

**Lovejoy / Sier-Bath Heavy Duty Flanged Sleeve Gear Couplings**

**FHD Type Flex-Flex Couplings**

The FHD Type coupling consists of two flex hubs, two sleeves with bolt-on seal carriers and one accessory kit. This coupling is supplied with exposed bolts only.

**Features**

- Patented Vari-Crown® tooth form for long life
- Standard 20° pressure angle
- Heat treated bolts for greater strength
- Corrosion resistant bolts and nuts for ease of maintenance
- Provides parallel, angular misalignment and end float
- Designed for high-torque low-speed applications that occur in mill operations



**FHD Type Performance Data**

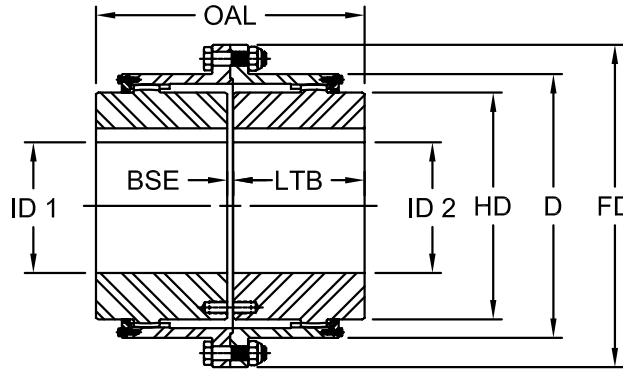
Size	Nominal Torque		Maximum Speed		ID1 - ID2		Weight		Parallel Misalignment		Angular Misalignment Degrees
					Max Bore Standard Keyway						
	in-lb	Nm	Unbal RPM	Bal RPM	in	mm	lbs	kg	in	mm	
7	1,008,000	110 000	2,000	3,000	9.500	255	950	431	0.135	3.429	0.75° Per Gear Mesh
8	1,323,500	150 000	1,900	2,850	11.500	310	1,560	708	0.160	4.064	
9	1,827,700	210 000	1,750	2,625	12.500	340	2,015	915	0.165	4.191	
10	2,521,000	280 000	1,550	2,325	13.750	355	2,500	1,135	0.180	4.572	
11	3,466,000	390 000	1,400	2,100	15.500	410	3,380	1,535	0.205	5.207	
12	4,412,000	500 000	1,300	1,950	17.000	435	4,165	1,891	0.210	5.334	
13	5,249,000	600 000	1,150	1,725	18.250	480	5,215	2,368	0.230	5.842	
14	6,429,000	730 000	1,050	1,575	19.500	—	6,400	2,906	0.255	6.477	
15	7,752,000	880 000	900	1,350	21.000	—	7,710	3,500	0.280	7.112	
16	9,454,000	1 070 000	800	1,200	22.500	—	9,250	4,200	0.295	7.493	
18	12,605,000	1 420 000	550	825	25.500	—	11,890	5,398	0.295	7.493	
20	17,017,000	1 920 000	450	675	28.000	—	16,830	7,641	0.280	7.112	
22	21,429,000	2 420 000	380	570	31.000	—	21,970	9,974	0.310	7.874	
24	26,471,000	2 990 000	325	485	34.000	—	27,735	12,592	0.300	7.620	
26	32,773,000	3 700 000	280	420	37.000	—	34,370	15,604	0.300	7.620	
28	39,076,000	4 410 000	240	360	40.000	—	40,910	18,573	0.320	8.128	
30	47,269,000	5 340 000	220	330	42.000	—	47,470	21,551	0.320	8.128	

**Ordering Information**

- Application: Driver and Driven.
- Type and size of coupling, horizontal, vertical etc.
- Power: Motor horsepower or torque requirement.
- Speed: Motor RPM or Driven RPM.
- Distance between shaft ends (BSE).
- Shaft sizes.

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**FHD Type Dimensional Data**

Size	OAL in	ID1 - ID2 Max Bore Standard Keyway		1 Rectangular Keyway		LTB in	BSE in	FD in	D in	HD in
		in	mm	Width in	Depth in					
7	17.76	9.500	255	2.5000	0.8750	8.69	0.38	20.75	15.75	13.00
8	22.38	11.500	310	3.0000	1.0000	11.00	0.38	23.25	18.34	15.50
9	23.50	12.500	340	3.0000	1.0000	11.50	0.50	26.00	20.38	17.00
10	24.50	13.750	355	3.5000	1.2500	12.00	0.50	28.00	22.31	18.50
11	26.75	15.500	410	4.0000	1.5000	13.13	0.50	30.50	24.36	21.00
12	28.25	17.000	435	4.0000	1.5000	13.88	0.50	33.00	26.63	22.75
13	30.00	18.250	480	5.0000	1.7500	14.63	0.75	35.75	28.88	24.75
14	31.75	19.500	—	5.0000	1.7500	15.50	0.75	38.00	31.68	26.50
15	33.75	21.000	—	5.0000	1.7500	16.50	0.75	40.50	32.97	28.50
16	35.75	22.500	—	6.0000	2.0000	17.38	1.00	43.00	35.13	30.38
18	37.00	25.500	—	6.0000	2.0000	18.00	1.00	47.25	39.25	34.25
20	43.25	28.000	—	7.0000	2.5000	21.13	1.00	53.50	43.50	38.00
22	47.00	31.000	—	8.0000	2.7500	23.00	1.00	59.00	47.63	41.81
24	50.50	34.000	—	9.0000	3.0000	24.75	1.00	64.25	51.75	45.50
26	54.00	37.000	—	9.0000	3.0000	26.50	1.00	68.50	55.88	49.38
28	55.25	40.000	—	10.0000	3.5000	27.13	1.00	73.75	60.00	53.00
30	56.25	42.000	—	10.0000	3.5000	27.63	1.00	78.00	64.13	57.00

- Notes:
- Exposed Bolt Design is standard.
  - Puller Holes are standard.
  - Interference bores with no set screws are standard unless otherwise specified.
  - Inch bore and keyway tolerances conform to ANSI / AGMA 9002-B04, for bores above 18 inches, keyways conform to ANSI B17.1.
  - For metric bore and keyway tolerances, consult Lovejoy Engineering Section.