55	26	31	39	45	733	48	196	100	6	M6x25	17
30	55	26	31	39	45	785	48	183	100	6	M6x25	17
32	60	26	31	39	45	1116	65	229	122	8	M6x25	17
35	60	26	31	39	45	1220	65	209	122	8	M6x25	17
38	65	26	31	39	45	1325	65	193	113	8	M6x25	17
40	65	26	31	39	45	1395	65	183	113	6	M6x25	17
42	75	30	36	47	47	1982	87	204	115	6	M8x30	41
45	75	30	36	47	47	2123	87	191	115	6	M8x30	41
48	80	30	36	47	47	2265	87	179	107	6	M8x30	41
50	80	30	36	47	47	2359	87	172	107	6	M8x30	41
55	85	30	36	47	47	3458	116	208	135	8	M8x30	41
60	90	30	36	47	47	3772	116	191	127	8	M8x30	41
65	95	30	36	47	47	4087	116	176	120	8	M8x30	41
70	110	40	36	57	67	7136	189	199	127	8	M10x35	83
75	115	40	46	62	72	7645	189	186	121	8	M10x35	83
80	120	40	46	62	72	8155	189	174	116	8	M10x35	83
85	125	40	46	62	72	10831	236	205	139	10	M10x35	83
90	130	40	46	62	72	11469	236	193	134	10	M10x35	83
95	135	40	46	62	72	12106	236	183	129	10	M10x35	83
100	145	46	52	77	89	14837	275	176	121	8	M12x45	145

Type-07



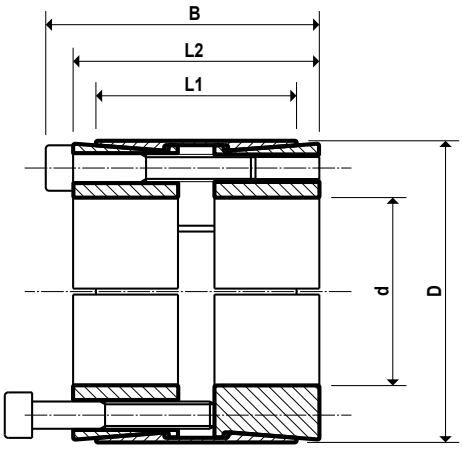
Dimensions							Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	D1	L1	L2	L3	L	Transmissible Axial Force KN	Transmissible Torque Nm	Shaft Surface Pressure N/mm²	Hub Surface Pressure N/mm²	No.	Size	Screws Tightening Torque Nm
20	47	56	17	22	28	34	26	256	222	94	5	M6x20	17
25	50	59	17	22	28	34	31	383	213	106	6	M6x20	17
30	55	64	17	22	28	34	31	460	177	97	6	M6x20	17
35	60	69	17	22	28	34	41	716	203	118	8	M6x20	17
38	65	74	17	22	28	34	41	778	187	109	8	M6x20	17
40	65	74	17	22	28	34	41	819	178	109	8	M6x20	17
45	75	84	20	25	33	41	65	1458	212	127	7	M8x25	41
48	80	87	20	25	33	41	65	OA	200	120	7	M8x25	41
50	80	89	20	25	33	41	65	1620	191	119	7	M8x25	41
55	85	94	20	25	33	41	74	2037	199	129	8	M8x25	41
60	90	99	20	25	33	41	74	2223	182	121	8	M8x25	41
65	95	104	20	25	33	41	83	2710	189	129	9	M8x25	41
70	110	119	24	30	40	50	120	4203	211	134	8	M10x30	83
75	115	124	24	30	40	50	120	4754	197	128	8	M10x30	83

Type-07



Dimensions							Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	D1	L1	L2	L3	L	Transmissible Axial Force KN	Transmissible Torque Nm	Shaft Surface Pressure N/mm²	Hub Surface Pressure N/mm²	No.	Size	Screws Tightening Torque Nm
80	120	129	24	30	40	50	120	4804	184	123	8	M10x30	83
85	125	134	24	30	40	50	135	5742	195	133	9	M10x30	83
90	130	139	24	30	40	50	135	6080	184	128	9	M10x30	83
95	135	144	24	30	40	50	150	7131	194	137	10	M10x30	83
100	145	154	26	32	44	56	175	8732	198	137	8	M12x35	145
110	155	164	26	32	44	56	175	9605	180	128	8	M12x35	145
120	165	174	26	32	44	56	196	11787	186	135	9	M12x35	145
130	180	189	34	40	52	64	262	17024	175	126	12	M12x35	145
140	190	199	34	40	54	68	267	18703	166	122	9	M14x40	230
150	200	209	34	40	54	68	297	22259	172	129	10	M14x40	230
160	210	219	34	40	54	68	326	26119	177	135	11	M14x40	230
170	225	234	44	50	64	78	356	30276	140	106	12	M14x40	230
180	235	244	44	50	64	78	356	32057	133	102	12	M14x40	230
200	260	OA	44	50	64	78	356	OA	OA	OA	OA	M14x40	230

