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COUPLINGS

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KCP (Korea) - Korea Coupling Co., Ltd.

Korea Coupling Co., Ltd., is a specialist manufacturer of power transmission equipment including high quality shaft couplings for various industries such as steel mills, paper mining, chemical and cement, etc.

www.koreacoupling.co.kr





Couplings Element Identification

"Australia's Only Genuine Wholesaler"

CONE RING RUBBER



Synthetic Rubber, See Cone Ring Couplings

CURVED JAW (ROTEX) ELEMENT - RED



Polyurethane 98 Shore Hardness, see Curved Jaw Couplings

CURVED JAW (ROTEX) ELEMENT - YELLOW



Polyurethane 92 Shore Hardness, see Curved Jaw Couplings

HRC ELEMENT



Nitrile Rubber, See HRC Couplings

JAW COUPLING SPIDER ELEMENT



Nitrile Rubber, See Jaw Couplings

MAX-DYNAMIC ELEMENT



Omega ® Equivalent Polyurethane Element, see Max Dynamic Couplings

MAX-DYNAMIC SPACER ELEMENT



Omega ® Equivalent Polyurethane Element, see Max Dynamic Couplings

POLYURETHANE JAW COUPLING SPIDER

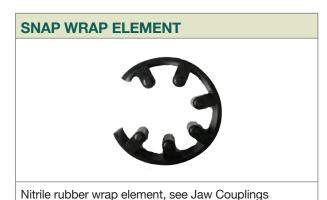


Polyurethane spider element, See Jaw Couplings

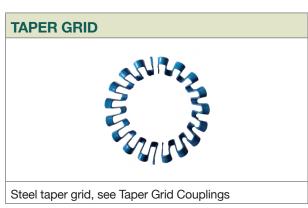
Couplings Element Identification



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Chain Coupling

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.

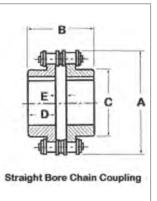
Finer Power Transmissions Chain Couplings are supplied with casings standard.

Chain Coupling Ratings

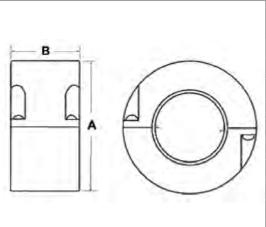
		0	J		
			Max.	RPM	
Coupling	Min. Bore	Max. Bore	Without Cover	With Cover	Weight Kg
C4012	14	22	875	5000	0.73
C4016	16	32	875	5000	1.5
C5016	18	40	800	4000	2.75
C5018	18	45	800	4000	3.6
C6018	22	56	675	3000	6.55
C6022	28	71	675	3000	10.4
C8018	32	80	500	2000	13.2
C8022	40	100	500	2000	21.8
C10020	45	110	450	1800	32.4



Coupling	A	В	С	D	Е	K(2)
C4012	62	79.4	36	36	7.4	-
C4016	77	87.4	51.5	40	7.4	0.75
C5016	96	99.7	64	45	9.7	-
C5018	106	99.7	73.5	45	9.7	1.06
C6018	127	123.5	89.5	56	11.5	-
C6022	151	123.5	116	56	11.5	1.38
C8018	169	141.2	115	63	15.2	-
C8022	202	157.2	142	71	15.2	2.06
C10020	233	178.8	162	80	18.8	2.34



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.



Coupling Covers	Cover Required when RPM Exceeds	А	В	Weight
C4012	875	77	72	0.3
C4016	0/3	92	72	0.35
C5016	800	110	87	0.5
C5018	000	122	85	0.6
C6018	675	147	105	1.2
C6022	0/3	168	117	1.2
C8018	500	190	129	1.9
C8022	500	226	137	2.7
C10020	450	281	153	4.1

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

Cone Ring Coupling



"Why compete against your supplier when you can be our partner"

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 Rings Couplings 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 synthetic rubber.



				L TAPER		KXT BUSH	TAPERL HALF	OCK KXT PIN	HALF		KX BUS	PILOT SH HALF	BORE KX PIN	HALF	
	No. of Pins	Pin/ Rubber		ore PB/ Size		Н				R		Т		Kg	
Size	(Rubbers)	Size (D.Brown)	Pin Half	Bush Half	D	Pin Half	Bush Half	L	M	Pin Half	Bush Half	Pin Half	Bush Half	Pin Half	Bush Half
KX020	6 (18)	1 ((GC3/4"-3)	-	-	88	-	-	-	-	12	23	53	33	OA	OA
KX030	4 (12)	2 (GC 1"-3)	38	32	127	64	58	85	3	12	26	4	1	1.8	2.5
KX038	6 (18)	2 (GC 1"-3)	42	38	132	72	64	99	3	12	26	4	8	2.1	2.3
KX042	8 (24)	2	48	42	146	83	78	115	3	12	26	5	6	3.0	3.2
KXT042	0 (24)	(GC 1"-3)	1610	1215	140	00	70	69.5		12	20	28.4	38.1	1.8	2.3
KX048	6 (18)	3	55	48	171	90	82	90	3	17	33	6		4.9	5.0
KXT048	, ,	(GC 1 3/4"-3)	2012	1615				82				35	38.1	3.6	4.6
KX058	8 (24)	(GC 1 3/4"-3)	65	58	193	106	98	139	3	17	33	47.5		5.1	5.9
KXT058		,	2517	2012				82.3				47.5	31.8	3.8	5.6
KX070 KXT070	10 (30)	(GC 1 3/4"-3)	75 3020	70 2525	216	128	117	155 121.5	3	17	33	7 55	63.5	9.2	9.0
KX075	8 (32)	4 (GC 2 3/4"-3)	80	75	254	127	127	179	3	30	56	8		16.5	16.9
KX085		4	105	85				203				1(00	22.4	21.5
XT085	10 (40)	(GC 2 3/4"-3)	3535	3030	279	166	148	172.2	3	30	56	93	76.2	17.1	19.6
KX105	40 (10)	4	120	85	065	0.00	160	237		0.5		1		36.3	35.0
(XT105	12 (48)	(GC 2 3/4"-3)	4040	3535	330	202	180	197.5	3	30	56	105.6	88.9	24.5	27.5
KX120	10 (40)	5	130	120	070	000	000	270		40	70	13	32	56.1	51.0
(XT120	10 (40)	(GC 4 1/4"-3)	4040	4040	370	232	206	217.2	6	46	76	105.6	105.6	39.5	40.5
KX135	12 (40)	5	135	135	419	240	230	300	6	46	76	14	17	70.0	71.0
(XT135	12 (48)	(GC 4 1/4"-3)	4545	4545	419	240	230	239.6	υ	40	10	119.3	114.3	52.8	56.8
KX150	14 (56)	5	150	150	457	160	256	336	6	46	76	16	65	88.6	93.0



Cone Ring Coupling

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			F	Power Ratings (K	w @)		
Size	100 rpm	720 rpm	960 rpm	1440 rpm	2880 rpm	Max .rpm	Nominal Torque (Nm)
020							
030	0.16	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

