

FLEXIBLE DISC

COUPLING





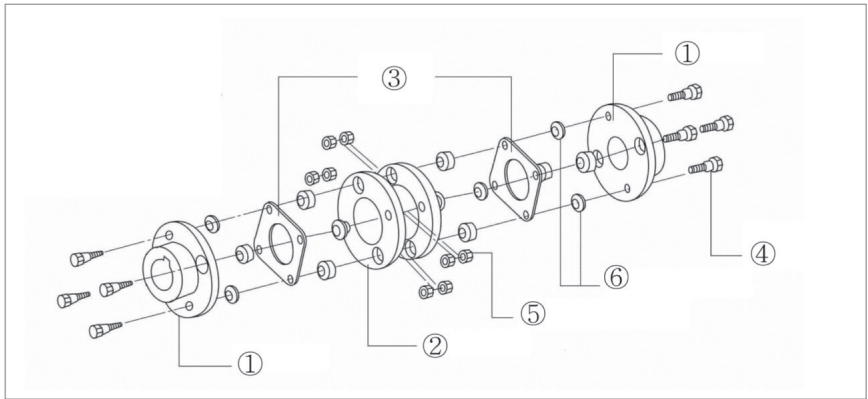
DISK COUPLING

FEATURE

1. Due to distinct advantages of high torsional stiffness and back-lash free, Disk coupling is widely used for Numerical Control type machine tool, paper machines and pumps requiring for accurate shaft rotation and position control.
2. It consists of a simple structure with small and lightweight and thus, it reduces loads on bearings and other connected equipment, extending system life.
3. While operating, the lubrication oil is unnecessary. So, it is economical and easy to maintain.
4. Provided that the model is properly selected and initial installation condition is unchanged, you may expect unlimited service life.

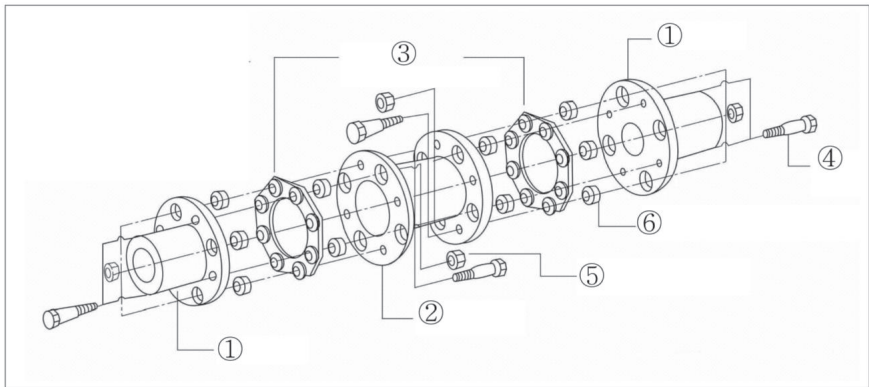
STRUCTURE

1. 4 BOLT TYPE



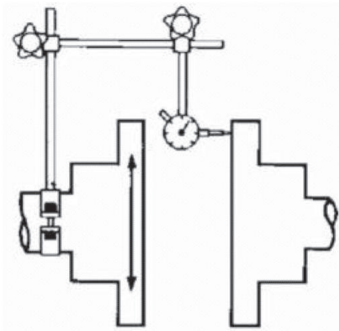
PART NAME	
①	HUB
②	SPACER
③	DISK PACK
④	BOLTS
⑤	NUTS
⑥	WASHERS

2. 6 BOLT or 8 BOLT TYPE

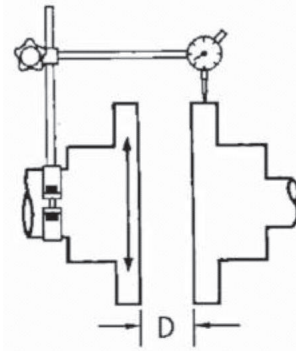


PART NAME	
①	HUB
②	SPACER
③	DISK PACK
④	BOLTS
⑤	NUTS
⑥	WASHERS

INSTALLATION

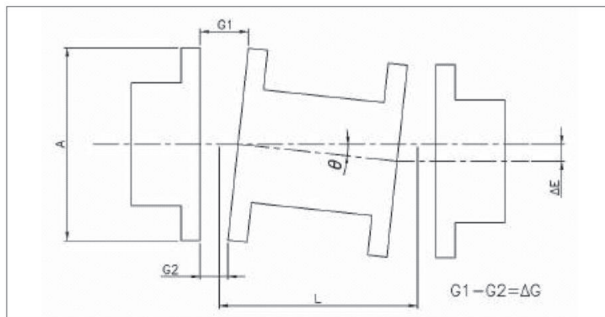


(Fig 1)



