

Couplings & Shaft Fixings





COUPLINGS

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SHAFT FIXINGS

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Cone Ring Element (Rubber)



Synthetic Rubber & Polyurethane - See Cone Ring Couplings

Curved Tooth Gear Sleeve



Nylon Sleeve - See Curved Tooth Gear Couplings

Curved Jaw (Rotex) Element



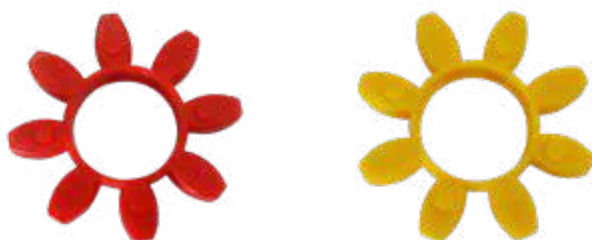
Polyurethane Red 98/Yellow 92 Shore Hardness
See Curved Jaw Couplings

Tyre Element



Synthetic Rubber - See Flexible Tyre Couplings

Curved Jaw (Rotex) Element



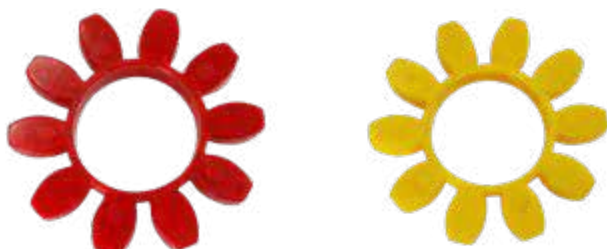
Polyurethane Red 98/Yellow 92 Shore Hardness
See Curved Jaw Couplings

Tyre Element (FRAS Rated)



Fire Resistant Anti Static Synthetic Rubber
See Flexible Tyre Couplings

Curved Jaw (Rotex) Element



Polyurethane Red 98/Yellow 92 Shore Hardness
See Curved Jaw Couplings

Taper Grid



Steel Taper Grid - See KCP Grid Couplings

HRC Element



Nitrile Rubber - See HRC Couplings

Jaw Element (Snap Wrap)



Nitrile Rubber - See Jaw Couplings

NM Coupling Elements



Flexible NM Series Jaw Coupling

HRC Element (PUE)



Polyurethane - See HRC Couplings

Jaw Elements (Snap Wrap Kit)



Nitrile Rubber & Retaining Ring-
See Jaw Couplings

Flexible Pin Element



Flexible Pin Couplings N-Eupex
Type

Jaw Element (Spider)



Nitrile Rubber - Small to suit size 050-070
Large to suit size 075-225 - See Jaw Couplings

Max Dynamic® Element



Omega® Equivalent Polyurethane
Element
See Max Dynamic® Couplings

Max Dynamic® Spacer Element



Omega® Equivalent Polyurethane
Spacer Element
See Max Dynamic® Couplings

Jaw Element (Poly-Spider)



Polyurethane - Small to suit size 050-070
Large to to suit size 075-276- See Jaw Couplings

Hi-Trile Element



Hi Trile - Small to suit size 050-070
Large to to suit size 075-276- See Jaw Couplings

The Finer Chain Coupling consists of two sprockets joined together by standard duplex roller chain. This highly compact structure provides high flexibility between shafts, power transmission capabilities and is durable and robust. Chain Couplings allow for easy maintenance, it is a simple easy on/easy off process.

Finer Power Transmissions Chain Couplings are supplied with covers

standard.



Chain Coupling Ratings

Coupling	Min. Bore	Max. Bore	Max. RPM		Weight Kg	A	B	C	D	E
			Without Cover	With Cover						
C4012	14	22	875	5000	0.73	62	79.4	36	36	7.4
C4016	16	32	875	5000	1.5	77	87.4	51.5	40	7.4
C5016	18	40	800	4000	2.75	96	99.7	64	45	9.7
C5018	18	45	800	4000	3.6	106	99.7	73.5	45	9.7
C6018	22	56	675	3000	6.55	127	123.5	89.5	56	11.5
C6020	-	-	-	-	-	-	-	-	-	-
C6022	28	71	675	3000	10.4	151	123.5	116	56	11.5
C8018	32	80	500	2000	13.2	169	141.2	115	63	15.2
C8020	30	85	500	2000	18.2	211	138	144	67	120
C8022	40	100	500	2000	21.8	202	157.2	142	71	15.2
C10020	45	110	450	1800	32.4	233	178.8	162	80	18.8
C12022	40	150	450	1800	77.0	355	180	220	119	210

For increased safety Chain Coupling covers should be used. The cover not only improves the safety of the work place but also increases the Chain Couplings overall durability.

(2) Space required to loosen bushing with shortened hex key

Coupling Covers	Cover Required when RPM Exceeds	A	B	Weight
C4012	875	77	72	0.3
C4016		92	72	0.35
C5016	800	110	87	0.5
C5018		122	85	0.6
C6018	675	147	105	1.2
C6022		168	117	1.2
C8018	500	190	129	1.9
C8022		226	137	2.7
C10020	450	281	153	4.1

Power Rating Capacity

Coupling No.	Max shaft diam. (mm)	Allowable transmission torque at 50rpm or less (kgf.m)	Coupling speed (rpm)																							
			1	5	10	25	50	100	200	300	400	500	600	800	1000	1200	1500	1800	2000	2500	3000	3600	4000	4800		
4012	22	22.2	0.02	0.11	0.22	0.58	1.15	1.73	2.63	3.46	4.15	4.96	5.67	7.01	8.53	9.68	11.6	13.7	14.8	17.9	20.7	24.1	26.3	30.8		
4016	32	39.4	0.04	0.21	0.41	1.03	2.06	3.09	4.69	6.17	7.41	8.85	10.1	12.5	15.3	17.3	21	24.4	26.3	31.9	37	43	46.9	54.9		
5016	40	75	0.08	0.39	0.78	1.95	3.91	5.86	8.92	11.7	14.1	16.8	19.2	23.8	28.9	32.9	39.9	46.4	50	60.6	70.4	81.6	-	-		
5018	45	95	0.1	0.5	0.99	2.48	4.95	7.43	11.3	14.9	17.8	21.3	24.4	30.1	36.6	41.6	50.5	58.8	63.4	76.8	89.2	-	-	-		
6018	56	179	0.18	0.93	1.87	4.67	9.33	14	21.3	28	33.6	40.1	45.9	56.8	69.1	78.4	95.2	111	120	145	-	-	-	-		
6022	71	242	0.25	1.25	2.51	6.31	12.5	18.8	28.6	37.7	45.3	54.1	61.9	76.5	93.1	105	128	149	161	195	-	-	-	-		
8018	80	396	0.41	2.07	4.14	10.3	20.7	31	47.2	62.1	74.5	89	101	125	153	174	211	246	265	-	-	-	-	-		
8022	100	570	0.59	2.96	5.93	14.8	29.6	44.5	67.2	89	106	127	146	180	219	249	302	352	379	-	-	-	-	-		
10020	110	896	0.93	4.66	9.33	23.3	46.6	70	106	140	168	200	229	283	345	392	476	554	-	-	-	-	-	-		
12022	140	1750	1.81	9.07	18.1	45.3	90.7	136	206	272	326	390	446	551	671	762	-	-	-	-	-	-	-	-		
Lubrication method			A					B			C															

Cone Ring Couplings

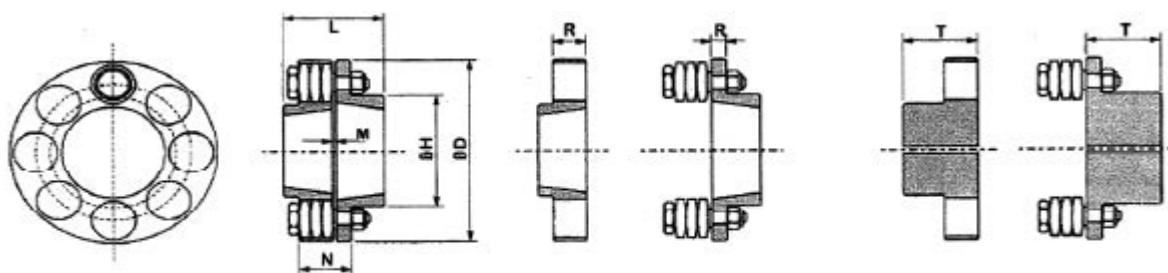
Finer Cone Ring Couplings are based on a time proven design. The coupling consists of two flanges interlocked with a number of elements, depending on the coupling size.

The Cone Ring Coupling's unique flexible element comprises tapered rubber rings mounted on steel pins. The rubber rings absorb commonly encountered misalignment, shock and vibration.

The Cone Ring Coupling is as popular as ever for its ease of maintenance.

No Lubrication is required. The Pin and Rubber design ensures trouble free maintenance, as they can be removed and changed without the need to take the coupling off the shafts.

The flanges are high-grade cast iron; the pins are hexagonal steel bar; and the rings are available in synthetic rubber and polyurethane.



Size	No. of Pins (Rubbers)	Pin/ Rubber Size (D.Brown)	Max.Bore PB/ Bush Size		D	H		L	M	R		T		Kg	
			Pin Half	Bush Half		Pin Half	Bush Half			Pin Half	Bush Half	Pin Half	Bush Half	Pin Half	Bush Half
KX020	6 (18)	¹ (GC 3/4"-3)	28	20	88	35	44	0A	6	12	23	53	33	0A	0A
KX030	4 (12)	² (GC 1"-3)	38	32	127	64	58	85	3	12	26	41		1.8	2.5
KX038	6 (18)	² (GC 1"-3)	42	38	132	72	64	99	3	12	26	48		2.1	2.3
KX042	8 (24)	² (GC 1"-3)	48	42	146	83	78	115	3	12	26	56		3.0	3.2
KXT042			1610	1215				69.5				28.4	38.1	1.8	2.3
KX048	6 (18)	³ (GC 1 3/4"-3)	55	48	171	90	82	90	3	17	33	61		4.9	5.0
KXT048			2012	1615				82				35	38.1	3.6	4.6
KX058	8 (24)	³ (GC 1 3/4"-3)	65	58	193	106	98	139	3	17	33	68		5.1	5.9
KXT058			2517	2012				82.3				47.5	31.8	3.8	5.6
KX070	10 (30)	³ (GC 1 3/4"-3)	75	70	216	128	117	155	3	17	33	76		9.2	9.0
KXT070			3020	2525				121.5				55	63.5	6.1	7.6
KX075	8 (32)	⁴ (GC 2 3/4"-3)	80	75	254	127	127	179	3	30	56	88		16.5	16.9
KX085	10 (40)	⁴ (GC 2 3/4"-3)	105	85	279	166	148	203	3	30	56	100		22.4	21.5
KXT085			3535	3030				172.2				93	76.2	17.1	19.6
KX105	12 (48)	⁴ (GC 2 3/4"-3)	120	85	330	202	180	237	3	30	56	117		36.3	35.0
KXT105			4040	3535				197.5				105.6	88.9	24.5	27.5
KX120	10 (40)	⁵ (GC 4 1/4"-3)	130	120	370	232	206	270	6	46	76	132		56.1	51.0
KXT120			4040	4040				217.2				105.6	105.6	39.5	40.5
KX135	12 (48)	⁵ (GC 4 1/4"-3)	135	135	419	240	230	300	6	46	76	147		70.0	71.0
KXT135			4545	4545				239.6				119.3	114.3	52.8	56.8
KX150	14 (56)	⁵ (GC 4 1/4"-3)	150	150	457	160	256	336	6	46	76	165		88.6	93.0
KXT150			5050	5050				265				132	127	66.8	72.8
KX170	10 (40)	⁶ (GC 6-1/4"-3)	190	170	533	320	292	0A	6	63	92	188		305	0A

NB -Pin coupling halves are supplied complete with pins, nuts and rubbers

REPLACEMENT PARTS ALSO STOCK SEPARATELY: NBR Rubber Rings, Polyurethane Rings, Pin & Nuts, Pin & Nut Assemblies with NBR Rubbers

Size	Power Ratings (Kw @)						Nominal Torque (Nm)
	100 rpm	720 rpm	960 rpm	1440 rpm	2880 rpm	Max .rpm	
020	0.55	3.96	5.28	7.92	15.84	6500	53
030	1.16	8.4	11.1	16.7	33.4	4600	110
038	1.87	13.5	18.0	26.9	53.9	4400	175
042	2.84	20.4	27.3	40.9	81.8	4000	265
048	4.93	35.5	47.3	71.0	142.0	3400	465
058	7.54	54.3	72.4	108.6	217.2	3020	720
070	10.70	77.0	102.7	154.1	-	2700	1020
075	25.7	185.0	246.7	370.1	-	2300	2450
085	35.5	255.6	340.8	511.2	-	2090	3390
105	53	382	509	763	-	1760	5080
120	90	648	864	1296	-	1570	8474
135	122	878	1171	-	-	1390	11520
150	159	1145	1526	-	-	1280	15140
170	246	1771	2362	-	-	1090	23500

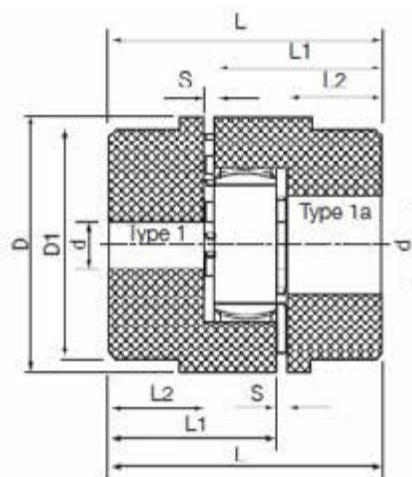
Selection Procedure

1. From the service factors table (below) determine the service factor.
2. Calculate the Design Power by multiplying the Absorbed Power of the driven machine by the Service Factor.
3. Determine the size of coupling required by matching the design power to a power rating that matches or exceeds the Design Power.

The Pin Half is normally mounted on the drive shaft.

Duty	Electric Motors
Uniform	1.0
Light	1.5
Moderate	2.0
Heavy	2.5
Severe	3.0

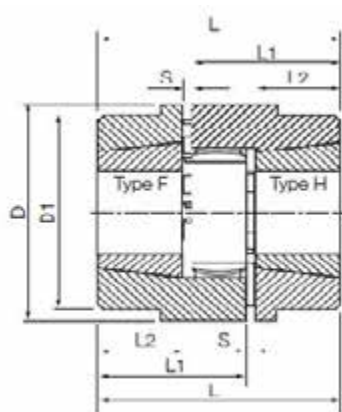
Curved Jaw (Rotex) Couplings



Type	Hub Type	Max Speed RPM	Rated Torque (Nm)		D	D1	d-min	d-max	S	L1	L2	L	Kg
			92 Sh A Yellow	98 Sh A Red									
GE19	1	19000	10	17	40	32	6	19	1	39	25	65	0.19
	1a						19	24					
GE24	1	14000	35	60	56	40	9	24	1	46	30	77	0.38
	1a						22	28					
GE28	1	11800	95	160	65	48	10	28	1.5	52.5	35	89	0.62
	1a						28	38					
GE38	1	9500	190	325	80	66	12	38	1	66	45	112	1.36
	1a						38	45					
GE42	1	8000	265	450	95	75	14	42	1	73	50	124	2.03
	1a						42	55					
GE48	1	7100	310	525	105	85	15	48	1.5	80.5	56	138	2.85
	1a						48	60					
GE55	1	6300	410	685	120	98	20	55	2	91	65	158	4.32
	1a						55	70					
GE65	1	5600	625	940	135	115	22	65	1.5	105.5	75	182	6.66
	1a						22	65					
GE75	1	4750	1280	1920	160	135	30	75	1	120	85	206	10.48
	1a						30	75					
GE90	1	3750	2400	3600	200	160	40	90	1.5	139.5	100	241	17.89
	1a					180	40	90					

Note. Hub Types: 1 = Stepped Hub 1a = Full Hub

Curved Jaw (Rotex) Couplings



Type	Hub Type	Max Speed RPM	Rated Torque		Bush Size	Max Bore	D	D1	S	L1	L2	L	Kg
			92 Sh A Yellow	98 Sh A RED									
GE28	F	11800	95	160	1108	28	65	64	1.5	40.5	23	65	0.46
	H				1108	28							
GE38	F	9500	190	325	1108	28	80	78	1	44	23	68	0.79
	H				1108	28							
GE42	F	8000	265	450	1610	42	95	94	1	49	26	76	1.1
	H				1610	42							
GE48	F	7100	310	525	1615	42	105	104	1.5	63.5	39	104	2.07
	H				1615	42							
GE55	F	6300	410	685	2012	50	120	118	2	59	33	94	2.22
	H				2012	50							
GE65	F	5600	625	940	2012	50	135	133	1.5	63.5	33	98	3.14
	H				2517	65				75.5	45	122	4.03
GE75	F	4750	1280	1920	2517	65	160	135	1	81	46	128	4.69
	H				3020	75				87	52	140	4.99
GE90	F	3750	2400	3600	3020	75	200	160	1.5	91.5	52	145	7.74
	H				3525	100				103.5	64	169	8.74

Power Ratings (KW)

Speed (RPM)	Yellow (92 Shore) Elements									
	Coupling Size									
	19	24	28	38	42	48	55	65	75	90
100	0.1	0.37	1	1.99	2.78	3.25	4.29	6.55	13.4	25.1
500	0.52	1.83	4.98	9.95	13.9	16.2	21.5	32.7	67	126
700	0.73	2.56	6.97	13.9	19.4	22.7	30.1	45.8	93.8	176
720	0.75	2.64	7.16	14.3	20	23.4	30.9	47.1	96.5	181
800	0.84	2.93	7.96	15.9	22.2	26	34.3	52.4	107	201
900	0.94	3.29	8.96	17.9	25	29.2	38.6	58.9	121	226
960	1.01	3.51	9.55	19.1	26.6	31.2	41.2	62.8	129	241
1000	1.05	3.66	9.95	19.9	27.8	32.5	42.9	65.5	134	251
1200	1.26	4.39	11.9	23.9	33.3	39	51.5	78.5	161	302
1400	1.47	5.12	13.9	27.9	38.9	45.4	60.1	91.6	188	352
1440	1.51	5.27	14.3	28.7	40	46.7	61.8	94.2	193	362
1500	1.57	5.49	14.9	29.9	41.6	48.7	64.4	98.2	201	377
1800	1.88	6.59	17.9	35.8	50	58.4	77.3	118	241	452
2000	2.09	7.32	19.9	39.8	55.5	64.9	85.9	131	268	503
2880	3.02	10.5	28.7	57.3	79.9	93.5	124	188	386	724
3000	3.14	11	29.9	59.7	83.3	97.4	129	196	402	754
4000	4.19	14.6	39.8	79.6	111	130	172	262	536	-

Speed (RPM)	Red (98 Shore) Elements									
	Coupling Size									
	19	24	28	38	42	48	55	65	75	90
100	0.018	0.63	1.68	3.4	4.71	5.5	7.17	9.84	20.1	37.7
500	0.89	3.14	8.38	17	23.6	27.5	35.9	49.2	101	189
700	1.25	4.4	11.7	23.8	33	38.5	50.2	68.9	141	264
720	1.28	4.52	12.1	24.5	33.9	39.6	51.6	70.9	145	271
800	1.42	5.02	13.4	27.2	37.7	44	57.4	78.7	161	302
900	1.6	5.65	15.1	30.6	42.4	49.5	64.6	88.6	181	339
960	1.71	6.03	16.1	32.7	45.2	52.8	68.9	94.5	193	362
1000	1.78	6.28	16.8	34	47.1	55	71.7	98.4	201	377
1200	2.14	7.54	20.1	40.8	56.5	66	86.1	118	241	452
1400	2.49	8.79	23.5	47.6	66	77	100	138	281	528
1440	2.56	9.04	24.1	49	67.9	79.2	103	142	290	543
2880	5.2	18.1	48.4	97.9	135.7	158.4	206.5	283.4	578.9	1085.8

Finer stocks a range of pilot bore Curved Tooth Gear Couplings. The Curved Tooth Gear Coupling consists of 2 geared hubs and a curved tooth nylon sleeve.

Product Characteristics:

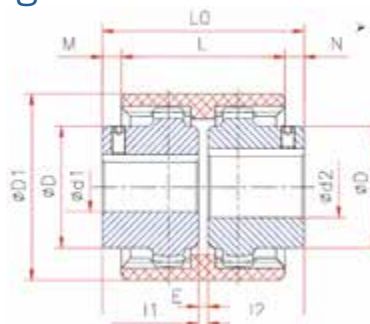
- Double Section type curved-tooth gear coupling
- Widely applicable in various mechanical & hydraulic fields
- Nylon & steel matched, maintenance free
- Able to offset axial, radial & angular misalignments
- Axial plugging assembly, very convenient

Nylon Toothed Sleeve Characteristics:

- Excellent Mechanical Performance
- High rigidity
- High temperature resistance (+100 ° C)
- Not embrittled at low temperature
- Good slippery & frictional behaviour
- Excellent electrical insulation behaviour
- Chemical corrosion endurable
- High Accuracy of processing



RGF Coupling



Size	Max Bore (mm)	Dimensions (mm)							Torque Rating (Nm)	Weight (Kg)	
		I1 I2	LO	L	M, N	E	D1	D		Nylon Sleeve	Hub Half
RGF-19	19	25	54	37	8.5	4	48	30	16	0.03	0.21
RGF-24	24	26	56	41	7.5	4	52	36	20	0.04	0.25
RGF-28	28	40	84	46	19	4	66	28	45	0.07	0.62
RGF-32	32	40	84	48	18	4	76	50	60	0.09	0.83
RGF-38	38	40	84	48	18	4	83	58	80	0.11	1.04
RGF-42	42	42	88	50	19	4	92	65	100	0.14	1.41
RGF-48	48	50	104	50	27	4	95	67	140	0.16	1.43
RGF-55	55	52	108	58	25	4	114	82	240	0.26	2.50
RGF-65	65	55	114	65	23	4	132	95	380	0.39	3.58

Ordering Curved Tooth Gear Couplings:

RGF-XX-1 = Curved tooth gear hub half

RGF-XX-2 = Curved tooth nylon gear sleeve

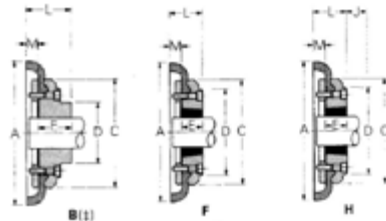
Finer stock a range of the highly flexible Tyre Couplings. Consisting of two flanges, the two halves are joined by a rubber tyre. The tyre itself is torsionally soft and flexible; this allows the Tyre Coupling to compensate for large amounts of shock loading and backlash, as well as both parallel and axial misalignment. Finer also stocks selected sizes in the Fire Resistant Anti-Static (FRAS) compound for those certain sensitive environments.

Highly Flexible

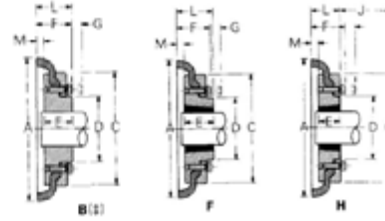
Compensates for misalignment, up to; 4° angular, 6mm parallel, 8mm axial.