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

Curve Jaw (Rotex) Couplings



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	Curve Jaw (Rotex) Couplings (Pilot Bore)														
		Max	Rated Tor	que (Nm)									Mass		
TYPE	Hub Type	Speed RPM	92 Sh A YELLOW	98 Sh A RED	D	D1	d-min	d-max	S	L1	L2	L	kg/hub		
GE19	1	19000	10	17	40	32	6	19	1.0	39	25	65	0.19		
GLIS	1a	19000	10	17	40	32	19	24	1.0	33	20	0.0	0.19		
GE24	1	14000	35	60	56	40	9	24	1.0	46	30	77	0.38		
ULZ4	1a	14000	33	00	30	40	22	28	1.0	40	30	11	0.30		
GE28	1	11800	95	160	65	48	10	28	1.5	52.5	35	89	0.62		
GLZO	1a	11000	30	100	00	70	28	38	1.0	02.0	00	0.0	0.02		
GE38	1	9500	190	325	80	66	12	38	1.0	66	45	112	1.36		
GLOO	1a	3300	130	323		00	38	45	1.0	00		112	1.50		
GE42	1	8000	265	450	95	75	14	42	1.0	73	50	124	2.03		
G2.12	1a	0000	200	100		70	42	55	1.0	70		121	2.00		
GE48	1	7100	310	525	105	85	15	48	1.5	80.5	56	138	2.85		
0.2.0	1a	7 100	0.10	020	100		48	60	1.0	00.0		100	2.00		
GE55	1	6300	410	685	120	98	20	55	2.0	91	65	158	4.32		
0	1a				.20		55	70	2.0	0.					
GE65	1	5600	625	940	135	115	22	65	1.5	105.5	75	182	6.66		
0	1a		020	0.0			22	65					0.00		
GE75	1	4750	1280	1920	160	135	30	75	1.0	120	85	206	10.48		
	1a	1700	1200	1020	100		30	75	1.0	120		200	10.10		
GE90	1	3750	2400	3600	200	160	40	90	1.5	139.5	100	241	17.89		
	1a	3.00				180	40	90			. 50				

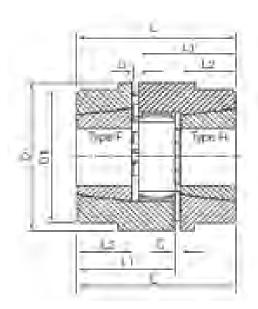
NB. Type 1 Refers to stepped hubs and Type 1a are NOT stepped (Full Hub).



Curve Jaw (Rotex) Couplings

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	Curve Jaw (Rotex) Couplings (Taperlock)														
	Max	Rated Tor	que (Nm)	Bush	Max					L2		Mass kg/			
TYPE	Speed RPM	92 Sh A YELLOW	98 Sh A RED	Size	Bore	D	D1	S	L1	L2 L2	L	hub			
28 F	11000	95	160	1108	28	65	_	1.5	40.5	23	65	0.46			
28 H	11800	90	100	1108	28	65	_	1.5	40.5	23	65	0.46			
38 F	9500	190	325	1108	28	80	78	1	44	23	68	0.79			
38 H	9500	190	323	1108	28	80	78	1	44	23	68	0.79			
42 F	8000	265	450	1610	42	95	94	1	49	26	76	1.1			
42 H	0000	200	400	1610	42	95	94	1	49	26	76	1.1			
48 F	7100	310	525	1615	42	105	104	1.5	63.5	39	104	2.07			
48 H	7100	310	525	1615	42	105	104	1.5	63.5	39	104	2.07			
55 F	6300	410	685	2012	50	120	118	2	59	33	94	2.22			
55 H	0300	410	000	2012	50	120	118	2	59	33	94	2.22			
65 F	5600	625	940	2012	50	135	133	1.5	63.5	33	98	3.14			
65 H	3000	020	940	2517	65	135	133	1.5	75.5	45	122	4.03			
75 F	4750	1280	1020	2517	65	160	135	1	81	46	128	4.69			
75 H	4/30	1200	1920	3020	75	160	135	1	87	52	140	4.99			
90 F	2750	2400	3600	3020	75	200	160	1.5	91.5	52	145	7.74			
90 H	3750	2400	3000	3525	100	200	160	1.5	103.5	64	169	8.74			

Flexible Tyre Coupling



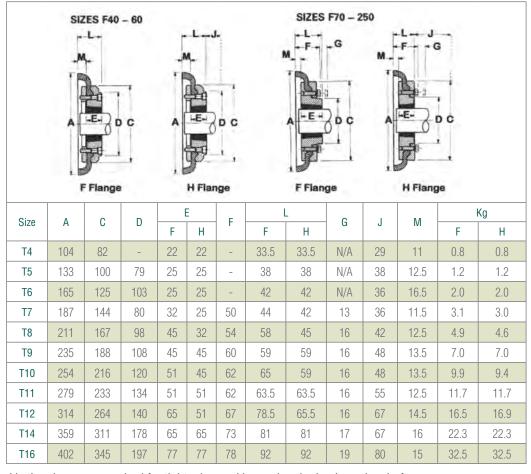
"Why compete against your supplier when you can be our partner"

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.

Highly Flexible

Compensates for misalignment, upto; 4° angular, 6mm parallel, 8mm axial. Torsional flexibility of upto 12°, at max. torque.

	Power @	Nominal	Max. Speed	Вог	re B			Max. Mis	alignment	End
Size	100 rpm in Kw	Torque	rpm	Max.	Min.	Bush F	Bush H	Parallel	Angular	Float
T4	0.26	25	4500	25	10	1008	1008	1.1	4	1.3
T5	0.69	66	4500	32	11	1210	1210	1.3	4	1.7
T6	1.33	127	4000	42	14	1610	1610	1.6	4	2
T7	2.62	250	3600	50	14	2012	1610	1.9	4	2.3
T8	3.93	375	3100	65	14	2517	2012	2.1	4	2.6
T9	5.24	500	3000	65	16	2517	2517	2.4	4	3
T10	7.07	675	2600	75	16	3020	2517	2.6	4	3.3
T11	9.20	875	2300	75	24	3020	3020	2.9	4	3.7
T12	13.9	1300	2050	100	24	3525	3020	3.2	4	4
T14	24.3	2320	1800	100	35	3525	3525	3.7	4	4.6
T16	39.4	3770	1600	115	40	4030	4030	4.2	4	5.3



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



Flexible Tyre Coupling

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Power Ratings (KW)