(Fig 2)

1. Before installation, please make clean both shafts, as well as hub bores, to make sure they are free of dust and burrs. Clean and de-burrs are necessary. Measure the bore and shaft diameters to assure proper fit.
2. In terms of BE(Between Shaft Ends), please refer to the dimension chart "G" or "D" amount. (Tolerance is $\pm 0.25\text{mm}$)
3. Check Alignment – Angular misalignment: Rigidly mount a dial indicator on one hub and place indicator on the face of the other hub. Rotate both shafts together one revolution noting minimum and maximum dial indicator readings(Fig. 1). In order to minimize the value, the difference of these values should not exceed as mentioned on Table 1.
4. Check Alignment – Parallel misalignment: Rigidly mount a dial indicator on one hub and place indicator on the other hub flange outside diameter. Rotate both shafts together one revolution noting minimum and maximum dial indicator readings. After checking the parallel misalignment, find the value of ΔG as shown on Fig. 3 and the difference of these values should not exceed as mentioned on Table 1 value specified in the manufacturer's installation guide.
5. After checking alignment, please assemble spacer and element into the hubs. And insert bolt thru the hubs, spacer and element adaptor holes. Please tighten the bolt sets to the torque listed on the Table 2.
6. For its long lifespan, we recommend you to recheck final alignment again, within 2 hours from initial operation. In case of assemble and disassemble, we recommend you to try within 10 times.
7. You may refer to below data during installation.



(Fig 3)

- ① Angular misalignment permissible value : Refer to Table 1
- ② Parallel misalignment permissible value : Please calculate the amount of angular misalignment and parallel alignment according to installation length(L)

$$\Delta E = L \tan \theta$$
- ③ Dial indicator reading value:

$$\Delta G = A \tan \theta \quad (\text{Refer to Table 1})$$

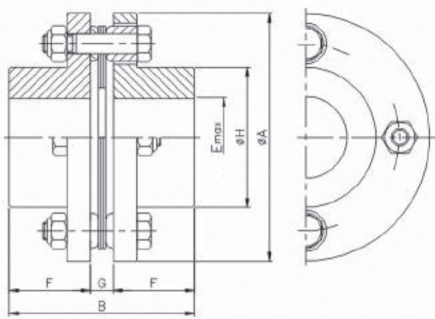
(Table 1) Misalignment value for

TYPE	Angular misalignment	Size	00	01	02	03	04	05	10	15	20	25	30	35	40	45	50	55	60	65
A	0.1	Value (mm)	-	-	-	-	-	0.12	0.14	0.16	0.18	0.22	0.25	0.29	0.34	0.37	0.43	0.48	-	-
E	0.07		0.15	0.17	0.2	0.22	0.26	0.34	0.34	0.38	0.42	0.46	0.5	0.54	0.57	0.62	0.68	0.72	0.77	0.8
G	0.05		-	0.19	-	0.21	-	0.24	0.24	0.27	0.3	0.33	0.36	0.39	0.41	0.45	0.49	0.51	0.55	0.57

