GRID

COUPLING



GRID COUPLING

■ Characteristics

1) PARALLEL

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.

2) ANGULAR

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 resilent grid.

3) END FLOAT

Unrestrained end float for both driving and driven membres is permitted because the grid slides freely in the lubricated grooves. It can also be limited to any required amount.

4) TORSIONAL FLEXIBLITY

When shock, vibration, and overload occuring at start act with the grid, which are reduced by the flexibility of grid that makes power point move to the tooth face.

■ Torsional Flexibility

1) LIGHT LOAD

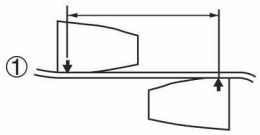
The grid bears near the outer edges of the hub teeth. The long span between the points of contact remains free to flex under load variations

2) NORMAL LOAD

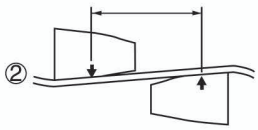
As the load increases, the distance between the contact points on the hub teeth is shortened, but a free span still remains to cushion shock loads.

3) SHOCK LOAD

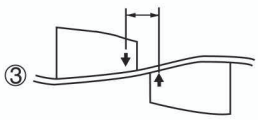
The coupling is flexible within its rated capacity. Under extreme overioads, the grid bears fully on the hub teeth and transmits full load directly.



(LIGHT LOAD)



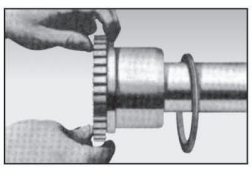
(NORMAL LOAD)



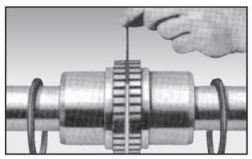
(SHOCK LOAD)

■ Instruction for Installation

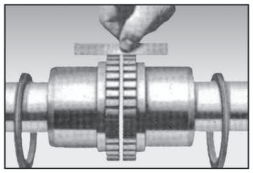
1) Clean all metal parts using nonflammable solvent. Lightly coat oil seals with grease and place on shaft before mounting Hub.



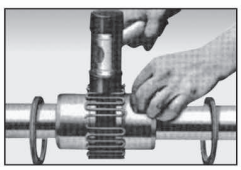
2) Using a spacer bar, make the gap egual in thickness.



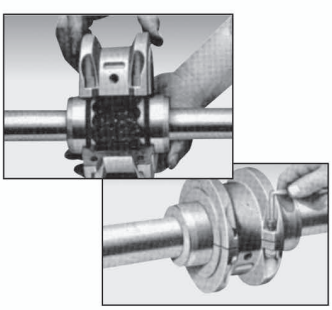
3) Align so that a straight edge rests squarely on both hubs as shown fig.
The clearance must not exceed the limit specified in table 2.



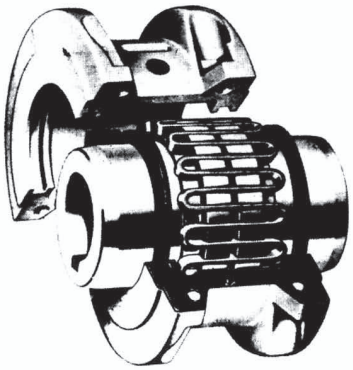
4) After greasing the tooth groove hub, fix the grid in the same direction.

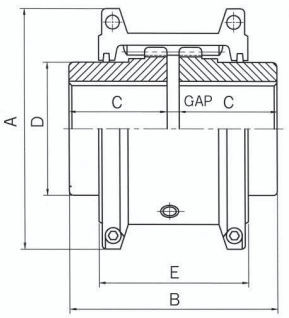


5) Pack the spaces between and around the grid wlth as much lubricants as possible and position gaskets on half assembled lower cover so that the match marks are on the same side.