Speed					Couplin	ng Size					
rev/ min	T4	T5	T6	T7	T8	Т9	T10	T11	T12	T14	T16
100	0.25	0.69	1.33	2.62	3.93	5.24	7.07	9.16	13.9	24.3	39.5
200	0.5	1.38	2.66	5.24	7.85	10.5	14.1	18.3	27.9	48.7	79
300	0.75	2.07	3.99	7.85	11.8	15.7	21.2	27.5	41.8	73	118
400	1.01	2.76	5.32	10.5	15.7	20.9	28.3	36.6	55.7	97.4	158
500	1.26	3.46	6.65	13.1	19.6	26.2	35.3	45.8	69.6	122	197
600	1.51	4.15	7.98	15.7	23.6	31.4	42.4	55	83.6	146	237
700	1.76	4.84	9.31	18.3	27.5	36.6	49.5	64.1	97.5	170	276
720	1.81	4.98	9.57	18.8	28.3	37.7	50.9	66	100	175	284
800	2.01	5.53	10.6	20.9	31.4	41.9	56.5	73.3	111	195	316
900	2.26	6.22	12	23.6	35.3	47.1	63.6	82.5	125	219	355
960	2.41	6.63	12.8	25.1	37.7	50.3	67.9	88	134	234	379
1000	2.51	6.91	13.3	26.2	39.3	52.4	70.7	91.6	139	243	395
1200	3.02	8.29	16	31.4	47.1	62.8	84.8	110	167	292	474
1400	3.52	9.68	18.6	36.6	55	73.3	99	128	195	341	553
1440	3.62	9.95	19.1	37.7	56.5	75.4	102	132	201	351	568
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					С	oupling Si	ze				
GHATACLETISTICS	T4	T5	T6	T7	T8	Т9	T10	T11	T12	T14	T16
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
Nominal Torque Nm TK N	24	66	127	250	375	500	675	875	1,330	2,325	3,770
Maximum Torque Nm TK MAX	64	160	318	487	759	1,096	1,517	2,137	3,547	5,642	9,339
Torsional Stiffness Nm/O	5	13	26	41	63	91	126	178	296	470	778
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
Maximum end float mm ±	1.3	1.7	2	2.3	2.6	3	3.3	3.7	4	4.6	5.3
Approximate mass. kg	0.1	0.3	0.5	0.7	1	1.1	1.1	1.4	2.3	2.6	3.4
Alternating Torque ± Nm @ 10Hz TKW	11	26	53	81	127	183	252	356	591	940	1,556
Resonance Factor V R	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

Flexible Tyre Coupling



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Flexible Tyre Coupling Service Factors									
Duty	Type of Di	riving Unit							
Duty	Electric Motors Internal Combustion Engine								
Uniform	1.0 1.5								
Light	1.5	2.0							
Moderate	Moderate 2.0 2.5								
Heavy	2.5	3.0							

Selection Procedure

- 1. Identify required service factor from table on previous page
- 2. Multiply service factor by normal running power to establish design power
- 3. Select coupling size from the power ratings table on previous page. From the appropriate speed continue across until you find a power greater than the design power calculated above
- 4. Check from the HRC Coupling Dimensions Table that the flanges chosen can accommodate the required bores.

NB. Please contact Finer Power Transmissions if you are not sure about the selection procedure, we will be happy to assist you as best we can.



HRC Coupling

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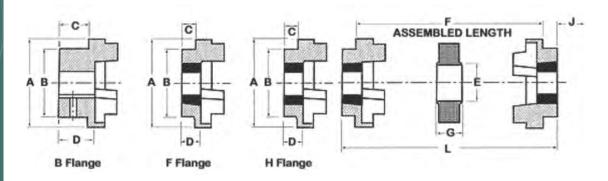
The HRC Coupling is a proven performer, consisting of two cast iron flanges and a rubber element, which performs under compression.

The modular design allows for a simple fitting and easy maintenance whilst the rubber element absorbs shock loading and compensates for marginal misalignment.

Finer Power Transmissions carries a full range of HRC Couplings in Pilot Bore and Taper Lock.



Coupling	А	В	E	F G E		Duch	Max.	Bore	С	D		
Coupling	A	D			G G	Bush	mm	inch	U	U	J	
70	69	60	31	25	18	1008	25	1	20	23.75	29	
90	85	70	32	30.5	22.5	1108	28	1 1/8	19.5	23.25	29	
110	112	100	45	45	29	1610	32	1 1/4	18.5	26.75	38	
130	130	105	50	53	36	1610	42	1 5/8	18	26.5	38	
150	150	115	62	60	40	2012	50	2	23.5	33.5	42	
180	180	125	77	73	49	2517	60	2 1/2	34.5	46.5	48	
230	225	155	99	85.5	59.5	3020	75	3	39.5	52.5	55	
280	275	185	119	105.5	74.5	3525	90	3 1/2	74	90	67	



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

HRC Coupling



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Service Factors

SPECIAL CASES For applications where substantial shock, vibration and torque fluctuation occur, and for reciprocating machines	Type of Drivin	g Unit		Type of Driving Unit			
e.g. internal combustion engines, piston type pumps and compressors, refer to your local Authorised Distributor with full machine details for torsional analysis.	Electric Motor Steam Turbine	-		Internal Combustion Engines Steam Engines Water Turbines			
	Hours per day	duty		Hours per day	duty		
Driven Machine Class	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-unifomly 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				Couplin	ıg Sizes			
rev/min.	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.



HRC Coupling Selection

"Australia's Only Genuine Wholesaler"

Selection - from power of IEC Motors

- (1). Opposite motor frame size under the applicable speed find motor power.
- (2) Selection of Taperlock (H or F) of Bored to size (B) is shown in column headed 'Size'.

Mo	tor	300	00 rev/min		150	00 rev/min		100	00 rev/min		75	0 rev/min	
			Si	ze		Si	ze		Si	ze		Si	ze
Frame Size	Shaft Dia	Motor Power (kW)	Flang	е Туре	Motor Power (kW)	Flange	e Type	Motor Power (kW)	Flange	е Туре	Motor Power (kW)	Flang	e Type
		1 OWEI (KW)	H or F	В	- I OWEI (KW)	H or F	В	TOWEI (KW)	H or F	В	. I OWEI (KW)	H or F	В
00	44	0.18	70	70	0.12	70	70	-	-	-	-	-	-
63	11	0.25	70	70	0.18	70	70	-	-	-	-	-	-
		0.37	70	70	0.25	70	70	-	-	-	-	-	-
71	14	0.55	70	70	0.37	70	70	-	-	-	-	-	-
00	10	0.75	70	70	0.55	70	70	0.37	70	70	-	-	-
80	19	1.1	70	70	0.75	70	70	0.55	70	70	-	-	-
90S	24	1.5	70	70	1.1	70	70	0.75	70	70	-	-	-
90L	24	2.2	70	70	1.5	70	70	1.1	70	70	-	-	-
1001	00		00	70	2.2	90	70		0.0	70	0.75	90	70
100L	28	3	90	70	3	90	70	1.5	90	70	1.1	90	70
112M	28	4	90	70	4	90	90	2.2	90	90	1.5	90	70
		5.5	130	90				_					
132S	38	7.5	130	90	5.5	130	90	3	130	90	2.2	130	90
								4	130	90			
132M	38	-	-	-	7.5	130	90	5.5	130	110	3	130	90
		11	130	90							4	130	110
160M	42	15	130	90	- 11	130	90	7.5	130	110	5.5	130	110
160L	42	18.5	130	110	15	130	110	11	130	130	7.5	130	110
180M	48	22	150	110	18.5	150	130	-	-	-	-	-	_
180L	48	-	-	-	22	150	130	15	150	130	11	150	130
		30	180	110				18.5	180	130			
200L	55	37	180	130	30	180	130	22	180	150	15	180	130
225S	60	-	-	-	37	180	150	-	-	-	18.5	180	150
	55*												
225M	60	45	180	130	45	180	150	30	180	150	22	180	150
	60*												
250M	70	- 55	180	130	55	230	150	37	230	150	30	230	180
	65*												
280S	80	75	-	150	75	280	180	45	280	180	37	280	180
	65*												
280S	80	90	-	180	90	280	180	55	280	180	45	280	180
	65*												
315S	85	110	-	180	110	280	230	75	280	230	55	280	230
	65*												
315S	85	132	-	180	132	280	230	90	280	230	75	280	230

Selection Procedure

- 1. Identify required service factor from table on previous page
- 2. Multiply service factor by normal running power to establish design power
- 3. Select coupling size from the power ratings table on previous page. From the appropriate speed continue across until you find a power greater than the design power calculated above
- 4. Check from the HRC Coupling Dimensions Table that the flanges chosen can accommodate the required bores.
- NB. Please contact Finer Power Transmissions if you are not sure about the selection procedure, we will be happy to assist you as best we can.