Torsional flexibility of up to 12°, at max. torque.

SIZES F40 - 60



SIZES F70 - 250



Size	Power @ 100 rpm in Kw	Nominal Torque	Max. Speed rpm	Bore B		Bush Size		Max. Misalignment		End Float (mm)
				Max.	Min.	Bush F	Bush H	Parallel	Angular	
F40	0.26	25	4500	25	10	1008	1008	1.1	4	1.3
F50	0.69	66	4500	32	11	1210	1210	1.3	4	1.7
F60	1.33	127	4000	42	14	1610	1610	1.6	4	2
F70	2.62	250	3600	50	14	2012	1610	1.9	4	2.3
F80	3.93	375	3100	65	14	2517	2012	2.1	4	2.6
F90	5.24	500	3000	65	16	2517	2517	2.4	4	3
F100	7.07	675	2600	75	16	3020	2517	2.6	4	3.3
F110	9.20	875	2300	75	24	3020	3020	2.9	4	3.7
F120	13.9	1300	2050	100	24	3525	3020	3.2	4	4
F140	24.3	2320	1800	100	35	3525	3525	3.7	4	4.6
F160	39.4	3770	1600	115	40	4030	4030	4.2	4	5.3
F180	65.7	6270	1500	125	55	4535	4535	4.8	4	6
F200	97.6	9325	1300	125	55	4535	4535	5.8	4	6.6
F220	121.0	11600	1100	125	55	5040	5040	5.8	4	7.3

Size	A	C	D	E			F	L			G	J	M	Kg	
				B	F	H		B	F	H				F	H
F40	104	82	-	22	22	22	-	33	33.5	33.5	N/A	29	11	0.8	0.8
F50	133	100	79	32	25	25	-	45	38	38	N/A	38	12.5	1.2	1.2
F60	165	125	103	38	25	25	-	55	42	42	N/A	36	16.5	2.0	2.0
F70	187	144	80	30	32	25	50	47	44	42	13	36	11.5	3.1	3.0
F80	211	167	98	42	45	32	54	55	58	45	16	42	12.5	4.9	4.6
F90	235	188	108	49	45	45	60	63.5	59	59	16	48	13.5	7.0	7.0
F100	254	216	120	56	51	45	62	70.5	65	59	16	48	13.5	9.9	9.4
F110	279	233	134	68	51	51	62	75.5	63.5	63.5	16	55	12.5	11.7	11.7
F120	314	264	140	70	65	51	67	84.5	78.5	65.5	16	67	14.5	16.5	16.9
F140	359	311	178	94	65	65	73	110.5	81	81	14	67	16	22.3	22.3
F160	402	345	197	102	77	77	78	117	92	92	16	80	15	32.5	32.5
F180	470	398	205	114	90	90	94	137	112	112	19	89	23	42.2	42.2
F200	562	474	223	114	20	20	118	138	118	118	20	92	27.5	72.0	72.0
F220	474	223	118	127	20	20	118	154.5	129.5	102	20	92	27.5	72.0	72.0

J is the clearance required for tightening and loosening the bush on the shaft
G is the distance required to release the clamping screws

Power Ratings (KW)

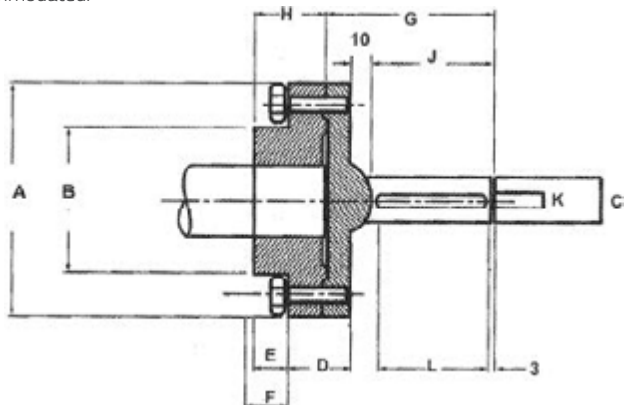
Speed rev/min	Coupling Size													
	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220
100	0.25	0.69	1.33	2.62	3.93	5.24	7.07	9.16	13.9	24.3	39.5	65.7	96.7	121
200	0.5	1.38	2.66	5.24	7.85	10.5	14.1	18.3	27.9	48.7	79	131	195	243
300	0.75	2.07	3.99	7.85	11.8	15.7	21.2	27.5	41.8	73	118	197	293	364
400	1.01	2.76	5.32	10.5	15.7	20.9	28.3	36.6	55.7	97.4	158	263	391	486
500	1.26	3.46	6.65	13.1	19.6	26.2	35.3	45.8	69.6	122	197	328	488	607
600	1.51	4.15	7.98	15.7	23.6	31.4	42.4	55	83.6	146	237	394	586	729
700	1.76	4.84	9.31	18.3	27.5	36.6	49.5	64.1	97.5	170	276	460	684	850
720	1.81	4.98	9.57	18.8	28.3	37.7	50.9	66	100	175	284	473	703	875
800	2.01	5.53	10.6	20.9	31.4	41.9	56.5	73.3	111	195	316	525	781	972
900	2.26	6.22	12	23.6	35.3	47.1	63.6	82.5	125	219	355	591	879	1093
960	2.41	6.63	12.8	25.1	37.7	50.3	67.9	88	134	234	379	630	937	1166
1000	2.51	6.91	13.3	26.2	39.3	52.4	70.7	91.6	139	243	395	657	976	1215
1200	3.02	8.29	16	31.4	47.1	62.8	84.8	110	167	292	474	788	1172	-
1400	3.52	9.68	18.6	36.6	55	73.3	99	128	195	341	553	919	-	-
1440	3.62	9.95	19.1	37.7	56.5	75.4	102	132	201	351	568	945	-	-
1600	4.02	11.101	21.3	41.9	62.8	83.8	113	147	223	390	632	-	-	-
1800	4.52	12.401	23.9	47.1	70.7	94.2	127	165	251	438	-	-	-	-
2000	5.03	13.801	26.6	52.4	78.5	105.5	141	183	279	-	-	-	-	-
2200	5.53	15.201	29.3	57.601	86.4	115	155	202	-	-	-	-	-	-
2400	6.03	16.601	31.9	62.8	94.2	126	170	-	-	-	-	-	-	-
2600	6.53	18.001	34.6	68.1	102	136	184	-	-	-	-	-	-	-
2800	7.04	19.401	37.2	73.3	110	147	-	-	-	-	-	-	-	-
2880	7.24	19.901	38.3	75.4	113	151	-	-	-	-	-	-	-	-
3000	7.54	20.701	39.9	78.5	118	157	-	-	-	-	-	-	-	-
3600	9.05	24.901	47.9	94.2	-	-	-	-	-	-	-	-	-	-

Physical Characteristics

Characteristics	Coupling Size													
	F40	F50	F60	F70	F80	F90	F100	F110	F120	F140	F160	F180	F200	F220
Maximum speed rev/min	4,500	4,500	4,000	3,600	3,100	3,000	2,600	2,300	2,050	1,800	1,600	1,500	1,300	1,100
Nominal Torque Nm TK N	24	66	127	250	375	500	675	875	1,330	2,325	3,770	6,270	9,325	11,600
Maximum Torque Nm TK MAX	64	160	318	487	759	1,096	1,517	2,137	3,547	5,642	9,339	16,455	23,508	33,125
Torsional Stiffness Nm/O	5	13	26	41	63	91	126	178	296	470	778	1,371	1,959	2,760
Max. parallel misalignment mm	1.1	1.3	1.6	1.9	2.1	2.4	2.6	2.9	3.2	3.7	4.2	4.8	5.3	5.8
Maximum end float mm ±	1.3	1.7	2	2.3	2.6	3	3.3	3.7	4	4.6	5.3	6	6.6	7.3
Approximate mass. kg	0.1	0.3	0.5	0.7	1	1.1	1.1	1.4	2.3	2.6	3.4	7.7	8.0	10.0
Alternating Torque ± Nm @ 10Hz TKW	11	26	53	81	127	183	252	356	591	940	1,556	2,742	3,918	5,521
Resonance Factor V R	7	7	7	7	7	7	7	7	7	7	7	7	7	7
Damping Coefficient	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9

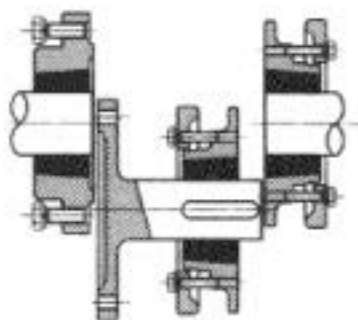
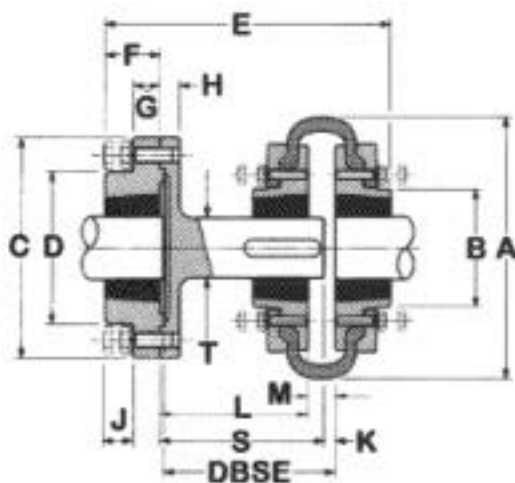
The Spacer Coupling is used to extend the distance of a shaft. Designed in conjunction with the Tyre Coupling specifications, it can be used in combination with other couplings in the Finer Power Transmission range.

As the Spacer Coupling is Taper Locked, a large range of shaft sizes can be easily accommodated.



Spacer Coupling

Size	Bush	A	B	C	D	E	F	G	H	J	K	L	Kg
FSM16-140	1615	127	80	32	33	20	25	131	41	109	10	65	4.0
FSM25-140	2517	178	127	48	38	23	27	131	48	108	14	72	8.9
FSM25-180	2517	178	127	48	38	23	27	171	48	148	14	78	9.1
FSM30-180	3030	216	146	60	49	47	34	171	79	144	18	80	18.70



Spacer Coupling with Tyre Coupling

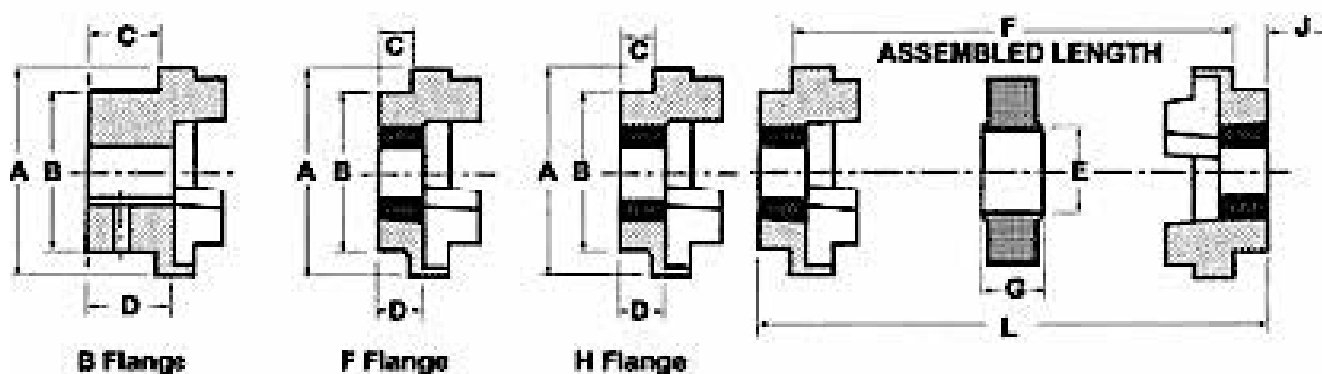
Size	Tyre Couple	Spacer Distance	Spacer Bush	Tyre Bush	A	B	C	D	E	F	G	H	J	K	L	M	S	T
FSM16-140	T40	140	1615	1008	104	82	127	80	200	38	18	15	14	9	126	22	94	32
	T50			1210	133	79			213						125	25	134	
	T60			1610	165	70			214						118	27	134	
FSM25-140	T80	140	2517	2517	211	95	178	123	233	45	22	16	14	9	116	25	134	48
	T90			2517	235	108			233						116	27	134	
FSM25-180	T80	180	2517	2517	211	95	178	123	273	45	22	16	14	9	158	25	174	48
	T90			2517	235	108			273						156	27	174	
FSM30-180	T100	180	3030	3020	254	120	216	146	310	76	29	20	17	9	156	25	174	60
	T110			3020	279	134			310						158	27	174	

The HRC Coupling is a proven performer, consisting of two cast iron flanges and a rubber element, which performs under compression.

The modular design allows for a simple fitting and easy maintenance whilst the rubber element absorbs shock loading. Finer stocks Nitrile Rubber and Poly-Urethane Elements to suit all stocked sizes. Finer Power Transmissions carries a full range of HRC Couplings in Pilot Bore and Taper Lock.



Coupling	A	B	E	F	G	Bush	Max. Bore		C	D	J	Bore Dia		Set Screw Size	H	I
							mm	inch				max	Piolet Hole			
70	69	60	31	25	18	1008	25	1	20	23.75	29	32	8	M6	20	23.4
90	85	70	32	30.5	22.5	1108	28	1 1/8	19.5	23.25	29	42	10	M6	26	30
110	112	100	45	45	29	1610	32	1 1/4	18.5	26.75	38	55	10	M10	37	45
130	130	105	50	53	36	1610	42	1 5/8	18	26.5	38	60	15	M10	39	47.5
150	150	115	62	60	40	2012	50	2	23.5	33.5	42	70	20	M10	46	56
180	180	125	77	73	49	2517	60	2 1/2	34.5	46.5	48	80	25	M10	58	70
230	225	155	99	85.5	59.5	3020	75	3	39.5	52.5	55	100	25	M12	77	90
280	275	185	119	105.5	74.5	3525	90	3 1/2	74	90	67	115	30	M16	90	105.5



Coupling	Assembled Length (L) FF,FH,HH	Assembled Length (L) BB	Weight Kg	Inertia Mr2 kgm	Dynamic Stiffness Nm/°	Maximum Misalignment		Nominal Torque Nm
						Parallel	Axial	
70	65	65	1	0.00085	-	0.3	0.2	31
90	69.5	82.5	1.17	0.00115	-	0.3	0.5	80
110	82	119	5	0.004	65	0.3	0.6	160
130	89	131	5.46	0.0078	130	0.4	0.8	315
150	107	152	7.11	0.0181	175	0.4	0.9	600
180	142	189	16.6	0.0434	229	0.4	1.1	950
230	164.5	239.5	26	0.12068	587	0.5	1.3	2000
280	207.5	285.5	55.3	0.44653	1025	0.5	1.7	3150

Service Factors

SPECIAL CASES For applications where substantial shock, vibration and torque fluctuation occur, and for reciprocating machines e.g. internal combustion engines, piston type pumps and compressors, refer to your local Authorised Distributor with full machine details for torsional analysis.	Type of Driving Unit			Type of Driving Unit		
	Electric Motors Steam Turbines			Internal Combustion Engines Steam Engines Water Turbines		
Driven Machine Class	Hours per day duty			Hours per day duty		
	8 and under	Over 8 to 16 inclusive	Over 16	8 and under	Over 8 to 16 inclusive	Over 16
UNIFORM Agitators, Brewing machinery, Centrifugal blowers, Centrifugal compressors†, Conveyors, Centrifugal fans and pumps, Generators, Sewage disposal equipment.	1	1.12	1.25	1.25	1.4	1.6
MODERATE SHOCK* Clay working machinery, Crane hoists, Laundry machinery, Wood working machinery, Machine tools, Rotary mills, Paper mill machinery, Textile machinery, Non-uniformly loaded centrifugal pumps.	1.6	1.8	2	2	2.24	2.5
HEAVY SHOCK* Reciprocating conveyors, Crushers, Shakers, Metal mills, Rubber machinery (Banbury mixers and mills), Reciprocating compressors, Welding sets.	2.5	2.8	3.12	3.12	3.55	4

Power Ratings (KW)

Speed rev/min.	Coupling Sizes							
	70	90	110	130	150	180	230	280
100	0.33	0.84	1.68	3.3	6.28	9.95	20.9	33
200	0.66	1.68	3.35	6.6	12.6	19.9	41.9	65
400	1.32	3.35	6.7	13.2	25.1	39.8	83.8	132
600	1.98	5.03	10.1	19.8	37.7	59.7	126	198
720	2.37	6.03	12.1	23.8	45.2	71.6	151	238
800	2.64	6.7	13.4	26.4	50.3	79.6	168	264
960	3.17	8.04	16.1	31.7	60.3	95.5	201	317
1200	3.96	10.1	20.1	39.6	75.4	119	251	396
1440	4.75	12.1	24.1	47.5	90.5	143	302	475
1600	5.28	13.4	26.8	52.8	101	159	335	528
1800	5.94	15.1	30.2	59.4	113	179	377	594
2000	6.6	16.8	33.5	66	126	199	419	660
2200	7.26	18.4	36.9	72.6	138	219	461	726
2400	7.92	20.1	40.2	79.2	151	239	503	-
2600	8.58	21.8	43.6	85.8	163	259	545	-
2880	9.5	24.1	48.3	95	181	286	-	-
3000	9.9	25.1	50.3	99	188	298	-	-
3600	11.9	30.1	60.3	118	226	-	-	-

For speeds below 100 rev/min, and intermediate speeds, use nominal torque ratings.

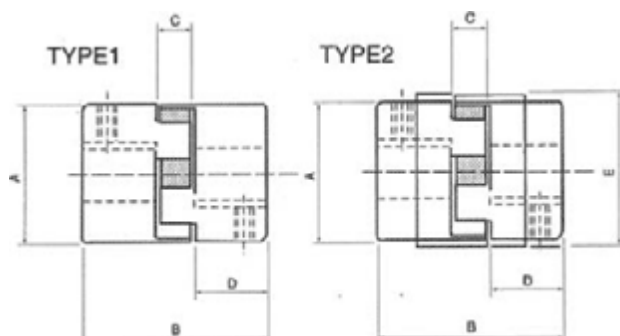
* Maximum coupling speeds are calculated using an allowable peripheral speed for the hub material.

For selection of smaller sizes with speeds in excess of 3600 rev/min – Consult your local Authorised Distributor.

The Finer Jaw Coupling is recognised across a large range of industries. The Jaw Coupling is highly resilient, it does not require any lubrication and can work in environments contaminated with oil, dirt, sand, moisture and grease. The rubber insert is designed to absorb shock loading and does not allow for any metal on metal contact. Finer Power Transmissions stocks both the Spider Elements (rubber & poly-urethane) as well as the Wrap Element Kits. Finer Power Transmissions stocks a range of jaw couplings in a variety of pre-bored and keyed sizes.



	L050	L070	L075	L095	L100	L110	L150	L190	L225	L276
Spider	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Wrap				✓	✓	✓	✓	✓	✓	
Kit				✓	✓	✓	✓	✓	✓	
Pilot Bore Hub	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hytre Spider	✓	✓	✓	✓	✓	✓	✓	✓		
PU Spider	✓	✓	✓	✓	✓	✓	✓	✓		
Imperial (inch)										
3/8	✓	✓								
7/16				✓						
1/2	✓	✓	✓	✓	✓					
9/16				✓						
5/8	✓	✓	✓	✓	✓					
3/4		✓	✓	✓	✓	✓				
7/8			✓	✓	✓	✓				
1			✓	✓	✓	✓	✓			
1-1/8				✓	✓	✓	✓			
1-1/4					✓	✓	✓	✓		
1-3/8						✓	✓	✓		
1-1/2						✓	✓	✓		
1-5/8								✓		
2								✓		
Metric (mm)										
9	✓									
10	✓	✓								
11	✓	✓								
12	✓	✓	✓							
14	✓	✓	✓	✓						
15			✓							
16		✓	✓	✓						
18		✓	✓	✓	✓					
19		✓	✓	✓	✓					
20			✓	✓	✓	✓				
22			✓	✓	✓	✓				
24				✓	✓	✓	✓			
25				✓	✓	✓	✓	✓		
28				✓	✓	✓	✓	✓		
30					✓	✓	✓	✓		
32					✓	✓	✓	✓		
35					✓	✓	✓	✓		
38					✓	✓	✓	✓		
40						✓	✓	✓		
42						✓	✓	✓	✓	
45							✓	✓		
48							✓	✓		
50								✓		
55								✓	✓	
60								✓	✓	

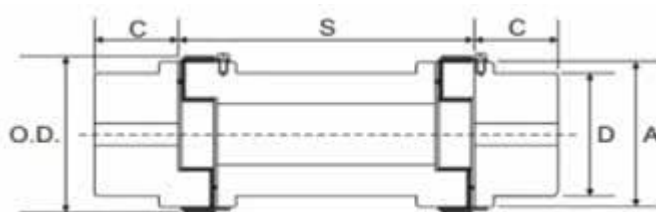


Coupling	Type	A	B	C	D	Stock Bore	Weight (Kg)		Max Bore (mm)
							Stock. Bore	Max. Bore	
L050PB	1	27.4	43.4	12.2	15.7	6	-	-	15
L070PB	1	35	53	13	19	6	0.26	0.24	19
L075PB	1	44.5	53	13	21	6	0.45	0.39	22
L095PB	1	54	65	13	25	11	0.79	0.69	29
L100PB	1	65	86	19	35	11	1.55	1.32	35
L110PB	1	84	110	24	43	16	2.93	2.55	42
L150PB	1	96	113	25	45	16	4.06	3.51	48
L190PB	1	115	133	25	50	18	-	-	55
L225PB	1	127	155	25	55	18	-	-	65

Power Ratings (KW)

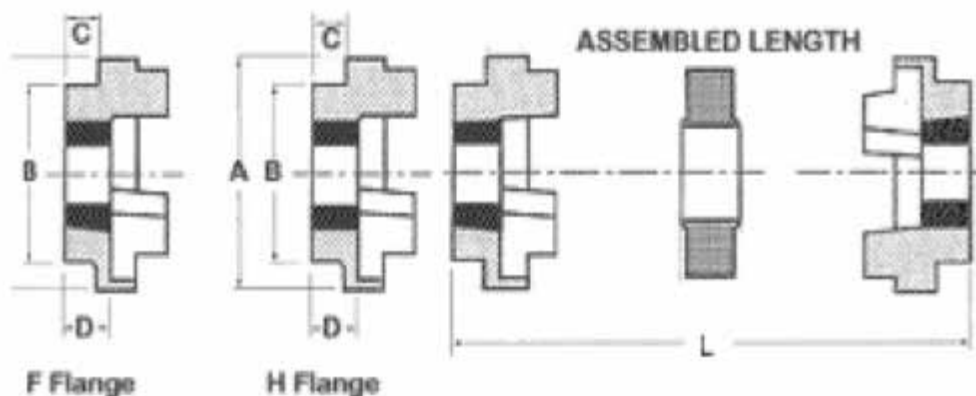
Coupling	Max. RPM	Torque (Nm).	Speed RPM					
			100	720	960	1440	2880	3600
L050PB	18000	3.51	0.037	0.26	0.35	0.53	1.73	2.17
L070PB	14000	5.77	0.06	0.43	0.58	0.87	3.61	4.51
L075PB	11000	11.9	0.12	0.9	1.2	1.8	5.78	7.22
L095PB	9000	25.8	0.27	1.95	2.59	3.89	16.73	20.91
L100PB	7000	55.4	0.58	4.18	5.58	8.36	31.77	39.71
L110PB	5000	105	1.10	7.94	10.59	15.88	44.93	56.16
L150PB	4000	150	1.56	11.23	14.98	22.46	60.28	75.35
L190PB	3600	200	2.09	15.07	20.09	30.14	84.4	105.5
L225PB	3600	280	2.93	21.09	28.13	42.2	84.4	105.5

Jaw Coupling Spacer



Part No.	Bore (mm)		A	C	D	OD	Spacer Length (mm)
	Min	Max					
L100-100MM/140MM	10	35	65	35	57	78	100/140
L110-100MM/140MM	15	42	85	43	76	96	100/140
L150-100MM/140MM/180MM	15	48	96	45	80	111	100/140/180
L190-100MM/140MM/180MM	20	60	115	54	102	130	100/140/180
L225-100MM/140MM/180MM	20	65	127	64	111	142	100/140/180

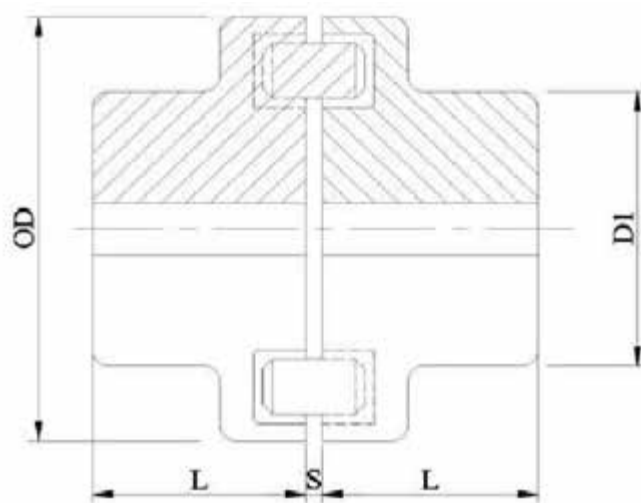
Jaw Couplings - Taper Lock



Size	Dimensions					Bush	Max Bore	
	A	B	C	D	L		mm	inch
L100	65	65	-	22.5	64	1108	28	1-1/8
L110	85	85	-	25.5	74	1210	32	1-1/4
L150	96	96	-	25.5	77	1210	32	1-1/4
L190	115	102	6.5	25.5	77	1610	42	1-11/16
L225	127	108	13	32	90	2012	50	2

Flexible NM Series Jaw Couplings

The NM coupling has a very distinctive element that weaves in and out between the jaws. This ring has a high internal damping characteristic, which enables the coupling, on reaching a dangerous speed range, to limit the torsional oscillation and thus protect the linked machines from damage. Elements come in material grade Perbunan (Pb72) with nitrile rubber (NBR) and hardness of 72 & 82 shore A with temperature range of -40 C° to +120 C°.