Type-19



Dimensions					Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	L1	L2	L	Transmissible Axial Force KN	Transmissible Torque Nm	Shaft Surface Pressure N/mm²	Hub Surface Pressure N/mm²	No.	Size	Screws Tightening Torque Nm
25	55	46	40	32	802	59	292	100	6	M6x35	17
28	55	46	40	32	899	59	261	100	6	M6x35	17
30	55	46	40	32	962	59	243	100	6	M6x35	17
35	60	60	54	44	1308	69	172	77	7	M6x35	17
38	75	62	54	44	2562	125	285	112	7	M8x45	41
40	75	62	54	44	2697	125	271	112	7	M8x50	41
42	75	62	54	44	2832	125	258	112	7	M8x50	41
45	75	62	54	44	3034	125	241	112	7	M8x50	41
48	80	72	64	56	3701	143	199	94	8	M8x55	41
50	80	72	64	56	3855	143	191	94	8	M8x55	41
55	85	72	64	56	4769	161	196	99	9	M8x55	41
60	90	72	64	56	5780	178	199	104	10	M8x55	41
65	95	72	64	56	6263	178	184	99	10	M8x55	41
70	110	88	78	70	10933	289	28	111	10	M10x60	83
75	115	88	78	70	11714	289	203	106	10	M10x60	83
80	120	88	78	70	13754	318	209	112	11	M10x60	83
85	125	88	78	70	15932	347	215	117	12	M10x60	83
90	130	88	78	70	16870	347	203	112	12	M10x60	83
95	135	88	78	70	17807	347	192	108	12	M10x60	83
100	145	112	100	90	25002	463	195	105	11	M12x80	145

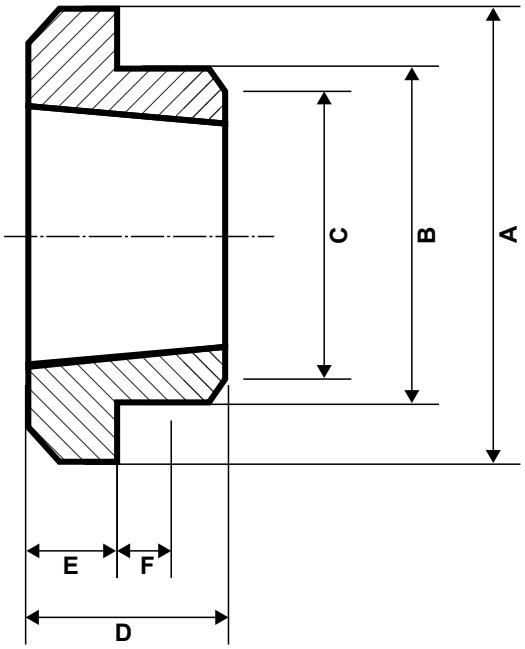
Weld On Hubs

Taper Bore Weld On Hubs are drilled, tapered and bored to receive standard taper bushings. The extended flange provides a convenient means for welding devices, which must be firmly fastened to a shaft.

Our range

- Taper Bored
- Taper Half-Bored

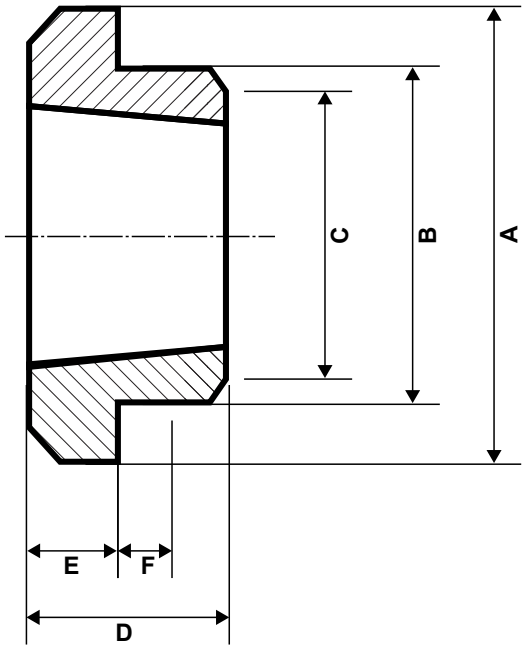
Taper Bored



Part No.	Bush No.	A	B	C	D	E	F
W12	1215	73.03	63.5	62.71	38.1	15.88	9.53
W16	1615	82.55	73.03	72.24	38.1	15.88	9.53
W20	2017	101.6	88.9	88.11	44.45	19.05	14.45
W25	2517	127	111.13	110.34	44.45	19.05	14.45
W30	3030	149.86	133.35	132.56	76.2	25.4	19.05
W35	3535	184	159	158	89	32	25
W40	4040	225	197	196	102	32	32
W45	4545	254	222	221	114	38	38
W50	5050	276	240	240	127	38	38

Part No.	Bush No.	A	B	C	D	E	F
WH12	1210	70	65	64.5	25	9	10
WH16	1610	80	75	74.5	25	9	10
WH20	2012	95	90	89.5	32	12	12
WH25	2517	115	110	109.5	44	19	15
WH30	3020	145	140	139.5	50	20	15
WH35	3525	190	180	179	65	25	25

Taper Half-Bored



Part No.	Bush No.	A	B	C	D	E	F
WH12	1210	70	65	64.5	25	9	10
WH16	1610	80	75	74.5	25	9	10
WH20	2012	95	90	89.5	32	12	12
WH25	2517	115	110	109.5	44	19	15
WH30	3020	145	140	139.5	50	20	15
WH35	3525	190	180	179	65	25	25

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