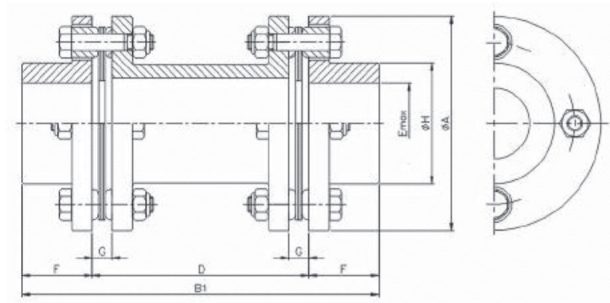
(Table 2) Bolt Fastening

SIZE NO.		00	01	02	03	04	05	10	15	20	25	30	35	40	45	50	55	60	65
Fastening Torque (kgf • m)	Type-A(4-Bolt)	-	-	-	-	-	0.9	0.9	2.2	2.2	4.2	7.3	7.3	15.9	15.9	22.1	58	-	-
	Type-E(6-Bolt)	2.2	4.2	7.3	15.9	22.1	22.1	22.1	45.0	58.0	110.0	150.0	170.0	170.0	170.0	310.0	360.0	380.0	410
	Type-G(8-Bolt)	-	7.3	-	15.9	-	22.1	22.1	45.0	58.0	110.0	150.0	170.0	170.0	170.0	310.0	360.0	380.0	410

DIMENSION



A3 Type(4 Bolts Single type)



AX, A4 Type (4 Bolts Double type)

A3 Type

Size	Torque Rating (kgf · m)	Allow Speed (rpm)	Dimension(mm)									Weight (kg)	GD ² (kgf · m ²)
			Standard hub (N-hub)						Special hub				
			A	B	E-max	F	G	H	P-hub F	Z-hub H E-max			
05	3.4	47,000	67.4	56.9	22	25.4	6.1	33.1	40	47	32	0.6	0.0008
10	9.2	39,000	81.1	57.4	32	25.4	6.6	45.8	40	58	40	1.1	0.0024
15	18.0	34,000	92.8	65.8	35	28.7	8.4	50.8	45	66	42	1.7	0.0048
20	25.0	30,000	103.7	78.2	42	33.5	11.2	61.0	50	77	48	2.4	0.0080
25	43.0	25,000	125.8	93.9	50	41.1	11.7	71.2	60	92	60	4.3	0.0220
30	79.0	22,000	143.0	107.3	58	47.8	11.7	83.9	70	104	70	6.9	0.0440
35	130.0	19,000	168.0	131.2	72	57.2	16.8	105.5	85	129	85	11.5	0.1080
40	210.0	16,000	194.1	144.0	82	63.5	17.0	118.2	100	147	95	16.4	0.2080
45	340.0	15,000	214.2	174.0	95	76.2	21.6	137.2	115	166	110	28.0	0.3520
50	500.0	13,000	246.2	201.7	108	88.9	23.9	156.3	135	191	120	37.0	0.7200
55	650.0	11,000	275.6	230.4	118	101.6	27.2	169.0	150	209	130	51.0	1.2800

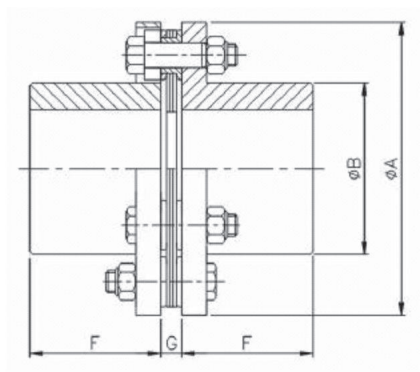
※ The values of weight and GD² are only for without machining