Size	Bore (mm)		OD	DI	L	S	Max Speed (RPM)	Torque (NM)		Power Rating kW / rpm	Weight (kg) / set
	Min	Max						Nominal	Max		
NM-50	7	19	50	33	25	2.0±0.5	13500	12.74	22.54	1.33	0.52
NM-67	9	28	67	46	30	2.5±0.5	10000	21.56	39.2	2.26	0.93
NM-82	10	32	82	53	40	3.0±0.5	8000	49	88.2	5.13	1.78
NM-97	12	42	97	69	50	3.0±0.5	7000	102.9	186.2	10.78	3.46
NM-112	14	48	112	79	60	3.5±0.5	6000	163.66	294	17.14	5
NM-128	18	55	128	90	70	3.5±0.5	5000	261.66	470	27.40	7.9

Stocking elements to suit.



MAX DYNAMIC® Couplings

- Omega® alternative

Characteristics of MAX DYNAMIC® Coupling

1. Facility protection for twirl and twist, impact and abrasion
2. Very simple replacement and maintenance without oil and grease
3. Very simple replacement without the separation of motor or connector on the related line due to it's simple structure
4. Possible for the dissimilar connection and assembling with same hub
5. Polyurethane based for having good water resistance, chemical resistance
6. Highest flexible elasticity on run
7. Less noise



Application

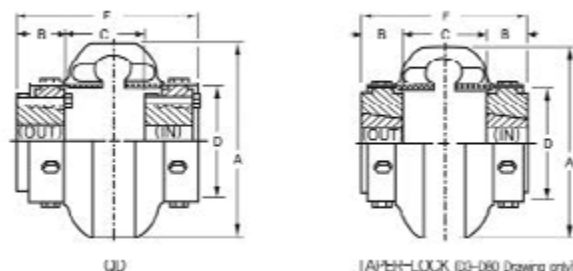
- Agitator
- Blower
- Compressor
- Conveyors
- Cranes and Hoists
- Elevators
- Fans
- Generators
- Pump
- Brewery and Distilling
- Food Industry
- Lumber Industry
- Pulp and Paper Mill
- Rubber Industry
- Steel Industry
- Textile Mills
- Aggregate Processing Cement

MAX DYNAMIC® Standard Couplings



Max Dynamic Coupling No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/rpm)	Dimensions (mm)						
					A	B	C		D	E	F
					Out Dia	Hub Length	Min. Shaft Spacing	Max. Shaft Spacing	Hub Dia	Total Length	
										In	Out
D-2	2.20	28	7,500	0.0023	89	24	35	47	47	83	95
D-3	4.20	34	7,500	0.0043	102	32	9	47	59	83	111
D-4	6.40	42	7,500	0.0066	116	37	9	47	66	83	121
D-5	11.00	48	7,500	0.0110	137	45	10	52	80	100	142
D-10	16.70	55	7,500	0.0170	162	45	11	53	93	101	143
D-20	26.70	60	6,600	0.0270	184	50	15	63	114	115	163
D-30	42.10	75	5,800	0.0430	210	56	12	68	138	124	180
D-40	63.40	85	5,000	0.0660	241	61	12	74	168	134	196
D-50	88.20	90	4,200	0.0900	279	69	12	86	207	150	224
D-60	144.00	105	3,800	0.1480	318	80	11	99	222	171	259
D-70	254.00	120	3,600	0.2620	356	85	18	109	235	189	281
D-80	455.00	155	2,000	0.4670	406	114	17	149	286	245	377
D-100*	980.00	171	1,900	1.0000	533	140	44	95	359	324	375
D-120*	1,961.00	190	1,800	2.0000	635	152	57	124	448	362	429

MAX DYNAMIC® Standard Couplings with Compression Bushed Hubs



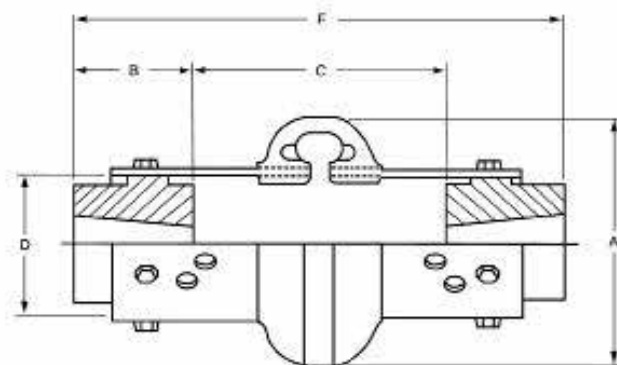
Specification Data with QD Hubs

Not a stocked range although available on request.

Max Dynamic Coupling No.	QD Bush No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/ rpm)	Dimensions (mm)							Weight (kg)
						A	B	C		D	E	F	
						Out Dia	Hub Length	In	Out	Hub Dia	Total Length		
											In	Out	
D-4	JA	6.4	30	7,500	0.0066	116	25	31	48	66	82	99	0.95
D-5	SH	11.0	35	7,500	0.0110	137	32	44	48	80	108	114	1.63
D-10	SDS	16.7	42	7,500	0.0170	162	33	30	59	93	97	125	2.18
D-20	SK	26.7	55	6,600	0.0270	184	48	16	67	114	108	162	3.86
D-30	SF	42.1	60	5,800	0.0430	210	51	37	56	138	138	157	6.35
D-40	E	63.4	75	5,000	0.0660	241	67	32	44	168	165	178	10.80
D-50	E	88.2	75	4,200	0.0900	279	67	35	73	207	168	207	17.06
D-60	F	144.0	90	3,800	0.1480	318	92	38	48	222	222	232	20.64
D-70	J	254.0	100	3,600	0.2620	356	114	33	36	235	262	265	30.89
D-80	M	455.0	140	2,000	0.4670	406	171	19	32	286	362	375	63.50
D-100	M	980.0	140	1,900	1.0000	533	173	44	29	359	390	375	113.40
D-120	N	1,961.0	150	1,800	2.0000	635	206	44	29	448	456	441	215.46

* Note: Dimensions may vary depending on bushing manufacturer. Dimensions subject to change.

Specification Data with Taper-Lock Hubs													
Max Dynamic Coupling No.	Taper Lock Bush No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/ rpm)	Dimensions (mm)							Weight (kg)
						A	B	C		D	E	F	
						Out Dia	Hub Length	In	Out	Hub Dia	Total Length		
											In	Out	
D-3	1008	4.2	25	7,500	0.0043	102	22	43.0	-	59	87	-	0.82
D-4	1008	6.4	25	7,500	0.0066	116	22	43.0	-	66	87	-	1.18
D-5	1108	11.0	28	7,500	0.0110	137	22	56.0	-	80	100	-	1.81
D-10	1610	16.7	35	7,500	0.0170	162	25	52.0	-	93	103	-	2.72
D-20	1610	26.7	42	6,600	0.0270	184	25	63.5	-	114	114	-	4.08
D-30	2012	42.1	50	5,800	0.0430	210	32	65.0	-	138	129	-	6.17
D-40	2517	63.4	65	5,000	0.0660	241	44	60.0	-	168	149	-	9.89
D-50	2517	88.2	65	4,200	0.0900	279	44	76.0	-	207	165	-	14.29
D-60	3020	144.0	75	3,800	0.1480	318	51	84.0	-	222	186	-	21.14
D-70	3535	254.0	100	3,600	0.2620	356	89	60.0	-	235	238	-	30.25
D-80	4040	455.0	100	2,000	0.4670	406	102	95.0	-	286	298	-	37.19
D-100	4545	980.0	110	1,900	1.0000	533	114	38	152	359	267	381	113.40
D-120	5050	1,961.0	125	1,800	2.0000	635	127	51	181	448	305	435	185.07



Max Dynamic Coupling No.	Torque (kgf.m)	Max. Bore (mm)	Max. rpm	Power Rating (kw/rpm)	Dimensions (mm)						
					A	B	C		D	E	F
					Out Dia	Hub Length	Min. Shaft Spacing	Max. Shaft Spacing	Hub Dia	Total Length	
										In	Out
DS-2	2.20	28	7,500	0.0023	89	24	91	100	47	146	149
DS-3	4.20	34	7,500	0.0043	102	37	85	140	59	184	216
DS-4	6.40	42	7,500	0.0066	116	37	85	140	66	184	216
DS-5	11.00	48	7,500	0.0110	137	45	89	140	80	184	228
DS-10	16.70	55	7,500	0.0170	162	45	89	140	93	184	228
DS-20	26.70	60	4,800	0.0270	184	50	67	180	114	238	280
DS-30	42.10	75	4,200	0.0430	210	56	54	180	138	238	293
DS-40	63.40	85	3,600	0.0660	241	61	41	180	168	238	307
DS-50	88.20	90	3,100	0.0900	279	69	28	180	207	238	319
DS-60	144.00	105	2,800	0.1480	318	80	66	250	222	318	415
DS-70	254.00	120	2,600	0.2620	356	85	59	250	235	318	421
DS-80	455.00	155	1,800	0.4670	406	114	37	250	286	318	478

Recommended Capscrew

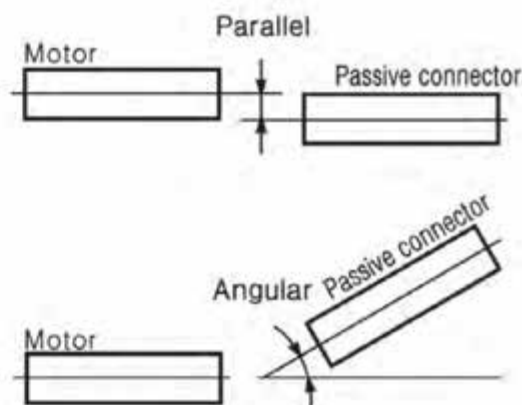
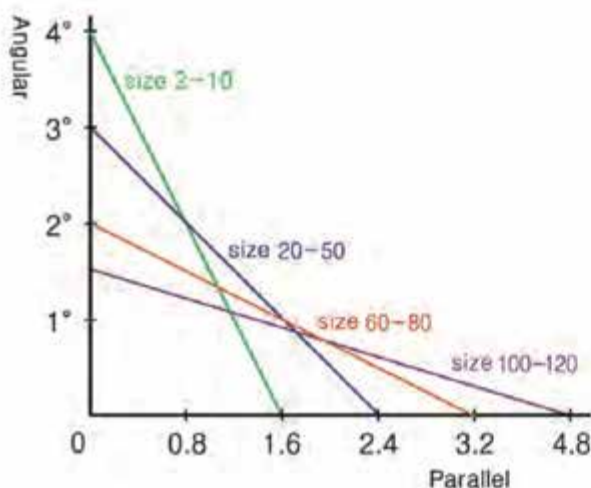
Size	Torque (kgf.m)
D-2	2.3
D-3	
D-4	
D-5	
D-10	
D-20	4.1
D-30	
D-40	
D-50	
D-60	
D-70	10.2
D-80	
D-100	37.7
D-120	

Not currently in our range

NOTE

1. A bolt having the highest tension shall be used
2. Adhesive shall be used
3. Never use a bolt more than twice

The tolerance of installation



The method of assembly



1. Adjust the face of A and A' at same space
2. Adjust Hub's Minimum space
3. Assemble the bolts in the order of 2-2', 5-5', 3-3', 4-4', 6-6', 1-1'
4. Assemble the bolts in the middle part of the edge



1. Adjust the face of A and A' at same space
2. Adjust Hub's Minimum space
3. Assemble the bolts in the order of 2-2', 7-7', 3-3', 6-6', 1-1', 4-4', 8-8', 5-5'
4. Assemble the bolts in the middle part of the edge

Service (safety) factors for each running part

General Application	Service Factor	Industry Application	Service Factor
Agitator	1.5	Aggregate Processing Cement	2.0~3.0
Blower	1.0~1.5	Brewery and Distilling	1.0~2.0
Compressor	1.0~2.0	Food Industry	1.0~2.0
Conveyor	1.25~1.5	Lumber Industry	1.5~2.5
Cranes and Hoist	2.0~2.5	Power Industry	1.0~2.5
Elevators	1.0~2.0	Pulp and Paper Mills	1.0~3.5
Fans	1.0~2.0	Rubber Industry	1.0~3.0
Generators	1.0~2.5	Steel Industry	2.0~4.5
Pumps	1.0~1.5	Textile	1.0~2.0

Service/Safety Factor

Running Status		Service Factor
1	For being continuous running and light load weight	1.0
2	For being the various change of the rotary power	1.5
3	For being various and frequent variation on the turning force	2.0
4	For being the variation of the rotary power accompanying impact	2.5
5	For being high impact load-weight accompanying slight retro-rotation	3.0
6	For being frequent retro-rotation accompanying high impact	Consult



Flexible Pin Couplings (N-Eupex Type)

Due to their torsional flexibility, flexible pin couplings can move critical torsional vibrations away from the operating area of mechanical equipment in such a way that no negative effects on the drive train are to be expected. Flexible Pin couplings are made of high-quality cast iron. The flexible elements made of synthetic rubber (NBR) are available in different degrees of hardness for many applications. Metal pins and flexible elements are designed so that no wear occurs when they are properly fitted.

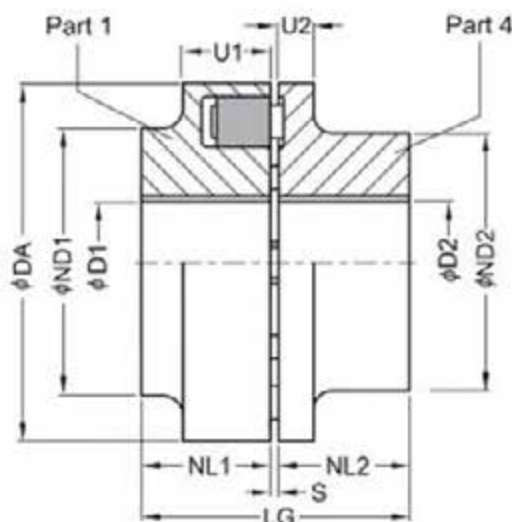
Your benefits at a glance:

- Fail-safe for maximum operational reliability
- Three-part type suitable for plug-in assembly and simplified replacement of elements
- Choice of elastomer hardness to suit various applications.



Part No.	Nm	Max RPM	D1 (mm)		D2 (mm)		DA	ND1	ND2	NL1/NL2	S	U1	U2	LG
			Min	Max	Min	Max								
H58	19	7500	-	19	-	24	58	58	40	20	3	20	8	43
H68	34	7000	-	24	-	28	68	68	50	20	3	20	8	43
H80	60	6000	-	30	-	38	80	80	68	30	3	30	10	63
H95	100	5500	-	42	-	42	95	76	76	35	3	30	12	73
H110	160	5300	-	48	-	48	110	86	86	40	3	34	14	83
H125	240	5100	-	55	-	55	125	100	100	50	3	36	18	103
H140	360	4900	-	60	-	60	140	100	100	55	3	34	20	113

Stocking elements to suit.

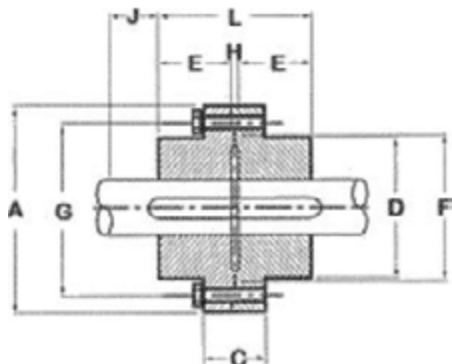


Rigid Couplings

Rigid Couplings are used in situations where shaft alignment is essential.

A misaligned coupling can cause damage and downtime. When properly fitted this torsionally rigid coupling helps prevent any such event. Finer Rigid Couplings are Taper Lock ready and available in a range of sizes to accommodate almost any shaft size.

Rigid Couplings consist of 2 flanges, available in internal and external entry (H & F). This gives two possible coupling assemblies: HF and FF. When connecting horizontal shafts, choose the most convenient method. When connecting vertical shafts use assembly FF only.



Part No.	Max Bore	Max Torque (Nm)	Normal Maximum Speed (RPM)
RM12	32.0	130	4000
RM16	42.0	220	4000
RM25	60.0	220	3800
RM30	75.0	1000	3150
RM35	90.0	1400	2800
RM40	100.0	2700	2250
RM45	110.0	3200	2100
RM50	125.0	4000	2000

Coupling	Bush	Max. Bore		A	C	D	E	F nom	G nom	H+	J*	L	Kg
		Metric	Inch										
RM12	1210	32	1 1/4	118	35	83	26	76	102	7	38	57	3.5
RM16	1615	42	1 5/8	127	43	80	38	89	105	7	38	83	4.5
RM25	2517	65	2 1/2	178	51	123	45	127	149	7	48	97	11
RM30	3030	75	3	216	65	146	76	152	181	7	54	169	23
RM35	3535	90	3 1/2	248	75	178	89	178	213	7	67	185	38
RM40	4040	100	4	298	76	210	102	216	257	7	79	210	64
RM45	4545	110	4 1/2	330	86	230	114	241	286	7	89	235	88
RM50	5050	125	5	362	92	266	127	267	314	7	92	260	155

* is the wrench clearance to allow for tightening and loosening the bush on the shaft.

+ is the distance between shaft ends.

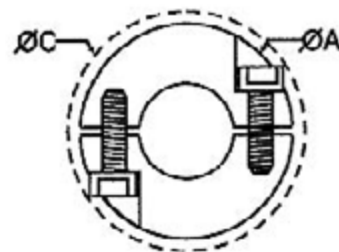
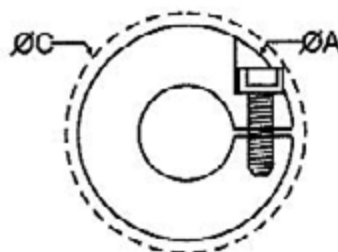
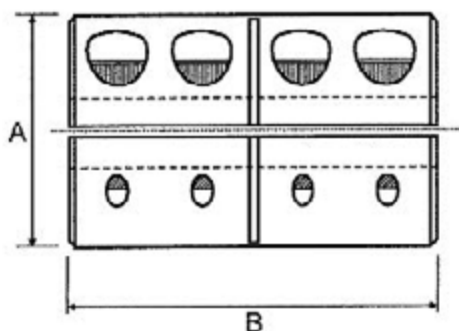
Coupling weights calculated including average sized TL Bush.

Metric Rigid Couplings (Clamp Type)

Rigid couplings are available in one and two piece clamp designs, with and without keyways in steel or stainless steel. Clamp style rigid couplings wrap around the shaft, providing high torsional holding power without the shaft damage and fretting that occurs when set screw style couplings are used. Two-piece clamp styles also allow for disassembly and maintenance without removal of other machine components and feature opposing hardware for a balanced design.