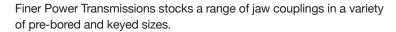
Jaw Coupling



"Why compete against your supplier when you can be our partner"

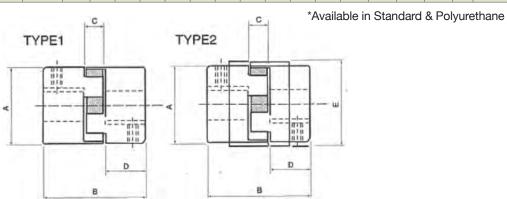
The Finer Jaw Coupling is recognised across a large range of industries. The Jaw Coupling is highly resilient, it does not require any lubrication and can work in environments contaminated with oil, dirt, sand, moisture and grease.

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 as well as the Wrap Element Kits.





Cina	Pilot	Flamont*	Myon	1/:+		Metric (mm)									Imperial (inch)					
Size	Bore	Element*	Wrap	Kit	14	19	20	24	25	28	32	38	42	48	3/8	1/2	5/8	3/4	1	1 1/4
L050	✓	✓														✓				
L070	✓	√			✓	✓										✓				
L075	✓	✓			✓	√										✓	✓	✓		
L095	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓	✓	✓	
L100	✓	✓	√	✓				✓	✓	✓	✓	✓					✓	✓	✓	✓
L110	✓	√	√	✓				✓		✓	✓	✓	✓						✓	✓
L150	✓	✓	✓	✓				✓			✓	✓	√	√						✓
L190 PB	✓	✓	✓																	
L225 PB	✓	✓	✓																	



Caupling	Coupling Type		В	С	D.	Stock Bore	Weigh	nt (Kg)	May Dava
Couping	туре	A	D	0	D	Stock bole	Min. Bore	Max. Bore	Max Bore.
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						
L225PB	1	127	155						

Coupling	oupling Max. RPM Torque in Lbs.			Horsepower capacities at indicated speeds (RPM)										
Coupling	IVIAX. RPIVI	Torque III LDS.	50	100	300	600	900	1200	1800	3600				
L070 PB	14000	44.1	-	0.07	0.21	0.42	0.63	0.84	1.26	2.52				
L075 PB	11000	88.2	0.035	0.14	0.38	0.76	1.26	1.68	2.52	1.04				
L095 PB	9000	189.0	0.115	0.30	0.90	1.80	2.70	3.60	5.40	10.80				
L100 PB	7000	416.0	0.330	0.66	1.98	3.96	5.94	7.92	11.90	23.80				
L110 PB	5000	788.0	.630	1.25	3.75	7.50	11.30	15.00	22.50	45.00				
L150 PB	5000	1260.0	1.000	2.00	6.00	12.00	18.00	24.00	36.00	72.00				



"Australia's Only Genuine Wholesaler"

MAX DYNAMIC® Coupling

- Omega® equivalent

Characteristics of MAX DYNAMIC® Coupling

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

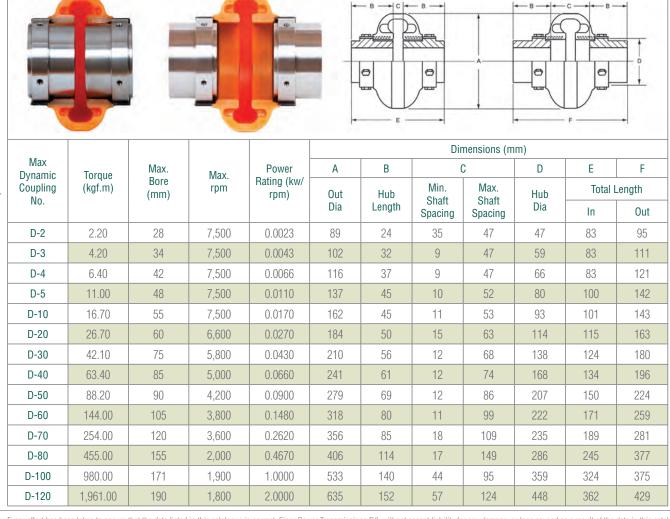
Application

- 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

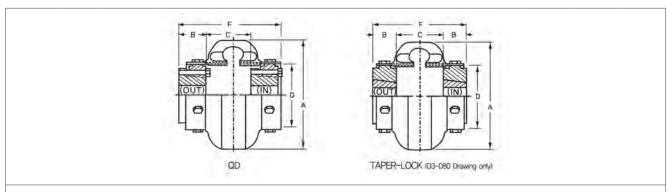
MAX DYNAMIC® Standard Coupling



MAX DYNAMIC® Standard Coupling with Compression Bushed Hubs



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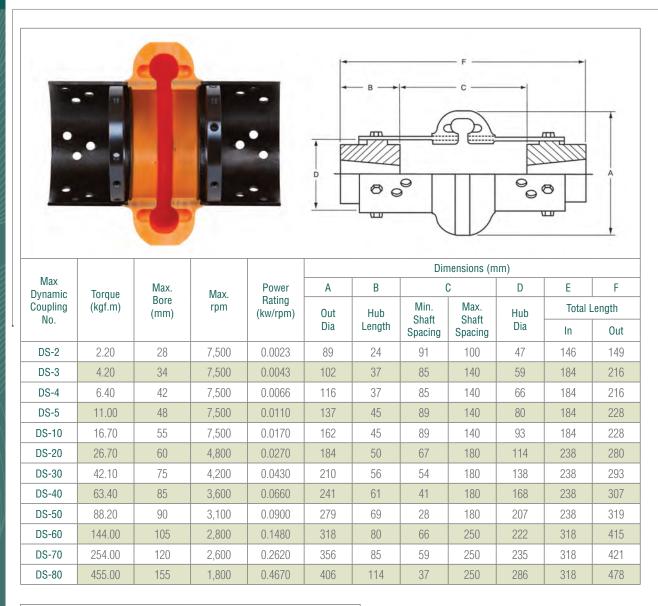
Specification Data with Taper-Lock Hubs

Max	Taper							Din	nensions ((mm)			
Dynamic	Lock	Torque	Max. Bore	Max.	Power Rating	Α	В	(C	D	Е	F	Weight
Coupling No.	Bush No.	(kgf.m)	(mm)	rpm	(kw/rpm)	Out Dia	Hub Length	ı	n	Hub Dia	Total I	ength	(kg)
D-3	1008	4.2	25	7,500	0.0043	102	22	43	3.0	59	8	7	0.82
D-4	1008	6.4	25	7,500	0.0066	116	22	43	3.0	66	8	7	1.18
D-5	1108	11.0	28	7,500	0.0110	137	22	56	6.0	80	1(00	1.81
D-10	1610	16.7	35	7,500	0.0170	162	25	52	2.0	93	1(03	2.72
D-20	1610	26.7	42	6,600	0.0270	184	25	63	3.5	114	1	14	4.08
D-30	2012	42.1	50	5,800	0.0430	210	32	65	5.0	138	12	29	6.17
D-40	2517	63.4	65	5,000	0.0660	241	44	60	0.0	168	14	19	9.89
D-50	2517	88.2	65	4,200	0.0900	279	44	76	6.0	207	16	65	14.29
D-60	3020	144.0	75	3,800	0.1480	318	51	84	1.0	222	18	36	21.14
D-70	3535	254.0	100	3,600	0.2620	356	89	60	0.0	235	23	38	30.25
D-80	4040	455.0	100	2,000	0.4670	406	102	95	5.0	286	29	98	37.19
								In	Out		In	Out	
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® Spacer Coupling