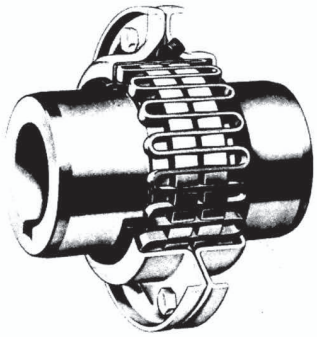
SH(Horizontal Split aluminum) TYPE

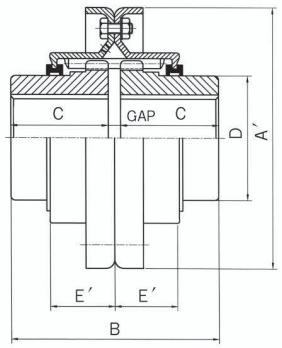




SH(Horizontal Split alumminum cover) TYPE

SV(Vertical Split Steel Cover) TYPE



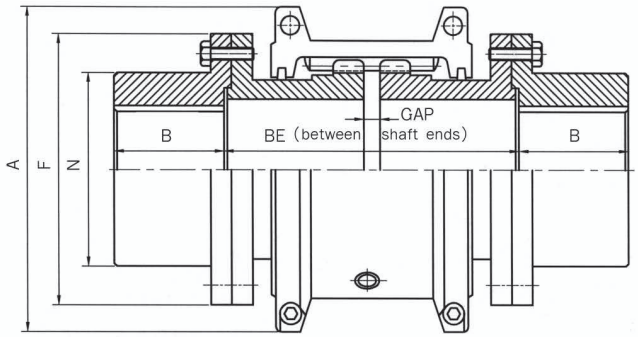


SV(Vertical Split Steel cover) TYPE

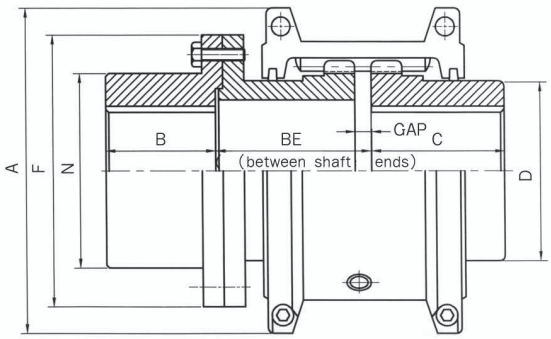
Size	HP Per 100 (rpm)	Max Speed (rpm)	Basic torque (kgf · cm)	Bore(mm)		Dimensions(mm)							Gap(mm)			Coupling Weight (kg)	Lube Weight (kg)
				Max	Min	A	A´	B	C	D	E	E´	Min.	Normal	Max.		
20S	0.68	4,500	486	30	12.7	101.6	111.1	98.0	47.5	39.7	66.5	24.2	1.5	3	4.5	1.9	0.03
30S	1.93	4,500	1,383	36	12.7	111.0	120.7	98.0	47.5	49.2	68.3	25.0	1.5	3	4.5	2.6	0.03
40S	3.22	4,500	2,304	44	12.7	117.5	128.5	104.6	50.8	57.1	70.0	25.7	1.5	3	4.5	3.4	0.05
50S	5.63	4,500	4,033	50	12.7	138.0	147.6	123.6	60.3	66.7	79.5	31.2	1.5	3	4.5	5.4	0.05
60S	8.85	4,350	6,337	57	19.1	150.5	162.0	130.0	63.5	76.2	92.0	32.2	1.5	3	4.5	7.3	0.09
70S	13	4,125	9,217	65	19.1	161.9	173.0	155.4	76.2	87.3	95.0	33.7	1.5	3	4.5	10	0.11
80S	27	3,600	19,010	79	27.0	194.0	200.0	180.8	88.9	104.8	116.0	44.2	1.5	3	6	18	0.17
90S	48	3,600	34,564	95	27.0	213.0	231.8	199.8	98.4	123.8	122.0	47.7	1.5	3	6	25	0.25
100S	81	2,440	58,183	107	41.3	250.0	266.7	245.7	120.6	142.0	155.5	60.0	1.5	4.5	9.5	42	0.43
110S	121	2,250	86,411	117	41.3	270.0	285.8	258.5	127.0	160.3	161.5	64.2	1.5	4.5	9.5	54	0.51
120S	177	2,025	126,736	136	60.3	308.0	319.0	304.4	149.2	179.4	191.5	73.4	1.5	6	12.5	81	0.73
130S	257	1,800	184,343	165	66.7	346.0	377.8	329.8	161.9	217.5	195.0	75.1	1.5	6	12.5	121	0.91
140S	370	1,650	265,993	184	66.7	384.0	416.0	371.6	182.8	254.0	201.0	78.2	1.5	6	12.5	178	1.13
150S	515	1,500	368,686	203	100.0	453.1	476.3	371.8	182.9	269.2	271.3	106.9	1.5	6	12.5	234	1.95
160S	724	1,350	518,465	228	120.7	501.4	533.4	403.3	198.1	304.8	278.9	114.3	1.5	6	12.5	317	2.81
170S	965	1,225	691,286	279	133.4	566.4	584.2	437.8	215.9	355.6	304.3	119.4	1.5	6	12.5	448	3.49
180S	1,338	1,100	958,584	311	152.4	629.9	630.0	483.6	238.8	393.7	321.1	130.0	1.5	6	12.5	619	3.76
190S	1,770	1,050	1,267,358	339	152.4	675.5	685.0	524.2	259.1	436.9	325.1	135.0	1.5	6	12.5	776	4.40
200S	2,413	900	1,728,216	361	177.8	756.9	737.0	564.8	279.4	497.8	355.6	145.0	1.5	6	12.5	1,057	5.62