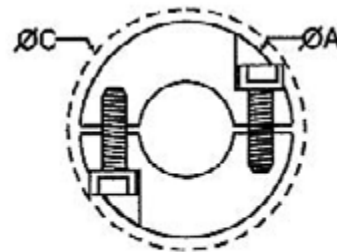
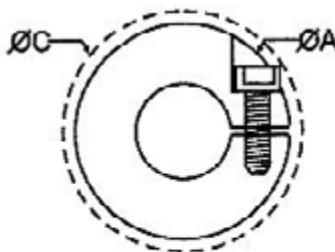
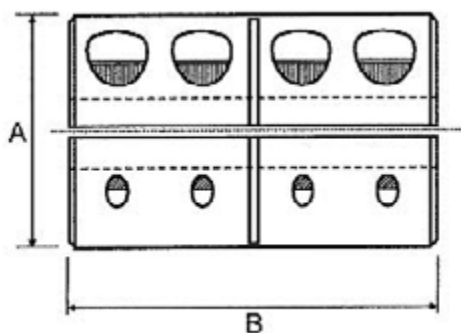
Part No.		Bore (mm)	A	B	C
One Piece Split	Two Piece Split				
MCLX-3-3*	MSPX-3-3	3.0	15.0	22.0	15.0
MCLX-4-4	MSPX-4-4	4.0	15.0	22.0	15.0
MCLX-5-5	MSPX-5-5	5.0	15.0	22.0	15.0
MCLX-6-6	MSPX-6-6	6.0	18.0	30.0	21.5
MCLX-8-8	MSPX-8-8	8.0	24.0	35.0	27.1
MCLX-10-10	MSPX-10-10	10.0	29.0	45.0	33.0
MCLX-12-12	MSPX-12-12	12.0	29.0	45.0	33.0
MCLX-14-14	MSPX-14-14	14.0	34.0	50.0	39.4
MCLX-15-15	MSPX-15-15	15.0	34.0	50.0	39.4
MCLX-16-16	MSPX-16-16	16.0	34.0	50.0	39.4
MCLX-20-20	MSPX-20-20	20.0	42.0	65.0	48.9
MCLX-25-25	MSPX-25-25	25.0	45.0	75.0	51.5
MCLX-30-30	MSPX-30-30	30.0	53.0	83.0	58.7
MCLX-35-35	MSPX-35-35	35.0	67.0	95.0	74.7
MCLX-40-40	MSPX-40-40	40.0	77.0	108.0	84.0
MCLX-50-50	MSPX-50-50	50.0	85.0	124.0	94.2



Imperial Rigid Couplings (Clamp Type)



Part No.		Bore (inches)	A	B	C
One Piece Split	Two Piece Split				
CLX-4-4	SPX-4-4	6.4 (1/4")	15.9	25.4	20.7
CLX-6-6	SPX-6-6	9.5 (3/8")	22.2	34.9	26.2
CLX-8-8	SPX-8-8	12.7 (1/2")	28.6	44.5	33.7
CLX-10-10	SPX-10-10	15.9 (5/8")	33.3	50.8	38.5
CLX-12-12	SPX-12-12	19.1 (3/4")	38.1	57.2	46.8
CLX-14-14	SPX-14-14	22.2 (7/8")	41.3	63.5	49.1
CLX-16-16	SPX-16-16	25.4 (1")	44.5	76.2	52.0
CLX-18-18	SPX-18-18	28.6 (9/8")	47.6	79.4	55.4
CLX-20-20	SPX-20-20	31.8 (5/4")	52.4	82.6	58.1
CLX-22-22	SPX-22-22	34.9 (1 1/8")	63.5	92.1	70.4
CLX-24-24	SPX-24-24	38.1 (3/2")	66.7	98.4	73.3
CLX-28-28	SPX-28-28	44.5 (7/4")	79.4	114.3	85.5
CLX-32-32	SPX-32-32	50.8 (2")	85.7	123.8	94.4





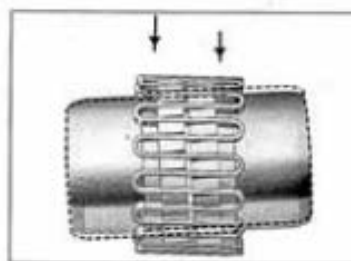
KCP Gear Coupling follows the international standards of AGMA and JIS, which easily allows to replace with major industrial products. Our Gear coupling compensates angular misalignment, parallel misalignment and end float. The fully crowned hub teeth provide minimum loading stress, and ensure longer life.

1. Characteristics

1. High torque, small size, long life and very little loss of transmitting power.
2. The concave-convex flange design allows easy assembly and the high quality gasket prevents leakage of lubricant.
3. Gear Coupling permits parallel, angular misalignments and end floating by crown gear teeth.

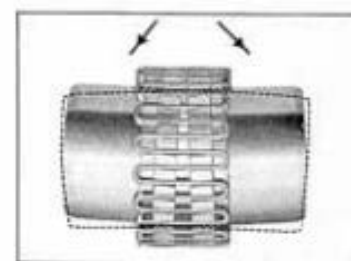
- Parallel Misalignment

The driving and driven shafts are not parallel to each other, but not on the same straight line.



- Angular Misalignment

The driving and driven shafts installed with a limited angle.

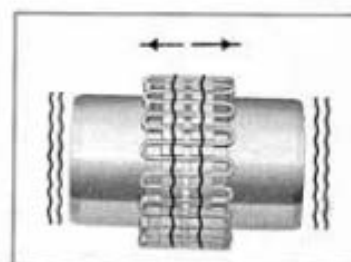


- End Floating

The driving and driven shafts slide slightly along with the gear teeth.

- Composite Misalignment

In most of cases, above 3 misalignments appear with mixed in general use



Allowable Misalignment

Size	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200
(mm)	12	1.3	1.7	2.1	2.4	2.9	3.2	3.5	4.1	4.5	5	5.9	6.7	7.4	8.2	12.7	12.7
° ()	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	3(1.5)	2(1)	2(1)	2(1)	2(1)	2(1)	2(1)

- The couplings made of S45C has a good endurance to high speed and peak load. Consult us for special materials, if required.
- Customer's requirements of special design can be acceptable

2. Structure



1. Internal Gear (Rounded Sleeve)
2. Crown Gear (Crown Gear Hub)
3. Reamer Bolt or AGMA Bolt
4. Gasket
5. O-ring
6. Spring Washer
7. Hex Bolt & Nut

* The crowned hub teeth provide larger contact area and decrease the stress

3. Application

1. Heavy load, but compact design coupling.
2. High speed up to 5,000rpm (Depending on size, refer to the data)
3. Low speed, but high starting torque
4. End float application
5. Spacer required, due to longer distance between shaft ends
6. Low load and light weight application is not recommendable.

4. Standard Material

INTERNAL GEAR	CROWN GEAR	FLANGE	Bolt	O-ring
SM 45C-N			SM 45C-H	NBR

- Special material and/or special treatment is required under the unusual application environments, such as high speed, high or low temperature, chemicals corrosiveness, medium load stress.
- Under the heavy load, high speed and corrosive environment, special materials shall be required.

5. Selection of Method Size

1. Selection

Using the following formula, Design Torque required

$$T = 97,400 \frac{kw}{N} \times S.F \text{ 또는 } T = 71,620 \frac{HP}{N} \times S.F$$

T = Design torque (kg mm)
 kw = Power (kw)
 HP = Power (HP)
 N = Working revolution (rpm)
 S.F = Recommended Service
 Factor

Select the size with the same or with the greater value at the Basic Torque column, Refer to the maximum shaft diameters of the size selected, and then compare the shaft diameters of the application with the max. bore dia of the size selected. If the coupling bore is not suitable, select the larger size coupling.

3. Example

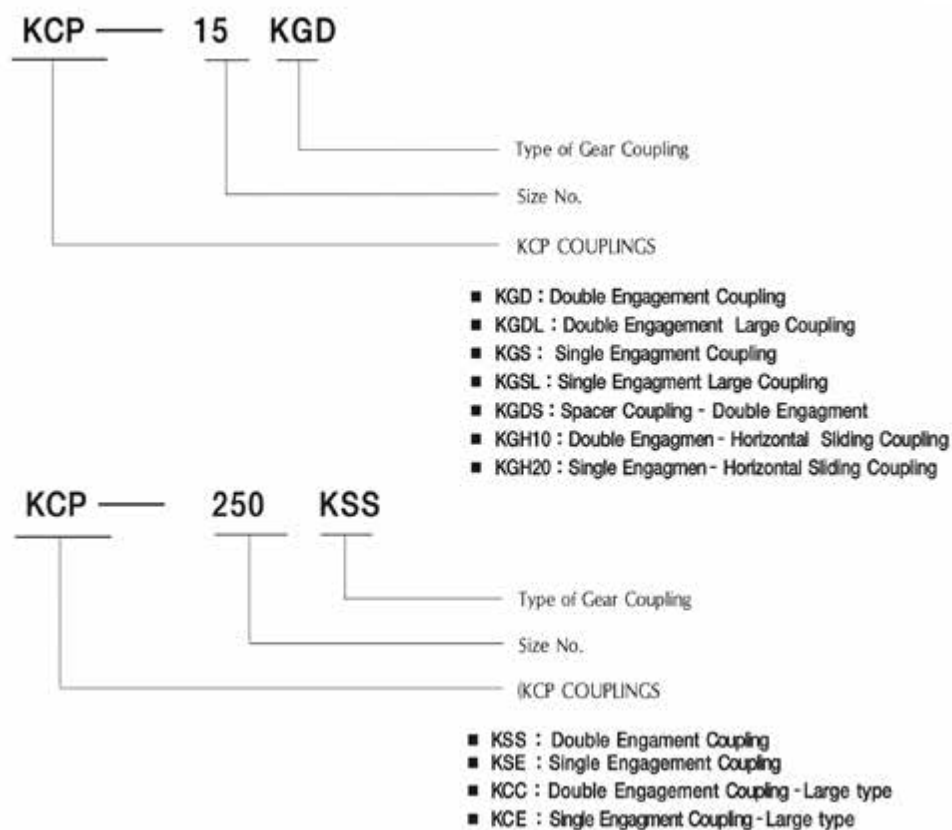
Select Gear Coupling to connect 450HP 1,170 rpm electric motor with reducer.
Motor shaft diameter is 80mm, Reducer shaft diameter is 90mm, Max parallel alignment is 1.5mm.

1. Select type KGDB for higher valued application of parallel misalignment.
2. Service factor is 2.0
3. Use the normal formula

$$\text{HP}/100\text{rpm} = \frac{450 \times 100 \times 2.0}{1,170} = 76.9$$

Size KGDR25 is selected with rating of 90HP per 100rpm. To apply larger shaft dia 90mm, finally KGDE 30 is selected.

6. Designation



Double Engagement = provides standard engagement for parallel & angular misalignment as well as end float, with the ability to accomodate close coupled applications.

2 x CGH, 2 x FS, 1 x Kit

Single Engagement = accomoadates anfular misalignment only and does not allow for parallel misalignment. 1 x CGH, 1 x RH, 1 x, FS, 1 x Kit

7. Instruction for Installation

1. Small Size cup (up to 60)

Hub bore and keyway must be machined accurately. During the key fit to the shaft and this hub, be careful with the oil leakage.

1. Clean all parts, Gears the crowned gear teeth and O-Ring. Put O-Ring onto the shaft.
2. Place the flanged sleeves on the shafts and mount the hubs
3. Using a spacer bar, make the gap between the hubs equal to the normal gap specified.
4. Align the shaft with a strait bar by checking every 90 degrees, referring to the table 3. Make it sure with a dial gauge not to exceed the affect limit.
5. Insert gasket between the flanged sleeves and fasten the bolts, positioning the lube plug at 90 degree
6. Fill grease until overflowing at the open opposite Lube plug hole.

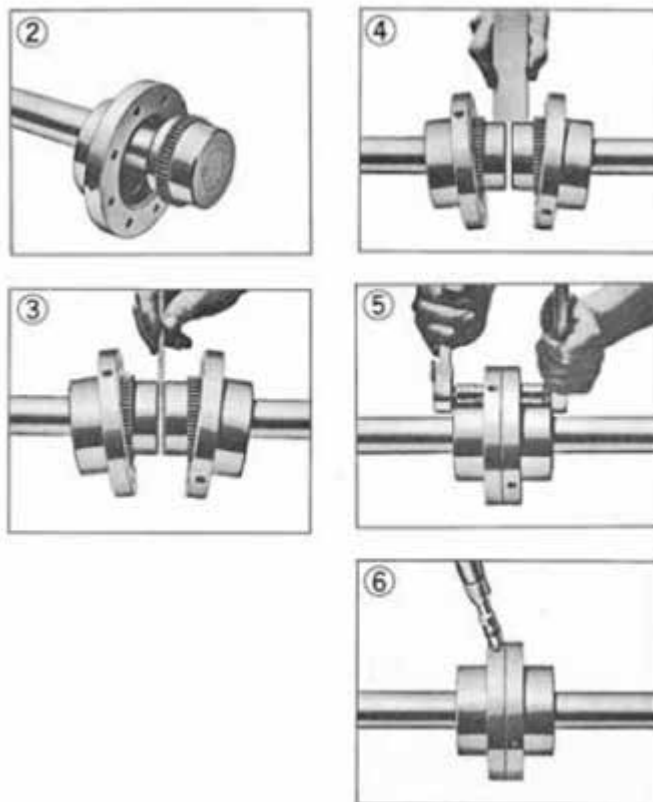


Fig. 3 Operating Limits of misalignment (mm)

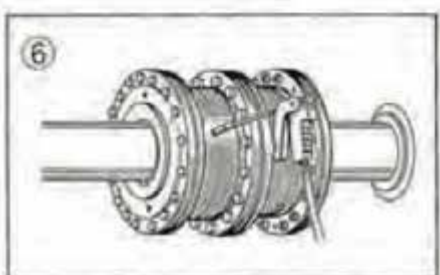
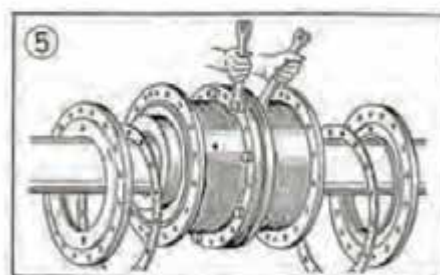
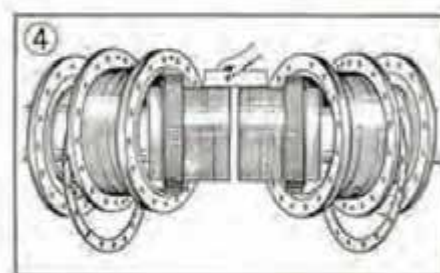
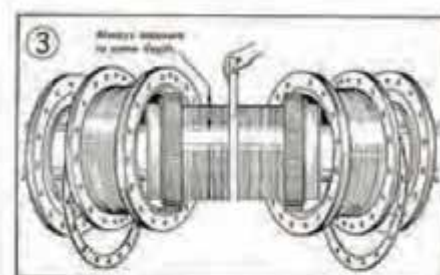
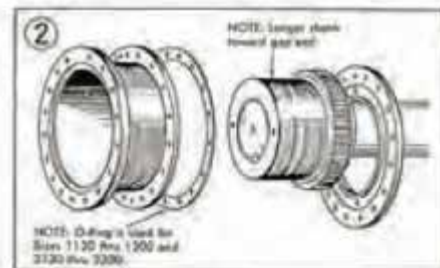
Size	10	15	20	25	30	35	40	45	50	55	60	70	80	90	100
Angular degree	0.125	0.125	0.25	0.25	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4
Gap	3	3	3	4.5	4.5	6	6	8	8	8	8	9.5	10	13	13
Flange Bolt Torque(km-cm)	96	320	480	960	960	1650	1650	1650	2070	2070	2070	2980	-	-	-

The life of coupling is reduced by excess of the OFFSET limit

2 Large Size (over size 70)

Hub bore and keyway must be machined accurately. During the Key-Fit work, be careful the Internal Gear does not leak oil.

1. Clean all parts. Pack with grease and seals with grease before assembly
2. Place the side covers with sealing gaskets on the shafts before mounting the crown gears. Mount crown gears on their respective shafts. Mount Internal Gears with side covers gaskets
3. Use a spacer bar equal into the gap. The difference in minimum and maximum measurements should not exceed the angular limit specified in table 3.
4. Align with a straightedge, rest squarely at every 90 degrees as shown in photo. The tolerance should not exceed the offset limit specified in Table 3
5. Insert gasket between flange. Position Internal Gears with lube holes at about 90 degrees and then fasten the bolts & nuts.
6. Remove all lube plugs and fill recommended grease into the coupling until excess flow through the opposite lub plug hole. And screw down plugs.



KCP Gear Couplings

8. Selection on Puller Holes

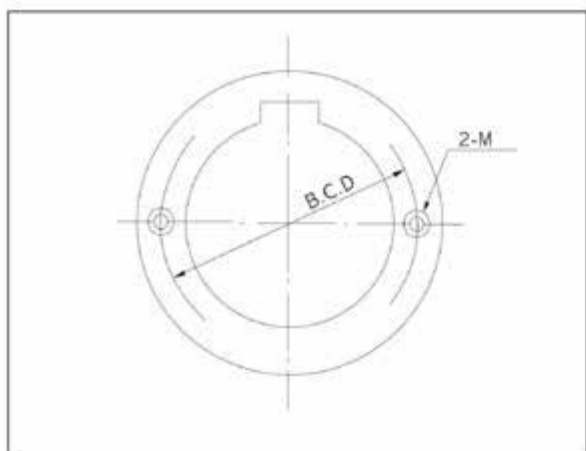


Table 4

Table 4

Size	BCD	Tap Size
20KG	89	M8
25KG	112	M10
30KG	128	M10
35KG	152	M12
40KG	181	M16
45KG	200	M16
50KG	216	M20
55KG	238	M20
60KG	268	M20
70KG	305	M24
80KG	318	M24
90KG	356	M30
100KG	394	M30
110KG	426	M30
120KG	498	M30

9. Lubrication & Handling

With the appropriate lubricant information, the coupling will have good performance and long life.

1. Lubricant

1. Grease the Internal gear teeth and crown gear teeth, and fill enough lubricant Grease.

2. Supplement and Replacement:

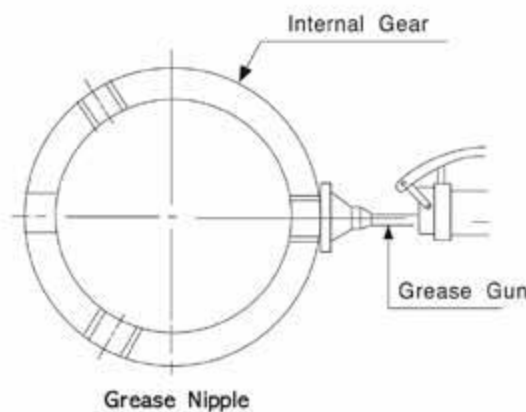
Add grease every month or every 240-250 hours operating.

Renew all the contaminated grease every 3 month or every 4000 hours operating

3. Selection

Allowable temperature of grease is from 17°C to 70°C. Refer to the table 6 (pg.

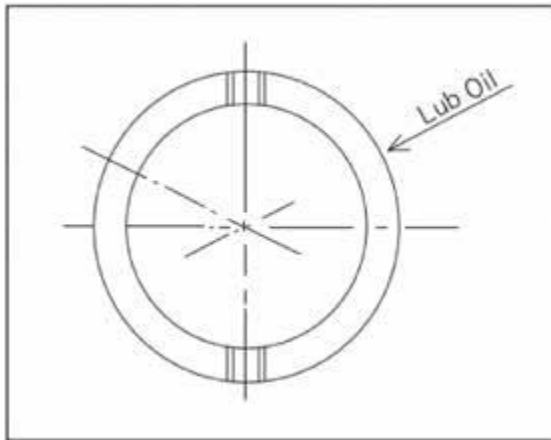
3.1.37) that shows the coupling RPM allowed fix the listed grease.



Company/Oil	Grease # 1	Grease # 0
Gulf Oil Corp.	Gulfcrown Grease EP #1	Gulfcrown Grease EP #0
Shell Oil Corp.	Alvania Grease EP #1	Alvania Grease EP-RO
Texaco Inc.	Multifak EP - 1	Multifak EP - 0
Mobil Oil Corp.	Mobilux EP - 1	Mobilux EP - 0

Note: Lubricants listed in this manual are typical products.

2. Lubricant Filling



1. Place the Lube plug holes 2EA horizontal level. Fill up Lubricant until it overflows from the opposite hole.
2. Supplement every month, or 240-250 hours operating.
3. Replace completely all the contaminated lubricant, every 3 months or every 4,000 hours operating.

3. Selection of Lubricant

Table 6

Com- pany	Shell	Mobil	Michang	Buhmwoo	Gulf	Fujikosan Nipponkoku	Houghton	Hanil		Caltex
CST 40°C 68	omala 68	Mobilgear 626	Pio Gear EP 68	Buhmwoo Gearlube BG-68	Gulf EP Lubricant R 68	Hirax ME GO 300	MP Gear Oil 68	Nico Gear SP 68	Daphne CE compound 68C	Meropa Lubricant 68
CST 40°C 315										
100	omala 68		Pio Gear EP 68	Buhmwoo Gearlube BG-100	Gulf EP Lubricant HD 100	Hirax ME GO 500	MP Gear Oil 100	Nico Gear SP 100	Daphne CE compound 100S	Meropa Lubricant 100
150	omala 150	Mobilgear 629	Pio Gear EP 150	Buhmwoo Gearlube BG-150	Gulf EP Lubricant R150, HD150	Hirax ME GO 700	MP Gear Oil 150	Nico Gear SP 150	Daphne CE compound 150S	Meropa Lubricant 150, Synthetic Gear Lube
150	omala 220	Mobilgear 630	Pio Gear EP 220	Buhmwoo Gearlube BG-220	Gulf EP Lubricant R220, HD220	Hirax ME GO 1000	MP Gear Oil 220	Nico Gear SP 220	Daphne CE compound 220S	Meropa Lubricant 220
320	omala 320	Mobilgear 632	Pio Gear EP 320	Buhmwoo Gearlube BG-320	Gulf EP Lubricant R320, HD320	Hirax ME GO 1500	MP Gear Oil 320	Nico Gear SP 320	Daphne CE compound 320S	Meropa Lubricant 320



1. Characteristic & Merits

You can get more favourable convenience and count down by using KCP Taper Grip Steel Flexible Coupling

- Parallel Misalignment

The movement of the grid in the lubricated grooves accommodates parallel misalignment and permits full functioning of the grid-groove action in damping out shock and vibration.