"Australia's Only Genuine Wholesaler"



Recommended Capscrew								
Size	Torque (kgf.m)							
D-2								
D-3								
D-4	2.3							
D-5								
D-10								
D-20								
D-30	4.1							
D-40	4.1							
D-50								
D-60								
D-70	10.2							
D-80								
D-100	27.7							
D-120	37.7							

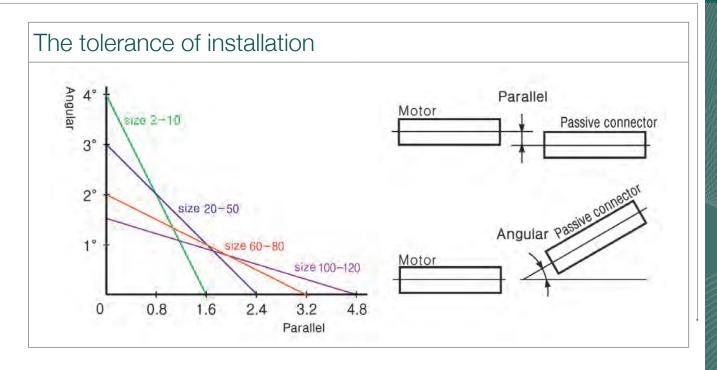
NOTE

- 1. A bolt having the highest tension shall be used
- 2. Locktite as adhesive shall be used
- 3. Never use a bolt more than twice

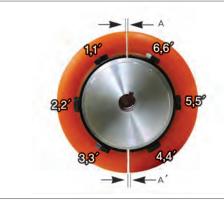
MAX DYNAMIC® Coupling



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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',
- 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



MAX DYNAMIC® Coupling

"Australia's Only Genuine Wholesaler"

Service (safety)	factors for each	running parts	
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	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 accompaning impact	2.5										
5	For being high impact load-weight accompaning slight retro-rotation	3.0										
6	For being frequent retro-rotation accompaning high impact	consult										



Rigid Coupling

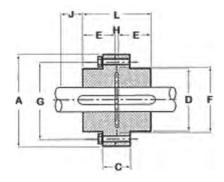


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Rigid Couplings are used in situations where shaft alignment is essential. A misaligned coupling can cause damage and downtime. When properly fitted this torsionally rigid coupling helps prevent any such event. Finer Rigid Couplings are Taper Lock 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.





Counting	Duob	Max.	Bore	Δ.	С	D	Е	Fnom	G nom	H+	1*		l/ a
Coupling	Bush	Metric	Inch	A	U	U		F nom	G HOIH	П+	J	L	Kg
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.

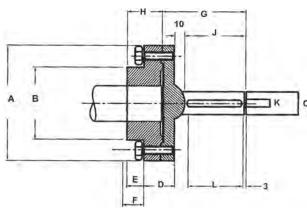


Spacer Coupling

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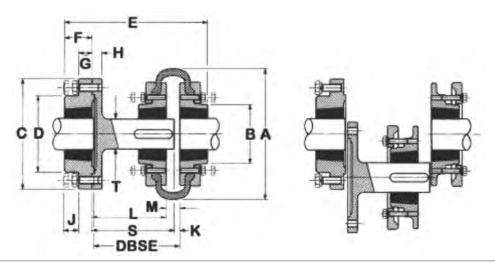
The Spacer Coupling is used to extend the distance of a shaft. Designed in conjunction with the Tyre Coupling specifications, it can be used in combination with other couplings in the Finer Power Transmission range.

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





Space	Spacer Coupling													
Size	Bush	Α	В	С	D	Е	F	G	Н	J	K	L	Kg	
SM16-140	1615	127	80	32	33	20	25	131	41	109	10	65	4.0	
SM25-140	2517	178	127	48	38	23	27	131	48	108	14	72	8.9	
SM25-180	2517	178	127	48	38	23	27	171	48	148	14	78	9.1	
SM30-180	3030	216	146	60	49	47	34	171	79	144	18	80	18.70	



Spa	cer C	Couplii	ng wi	ith T	yre	Co	upli	ng										
Size	Tyre Couple	Spacer Distance	Spacer Bush	Tyre Bush	А	В	С	D	Е	F	G	Н	J	K	L	M	S	Т
_	T40			1008	104	82			200						126	22	94	
SM16- 140	T50	140	1615	1210	133	79	127	80	213	38	18	15	14	9	125	25	134	32
	T60			1610	165	70			214						118	27	134	
SM25-	T80	140	2517	2517	211	95	178	123	233	45	22	16	14	9	116	25	134	48
140	T90	140	2317	2517	235	108	1/0	123	233	40		10	14	9	116	27	134	40
SM25-	T80	180	2517	2517	211	95	178	123	273	45	22	16	14	9	158	25	174	48
180	T90	100	2017	2517	235	108	170	123	273	40	22	10	14	9	156	27	174	40
SM30-	T100	180	3030	3020	254	120	216	146	310	76	29	20	17	9	156	25	174	- 60
180	T110	100	3030	3020	279	134	210	140	310	10	29	20	17	9	158	27	174	00





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

1. Characteristic

- 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 prevent 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.

■ Anglular Misalignment

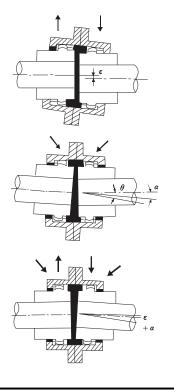
The driving and driven shafts installed with an limited angle.

■ End Floating

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

■ Composite Misalignment

Most of cases, above 3 misalignments appear with mixed in general use.



кср 23

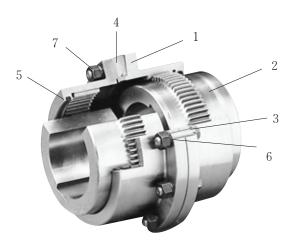


Allowable Misalignment

Size	10G	15G	20G	25G	30G	35G	40G	45G	50G	55G	60G	70G	80G	90G	100G	110G	120G
ε(mm)	1.2	1.3	1.7	2.1	2.4	2.9	3.2	3.6	4.1	4.5	5.0	5.9	6.7	7.4	8.2	12.7	12.7
$\theta^{\circ}(\alpha)$	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)

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

2. Structure



- 1. Internal Gear(Flanged 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. Highs 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 specil treatment is required under the unusual application environments, such as high speed, high or low temperature, chemical corrosiveness, maximum load stress.
- Under the heavy load, high speed and corrosive environment, special materials shall be required.

5. Selection method of size

1. Selection

① Using the following formula, obtain Design Torque required.

T = 97,400
$$\frac{kW}{N}$$
 × S.F 또는 T = 71,620 $\frac{HP}{N}$ × S.F

Τ = Design torque(kg \cdot cm)

kw = Power(kw)ΗP = Power(HP)

= Working revolution (rpm) $S \cdot F$ = Recommended Service Factor

② Select the size with the same or greater value at the Basic Torque column, Refer to the maximum speed allowed to the size selected size, and then compare the shaft diameters of the application with the max. bore dia of the selected size. If the coupling bore is not suitable, select the next larger coupling size.