※ Coupling Weight, Without Bore machining.

SPACE TYPE



SAS(Full Space) TYPE

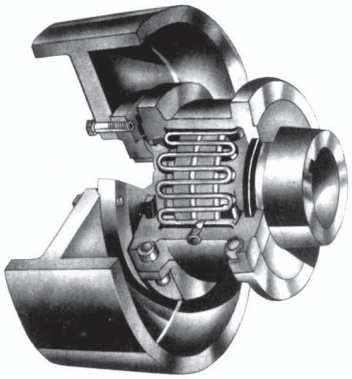


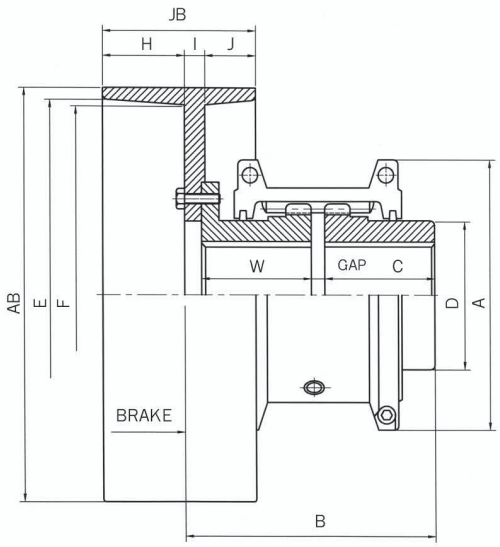
SFS(Half Space) TYPE

Size	HP Per 100 (rpm)	Max Speed (rpm)	Basic torque (kgf · cm)	Bore Dia (mm)		Dimensions(mm)									Flange Bolt No.	Lube Weight (kg)
						A	B	BE(SAS)		BE(SFS)		N	F	Gap		
				Max.	Min.			Min.	Max.	Min.	Max.					
20S	0.68	3,600	486	36	12.7	101.6	35	89	203	45	102	52	86	5	4	0.03
30S	1.93	3,600	1,383	44	12.7	111.0	41	89	216	45	109	59	94	5	8	0.03
40S	3.22	3,600	2,304	57	12.7	117.5	54	89	216	45	109	78	113	5	8	0.05
50S	5.63	3,600	4,033	64	12.7	138.0	60	112	216	57	109	87	126	5	8	0.05
60S	8.85	3,600	6,337	79	19.1	150.5	73	127	330	64	166	103	145	5	8	0.09
70S	13	3,600	9,217	83	19.1	161.9	79	127	330	64	166	109	153	5	12	0.11
80S	27	3,600	19,010	95	27.0	194.0	89	184	406	93	204	122	178	5	12	0.17
90S	48	3,600	34,564	108	27.0	213.0	102	184	406	93	204	142	210	5	12	0.25
100S	81	2,440	58,183	127	38.1	250.0	90	203	406	103	205	171	251	6.5	12	0.43
110S	121	2,250	86,411	149	50.8	270.0	104	210	406	106	205	196	277	6.5	12	0.51
120S	177	2,025	126,736	165	63.5	308.0	119	246	406	125	205	225	319	9.5	12	0.73
130S	257	1,800	184,343	178	76.2	346.0	135	257	406	130	205	238	346	9.5	12	0.91
140S	370	1,650	264,993	203	88.9	384.0	152	267	406	135	205	266	386	9.5	12	1.13
150S	515	1,500	368,686	254	101.6	453.1	173	345	371	175	187	334	425	9.5	14	1.95
160S	724	1,350	518,465	279	114.3	501.4	186	356	406	180	205	366	457	9.5	14	2.81
170S	965	1,225	691,286	330	127.0	566.4	220	384	445	194	224	425	527	9.5	16	3.49
180S	1,338	1,100	958,584	330	101.6	629.9	249	400	490	202	247	451	591	9.5	16	3.76
190S	1,770	1,050	1,267,358	362	114.3	675.6	276	411	530	207	267	508	660	9.5	18	4.40
200S	2,413	900	1,728,216	381	127.0	756.9	305	445	575	224	289	530	711	9.5	18	5.62

※ Coupling Weight, Without Bore machining.