- Angular Misalignment

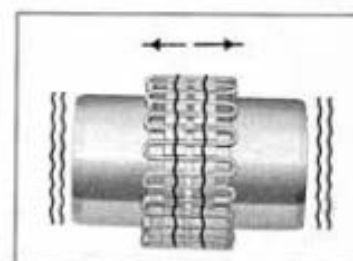
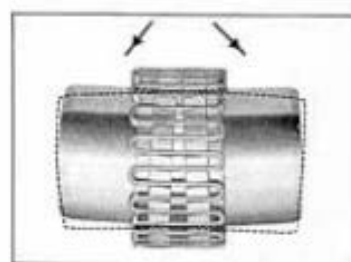
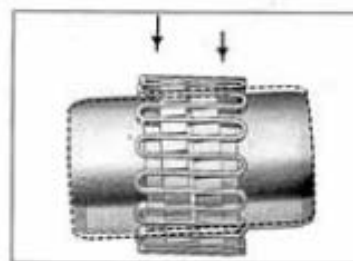
Under angular misalignment, the grid-groove design permits a rocking and sliding action of the lubricated grid and hubs without any loss of power through the resilient grid

- End Floating

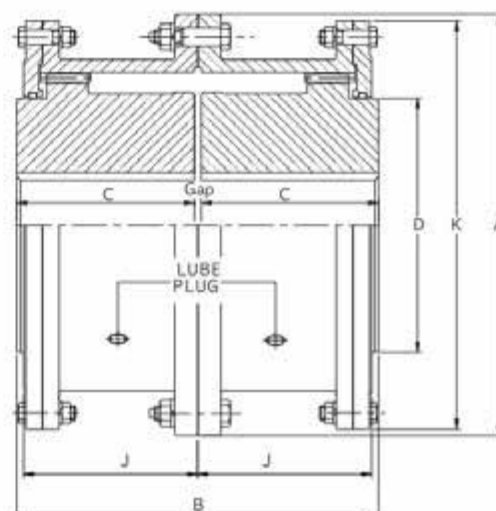
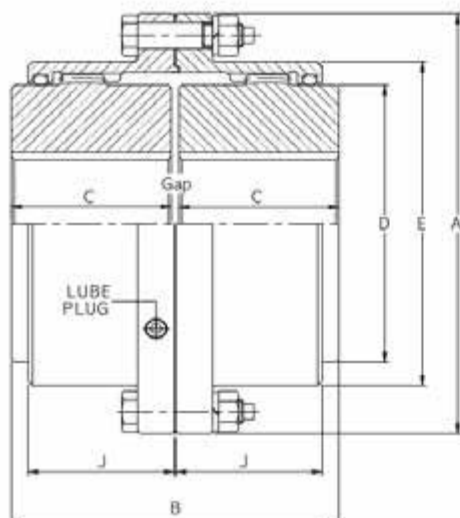
Unrestrained end float of driving and driven members is permitted because the grid slides freely in the lubricated grooves

- Torsional Flexibility

Torsional flexibility is the advantage of KCP Taper Grid Couplings, providing flexible accommodation to changing load conditions.



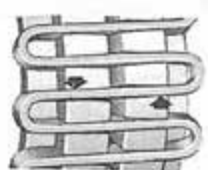
Type G20



Type g20, (Double Gear) Gear Coupling-AGMA

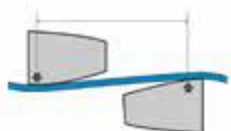
Size	Type G20 Standard Flanged Sleeve								Dimension(inch)					
	HP per 100 rpm	Torque Rating (lb-in)	Allow Speed rpm	Max bore da	Min bore da	Cplg. Wt(lb) G20	Lube wf lb	A	B	C	D	E	J	Gap
1010G	16	10,080	8,000	1,875	50	10	.09	4.56	3.50	1.69	2.70	3.30	1.53	.125
1015G	33	20,790	6,500	2,375	75	20	.16	6.00	4.00	1.94	3.40	4.14	1.88	.125
1020G	60	37,800	5,600	2,875	1.00	35	.25	7.00	5.00	2.44	4.14	4.98	2.34	.125
1025G	105	66,150	5,000	3,625	1.25	65	.50	8.38	6.25	3.03	5.14	6.10	2.82	.188
1030G	170	107,100	4,400	4,125	1.50	95	.80	9.44	7.37	3.59	6.00	7.10	3.30	.188
1035G	260	163,800	3,900	4,875	2.00	150	1.20	11.00	8.63	4.19	7.00	8.32	3.84	.250
1040G	430	270,900	3,600	5,750	2.50	215	2.00	12.50	9.75	4.75	8.25	9.66	4.38	.250
1045G	590	371,700	3,200	6,750	3.00	300	2.30	13.62	10.93	5.31	9.25	10.79	4.84	.312
1050G	795	500,900	2,900	7,375	3.50	420	3.90	15.31	12.37	6.03	10.00	12.04	5.54	.312
1055G	1,040	655,200	2,650	8,250	4.00	550	4.90	16.75	13.56	6.62	11.00	13.16	6.22	.312
1060G	1,270	800,100	2,450	9,125	4.50	675	7.00	18.00	15.13	7.41	12.00	14.41	6.66	.312
1070G	1,900	1,197,000	2,150	10,875	5.00	1070	9.60	20.75	17.75	8.69	14.00	16.73	7.70	.375

Size	Type G20 Standard Flanged Sleeve							Dimension(inch)						
	Torque Rating lb-in(millions)		Allow Speed rpm	Max bore da	Min bore da	Cplg. Wt(lb) G20	Lube wf lb	A	B	C	D	J	K	Gap
	Series	Series												
1080G	1,506	2,070	1,750	10.50	4.000	1150	21	23.25	20.02	9.82	14.00	9.56	22.50	.375
1090G	1,997	2,791	1,550	11.25	4.500	2170	27	26.00	22.26	10.88	15.50	10.44	25.25	.500
1100G	2,747	3,919	1,450	12.75	5.000	2870	33	28.00	24.50	12.00	17.50	11.56	27.50	.500
1110G	3,654	5,393	1,330	14.00	5.500	3700	39	30.50	26.74	13.12	19.50	12.69	29.50	.500
1120G	4,914	6,880	1,200	15.25	6.000	4660	46	33.00	28.26	13.88	21.50	13.44	32.50	.500



1. Grid in Light Load

The grid bears near the outer edges of the hub teeth. The long span between the points of contact remains flexible under load variations.



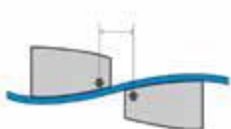
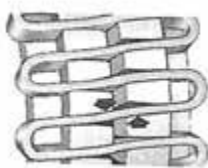
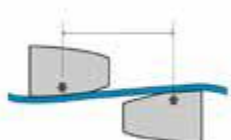
2. Grid in Normal Load

As the load increases, the distance between the contact points on the hub teeth is shortened, but a free span still remains flexible for shock loads.

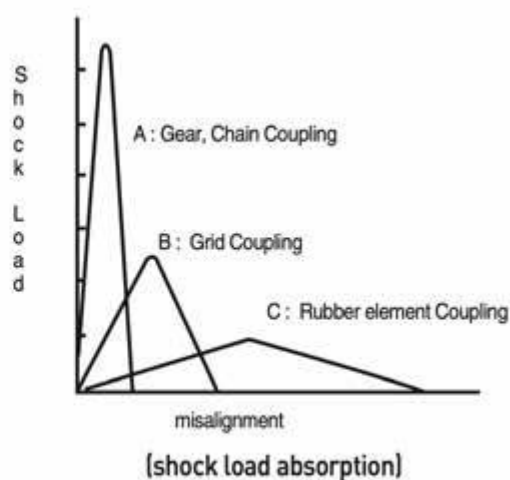
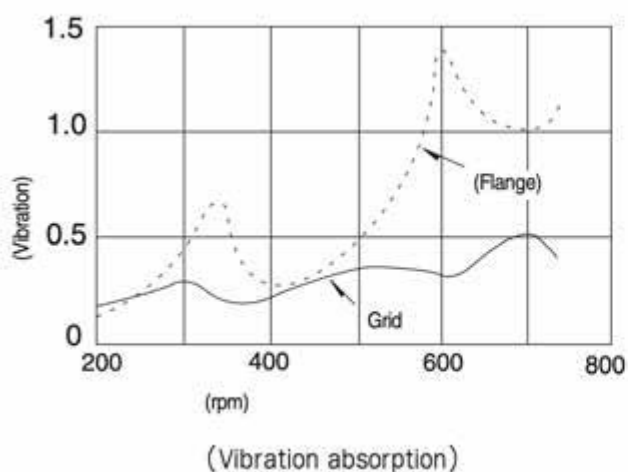


3. Grid in Shock Loads

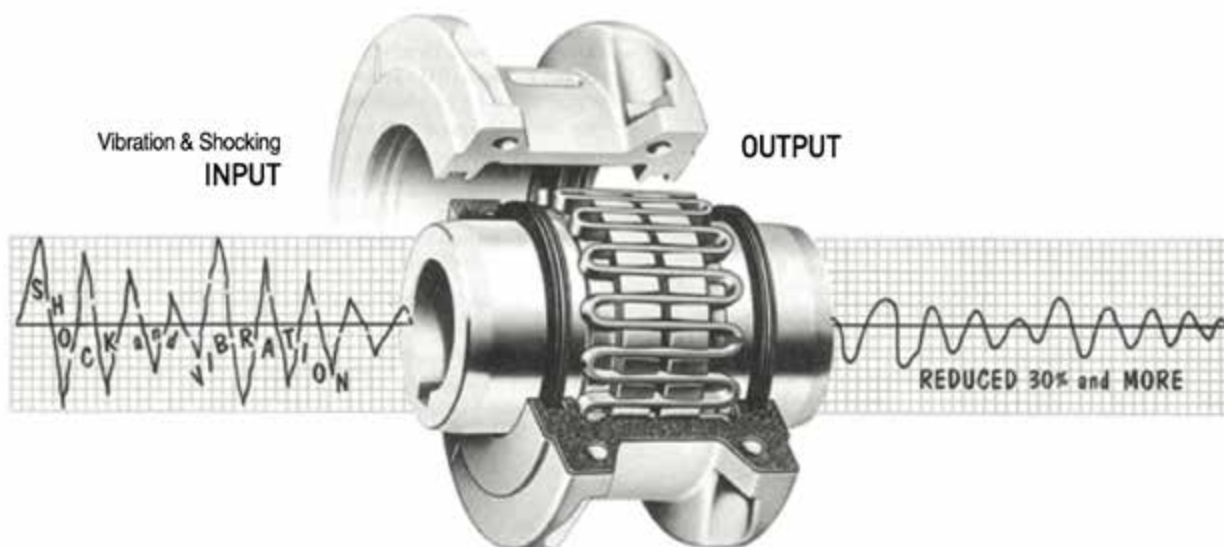
The coupling is flexible within its rated power capacity. Under extreme overloads, the grid bears and transmits full load on the hub teeth directly.



KCP Taper Grid coupling creates the excellent performance as shown below.



The absorption of mechanical vibration of Taper Grid coupling



MERITS

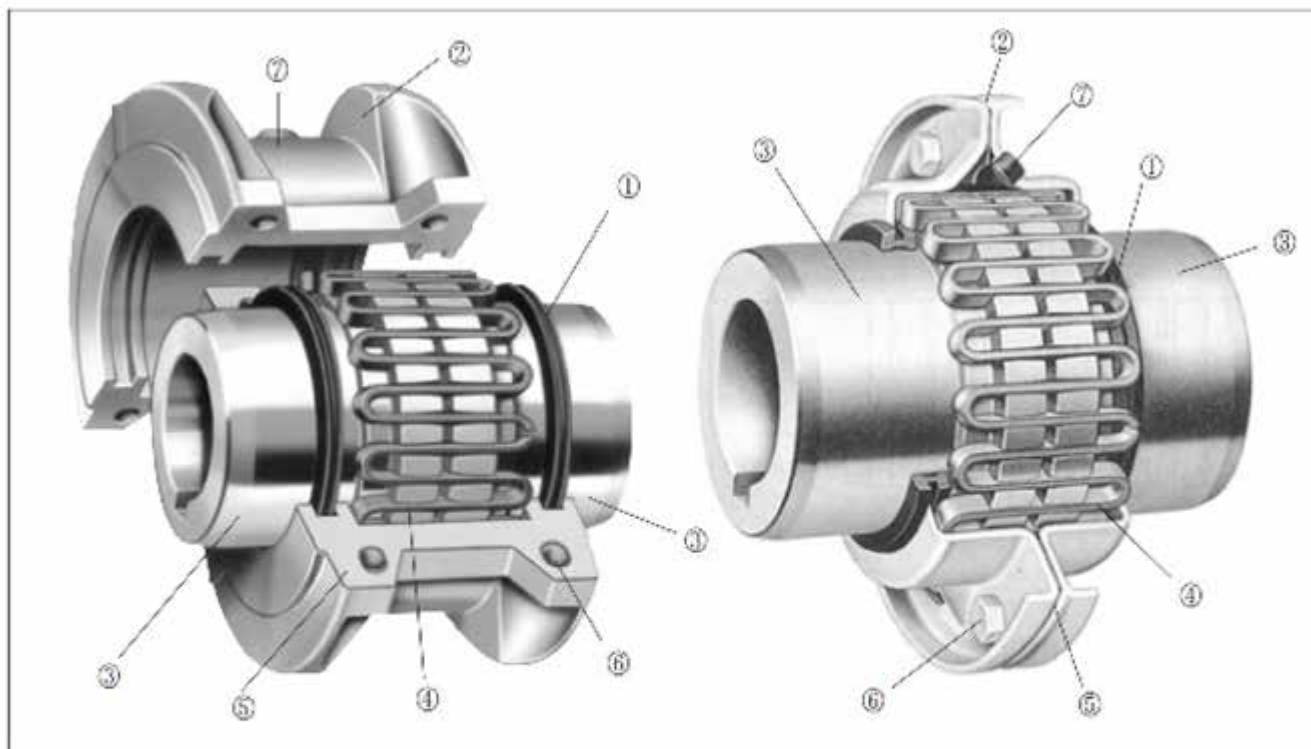
1. When overload occurs, grid breaks and prevents breaking shaft or machinery parts connected.
2. When the parallel misalignment is too severe, the relating machine is protected by the virtue of shearing Grid on Tooth.
3. The life of parts (Mechanical Seal and Bearing, etc) can be extended as twice or more.
4. Quick installation and easy maintenance reduce labor cost and down-time cost.
5. KCP Grid coupling is interchangeable with international major brands.
6. It always transmits the power fully (100%) in low noise.
7. You can use it at cheaper maintenance cost by changing damaged parts only.

2. Application

Pin-Bush Flange coupling and Chain Couplings have usually been used, but now using the KCP TAPER GRID COUPLINGS, you will get many benefits

1. When reduction of vibration and shock load is required.
2. When adequate power transmission under line misalignment is required.
3. When adequate power transmission under angular misalignment is required.
4. When adequate power transmission under end floating is required.
5. When it is necessary to prevent machinery part breakage under overload.
6. When reverse revolution is required.
7. When a smooth start is required.

3. Structure



Part	
1. Oil Seal	
2. H-Cover	
V-Cover	
3. Hub	
4. Grid	
5. Gasket	
6. Bolt	
7. Lub Plug	

4. Designation

KCP — 1020 — H/V

Profile

H : Horizontal split aluminum Cover

V : Vertical split steel Cover

Size No

KCP Couplings

KSAS : Full spacer type(Horizontal split cover)

KSFS : Half spacer type(Horizontal split cover)

KSBW : Brake wheel type(Horizontal split cover)

5. Selection of Method

1. Selection of Method size

By using the following formula, obtain Design Torque required.

$$T = 97,400 \frac{\text{kw}}{N} \times \text{S.F} \quad T = 71,620 \frac{\text{HP}}{N} \times \text{S.F}$$

T	= Design torque(kg · cm)
kw	= Power(kw)
HP	= Power(HP)
N	= Working revolution(rpm)
S·F	= Recommended service factor.

- Select the size with the same or with the greater value at the Basic Torque column, Refer to the maximum shaft diameters of the size selected, and then compare the shaft diameters of the application with the max. bore dia of the size selected. If the coupling bore is not suitable, select the larger size coupling.

- Special requirements

A. on calculating the torque required, use the lowest operating speed (N) of the application

B. If there are reverse motions repeated or frequent irregular kind changes, take service factor twice.

2.Example

When you select a COUPLING to connects 30HP, 1,1750rpm motor and rotary type pump. Motor shaft dia is 48mm and pump's 52mm.

- service factor of pump is 1.8

$$\text{Torque}(\text{kg} \cdot \text{cm}) = \frac{30 \times 71.620 \times 1.8}{1.750} = 2.210$$

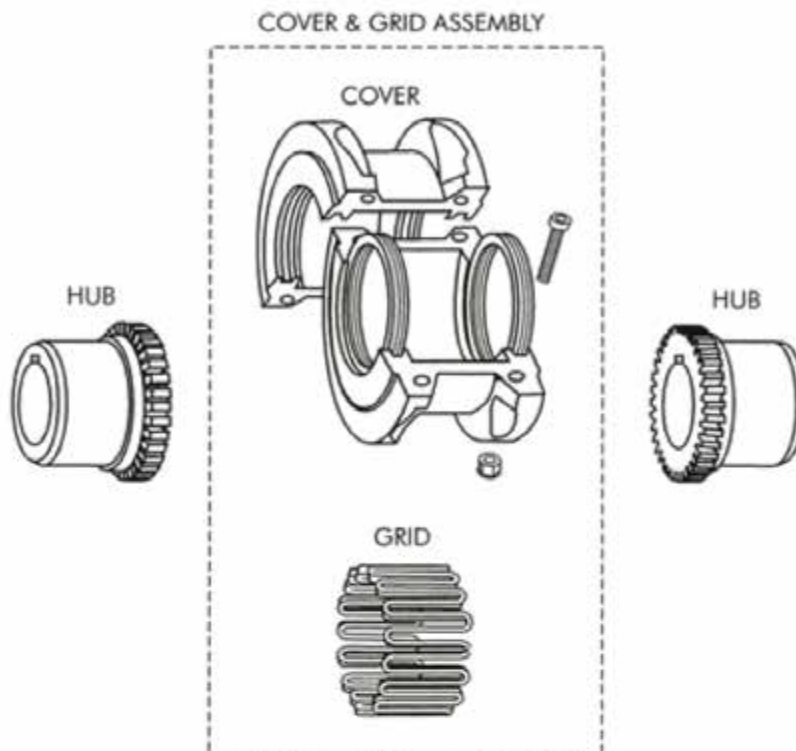
- Normal transmitting power is 30HP

The coupling size 1040 accepts the calculated torque 2210 · . And then compare the application shaft diameter sizes(52mm) to the maximum bore of the selected coupling size 1040(43 mm).

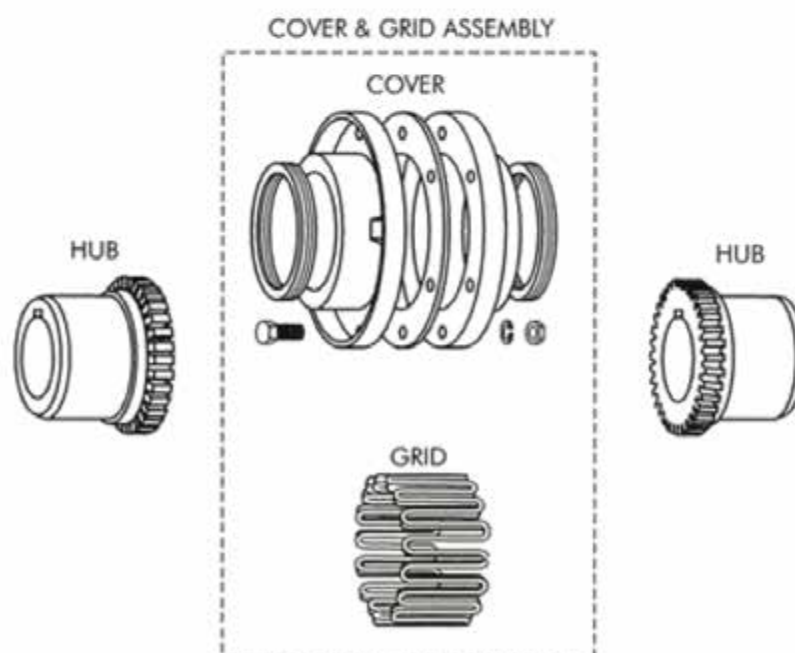
You will select the coupling size 1060 accepting upto 55mm shaft dia meter. The size also accepts the application motor speed 1750 rpm. Either H or V cover is available. Finally, the coupling size 1060 is selected.

6. Installation

Type H

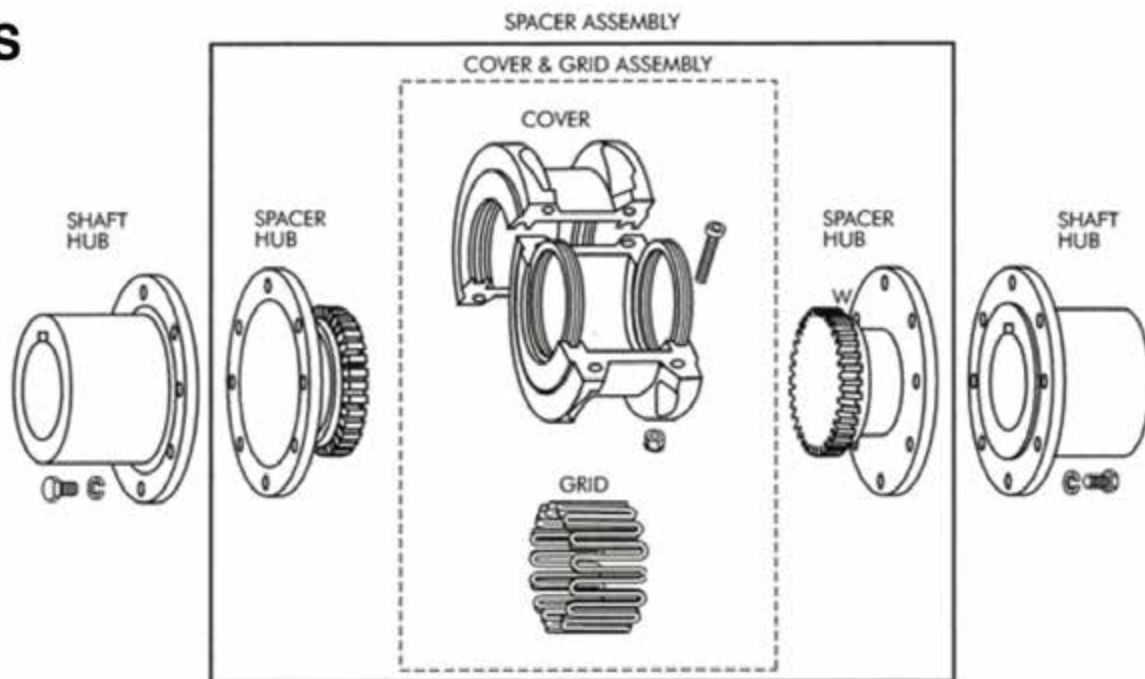


Type V



7. Installation

KSAS



KSFS

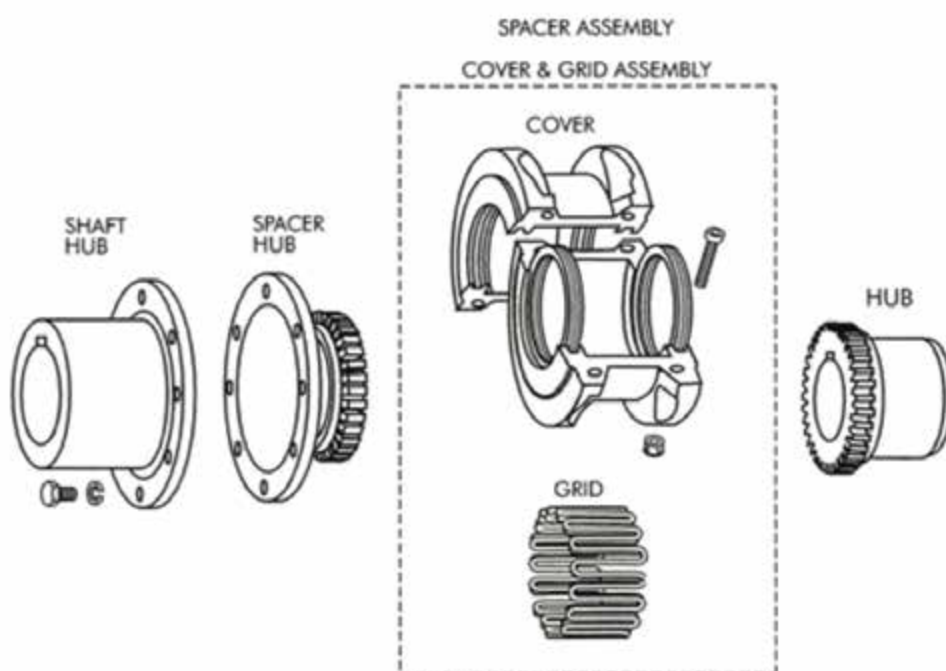
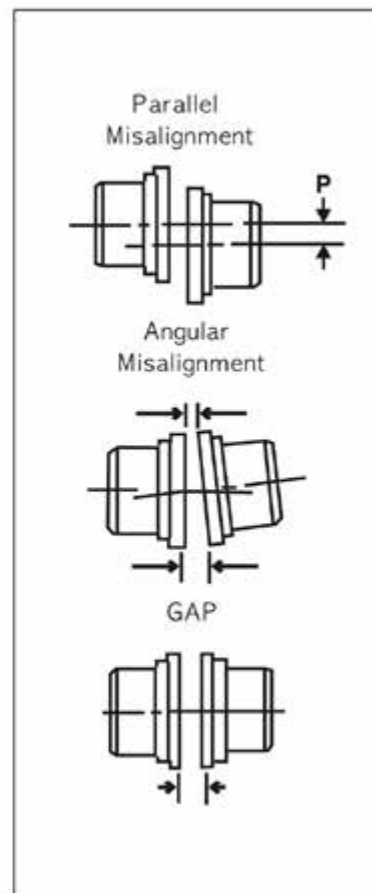


fig. 3 misalignment capacity

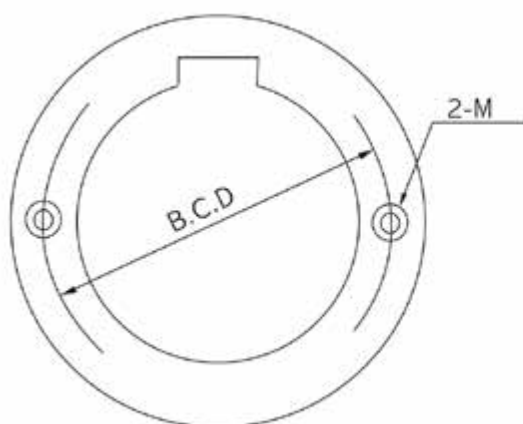
(Unit : mm)

