

# GEAR-FLEX COUPLINGS TYPE LFG/LHG

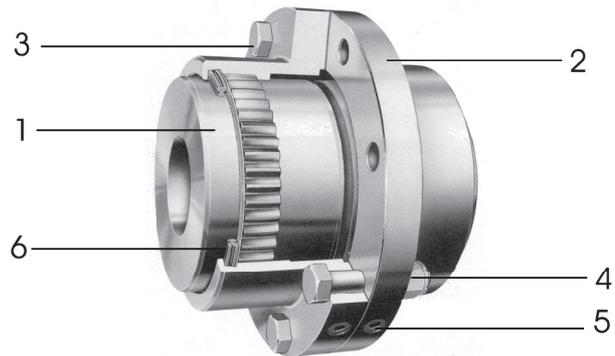


## CONSTRUCTION

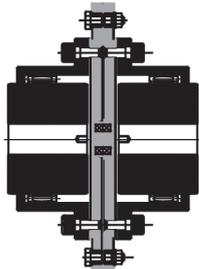
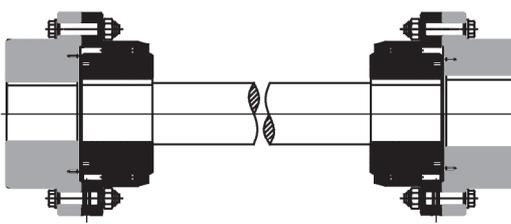
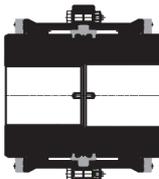
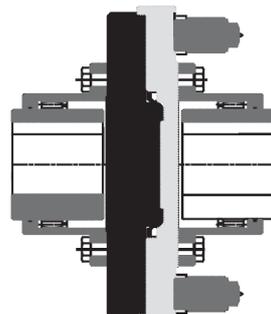
Full gear type LFG Lovejoy Flexible Gear Coupling consists of two identical toothed hubs, two identical flanged sleeves with internal teeth, a gasket, a set of bolts, nuts and lock washers, lube plugs and two oil / grease retaining seals over the hubs.

### NOMENCLATURE

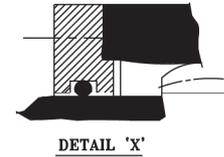
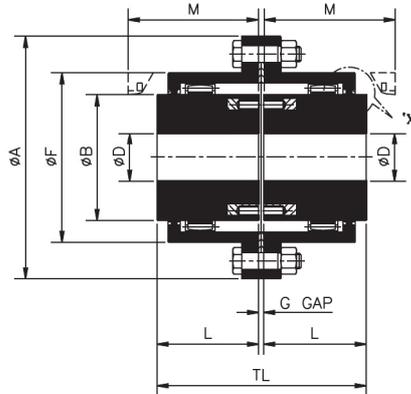
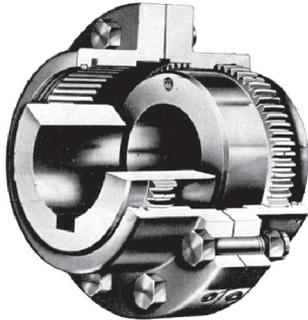
- 1) HUB
- 2) SLEEVE
- 3) BOLT
- 4) NUT
- 5) GASKET
- 6) O-RING



## SPECIAL DESIGN VARIANTS GEAR-FLEX COUPLINGS

 <p style="text-align: center;">Gear Coupling with Shear Pin</p>	 <p style="text-align: center;">Gear Coupling with Floating Shaft</p>
 <p style="text-align: center;">Gear Coupling with Limited End Float</p>	 <p style="text-align: center;">Gear Coupling with Torque Limiter</p>