AX, A4 Type

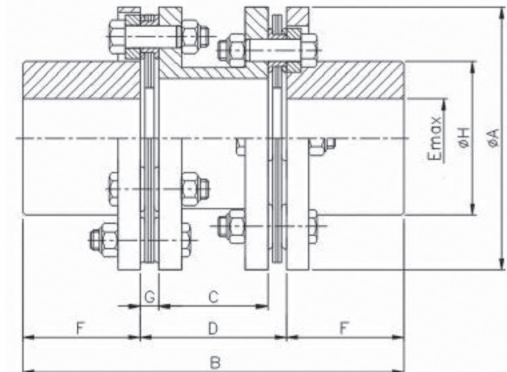
Size	Torque Rating (kgf · m)	Allow Speed (rpm)	Dimension(mm)									B1	D
			A	A4(STANDARD)			AX(Short)			A5(Customized)			
				D	Weight (kg)	GD ² (kgf · m ²)	D	Weight (kg)	GD ² (kgf · m ²)				
05	3.4	47,000	67.4	88.9	1.2	0.0018	36	1.1	0.0017	2F+D	TBD		
10	9.2	39,000	81.1	88.9	1.9	0.0044	39	1.7	0.0041				
15	18.0	34,000	92.8	101.6	2.9	0.0084	47	2.7	0.0079				
20	25.0	30,000	103.7	127.0	4.1	0.0150	55	3.7	0.0136				
25	43.0	25,000	125.8	127.0	7.1	0.0400	62	6.6	0.0337				
30	79.0	22,000	143.0	127.0	10.8	0.0800	69	10.3	0.0775				
35	130.0	19,000	168.0	127.0	16.3	0.1650	78	15.6	0.1630				
40	210.0	16,000	194.1	139.7	24.7	0.3400	91	24.0	0.3320				
45	340.0	15,000	214.2	152.4	32.5	0.5500	104	31.5	0.5430				
50	500.0	13,000	246.2	177.8	50.0	1.1200	110	48.4	1.0860				
55	650.0	11,000	275.6	177.8	75.0	2.0400	134	73.9	2.0130				

※ The values of weight and GD² are only for without machining

DIMENSION



E3 Type (6 Bolts Single type)



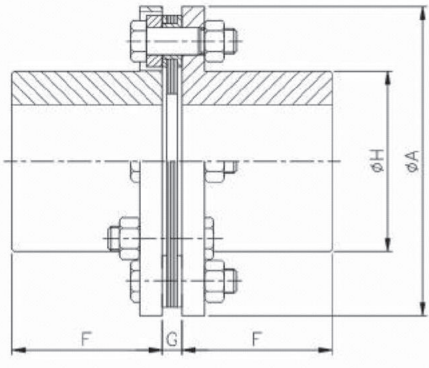
E4 Type (6-Bolts Double type)

E Type

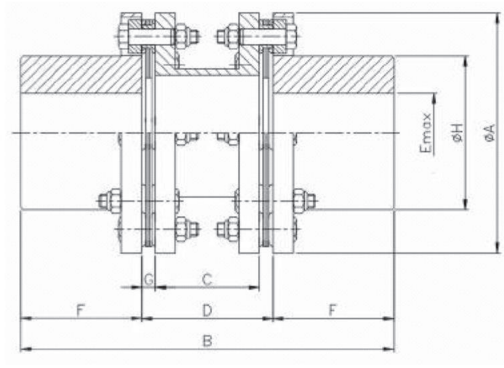
Size	Torque Rating (kgf · m)	Allow Speed (rpm)	Dimension(mm)								Weight (kg)	GD ² (kgf · m ²)	Axial play Max (± mm)
			Standard hub (N-hub)										
			A	B	C	D	E-max	F	G	H			
00	58	26,000	119	168	39.4	60	51	54	10.3	74	6.0	0.03	3.0
01	94	23,000	137	198	50.0	72	55	63	11.0	81	9.1	0.06	3.4
02	174	19,000	161	238	67.2	90	67	74	11.4	97	16.9	0.14	3.6
03	341	17,000	180	269	82.4	109	72	80	13.3	104	21.6	0.26	4.2
04	633	15,000	212	308	87.6	118	85	95	15.2	124	35.1	0.59	4.5
05	620	11,000	276	377	118.0	153	111	112	17.5	161	65.1	1.80	3.9
10	840	11,600	276	377	115.0	153	111	112	19.0	161	66.1	1.90	3.9
15	1,090	10,300	308	440	134.0	172	133	134	19.0	193	107.8	3.70	4.2
20	1,820	9,200	346	497	148.0	191	152	153	21.5	218	156.1	6.70	4.9
25	2,690	8,500	375	553	175.0	223	165	165	24.0	240	211.8	10.60	5.2
30	3,410	7,800	410	610	195.0	254	178	178	29.5	258	274.5	16.50	5.4
35	4,070	7,200	445	646	211.0	270	187	188	29.5	272	333.3	23.90	5.6
40	4,720	6,800	470	686	212.0	274	205	206	31.0	297	399.2	30.70	6.3
45	6,100	6,200	511	749	223.0	287	231	231	32.0	334	525.3	48.00	6.7
50	7,620	5,700	556	800	227.0	292	254	254	32.5	364	676.3	72.90	7.3
55	9,440	5,400	587	839	243.0	311	263	264	34.0	382	803.4	100.60	7.8
60	10,890	5,000	629	895	274.0	343	275	276	34.5	399	954.1	137.70	8.7
65	13,070	4,800	654	934	285.0	356	289	289	35.5	419	1,095.3	176.90	8.9

※ The values of weight and GD² are only for without machining.