Size	Recommended installation		Operating		Normal gap ±10%
	Parallel offset p	Angular(1/16°) X - Y	Parallel offset p	Angular(1/4°) X - Y	
1020	0.15	0.08	0.3	0.25	3
1030	0.15	0.08	0.3	0.30	3
1040	0.15	0.08	0.3	0.33	3
1050	0.20	0.10	0.4	0.41	3
1060	0.20	0.13	0.4	0.46	3
1070	0.20	0.13	0.4	0.51	3
1080	0.20	0.15	0.4	0.61	3
1090	0.20	0.18	0.4	0.71	3
1100	0.25	0.20	0.5	0.84	5
1110	0.25	0.23	0.5	0.91	5
1120	0.28	0.25	0.56	1.02	6
1130	0.28	0.30	0.56	1.19	6
1140	0.28	0.33	0.56	1.35	6
1150	0.30	0.41	0.6	1.57	6
1160	0.30	0.46	0.6	1.78	6
1170	0.30	0.51	0.6	2.01	6
1180	0.38	0.56	0.76	2.26	6
1190	0.38	0.61	0.76	2.46	6
1200	0.38	0.69	0.76	2.72	6



The life of coupling is reduced by excess of the limit.

8. Specification of Puller Holes



CPLG Size	B.C.D. (mm)	Bolt Size	CPLG Size	B.C.D. (mm)	Bolt Size
1070	74	M8	1150	227.5	M20
1080	89.5	M8	1160	260	M20
1090	106	M10	1170	306	M24
1100	121.5	M10	1180	341	M30
1110	136.5	M10	1190	373	M30
1120	150.5	M12	1200	414	M30
1130	185	M16	1210	540	M30
1140	205	M16	1220	570	M30

NB. Finer Power stocks up to 1150. larger sizes available on request

9. Lubrication and Handling

Choose high quality lubricant for KCP Taper Grid Couplings for good performance and long life.

1. Grease Lubrication

Grease on the grid & hub teeth before assembling covers.

Fill up grease through the lube plug of the assembled coupling.

2. Supplement

Add new grease every three months or 240-250 hours of operation

3. Replacement

Every 3 months, or every 4,000 hours operating you should replace all the deteriorated grease.

4. Selection

Choose grease according to the ambient temperature range in table 5.

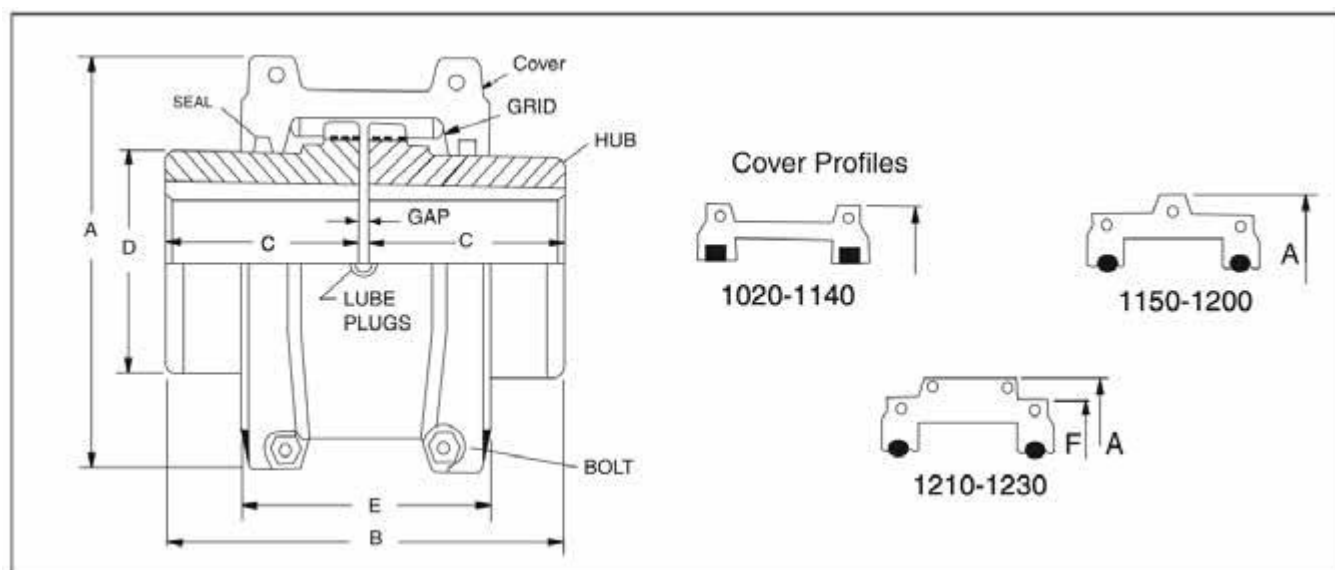
■ **Common Industrial Lubricants(NYGL Grade #2)**

Table5

Manufacture	Ambient Temperature Range:	
	0°F to 150°F (-18°C to 66°C)	-30°F to 100°F (-34°C to 38°C)
Amoco Oil Co.	Amolith Grease #2	Amolith Grease #2
Atlantic Richfield co.	Litholene HEP 2	Litholene HEP 2
Chevron U.S.A Inc.	Chevron Dura-Lith EP-2	Chevron Dura-Lith EP-2
Cities Service Co.	Citgo HEP-2	Citgo HEP-2
Conoco Inc.	EP Conolith #2	EP Conolith #2
Exxon Company, USA	Ronex MP	Ronex MP
Gulf Oil Corp.	Gulfcrown Grease #2	Gulfcrown Grease #2
E.F.Houghton & Co.	Cosmolube #2	Cosmolube #1
Impenrial Oil Ltd.	Esso MP Grease H	Lotemp EP
Keystone Div.(Pennwalt)	#81 Light	#84 Light
Mobil Oil Corp.	Mobilux EP111	Mobilux #1
Phillips Petroleum Co.	IB & RB grease	Philube IB & RB grease
Shell Oil Co.	Alvania Grease #2	Alvania Grease #2
Standard Oil Co.(OH)	Factran #2	Factran #2
Sun Oil Company	Prestige 42	Prestige 42
Texaco Lubricants	Starplex HD 2	Multifac EP2
Union Oil Co.(CA)	Union Undoba #2	Union Undoba #2
Valvoline Oil Co.	Val-Lith EP #2	Val-Lith EP #2

■ **Note:** For feed processing in dusty, check with lube manufacture for approved lubricants.

10. Dimensions

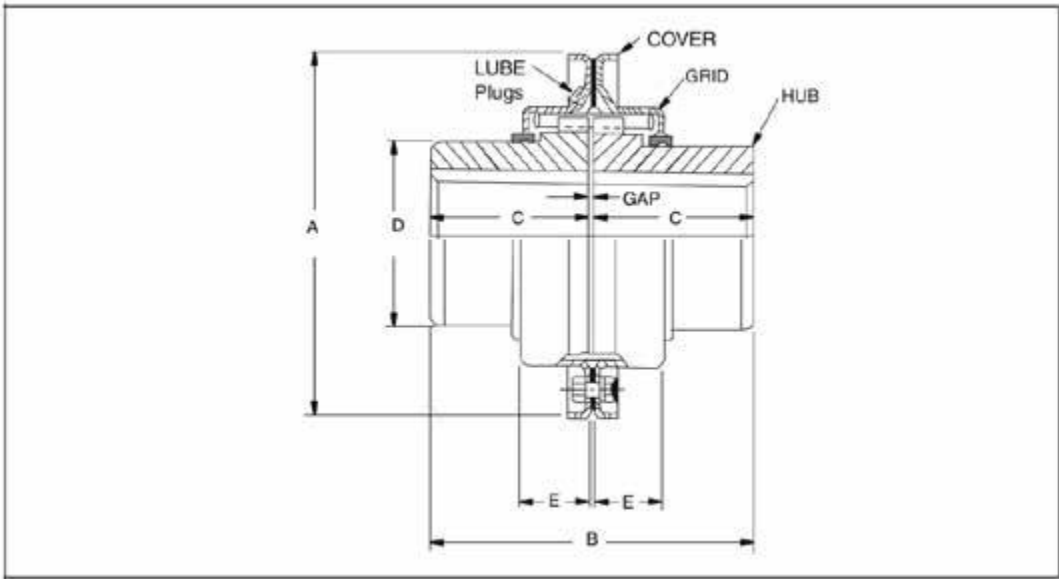


Type H (Horizontal Split Aluminium Cover)

Size	HP Per 100 rpm	Max. Speed (rpm)	Basic Torque (kg · cm)	Bore Dia (mm)		Dimension (mm)					Gap (mm)			Cplg Wt (kg)	Lube Wt (kg)	Size
				Max.	Min.	A	B	C	D	E	Min.	Normal	Max.			
1020H	0.68	4,500	486	30	00012	101.6	098.0	047.5	039.7	066.5	1.5	3	4.5	1.9	0.03	1020
1030H	1.93	4,500	1,383	35	00012	110.0	098.0	047.5	049.2	068.3	1.5	3	4.5	2.6	0.03	1030
1040H	3.22	4,500	2,304	43	00012	117.5	104.6	050.8	057.1	070.0	1.5	3	4.5	3.4	0.05	1040
1050H	5.63	4,500	4,033	50	00012	138.0	123.6	060.3	066.7	079.5	1.5	3	4.5	5.4	0.05	1050
1060H	8.85	4,350	6,337	55	00019	150.5	130.0	063.5	076.2	092.0	1.5	3	4.5	7.3	0.09	1060
1070H	13	4,125	9,217	65	00019	161.9	155.4	076.2	087.3	095.0	1.5	3	4.5	10	0.11	1070
1080H	27	3,600	19,010	78	027.0	194.0	180.8	088.9	104.8	116.0	1.5	3	4.5	18	0.17	1080
1090H	48	3,600	34,564	95	027.0	213.0	199.8	098.4	123.8	122.0	1.5	3	6	25	0.25	1090
1100H	81	2,400	58,183	107	00041	250.0	245.7	120.6	142.0	155.5	1.5	3	6	42	0.43	1100
1110H	121	2,250	86,411	117	00041	270.0	258.5	127.0	160.3	161.5	1.5	4.5	9.5	54	0.51	1110
1120H	177	2,025	126,736	136	00060	308.0	304.4	149.2	179.4	191.5	1.5	4.5	9.5	81	0.73	1120
1130H	257	1,800	184,343	165	00067	346.0	329.8	161.9	217.5	195.0	1.5	6	12.5	121	0.91	1130
1140H	370	1,650	264,993	184	00067	384.0	371.6	182.8	254.0	201.0	1.5	6	12.5	178	1.13	1140
1150H	515	1,500	368,686	203	00108	453.1	371.8	182.9	269.2	271.3	1.5	6	12.5	234	1.95	1150
1160H	724	1,350	518,465	228	120.7	501.4	402.2	198.1	304.8	278.9	1.5	6	12.5	317	2.81	1160
1170H	965	1,225	691,286	279	133.4	566.4	437.8	215.9	355.6	304.3	1.5	6	12.5	448	3.49	1170
1180H	1,338	1,100	958,584	311	152.4	629.9	483.6	238.8	393.7	321.1	1.5	6	12.5	619	3.76	1180
1190H	1,770	1,050	1,267,358	339	152.4	675.6	524.2	259.1	436.9	325.1	1.5	6	12.5	776	4.40	1190
1200H	2,413	900	1,728,216	361	177.8	756.9	564.8	279.4	497.8	355.6	1.5	6	12.5	1,057	5.62	1200
1210H	3,230	820	2,304,288	366	177.8	844.5	622.3	304.8	533.4	431.8	3.0	13	24.0	1,424	10.50	1210
1220H	4,350	730	3,110,788	411	203.2	820.7	622.9	325.0	571.5	490.2	3.0	13	24.0	1,784	16.05	1220
1230H	5,640	680	4,438,775	450	250.0	1,003.3	703.8	345.4	609.6	546.1	3.0	13	24.0	2,267	24.00	1230

■ Coupling weight, with unbored hub assembly.

NB. Finer Power stocks up to 1150. Larger sizes available on request.



Type V (Vertical Split Steel Cover)

Size	HP Per 100 rpm	Max. Speed (rpm)	Basic Torque (kg · cm)	Bore Dia (mm)		Dimensions (mm)					Gap (mm)			Cplg Wt (kg)	Lub Wt (kg)	Size
				Max.	Min.	A	B	C	D	E	Min.	Normal	Max.			
1020	0.68	6,000	486	30	012.7	111.1	098.0	047.5	039.7	024.2	1.5	3	4.5	2.0	0.03	1020
1030	1.93	6,000	1,383	36	012.7	120.7	098.0	047.5	049.2	025.0	1.5	3	4.5	2.6	0.03	1030
1040	3.22	6,000	2,304	44	012.7	128.5	104.6	050.8	057.1	025.7	1.5	3	4.5	3.4	0.05	1040
1050	5.63	6,000	4,033	50	012.7	147.6	123.6	060.3	066.7	031.2	1.5	3	4.5	5.4	0.05	1050
1060	8.85	6,000	6,337	57	019.1	162.0	130.0	063.5	076.2	032.2	1.5	3	4.5	7.3	0.09	1060
1070	13	5,500	9,217	65	019.1	173.0	155.4	076.2	087.3	033.7	1.5	3	4.5	10.4	0.11	1070
1080	27	4,750	19,010	79	027.0	200.0	180.8	088.9	104.8	044.2	1.5	3	4.5	17.7	0.17	1080
1090	48	4,000	34,564	95	027.0	231.8	199.8	098.4	123.8	047.7	1.5	3	6	25.4	0.25	1090
1100	81	3,250	58,183	107	041.3	266.7	245.7	120.6	142.0	060.0	1.5	3	6	42.2	0.43	1100
1110	121	3,000	86,411	117	041.3	285.8	258.5	127.0	160.3	064.2	1.5	4.5	12.5	54.4	0.51	1110
1120	177	2,700	126,736	136	060.3	319.0	304.4	149.2	179.4	073.4	1.5	4.5	12.5	81.6	0.73	1120
1130	257	2,400	184,343	165	066.7	377.8	329.8	161.9	217.5	075.1	1.5	6	12.5	122.5	0.91	1130
1140	370	2,200	264,993	184	066.7	416.0	371.6	182.8	254.0	078.2	1.5	6	12.5	180.1	1.13	1140
1150	515	2,000	368,686	203	108.0	476.3	371.8	182.9	269.2	106.9	1.5	6	12.5	230.0	1.95	1150
1160	724	1,750	518,465	228	120.7	533.4	402.2	198.1	304.8	114.3	1.5	6	12.5	321.1	2.81	1160
1170	965	1,600	691,286	279	133.4	584.2	437.8	215.9	355.6	119.4	1.5	6	12.5	448.2	3.49	1170
1180	1,338	1,400	958,584	311	152.4	630.0	483.6	238.8	393.7	130.0	1.5	6	12.5	591.0	3.76	1180
1190	1,770	1,300	1,267,358	339	152.4	685.0	524.2	259.1	436.9	135.0	1.5	6	12.5	761.0	4.40	1190
1200	2,413	1,100	1,728,216	361	177.8	737.0	564.8	279.4	497.8	145.0	1.5	6	12.5	1,021.0	5.62	1200

* Coupling weight without Bore machining

Couplings Comparison Chart

Selection Criterion	Rigid	Chain	Gear	Taper Grid	Curved Tooth Gear	HRC	Jaw	Flexible Jaw	Flexible Pin Couplings	Curved Jaw (Rotex)	Cone Ring	Tyre	Max Dynamic (Omega Equivalent)
Torque Range (Nm)	Up to 11300	217-8786	1138-135242	47-25980	18-160	31-3150	3.5-280	12.74-470	19000-360000	10-3600	50-15140	24-3770	21-19230
Speed Capability	Fair	Good	Excellent	Excellent	Fair	Good	Good	EXCELLENT	GOOD	Excellent	Fair	Good	Excellent
Shaft Size Range - mm	11mm-125mm	14mm-110mm	13mm-255mm	12mm-184mm	8mm-41mm	25mm-90mm	14mm-60mm	7MM - 55MM	19-60	6mm-100mm	12mm-150mm	10mm-75mm	35mm-124mm
Bore Types	Taperlock	Pilotbore	Pilotbore	Pilotbore	Pilotbore	Taperlock & Pilotbore	Pilotbore + Bore & Keyed Range	PILOT BORE	PILOT BORE	Taperlock & Pilotbore	Taperlock & Pilotbore	Taperlock	Pilotbore & Taperlock
Misalignment Capability (Maximum Angular - Deg.)	0	1	1.5	0.25	3-5	0.2-1.7	1	1	.15-.10	0.8-1.2	0.2-1.7	4	4
Temperature Range Standard Element	-10C to +60C	-10C to +60C	-40C to +100C	-18C to +70C	-25C to +66C	-40C to +100C	-40C to +100C	"-40C TO +100C"	"-40C TO +80C"	-4C to +120C	Up to +70C	-50C to +50C	Up to +120C
Ease of Installation	Easy	Easy	Fair	Fair	Easy	Easy	Easy	EASY	FAIR	Easy	Easy	Fair	Fair
Damping Capacity	Poor	Fair	Poor	Fair	Poor	Good	Good	EXCELLENT	GOOD	Good	Good	Excellent	Excellent

BARE ESSENTIALS CHECKLIST FOR DRIVE SELECTION:

COUPLING SELECTION
Power (kw or Hp)
Speed (RPM)
Shaft Sizes
Once you have this information you can contact the team at Finer Power Transmission to help you select the appropriate drive.

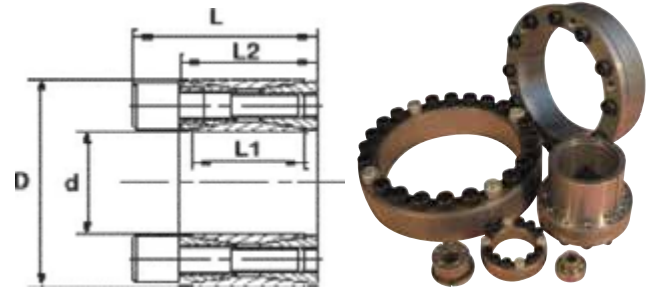
CONVERSION CONSTANTS

Length
Millimetres x 0.039370 = inches
Metres x 39.370 = inches
Metres x 3.2808 = Feet
Kilometres x 0.6213 = Miles
Inches x 25.4001 = Millimetres
Inches x 0.0254 = Metres
Feet x 0.30480 = Metres
Miles x 1.61 = Kilometres
Power
Kilowatt (kw) x 1.340 = horse power (hp)
Horse Power (hp) x 0.746 = kilowatt (kw)
Torque
Newton metre (Nm) x 0.735 = Pounds feet (lbf ft)
Newton metre (Nm) x 8.85 = Pounds inches (lbf in)
Kilogram force metre (kgf m) x 9.81 = Newton metre (Nm)
Weight
Kilogram (kg) x 2.20462 = Pound (lb)
Metric Ton (1000kg) x 0.98421 = Ton (2240lb)

Self Locking Units (Type-01)

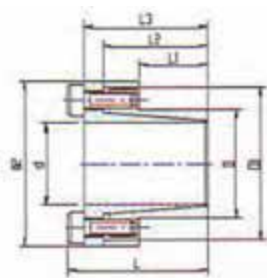
Locking Assemblies provide reliable, high strength keyless connections by converting locking screw clamp loads into radial contact pressures applied simultaneously to both the shaft and the bore of the mounted component. The resulting zero-backlash mechanical interference fit will accommodate high torque, 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 this device.