2. Special requirements.

- ① At the application of the Sliding Gear Coupling (type KGH) that endfloat movement occurs more than 5 times per hour, add 0.5 to the listed value of service factor
- 2) At the applications such as continuous reverse revolutions, intermit operation, often peak load and high inertia required system, multiply 1.5 to the Design Torque calculated.
- 3 In the type of KGES-R and KGFS-O, the thickness and length of intermediate shaft must be determined according to our company's material specifications, consult with our Engineer.
- 4 Selecting the size of types KGDBW and KGSBW: apply brake power, if exceeds the prime mover power.



3. Example

Select Gear Coupling to connect 450HP 1,170rpm electric motor with reducer.

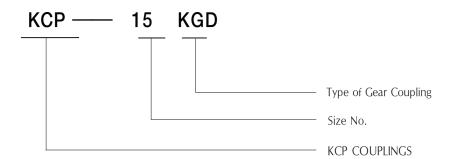
Motor shaft diameter is $80 \, \Phi$ mm, Reducer shaft diameter is $90 \, \Phi$ mm, Max. parallel alignment is 1.5mm

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

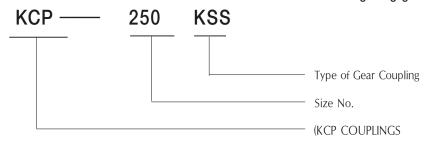
$$HP/100rpm = \frac{450 \times 100 \times 2.0}{1.170} = 76.9$$

Size KGDE25 is selected with rating of 90 HP per 100rpm. To apply larger shaft dia $90 \, \Phi$ mm, finally KGDE 30 is selected.

6. Designation



- KGD: Double Engagement Coupling
- KGDL: Double Engagement Large Coupling
- KGS: Single Engagment Coupling
- KGSL: Single Engagment Large Coupling
- KGDS: Spacer Coupling Double Engagment
- KGH10 : Double Engagmen Horizontal Sliding Coupling
- KGH20: Single Engagmen Horizontal Sliding Coupling



- KSS: Double Engament Coupling
- KSE: Single Engagement Coupling
- KCC: Double Engagement Coupling Large type
- KCE: Single Engagment Coupling Large type

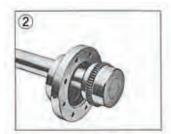


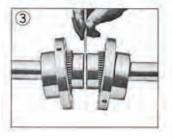
7. Instruction for Installation

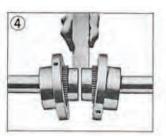
1. Small Size(up to size 60)

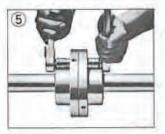
Hub bore and keyway must be machined accurately. During the keyfit to the shaft and the hub, be careful with the oil leakage.

- ① Clean all parts, Grease the crowned gear teeth and O-Ring. Put O-Ring onto the shafts.
- 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° degree, referring to the table 3. Make it sure with a dial gauge not to exceed the offset limit.
- ⑤ Insert gasket between the flanged sleeves and fasten the bolts, positioning the lube plugo at 90°
- 6 Fill grease until overflowing at the open opposite Lub plug hole.









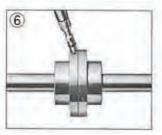


Fig. 3 Operating Limits of misalignment (mm)

Table 3

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(kg · cm)	96	320	480	960	960	1,650	1,650	1,650	2,070	2,070	2,070	2,980			

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

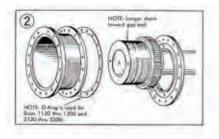


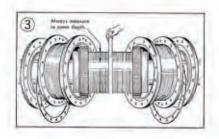
2. Large Size (over size 70)

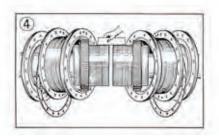
Hub bore and Keyway must be machined accurately.

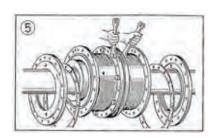
During the Key-Fit work, be careful Internal Gear not to make oil leakage.

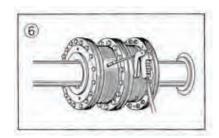
- ① Clean all parts. Pack with grease and seals with grease before assembly.
- ② Place the side covers with sealing gaskets on the shafts before mounting the crown gears. Mount crown gears on their respective shafts. Mount Internal Gears with side cover gaskets.
- ③ Use a spacer bar equal into the gap. The difference in minimum and maximum measurements should not exceed the angular limit specified in table 3.
- 4 Align with a straightedge, rests squarelly at every 90° as shown in photo Check with feelers. The tolerance should not exceed the offset limit specified in Table 3.
- ⑤ Insert gasket between flanges. Position Internal Gears with lube holes at about 90° and then fasten the bolt&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.





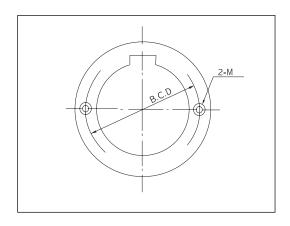








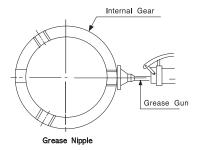
8. Selection of Puller Holes



丑4		Table4
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 and Handling

Information of the adequate lubricant for good performance and long life.



1. Lubricant

- ① Grease the Internal gear teeth and crown gear teeth, and fill enough lubricant Grease.
- ② Lub weight Refer to "Dimensions Table" on page 30.
- ③ Supplement and Replacement; Add grease every moth or every 240~250 hours operating.
 - Renew all the contaminated grease every 3 months or every 4,000 hours operationg
- (4) Selection

Allowable temperature of grease is from -17°C to 70°C. Refer to the table 6 that shows the coupling RPM allowed for the listed grease.

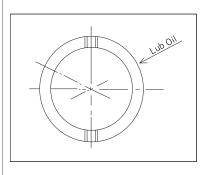
Table 5

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 - O
Mobil Oil Corp.	Mobilux EP - 1	Mobilux EP - O

■ NOTE: Lubricants listed in this manual are typical products.



2. Lubricant Filling



- ① Place the Lub 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 Replacement completely all the contaminated lubricant, every 3 months or every 4,000 hours operating.

3. Selection of Lubricant

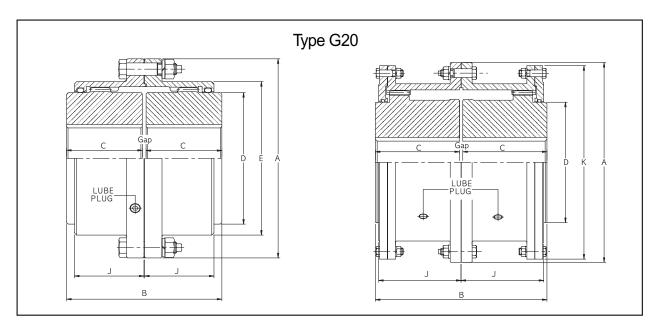
Table 6

Cmc	pany	Shell	Mobil	Michang	Buhmwoo	Gulf	Fujikosan Nipponkoju	Houghton	F	lanil	Caltex
CST 40°C	CST 40°C 315	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
100	465	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	700	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	700	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	1500	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

Aboves are sample products.