DIMENSION



G3 Type
(8- Bolts Single type)



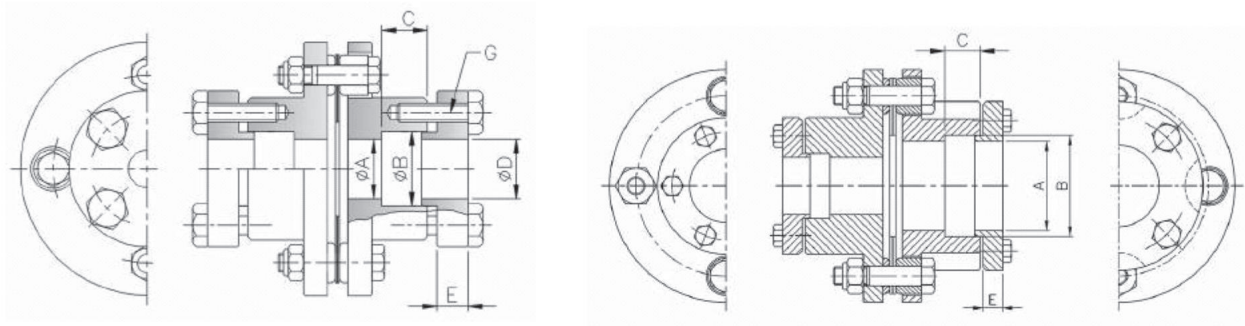
G4 Type
(8-Bolts Double type)

G Type

Size	Torque Rating (kgf · m)	Allow Speed (rpm)	Dimension(mm)								Weight (kg)	GD ² (kgf · m ²)	Axial play Max (± mm)
			Standard hub (N-hub)										
			A	B	C	D	E-max	F	G	H			
01	392	15,000	214	333	92.6	117	95	108	12.2	137	38	0.65	2.1
03	726	13,000	246	369	99.6	127	108	121	13.7	156	55.5	1.24	2.1
05	915	11,600	276	421	118.0	153	111	134	17.5	161	72.2	1.80	2.1
10	1,200	11,600	276	421	115.0	153	111	134	19.0	161	73.2	1.80	2.1
15	1,570	10,300	308	492	134.0	172	133	160	19.0	192	119.7	3.70	2.4
20	2,610	9,200	346	557	146.0	191	152	183	22.5	218	174.3	6.80	2.9
25	3,850	8,500	375	619	167.0	223	165	198	28.0	240	233.8	10.80	3.1
30	4,870	7,800	410	682	192.0	254	178	214	31.0	258	305.2	16.70	3.3
35	5,820	7,200	445	720	208.0	270	187	225	31.0	272	367.4	25.00	3.6
40	6,570	6,800	470	768	206.0	274	205	247	34.0	297	447.5	31.10	4.0
45	8,530	6,200	511	843	217.0	287	231	278	35.0	334	591.6	48.00	4.5
50	10,530	5,700	556	902	218.0	292	254	305	37.0	364	761.4	74.70	5.0
55	13,070	5,400	587	945	236.0	311	263	317	37.5	382	901.9	101.60	5.2
60	15,240	5,000	629	1,005	274.0	243	275	321	34.5	399	1,067.6	138.60	5.6
65	18,150	4,800	654	1,050	285.0	356	289	347	35.5	419	1,230.7	178.40	5.7

※ The values of weight and GD² are only for without machining.