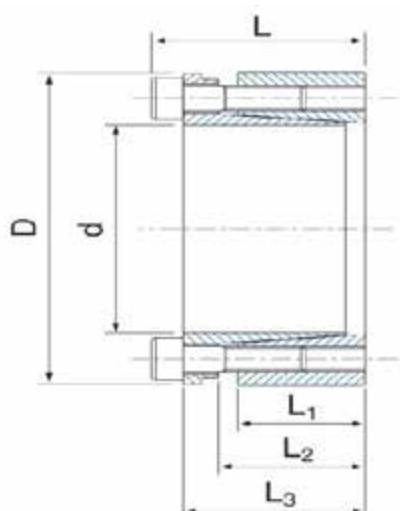
Dimensions					Performance		Pressure		Clamping Screws DIN912-12.9		
d	D	L1	L2	L	Transmissible Torque KN	Transmissible Axial Force Nm	Shaft Surface Pressure N/mm2	Hub Surface Pressure N/mm2	No.	Size	Screws Tightening Torque Nm
20	47	17	20	26	31	313	272	116	8	M6x18	14.9
25	50	17	20	26	35	441	245	123	9	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
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

Self Locking Units (Type-02) (Self Centering)



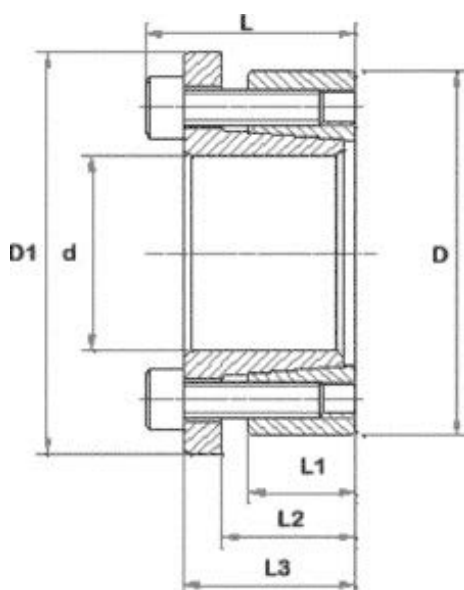
Size								Passing Axis Pressure	Passing Torque	Contracting Pressure		DIN912-12.9 Locking screw		
d	D	L1	L2	L3	L	D2	D1	Ft KN	Mt Nm	Axis P N/mm ²	Hub P1 N/mm ²	Quantity	Size	Locking Torque Ts Nm
8	15	12	21	24	28	28	25	10	39	299	159	4	M4x10	5.2
9	16	14	23	27	31	32	28	10	44	227	128	4	M4x12	5.2
10	16	14	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
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

Self Locking Units (Type-04) (Self Centering)



Dimensions						Transmissible Torque KN	Transmissible Axial Force Nm	Pressure		Clamping Screws DIN912-12.9		
d	D	L1	L2	L3	L			Shaft Surface Pressure N/mm ²	Hub Surface Pressure N/mm ²	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

Self Locking Units (Type-07) (Self Centering)



Dimensions							Transmissible Torque KN	Transmissible Axial Force Nm	Pressure		Clamping Screws DIN912-12.9		
d	D	D1	L1	L2	L3	L			Shaft Surface Pressure N/mm ²	Hub Surface Pressure N/mm ²	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
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

Self Locking Units (Type-19) (Self Centering)



Dimensions					Transmissible Torque Nm	Transmissible Axial Force Kn	Pressure		Clamping Screws DIN912-12.9		
d	D	L	L2	L1			Shaft Surface Pressure N/mm ²	Hub Surface Pressure N/mm ²	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

Self Locking Units Interchange Chart

REACH (FINER)	01	02	04	07	19
B-LOC	B-400	B-800	B-700A	B-106	B-115
BIKON	4000	8000	1003	7000B	1012
BONFIX	CCE2000	CCE1000	CCE4000	CCE4600	
Chiaravalli	RCK40	RCK80	RCK70	RCK16	RCK11
COMPOMAC	CONEX A	CONEX B	CONEX D	CONEX ES/DS	CONEX G
EUROCONIC	210	55	54/N	914	
FENLOCK	FLK200	FLK110	FLK130	FLK133	FLK450
HAUSMANN	112	110	131	136	
ITALBLOCK	CN210	CN55	CN54/N	CN914	
KANA	200			201	
KINLOK	LOK30	LOK10	LOK20A		
KTR	KTR100/1	KTR250	KTR200	KTR206	KTR400
MAV	2005	5061	6901	1061	4061
OPTIBELT	1	2	4	7	
PETER GERWAH	2001			2002.3	
Poggi	CAL-A	CAL-B	CAL-D	CAL-ES	
QUANTUM	30	10	20		70
RC	40	80	70	16	
RINGBLOK	1120	1100	1300.1	1720	1800
Ringfeder	RFN7012	RFN7110	RFN7013.0	RFN7013.1	RFN7015
RINGSPANN	RLK200	RLK110	RLK130	RLK133	RLK450
SIT	Type 1	Type 3	Type 5A		
TAS - Schafer	TAS 3020			TAS 3006	
TOLLOK	TLK200	TLK110	TLK130	TLK133	TLK450
TSUBAKI	AS	TF			
VBLOK	VK400	VK800B	VK700	VK130	
VICENTINA	100	800	700	160	

Type 1 is not self centering.

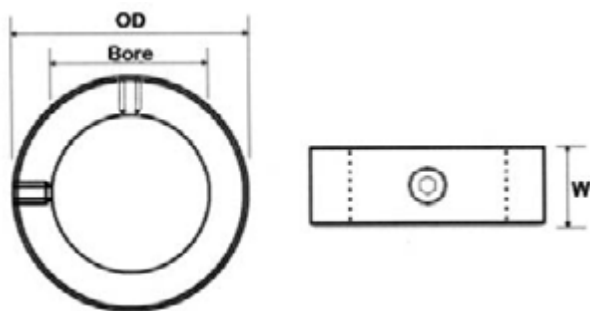
Type 2, Type 4, Type 7 & Type 19 is self centering.

NOTE: The above comparison chart is accurate to the best of our knowledge.

The possibility exists that there might be some dimensional and capacity differences, please check torque capabilities are adequate before supplying.

Set screw collars are most effective when used on a shaft made of a material which is softer than the set screw.

Steel - Cold Drawn Bar



Metric Shaft Collars

Part No.	Bore	O.D.	W	Screw Size	Approx 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

Bore Tolerances	
Bore	Tolerances
All	+0.01mm
	0.05mm
Width Tolerance	
All	+0.08
	-0.25

Imperial Shaft Collars

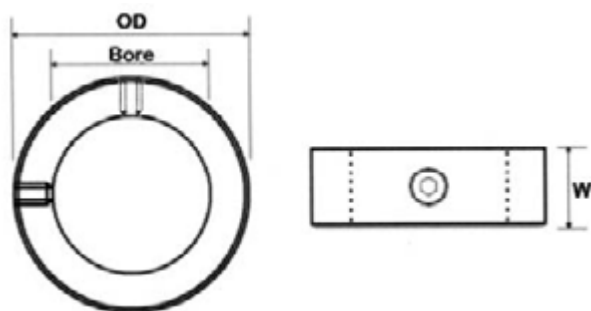
Part No.	Bore	O.D.	W	Screw Size	Approx Kg
FSC-1/4	0.250	0.500	0.281	M4*4	0.01
FSC-5/16	0.312	0.625	0.308	M4*4	0.01
FSC-3/8	0.375	0.750	0.375	M6*5	0.01
FSC-1/2	0.500	1.000	0.438	M6*5	0.03
FSC-5/8	0.625	1.125	0.500	M6*6	0.04
FSC-3/4	0.750	1.250	0.563	M6*6	0.05
FSC-7/8	0.875	1.500	0.563	M6*6	0.07
FSC-1	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

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"

Set screw collars are most effective when used on a shaft made of a material which is softer than the set screw.

304 Stainless Steel



Metric Shaft Collars

Part No.	Bore	O.D.	W	Screw Size	Approx 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

Bore Tolerances	
Bore	Tolerances
All	+0.01mm
	0.05mm

Width Tolerance	
	Tolerances
All	+0.08
	-0.25

Imperial Shaft Collars

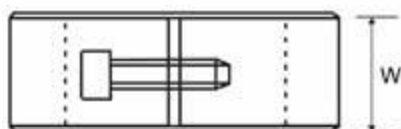
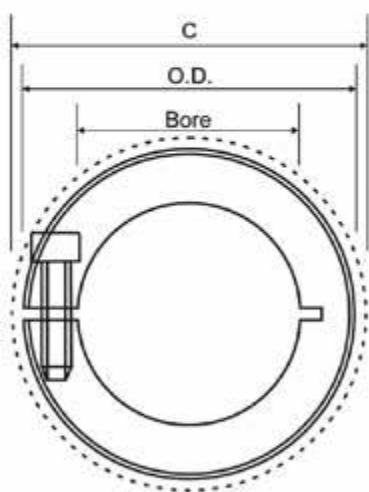
Part No.	Bore	O.D.	W	Screw Size	Approx Kg
SSFSC-3/8	0.375	0.750	0.375	M6*5	0.01
SSFSC-1/2	0.500	1.000	0.438	M6*5	0.03
SSFSC-5/8	0.625	1.125	0.500	M6*6	0.04
SSFSC-3/4	0.750	1.250	0.563	M6*6	0.05
SSFSC-1	1.000	1.625	0.625	M6*6	0.10
SSFSC-1-1/4	1.250	2.000	0.688	M8*8	0.16
SSFSC-1-1/2	1.500	2.250	0.750	M8*8	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

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

Width Tolerance	
	Tolerances
All	+0.003"
	-0.010"

Shaft Collars

One Piece Split (Clamp Type) Metric



Part No.	Bore (mm)	O.D. (mm)	C (mm)	W (mm)
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

Features

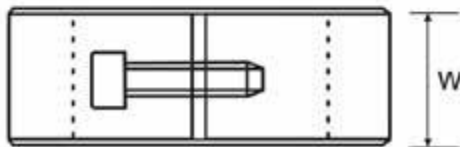
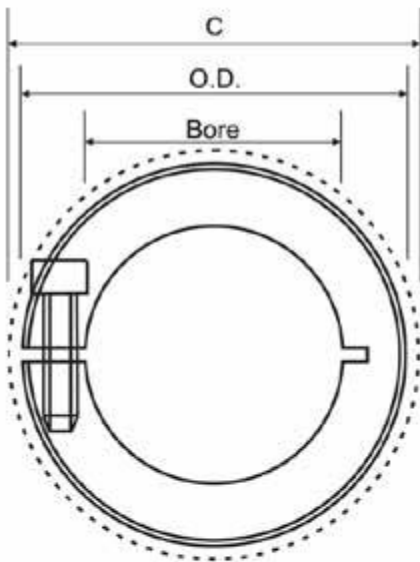
- Does not mar the shaft.
- Single point faced.
- Balanced versions available.
- Additional sizes available.

-Width tolerance:

All +.08 mm
 -.25 mm

Shaft Collars

One Piece Split (Clamp Type) Imperial



Part No.	Bore (mm)	O.D. (in)	C (in)	W (in)
FSC-1/4-CL	0.2500	0.625	0.773	0.281
FSC-3/8-CL	0.3750	0.875	1.027	0.343
FSC-1/2-CL	0.6250	1.125	1.281	0.406
FSC-5/8-CL	0.6250	1.313	1.500	0.437
FSC-3/4-CL	0.7500	1.500	1.808	0.500
FSC-7/8-CL	0.8750	1.625	1.916	0.500
FSC-1-CL	1.0000	1.750	2.032	0.500
FSC-1-1/8-CL	1.1250	1.875	2.140	0.500
FSC-1-1/4-CL	1.2500	2.063	2.295	0.500
FSC-1-3/8-CL	1.3750	2.250	2.465	0.563
FSC-1-1/2-CL	1.5000	2.375	2.578	0.563
FSC-1-5/8-CL	1.6250	2.625	2.935	0.688
FSC-1-3/4-CL	1.7500	2.750	3.046	0.688
FSC-1-7/8-CL	1.8750	2.875	3.160	0.688
FSC-2-CL	2.0000	3.000	3.273	0.688

Features

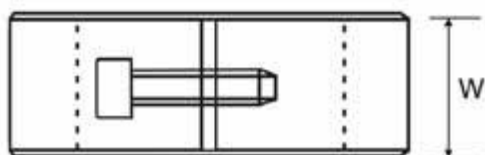
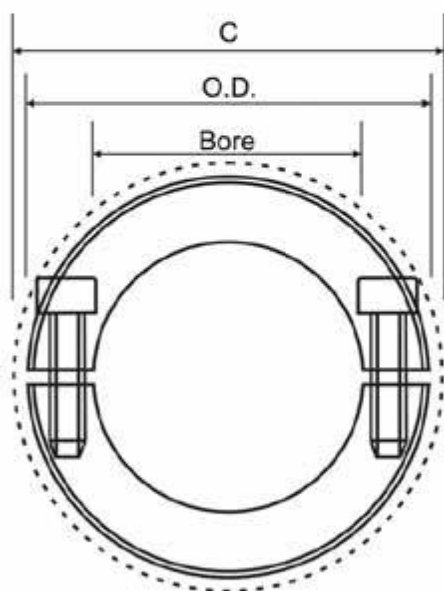
- Does not mar the shaft.
- Single point faced.
- Balanced versions available.
- Additional sizes available.

-Width tolerance:

All $+0.003''$
 $-0.010''$

Shaft Collars

Two Piece Split (Clamp Type) Metric



Part No.	Bore (mm)	O.D. (mm)	C (mm)	W (mm)
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

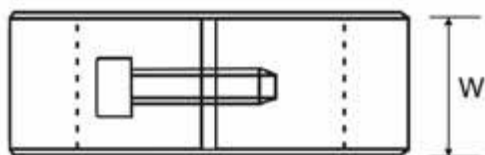
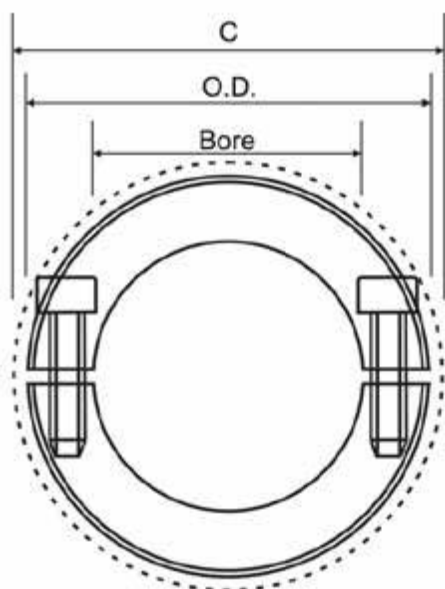
Features

- Does not mar the shaft.
- Single point faced.
- Available with keyways.
- Opposing screws available.
- Additional sizes available.

-Width tolerance:

All +.08 mm
 -.25 mm

Shaft Collars Two Piece Split (Clamp Type) Imperial



Part No.	Bore (mm)	O.D. (mm)	C (mm)	W (mm)
FSC-1/4-SP	0.2500	0.625	0.773	0.281
FSC-3/8-SP	0.3750	0.875	1.027	0.343
FSC-1/2-SP	0.5000	1.125	1.281	0.406
FSC-5/8-SP	0.6250	1.313	1.500	0.437
FSC-3/4-SP	0.7500	1.500	1.808	0.500
FSC-7/8-SP	0.8750	1.625	1.916	0.500
FSC-1-SP	1.0000	1.750	2.032	0.500
FSC-1-1/8-SP	1.1250	1.875	2.140	0.500
FSC-1-1/4-SP	1.2500	2.063	2.295	0.500
FSC-1-3/8-SP	1.3750	2.250	2.465	0.563
FSC-1-1/2-SP	1.5000	2.375	2.578	0.563
FSC-1-5/8-SP	1.6250	2.625	2.935	0.688
FSC-1-3/4-SP	1.7500	2.750	3.046	0.688
FSC-1-7/8-SP	1.8750	2.875	3.160	0.688
FSC-2-SP	2.0000	3.000	3.273	0.688

Features

- Does not mar the shaft.
- Single point faced.
- Available with keyways.
- Opposing screws available.
- Additional sizes available.

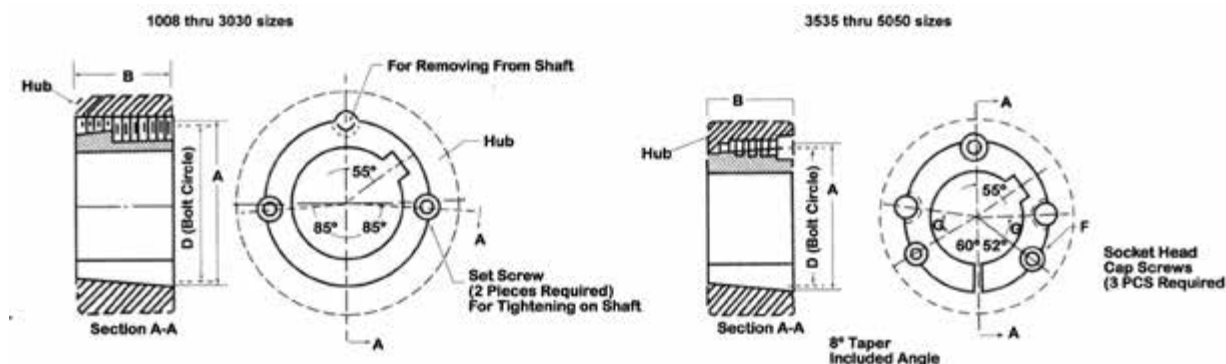
-Width tolerance:
All +.003"
 -.010"

Taper Lock Bushes

The Taper Lock Bush is a tried and proven method for fixing a driven device to a shaft. The simple design allows for easy maintenance which is a simple easy-on, easy off process.

Finer Power Transmissions stocks a range of items that are used in conjunction with Taper Lock Bushes including sprockets, pulleys and couplings.

Taper Lock Bushes come in a variety of bore sizes, in both metric and imperial.



Bush	A	B	D	G	Set Crews Dia. x Len.
1008	35.2	22.3	33.73	-	1/4 x 1/2
1108	38.38	22.3	36.92	-	1/4 x 1/2
1210	47.62	25.4	44.44	-	3/8 x 5/8
1215	47.62	38.1	44.44	-	3/8 x 5/8
1610	57.15	25.4	53.97	-	3/8 x 5/8
1615	57.15	38.1	53.97	-	3/8 x 5/8
2012	69.85	31.8	66.68	-	7/16 x 7/8
2017	69.85	44.5	66.68	-	7/16 x 7/8
2517	85.73	44.5	82.55	-	1/2 x 1
2525	85.73	63.5	82.56	-	1/2 x 1
3020	107.96	50.8	101.6	-	5/8 x 1-1/4
3030	107.96	76.2	101.6	-	5/8 x 1-1/4
3525	127	63.5	122.68	40	1/2 x 1-1/2
3535	127	89	122.68	40	1/2 x 1-1/2
4030	146.05	76.2	140.72	40	5/8 x 1-1/2
4040	146.05	101.5	140.72	40	5/8 x 1-3/4
4545	161.93	114.3	155.7	40	3/4 x 2
5050	177.8	127	170.69	37	7/8 x 2-1/4

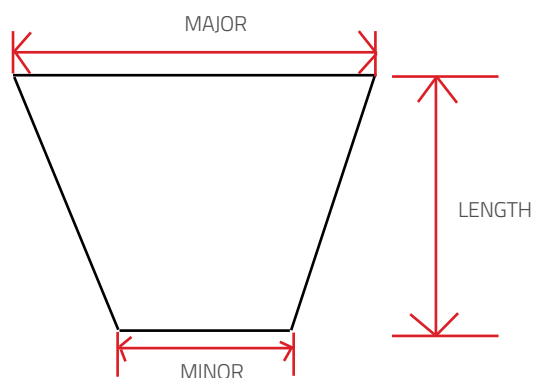
Note: 1008 – 3030 require two screws

3535 – 5050 requires three screws

Taper Lock Bushes Dimensions

Taper Bush	Length (mm)	Major Dia (mm)	Minor Dia (mm)
1008	22.2	35	31.4
1108	22.2	38	34.89
1210	25.4	47.5	43.95
1215	38.1	47.5	42.17
1310	25.4	51	47.45
1610	25.4	57	53.45
1615	38.1	57	51.67
2012	31.7	70	65.57
2517	44.5	85.5	79.28
2525	63.5	85.5	76.62
3020	50.8	108	100.89
3030	76.2	108	97.34
3535	88.9	127	114.57
4040	101.6	146	131.8
4545	114.3	162	146
5050	127.0	177.5	159.74
6050	127.0	235	217.24
7060	152.4	260	238.69
8065	165.1	285.7	262.21
10085	215.9	375	344.81
12100	254.0	438	402.48

Please note that minor diameters whilst expressed to two decimal places, must not be guaranteed as accurate to two places



Metric Taper Lock Bushes

Bore	Keyway (W x D)	App. Kg
1008		
10	4x4	0.14
12	4x4	0.13
14	5x5	0.13
15	5x5	0.13
16	5x5	0.12
17	5x5	0.1
18	6x6	0.12
19	6x6	0.1
20	6x6	0.1
22	6x6	0.1
24	8x7	0.09
25	8x7	0.08
1108		
9	3x3	0.15
10	4x4	0.16
11	4x4	0.16
12	4x4	0.16
14	5x5	0.16
15	5x5	0.15
16	5x5	0.14
17	5x5	0.12
18	6x6	0.14
19	6x6	0.13
20	6x6	0.13
22	6x6	0.12
24	8x7	0.11
25	8x7	0.1
28	8x7	0.09
1210		
11	4x4	0.3
12	4x4	0.28
14	5x5	0.28
15	5x5	0.27
16	5x5	0.27
17	5x5	0.24
18	6x6	0.26
19	6x6	0.25
20	6x6	0.25
22	6x6	0.23
24	8x7	0.22
25	8x7	0.21
28	8x7	0.19
30	8x7	0.17
32	10x8	0.15
1215		
12	4x4	0.4
14	5x5	0.39
16	5x5	0.38
18	6x6	0.37
19	6x6	0.36
20	6x6	0.35
22	6x6	0.33
24	8x7	0.31
25	8x7	0.29
28	8x7	0.26

Bore	Keyway (W x D)	App. Kg
30	8x7	0.24
32	10x8	0.22
1610		
12	4x4	0.4
14	5x5	0.42
15	5x5	0.4
16	5x5	0.41
17	5x5	0.41
18	6x6	0.4
19	6x6	0.4
20	6x6	0.39
22	6x6	0.38
24	8x7	0.36
25	8x7	0.35
28	8x7	0.33
30	8x7	0.31
32	10x8	0.29
35	10x8	0.26
38	10x8	0.24
40	12x8	0.22
42	12x8	0.2
1615		
14	5x5	0.6
16	5x5	0.58
18	6x6	0.56
19	6x6	0.55
20	6x6	0.54
22	6x6	0.52
24	8x7	0.5
25	8x7	0.49
28	8x7	0.47
30	8x7	0.44
32	10x8	0.41
35	10x8	0.38
38	10x8	0.33
40	12x8	0.31
42	12x8	0.28
2012		
14	5x5	0.6
16	5x5	0.58
18	6x6	0.56
19	6x6	0.55
20	6x6	0.54
22	6x6	0.52
24	8x7	0.5
25	8x7	0.49
28	8x7	0.47
30	8x7	0.44
32	10x8	0.41
35	10x8	0.38
38	10x8	0.33
40	12x8	0.31
42	12x8	0.28
2017		
24	8x7	1
25	8x7	0.9