SBW(Brake Wheel) TYPE





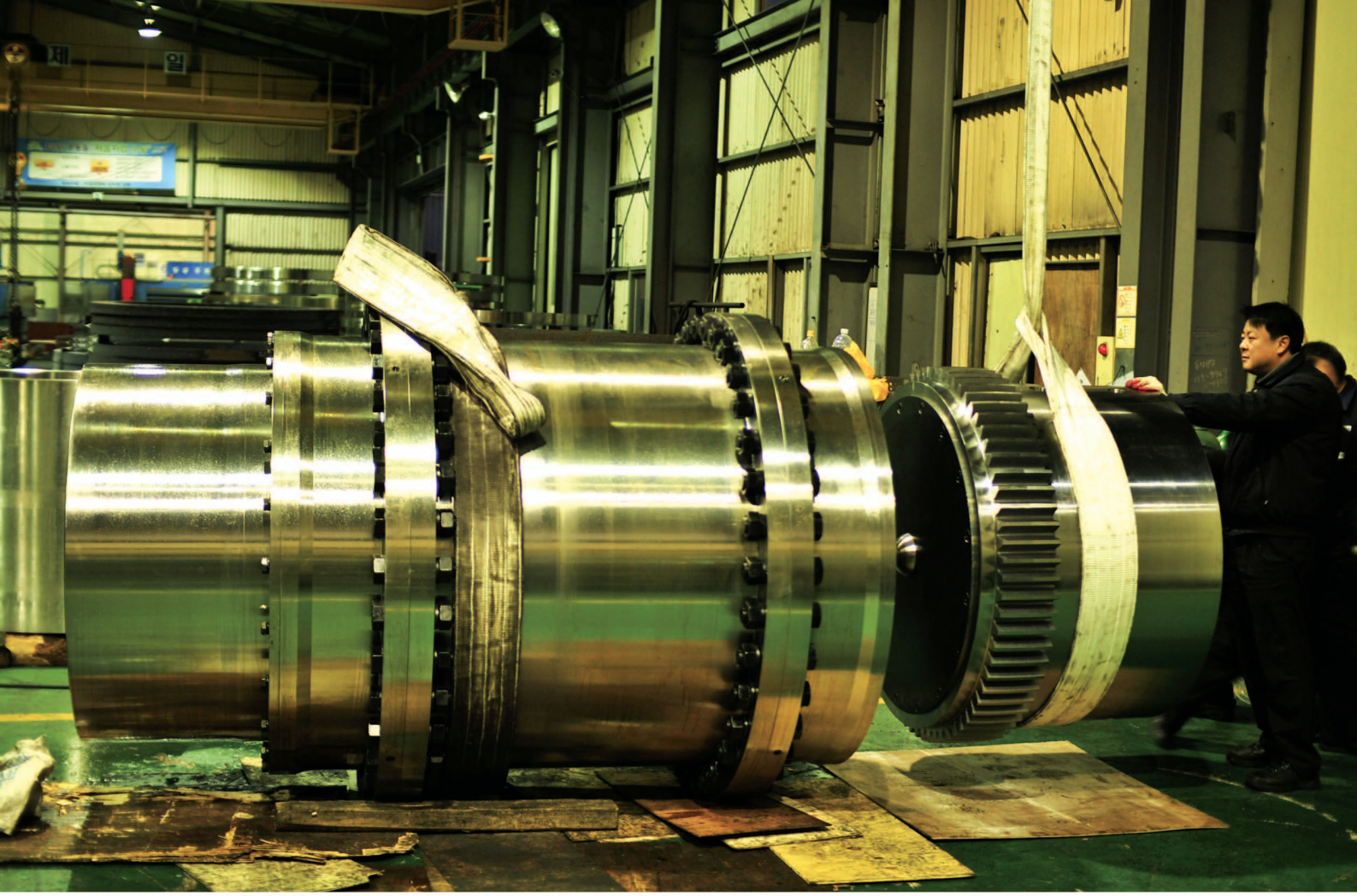
Cplg Size	Standard Brake Wheel	
	Moter Power (40% ED KW)	Brake Torque (kg, m)
2020S		
2030S		
2040S	2.2	5
2050S	5.5	10
2060S	5.5 7.5 11	10 14 21.2
2070S	15	30
2080S	30	53
2090S	37 45	63 80
2100S	45	132
2110S	75 90	180
2120S	110 132	335
2130S	160 200	400 475
2140S	160 200	400 475

※Based on crane motor.

Brake wheel Size(mm)		Size	Max,Brake Rating of CPLG (kgf,cm)	Bore Dia. (mm)		Dimension (mm)									Lube Weight (kg)
AB	JB			Max.	Min.	A	C	D	E	F	H	I	J	Gap	
		20S	110	30	12.7	102	48	39.6						3	0.03
		30S	359	36	12.7	111	48	49						3	0.03
160	80	40S	663	44	12.7	117	51	57	145	140	40	12	28	3	0.05
200	100	50S	1,202	50	12.7	138	60	66	184	178	50	17	33	3	0.05
200	100	60S	2,129	57	19.1	151	63	76	184	178	50	17	33	3	0.09
250	125	70S	3,373	68	19.1	162	76	87	230	224	62.5	22	40.5	3	0.11
315	160	80S	6,497	82	27.0	194	89	105	292	285	80	23	57	3	0.17
355	180	90S	11,060	95	27.0	213	98	124	330	320	90	26	64	3	0.25
400	200	100S	19,355	107	41.3	251	121	142	374	362	100	28	72	5	0.43
450	224	110S	29,032	117	41.3	270	127	160	422	410	112	32	80	5	0.51
500	250	120S	44,240	136	60.3	308	149	179	462	445	125	35	90	6	0.73
560	280	130S	66,212	165	66.7	346	162	218	516	495	140	45	95	6	0.91
560	280	140S	89,862	184	66.7	384	184	253	516	495	140	45	95	6	1.13

※If you need SBW type

First, determine the size of brake of your coupling and then the 'B' and 'W' according to above dimension.









Jac coupling

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