DIMENSION



N/N hub Type

Z/N hub Type

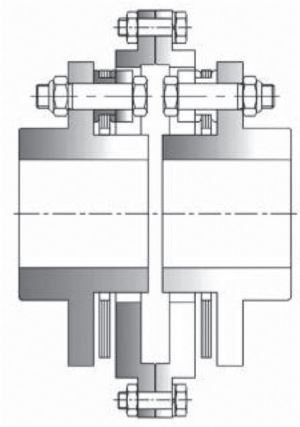
A3 Type (Power lock type)

Size	A	B	POWER LOCK	C		E	G
				1EA	2EA		
A3-15N	20	25	20×25	8.3	14.6	12	4-M6
	22	26	22×26				
A3-15N A3-20N	24	28	24×28				
	25	30	25×30				
A3-15Z A3-20N	28	32	28×32				
	30	35	30×35				
A3-15Z	32	36	32×36				
A3-20Z	35	40	35×40	9	16	12	4-M8
	36	42	36×42				
	38	44	38×44				
	40	45	40×45				
A3-25N	42	48	42×48				
	35	40	35×40	9	16	12	6-M6
	36	42	36×42				
	38	44	38×44				
40	45	40×45					
A3-25Z	42	48	42×48	10	18		
	45	52	45×52	12.9	21.5	4-M8	
	48	55	48×55				
	50	57	50×57				
A3-30N	55	62	55×62	10	18		
	42	48	42×48	12.9	21.5	12	4-M8
	45	52	45×52				
48	55	48×55					
A3-30Z	50	57	50×57	12.9	21.5		
	55	62	55×62				
A3-35N	45	52	45×52	12.9	21.5	12	6-M8
	48	55	48×55				
	50	57	50×57				
	55	62	55×62				

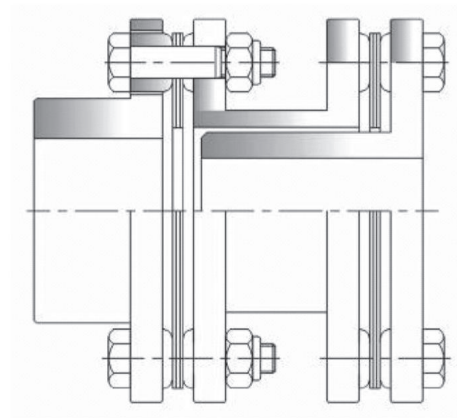
※ It doesn't include power-lock.

※ N means standard type, Z means boss length extension type.

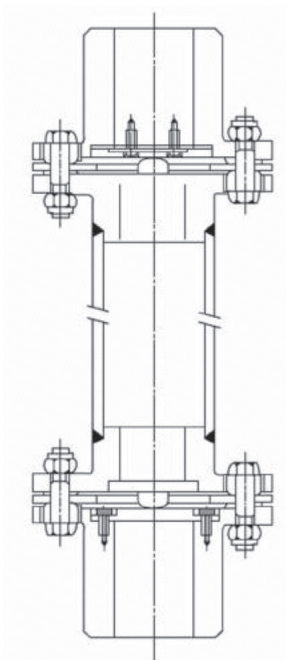
SPECIAL TYPES



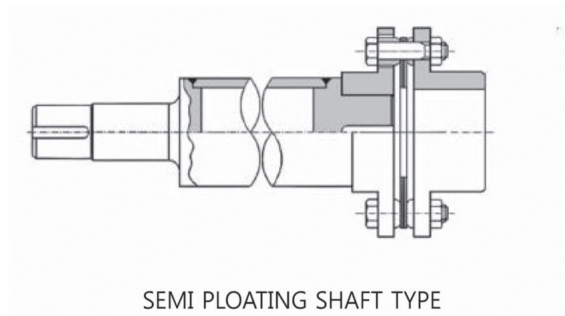
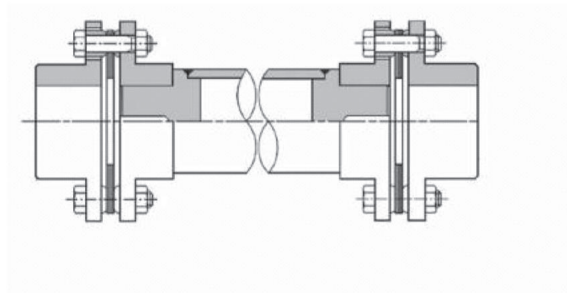
DOUBLE END PLUG-IN TYPE