Type G20, (Double Gear) Gear Coupling - AGMA Type



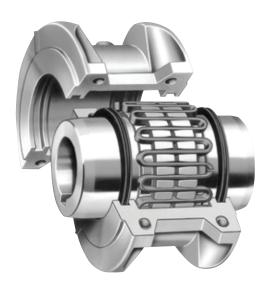
		Т	ype G2	0 Standa	ırd Flang	ed Sleev	е				Dimensi	on(inch)		
Size	HP per 100 rpm	Torque Rating (lb-in)	Allow Speed rpm	Max bore da	Min bore da	Cplg Wt(lb) G20	Lube wf lb	А	В	С	D	Е	J	Gap
1010G	16	10,080	8,000	1,875	50	10	.09	4.56	3.50	1.69	2.70	3.30	1.53	.125
1015G	33	20,790	6,500	2,375	75	20	.16	6.00	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

		Туре	G20 St	andard F	langed S	Sleeve	Dimension(inch)								
Size	Size Torque Rating Ib-in(millions) 1000 2000		Allow Speed rpm	Max bore da	Min bore da	Cplg Wt(lb) G20	o) wf A B	С	D	J	К	Gap			
	Series	Series	тріті	ua	ua	GZ0	10								
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	

Most sizes are kept in srock, for availability please contact your Finer representative.

KCP

KCP Grid Coupling

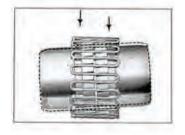


1. Characteristic & Merits

You can get more favorable convinience and cost down by using KCP Taper Grid Steel Flexible Couplings.

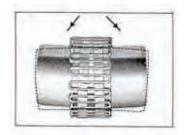
■ PARALLEL MISALIGNMENT

The movement of the grid in the lubricated grooves accommodates parallel missalignment 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.

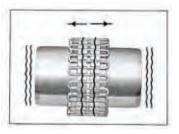


■ END FLOAT

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

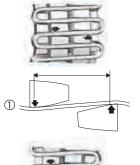
■ TORSIONAL FLEXIBILITY

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



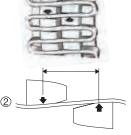
кср 7





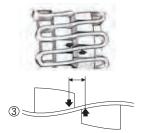
1 Grid in Light Load

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

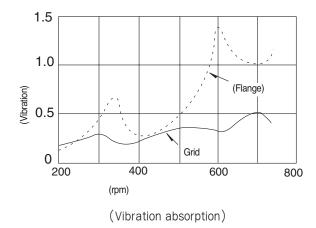
As the load increases, the distance between the contact points on the hub teeth is shortened, but a free span still remains flexible for shock loads.

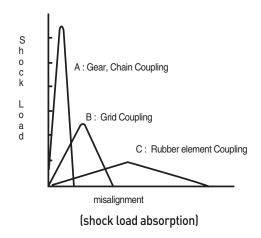


3 Grid in Shock Loads

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

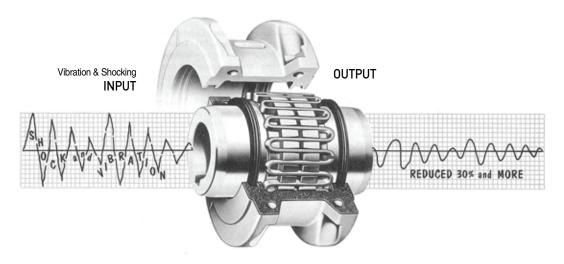
KCP Taper Grid coupling creates the excellent performance as shown below.







The absorption of mechanical vibration of Taper Grid coupling



MERITS

- 1. When overload occurs, grid breaks and prevents breaking shaft or machinery parts conneted.
- 2. When the parallel misaignment 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 transimits the power fully (100%) in low noise.
- 7. You can use it at cheaper maintenance cost by changing damaged parts only.

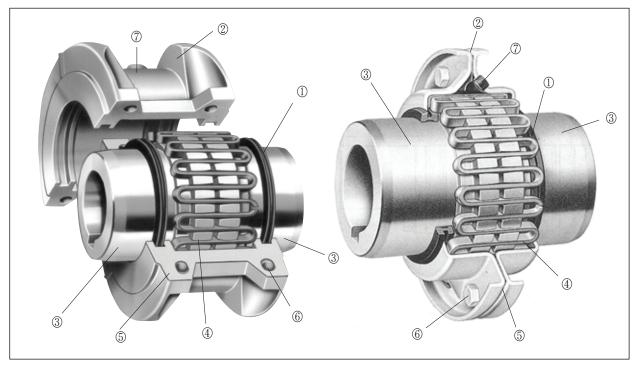
2. Application

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 required to reduce vibration and shock load.
- 2. When required adequate power transmission under line misalignment.
- 3. When required adequate power transmission under angular misaligment.
- 4. When required adequate power transmission under end floating.
- 5. When required to prevent breaking of the machinery parts under over load.
- 6. When reverse revolution is required.
- 7. When required smooth starting.



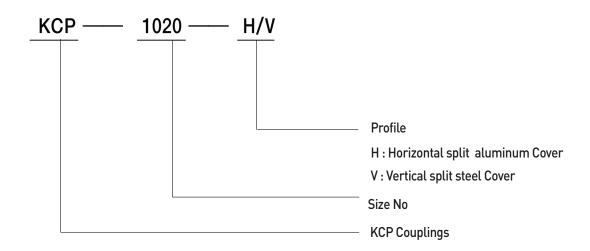
3. Structure



Part

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

4. Designation



KSAS : Full spacer type(Horizontal split cover) KSFS: Half spacer type(Horizontal split cover) KSBW: Brake wheel type(Horizontal split cover)



5. Selection method of size

1. Selection method of size

① By using the following formula, obtain Design Torque required.

T = Design torque(kg \cdot cm)

kw = Power(kw) HP = Power(HP)

N = Working revolution(rpm)

 $S \cdot F$ = Recommended service factor.

- ② Select the size with the same or with the greater value at the Basic Torque column, Refer to the maxmun shaft diamers 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 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 load changes, take service factor twice.

2. Example

When you select a COUPLING to connect 30HP, 1,750rm motor and rotary type pump. Motor shaft dia is 48mm and pump's 52mm.

① service factor of pump is 1.8.

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

② Normal transmitting power is 30HP.

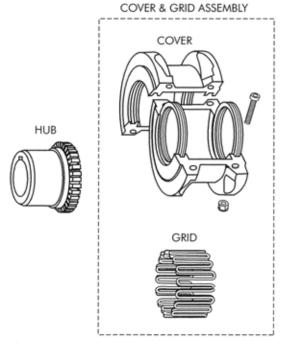
The coupling size 1040 accepts the calculated torque $2210 \,\mathrm{kg} \cdot \mathrm{cm}$. And then compare the application shaft diameter sizes(52mm) to the maximum bore of the selected coupling size $1040(43\,\mathrm{\psi}\,\mathrm{mm})$.