Bore	Keyway (W x D)	App. Kg
28	8x7	0.9
30	8x7	0.8
32	10x8	0.8
35	10x8	0.7
38	10x8	0.7
40	12x8	0.6
42	12x8	0.5
45	14x9	0.5
50	14x9	0.3
2517		
16	5x5	1.75
18	6x6	1.71
19	6x6	1.66
20	6x6	1.62
22	6x6	1.58
24	8x7	1.56
25	8x7	1.56
28	8x7	1.5
30	8x7	1.49
32	10x8	1.46
35	10x8	1.42
38	10x8	1.35
40	12x8	1.31
42	12x8	1.26
45	14x9	1.2
48	14x9	1.14
50	14x9	1.1
55	16x10	0.95
60	18x11	0.82
65	18x11	0.5
2525		
24	8x7	1.9
25	8x7	2
28	8x7	2.09
30	8x7	2.05
32	10x8	2.01
35	10x8	1.94
38	10x8	1.86
40	12x8	1.8
42	12x8	1.74
45	14x9	1.64
48	14x9	1.55
50	14x9	1.48
55	16x10	1.29
60	18x11	1.08
3020		
24	8x7	2.89
25	8x7	2.93
28	8x7	2.88
30	8x7	2.85
32	10x8	2.84
35	10x8	2.77
38	10x8	2.71
40	12x8	2.67
42	12x8	2.6
45	14x9	2.56

Bore	Keyway (W x D)	App. Kg
48	14x9	2.47
50	14x9	2.2
55	16x10	2.15
60	18x11	2.07
65	18x11	1.93
70	20x12	1.7
75	20x12	1.5
80	22x14	1.33
3030		
35	10x8	3.97
38	10x8	3.89
40	12x8	3.8
42	12x8	3.65
45	14x9	3.5
48	14x9	3.42
50	14x9	3.4
55	16x10	3.2
60	18x11	2.95
65	18x11	2.67
70	20x12	2.45
75	20x12	2.1
3525		
35	10x8	4.9
38	10x8	4.8
40	12x8	4.8
42	12x8	4.8
45	14x9	4.7
48	14x9	4.6
50	14x9	4.5
55	16x10	4.4
60	18x11	4.2
65	18x11	3.9
70	20x12	3.7
75	20x12	3.5
80	22x14	3.35
85	22x14	3.2
90	25x14	3
100	28x16	1.7
3535		
35	10x8	4.96
38	10x8	4.88
40	12x8	4.82
42	12x8	4.76
45	14x9	4.67
48	14x9	4.57
50	14x9	4.5
55	16x10	4.31
60	18x11	4.1
65	18x11	3.88
70	20x12	3.64
75	20x12	3.38
80	22x14	3.1
85	22x14	2.8
90	25x14	2.49
100	28x16	2.25

Bore	Keyway (W x D)	App. Kg
4030		
40	12x8	7.6
42	12x8	7.5
45	14x9	7.4
48	14x9	7.3
50	14x9	7.1
55	16x10	7
60	18x11	6.7
65	18x11	6.6
70	20x12	6.3
75	20x12	5.9
80	22x14	5.7
85	22x14	5.3
90	25x14	5.1
95	25x14	4.6
100	28x16	4
110	28x16	3.8
4040		
40	12x8	10.46
42	12x8	10.07
45	14x9	9.77
48	14x9	9.64
50	14x9	9.5
55	16x10	9.25
60	18x11	8.9
65	18x11	8.5
70	20x12	8.2
75	20x12	7.7
80	22x14	7.4
85	22x14	6.9
90	25x14	6.4
95	25x14	5.95
100	28x16	5.5
110	28x16	4.2
4545		
55	16x10	13.2
60	18x11	12.9
65	18x11	12.4
70	20x12	12
75	20x12	11.5
80	22x14	10.9
85	22x14	10.5
90	25x14	9.9
95	25x14	9.5
100	28x16	8.9
105	28x16	8.2
110	28x16	7.4
120	32x18	7.5
5050		
55	16x10	16
65	18x11	16.8
70	20x12	17
75	20x12	16.3
80	22x14	15.6
85	22x14	15
90	25x14	14.4

Bore	Keyway (W x D)	App. Kg
95	25x14	13.6
100	28x16	12.9
110	28x16	11.5
120	32x18	9.8
125	32x18	8.9

Imperial Taper Lock Bushes

Bore	Keyway (W x D)	App. Kg
1008		
3/8	1/8 x 1/8	0.15
1/2	1/8 x 1/8	0.14
5/8	3/16 x 3/16	0.12
3/4	3/16 x 3/16	0.1
7/8	1/4 x 1/4	0.09
1	1/4 x 1/4	0.08
1108		
3/8	1/8 x 1/8	0.16
1/2	1/8 x 1/8	0.16
5/8	3/16 x 3/16	0.14
3/4	3/16 x 3/16	0.13
7/8	1/4 x 1/4	0.12
1	1/4 x 1/4	0.1
1 1/8	5/16 x 5/16	0.09
1210		
1/2	1/8 x 1/8	0.28
5/8	3/16 x 3/16	0.27
3/4	3/16 x 3/16	0.25
7/8	1/4 x 1/4	0.23
1	1/4 x 1/4	0.21
1 1/8	5/16 x 5/16	0.19
1 1/4	5/16 x 5/16	0.18
1215		
5/8	3/16 x 3/16	0.38
3/4	3/16 x 3/16	0.35
7/8	1/4 x 1/4	0.33
1	1/4 x 1/4	0.29
1 1/8	5/16 x 5/16	0.26
1 1/4	5/16 x 5/16	0.22
1610		
1/2	1/8 x 1/8	0.44
5/8	3/16 x 3/16	0.41
3/4	3/16 x 3/16	0.4
7/8	1/4 x 1/4	0.38
1	1/4 x 1/4	0.35
1 1/8	5/16 x 5/16	0.31
1 3/16	3/8 x 3/8	0.3
1 1/4	5/16 x 5/16	0.29
1 3/8	3/8 x 3/8	0.24
1 7/16	3/8 x 3/8	0.24
1 1/2	3/8 x 3/8	0.24

Bore	Keyway (W x D)	App. Kg
1 5/8	7/16 x 7/16	0.2
1 11/16	7/16 x 7/16	0.2
1615		
1/2	1/8 x 1/8	0.6
5/8	3/16 x 3/16	0.58
3/4	3/16 x 3/16	0.56
7/8	1/4 x 1/4	0.52
1	1/4 x 1/4	0.49
1 1/8	5/16 x 5/16	0.47
1 1/4	5/16 x 5/16	0.44
1 3/8	3/8 x 3/8	0.38
1 7/16	3/8 x 3/8	0.35
1 1/2	3/8 x 3/8	0.33
1 5/8	7/16 x 7/16	0.3
2012		
1/2	1/2 x 1/2	0.71
5/8	3/16 x 3/16	0.78
3/4	3/16 x 3/16	0.76
7/8	1/4 x 1/4	0.74
1	1/4 x 1/4	0.7
1 1/8	5/16 x 5/16	0.67
1 3/16	5/16 x 5/16	0.67
1 1/4	5/16 x 5/16	0.67
1 3/8	3/8 x 3/8	0.63
1 7/16	3/8 x 3/8	0.62
1 1/2	3/8 x 3/8	0.61
1 5/8	7/16 x 7/16	0.54
1 11/16	7/16 x 7/16	0.5
1 3/4	7/16 x 7/16	0.47
1 7/8	1/2 x 1/2	0.42
1 15/16	1/2 x 1/2	0.4
2	1/2 x 1/2	0.37
2017		
1	1/4 x 1/4	0.9
1 1/8	5/16 x 5/16	0.9
1 1/4	5/16 x 5/16	0.8
1 3/8	3/8 x 3/8	0.7
1 1/2	3/8 x 3/8	0.6
1 3/4	7/16 x 7/16	0.5
2	1/2 x 1/2	0.3
2517		
3/4	3/16 x 3/16	1.66
7/8	1/4 x 1/4	1.58

Bore	Keyway (W x D)	App. Kg
15/16	1/4 x 1/4	1.57
1	1/4 x 1/4	1.56
1 1/8	5/16 x 5/16	1.5
1 3/16	5/16 x 5/16	1.48
1 1/4	5/16 x 5/16	1.46
1 5/16	5/16 x 5/16	1.44
1 3/8	3/8 x 3/8	1.42
1 7/16	3/8 x 3/8	1.39
1 1/2	3/8 x 3/8	1.35
1 5/8	7/16 x 7/16	1.27
1 11/16	7/16 x 7/16	1.24
1 3/4	7/16 x 7/16	1.2
1 7/8	1/2 x 1/2	1.14
1 15/16	1/2 x 1/2	1.12
2	1/2 x 1/2	1.1
2 1/8	5/8 x 5/8	1.05
2 3/16	5/8 x 5/8	1
2 1/4	5/8 x 5/8	0.95
2 3/8	5/8 x 5/8	0.82
2 7/16	5/8 x 5/8	0.7
2 1/2	5/8 x 5/8	0.63
2525		
1	1/4 x 1/4	2.15
1 1/8	5/16 x 5/16	2.09
1 1/4	5/16 x 5/16	2.01
1 3/8	3/8 x 3/8	1.94
1 1/2	3/8 x 3/8	1.86
1 5/8	7/16 x 7/16	1.74
1 3/4	7/16 x 7/16	1.65
1 7/8	1/2 x 1/2	1.55
2	1/2 x 1/2	1.48
2 1/8	5/8 x 5/8	1.29
2 1/4	5/8 x 5/8	1.23
2 3/8	5/8 x 5/8	1.17
2 1/2	5/8 x 5/8	1.1
3020		
1	1/4 x 1/4	3
1 1/8	5/16 x 5/16	2.85
1 1/4	5/16 x 5/16	2.84
1 3/8	3/8 x 3/8	2.77
1 7/16	3/8 x 3/8	2.74
1 1/2	3/8 x 3/8	2.71
1 5/8	7/16 x 7/16	2.6
1 11/16	7/16 x 7/16	2.58

Bore	Keyway (W x D)	App. Kg
1 3/4	7/16 x 7/16	2.56
1 7/8	1/2 x 1/2	2.47
1 15/16	1/2 x 1/2	2.47
2	1/2 x 1/2	2.34
2 1/8	5/8 x 5/8	2.2
2 3/16	5/8 x 5/8	2.1
2 1/4	5/8 x 5/8	2.15
2 3/8	3/4 x 3/4	2.09
2 7/16	5/8 x 5/8	2.07
2 1/2	5/8 x 5/8	2
2 5/8	5/8 x 5/8	1.94
2 11/16	5/8 x 5/8	1.93
2 3/4	3/4 x 3/4	1.7
2 7/8	3/4 x 3/4	1.5
2 15/16	3/4 x 3/4	1.48
3	3/4 x 3/4	1.45
3030		
1 1/4	5/16 x 5/16	4.04
1 3/8	3/8 x 3/8	3.97
1 1/2	3/8 x 3/8	3.89
1 5/8	7/16 x 7/16	3.65
1 3/4	7/16 x 7/16	3.5
1 7/8	1/2 x 1/2	3.42
2	1/2 x 1/2	3.4
2 1/8	5/8 x 5/8	3.2
2 3/16	5/8 x 5/8	3.1
2 1/4	5/8 x 5/8	3
2 3/8	5/8 x 5/8	2.67
2 7/16	5/8 x 5/8	2.52
2 1/2	5/8 x 5/8	2.45
2 5/8	3/4 x 3/4	2.38
2 3/4	3/4 x 3/4	2.3
2 7/8	3/4 x 3/4	2.2
2 15/16	3/4 x 3/4	2.15
3	3/4 x 3/4	2.1
3525		
1 1/4	5/16 x 5/16	5
1 3/8	3/8 x 3/8	4.9
1 1/2	3/8 x 3/8	4.8
1 5/8	7/16 x 7/16	4.8
1 3/4	7/16 x 7/16	4.7
1 7/8	1/2 x 1/2	4.6
2	1/2 x 1/2	4.5
2 1/8	5/8 x 5/8	4.4
2 1/4	5/8 x 5/8	4.3
2 3/8	5/8 x 5/8	4.2
2 7/16	5/8 x 5/8	4
2 1/2	5/8 x 5/8	3.9
2 5/8	3/4 x 3/4	3.8

Bore	Keyway (W x D)	App. Kg
2 3/4	3/4 x 3/4	3.7
2 7/8	3/4 x 3/4	3.6
3	3/4 x 3/4	6.5
3 1/8	7/8 x 7/8	6.4
3 1/4	7/8 x 7/8	3.3
3 3/8	7/8 x 7/8	3.2
3 1/2	7/8 x 7/8	3
3535		
1 1/4	5/16 x 5/16	6.8
1 5/16	3/8 x 3/8	6.7
1 3/8	3/8 x 3/8	6.6
1 1/2	3/8 x 3/8	6.55
1 5/8	7/16 x 7/16	6.5
1 11/16	7/16 x 7/16	6.25
1 3/4	7/16 x 7/16	6.31
1 7/8	1/2 x 1/2	6.1
2	1/2 x 1/2	6
2 1/8	5/8 x 5/8	5.55
2 3/16	5/8 x 5/8	5.55
2 1/4	5/8 x 5/8	5.55
2 3/8	5/8 x 5/8	5.45
2 7/16	5/8 x 5/8	5.35
2 1/2	5/8 x 5/8	5.35
2 5/8	3/4 x 3/4	5.15
2 11/16	3/4 x 3/4	5
2 3/4	3/4 x 3/4	4.8
2 7/8	3/4 x 3/4	4.55
2 15/16	3/4 x 3/4	4.5
3	3/4 x 3/4	4.45
3 1/8	7/8 x 7/8	4.25
3 1/4	7/8 x 7/8	4.06
3 3/8	7/8 x 7/8	3.63
3 1/2	7/8 x 7/8	3.4
4030		
1 3/4	7/16 x 7/16	7.4
1 7/8	1/2 x 1/2	7.3
2	1/2 x 1/2	7.1
2 1/8	5/8 x 5/8	7
2 1/4	5/8 x 5/8	6.9
2 3/8	5/8 x 5/8	6.7
2 1/2	5/8 x 5/8	6.6
2 5/8	3/4 x 3/4	6.4
2 3/4	3/4 x 3/4	6.3
2 7/8	3/4 x 3/4	6.1
3	3/4 x 3/4	5.9
3 1/8	7/8 x 7/8	5.7
3 1/4	7/8 x 7/8	5.5
3 3/8	7/8 x 7/8	5.3
3 1/2	7/8 x 7/8	5.1
3 3/4	1 x 1	4.6
4	1 x 1	4

Imperial Taper Lock Bushes

Bore	Keyway (W x D)	App. Kg
4040		
1 3/4	7/16 x 7/16	9.77
1 7/8	1/2 x 1/2	9.64
2	1/2 x 1/2	9.5
2 1/8	5/8 x 5/8	9.35
2 3/16	5/8 x 5/8	9.26
2 1/4	5/8 x 5/8	9.25
2 3/8	5/8 x 5/8	8.9
2 1/2	3/4 x 3/4	8.3
2 5/8	3/4 x 3/4	8.2
2 3/4	3/4 x 3/4	8.1
2 7/8	5/8 x 5/8	8.95
3	3/4 x 3/4	7.7
3 1/8	7/8 x 7/8	7.4
3 1/4	7/8 x 7/8	7.3
3 3/8	7/8 x 7/8	6.9
3 1/2	7/8 x 7/8	6.4
3 3/4	1 x 1	5.95
4	1 x 1	5.5
4545		
2 1/4	5/8 x 5/8	13.2
2 1/2	5/8 x 5/8	12.9
2 5/8	3/4 x 3/4	12.4
2 3/4	3/4 x 3/4	12
2 7/8	3/4 x 3/4	11.5

Bore	Keyway (W x D)	App. Kg
3	3/4 x 3/4	10.9
3 1/8	7/8 x 7/8	10.7
3 1/4	7/8 x 7/8	10.6
3 3/8	7/8 x 7/8	10.5
3 1/2	7/8 x 7/8	10
3 3/4	1 x 1	9.5
4	1 x 1	8.9
4 1/8	1 1/4 x 1 1/4	8.2
4 1/4	1 1/4 x 1 1/4	7.9
4 1/2	1 1/4 x 1 1/4	7.4
5050		
2 1/2	5/8 x 5/8	17.6
2 3/4	3/4 x 3/4	17
3	3/4 x 3/4	16.8
3 1/4	7/8 x 7/8	15.5
3 1/2	7/8 x 7/8	15.3
4	1 x 1	12.9
4 1/4	1 1/4 x 1 1/4	12.2
4 1/2	1 1/4 x 1 1/4	10.6
5	1 1/4 x 1 1/4	8.9

Imperial Steel Taper Lock Bushes

Bore	Keyway (W x D)	App. Kg
1108		
1	1/4x1/4	-
1 1/8	5/16x5/16	-
5/8	3/16x3/16	-
1210		
3/4	3/16x3/16	0.13
1	1/4x1/4	0.1
1 1/8	5/16x5/16	0.09
1 1/4	1/4x1/4	0.1
1610		
1	1/4x1/4	0.35
1 1/2	3/8x3/8	0.24
1 1/4	5/16x5/16	0.29
1 1/8	5/16x5/16	0.31
1 3/8	3/8x3/8	0.24
1 5/8	7/16x7/16	0.2
2012		
1	1/4x1/4	
1 1/2	3/8x3/8	0.61
1 1/4	5/16x5/16	0.67
1 3/4	7/16x7/16	0.67
1 3/8	3/8x3/8	0.63
1 5/8	7/16x7/16	0.54
1 7/8	1/2x1/2	0.62
2	1/2x1/2	0.63

Bore	Keyway (W x D)	App. Kg
2517		
1	1/4x1/4	-
1 1/2	3/8x3/8	-
1 1/4	5/16x5/16	-
1 3/4	7/16x7/16	-
2	1/2x1/2	-
2 1/2	5/8x5/8	-
2 1/4	5/8x5/8	-
2 1/8	5/8x5/8	-
2 3/8	5/8x5/8	-
3020		
2	1/2x1/2	-
2 1/2	5/8x5/8	-
2 1/4	5/8x5/8	-
2 3/4	3/4x3/4	-
2 3/8	5/8x5/8	-
2 5/8	3/4x3/4	-
3	3/4x3/4	-

Bore	Keyway (W x D)	App. Kg
3535		
2 1/2	5/8x5/8	-
2 3/4	3/4x3/4	-
2 7/8	3/4x3/4	-
3	3/4x3/4	-
3 1/2	7/8x7/8	-
3 1/4	7/8x7/8	-
3 3/8	7/8x7/8	-
4040		
3	3/4x3/4	-
3 1/2	7/8x7/8	-
4	1x1	-

Metric Steel Taper Lock Bushes

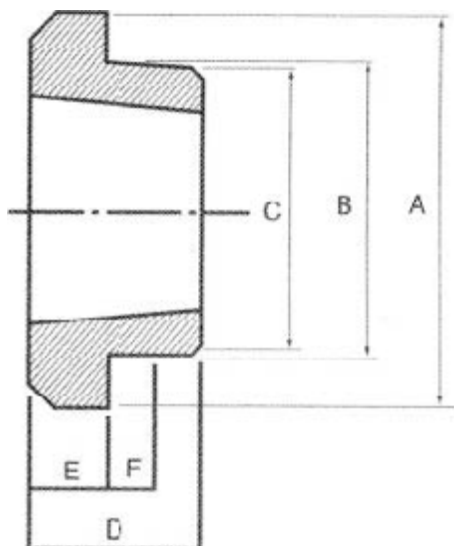
Bore	Keyway (W x D)	App. Kg
1008		
20	6x6	0.1
25	8x7	0.08
1108		
25	8x7	0.1
28	8x7	0.09
1210		
24	8x7	0.22
25	8x7	0.21
28	8x7	0.19
30	8x7	0.17
32	10x8	0.15
1610		
24	8x7	0.36
25	8x7	0.35
28	8x7	0.33
30	8x7	0.31
32	10x8	0.29
35	10x8	0.26
38	10x8	0.24
40	12x8	0.22
42	12x8	0.2

Bore	Keyway (W x D)	App. Kg
2012		
20	6x6	0.76
22	6x6	0.74
24	8x7	0.73
25	8x7	0.71
28	8x7	0.68
30	8x7	0.66
32	10x8	0.64
34	10x8	0.63
35	10x8	0.61
38	10x8	0.57
40	12x8	0.54
42	12x8	0.51
45	14x9	0.47
48	14x9	0.42
50	14x9	0.37

Bore	Keyway (W x D)	App. Kg
3020		
48	14x9	3.42
50	14x9	3.4
55	16x10	3.2
60	18x11	2.95
65	18x11	2.67
70	20x12	2.45
75	20x12	2.1
2517		
25	8x7	1.56
28	8x7	1.5
30	8x7	1.49
32	10x8	1.46
35	10x8	1.42
38	10x8	1.35
40	12x8	1.31
42	12x8	1.26
45	14x9	1.2
48	14x9	1.14
50	14x9	1.1
55	16x10	0.95
60	18x11	0.82
65	18x11	0.5

Bore	Keyway (W x D)	App. Kg
3535		
70	20x12	3.64
75	20x12	3.38
80	22x14	3.1
85	22x14	2.8
90	25x14	2.49
100	28x16	2.25
4040		
80	22x14	7.4
85	22x14	6.9
90	25x14	6.4
95	25x14	5.95
100	28x16	5.5
110	28x16	4.2
4545		
105	28x16	8.2
110	28x16	7.4
5050		
100	28x16	12.9
110	28x16	11.5
120	32x18	9.8
125	32x18	8.9

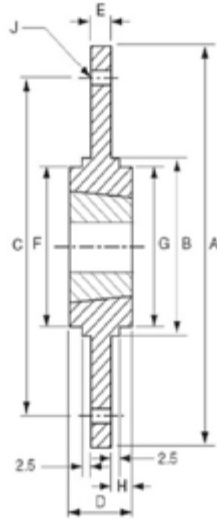
Taper Bore Weld On Hubs are drilled, tapered and bored to receive standard taper bushings. The extended flange provides a convenient means for welding devices, which must be firmly fastened to a shaft.



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	184.15	158.75	157.96	88.9	31.75	25.4
W40	4040	225.43	196.85	196.06	101.6	31.75	31.75
W45	4545	254	222.25	221.46	114.3	38.1	38.1
W50	5050	276	234	226	126	38.1	75

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	179.5	65	25	25

Taper Lock Bolt On Hubs are designed for use with Taper Lock Bushes. They provide a convenient means of securing impellers, agitators, fan motors and other devices firmly to shafts. Bolt On Hubs are used wherever welding is not possible or not permitted. Parts can be mounted to either the left or right hand side of the hub.



Part Number	T/L Bush	A	B	C	D	E	R	G	H	J (No. x Diameter)
BF12	1210	120	80	100	25	6.5	74	80	10	6 x 6.5
BF16	1610	130	90	110	25	6.5	84	90	10	6 x 6.5
BF20	2012	145	100	125	32	8.5	99	100	13	6 x 8.5
BF25	2517	185	130	155	44	11.5	120	119	20	6 x 10.5
BF30	3020	220	165	190	50	11.5	146	147	20	6 x 13