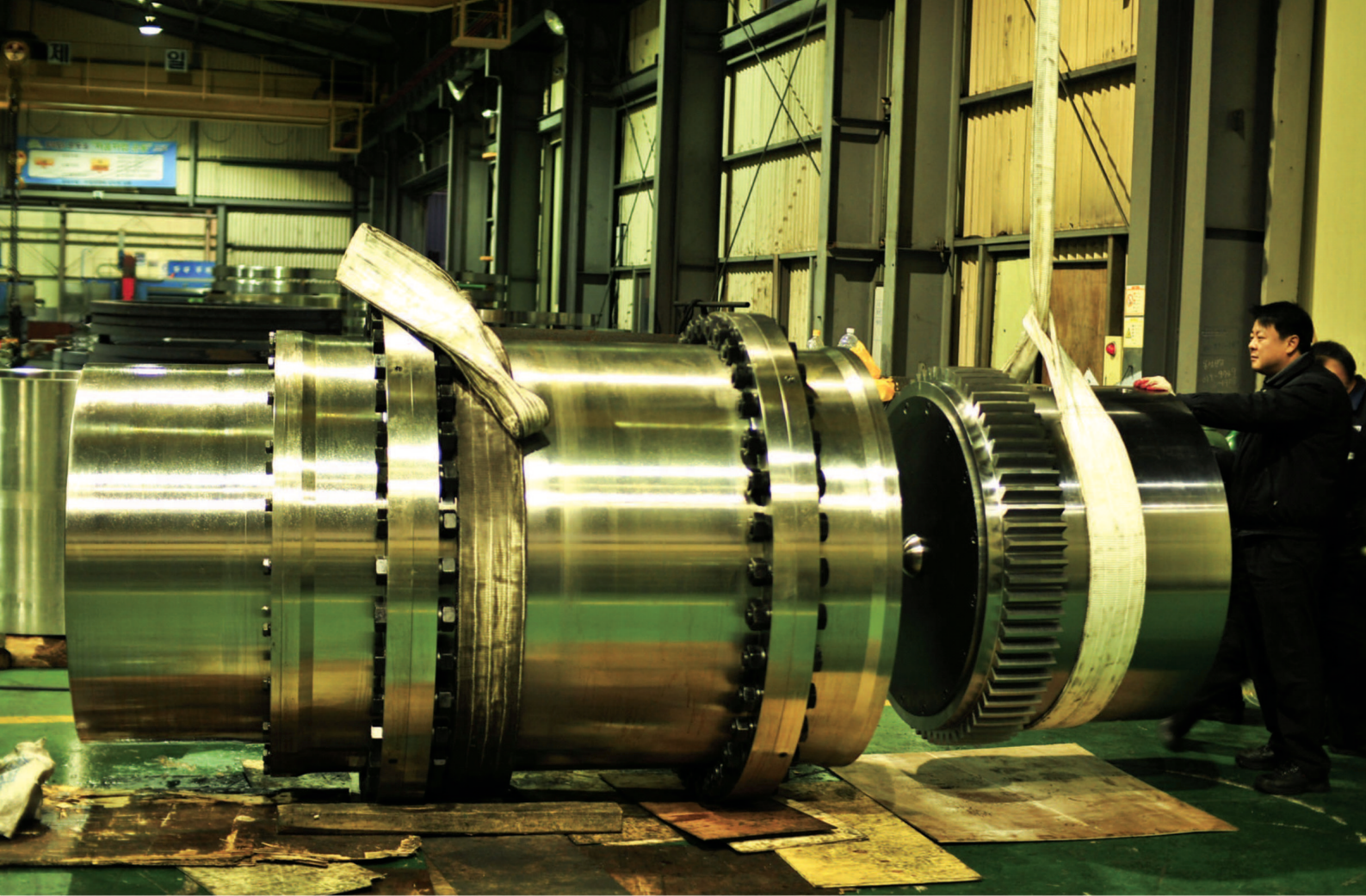
SINGLE END PLUG-IN TYPE



VERTICAL TYPE



SEMI FLOATING SHAFT TYPE



 **Jac coupling**

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