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



6. Installation

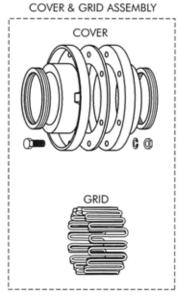
Type H





Type V





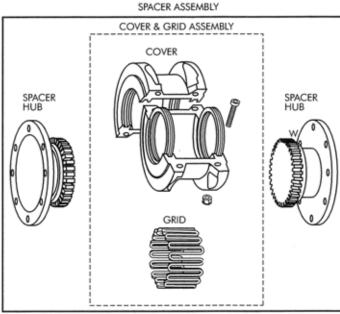




7. Installation

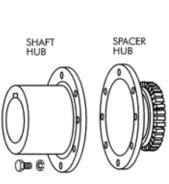
KSAS



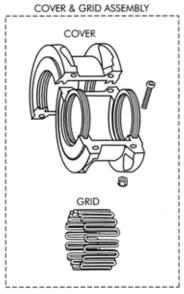




KSFS







SPACER ASSEMBLY

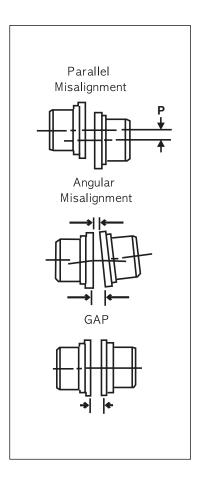




fig. 3 misalignment capacity

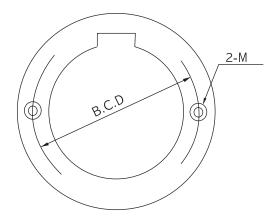
(Unit:mm)

	Recommer	nded installation	ion Operating								
Size	Parallel offset p	Angular(1/16°) X - Y	Parallel offset p	Angular(1/4°) X - Y	gap ±10%						
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.	Bolt Size	CPLG Size	B.C.D.	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



9. Lubrication and Handing

Choose high qualty 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 lub plug of the assembled coupling.

2. Supplement

Every three month Every 240~250 hours operating, you should add grease.

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

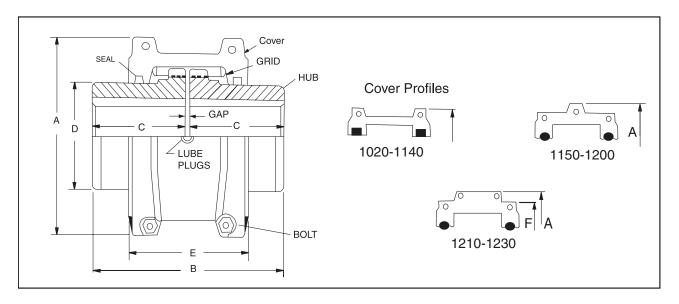
	Ambient Temperature Range:									
Manufacture	0°F to 150°F (-18°C to 66°C)	-30°F to 100°F (-34°C to 38°C)								
Amoco Oil Co. Atlantic Richfield co. Chevron U.S.A Inc. Cities Service Co. Conoco Inc. Exxon Company, USA Gulf Oil Corp. E.F.Houghton & Co. Impenrial Oil Ltd. Keystone Div.(Pennwalt)	Amolith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

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



10. Dimensions

Type H (Horizontal Split Aluminium Cover)



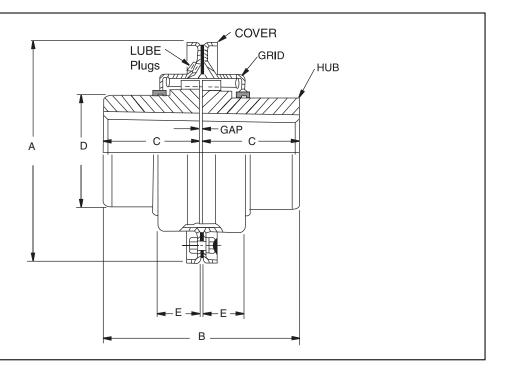
HP Per Max. Basic Size 100 Speed Torque				,	e Dia m)	Dimension(mm)						Gap(mm)			Lube Wt	Size
3120	rpm	(rpm)	(kg·cm)	Max.	Min.	А	В	С	D	E	Min.	Normal	Max.	Wt(kg)	(kg)	OIZO
1020H	0.68	4,500	486	30	12	101.6	98.0	47.5	39.7	66.5	1.5	3	4.5	1.9	0.03	1020
1030H	1.93	4,500	1,383	35	12	110.0	98.0	47.5	49.2	68.3	1.5	3	4.5	2.6	0.03	1030
1040H	3.22	4,500	2,304	43	12	117.5	104.6	50.8	57.1	70.0	1.5	3	4.5	3.4	0.05	1040
1050H	5.63	4,500	4,033	50	12	138.0	123.6	60.3	66.7	79.5	1.5	3	4.5	5.4	0.05	1050
1060H	8.85	4,350	6,337	55	19	150.5	130.0	63.5	76.2	92.0	1.5	3	4.5	7.3	0.09	1060
1070H	13	4,125	9,217	65	19	161.9	155.4	76.2	87.3	95.0	1.5	3	4.5	10	0.11	1070
1080H	27	3,600	19,010	78	27.0	194.0	180.8	88.9	104.8	116.0	1.5	3	4.5	18	0.17	1080
1090H	48	3,600	34,564	95	27.0	213.0	199.8	98.4	123.8	122.0	1.5	3	6	25	0.25	1090
1100H	81	2,400	58,183	107	41	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	41	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	60	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	67	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	67	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	108	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



Type V (Vertical Split Steel Cover)



Size	HP Per	Max. Speed	Basic Torque		e Dia m)		Dim	ensions	(mm)		(Gap(mm)		Cplg	Lub Wt	Size
rpm	rpm	(rpm)	(kg·cm)	Max.	Min.	А	В	С	D	E	Min.	Normal	Max.	Wt(kg)	(kg)	
1020	0.68	6,000	486	30	12.7	111.1	98.0	47.5	39.7	24.2	1.5	3	4.5	2.0	0.03	1020
1030	1.93	6,000	1,383	36	12.7	120.7	98.0	47.5	49.2	25.0	1.5	3	4.5	2.6	0.03	1030
1040	3.22	6,000	2,304	44	12.7	128.5	104.6	50.8	57.1	25.7	1.5	3	4.5	3.4	0.05	1040
1050	5.63	6,000	4,033	50	12.7	147.6	123.6	60.3	66.7	31.2	1.5	3	4.5	5.4	0.05	1050
1060	8.85	6,000	6,337	57	19.1	162.0	130.0	63.5	76.2	32.2	1.5	3	4.5	7.3	0.09	1060
1070	13	5,500	9,217	65	19.1	173.0	155.4	76.2	87.3	33.7	1.5	3	4.5	10.4	0.11	1070
1080	27	4,750	19,010	79	27.0	200.0	180.8	88.9	104.8	44.2	1.5	3	4.5	17.7	0.17	1080
1090	48	4,000	34,564	95	27.0	231.8	199.8	98.4	123.8	47.7	1.5	3	6	25.4	0.25	1090
1100	81	3,250	58,183	107	41.3	266.7	245.7	120.6	142.0	60.0	1.5	3	6	42.2	0.43	1100
1110	121	3,000	86,411	117	41.3	285.8	258.5	127.0	160.3	64.2	1.5	4.5	12.5	54.4	0.51	1110
1120	177	2,700	126,736	136	60.3	319.0	304.4	149.2	179.4	73.4	1.5	4.5	12.5	81.6	0.73	1120
1130	257	2,400	184,343	165	66.7	377.8	329.8	161.9	217.5	75.1	1.5	6	12.5	122.5	0.91	1130
1140	370	2,200	264,993	184	66.7	416.0	371.6	182.8	254.0	78.2	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.