# GEAR-FLEX COUPLINGS TYPE LFG



THIS COVER PLATE CONSTRUCTION FOR SIZES LFG - 111 ONWARDS

## FULL FLEXIBLE TYPE LFG

### FEATURES

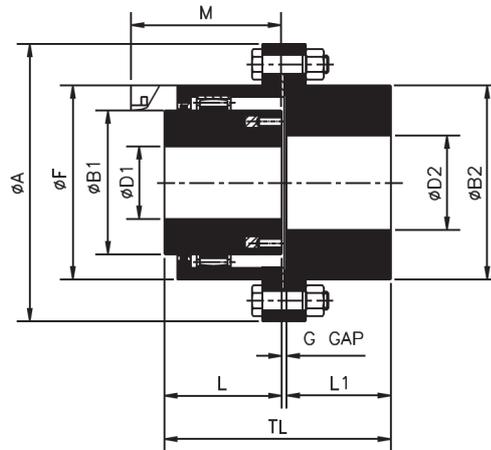
Standard full flexible gear coupling TYPE LFG accommodates angular & parallel misalignments or a combination of both as well as axial misalignment (end float). Ideal for all horizontal, close coupled applications including fans, overhead cranes, conveyors, steel & paper mill equipments. One or both the hubs can be easily reversed for more than normal shafts separation applications.

### TECHNICAL DATA

Size	kW at 100 rpm	Rated Torque Nm	Max. rpm	Bore ØD		ØA	L	ØB	ØF	M	G	TL	#	
				PB	Max.								Wt. kg	M.I.(WR <sup>2</sup> ) kg-m <sup>2</sup>
LFG-100	6	559	7600	13	35	120	45	50	75	54	3	93	4.1	0.006
LFG-101	12	1127	6730	14	50	170	55	65	110	67	5	115	10.6	0.029
LFG-102	29	2804	6150	20	65	185	70	85	125	83	5	145	15.4	0.046
LFG-103	53	5047	5200	30	80	220	85	105	150	103	5	175	26.0	0.110
LFG-104	100	9557	4580	40	100	250	105	130	175	124	5	215	40.0	0.213
LFG-105	153	14605	3950	46	115	290	110	155	200	136	10	230	60.0	0.445
LFG-106	235	22444	3550	50	125	320	125	175	230	152	10	260	84.0	0.745
LFG-107	412	39303	3270	60	145	350	140	205	260	174	10	290	113.4	1.21
LFG-108	529	50472	3015	70	165	380	155	230	290	187	10	320	158.0	2.04
LFG-109	658	62821	2650	80	190	430	165	250	330	196	10	340	210.0	3.46
LFG-110	963	91923	2330	100	230	490	180	310	390	216	10	370	290.0	5.55
LFG-111	1289	123065	2100	110	260	545	200	350	445	245	10	410	545.0	15.25
LFG-112	1723	164516	1940	150	300	590	240	400	490	289	10	490	716.0	24.30
LFG-113	2908	277694	1600	160	330	680	260	440	555	312	15	535	984.0	43.21
LFG-114	4019	383786	1500	200	370	730	280	500	610	341	15	575	1219.0	64.84
LFG-115	4812	459512	1400	230	410	780	320	540	660	385	15	655	1566.0	97.30
LFG-116	7028	671165	1200	260	455	900	350	625	755	423	20	720	2246.0	183.66
LFG-117	9997	954665	1100	300	520	1000	400	720	855	489	20	820	3260.0	338.05
LFG-118	13236	1263938	1000	320	620	1100	450	810	950	533	20	920	4680.0	600.41
LFG-119	17454	1666744	900	300	710	1250	485	910	1050	559	30	1000	6283.0	955.96

- All dimensions are in mm unless otherwise specified.
- Spacer couplings, Brake drum, Brake disc, Shear pin, Floating shaft couplings are available.
- For vertical installation contact RATHI.
- # Weight & Moment of Inertia are at pilot bore.
- Consult RATHI for Max Bore with Square Key.
- Max. bores specified above are for uniformly loaded drives only with single rectangular keyway. For other than uniform loads please consult Rathi.

# GEAR-FLEX COUPLINGS TYPE LHG



## HALF FLEXIBLE TYPE LHG

### FEATURES

- Standard half flexible gear coupling TYPE LHG cannot accommodate parallel misalignment.
- Used primarily with floating shaft assemblies. Extensively used for cross traverse and long travel line shaft drives.

### TECHNICAL DATA

Size	kW at 100 rpm	Rated Torque Nm	Max. rpm	Bore			øA	øB1	øB2	øF	G	L	L1	M	TL	#	
				PB	Max.											Wt. kg	M.I. (WR <sup>2</sup> ) kg-m <sup>2</sup>
					øD1	øD2											
LHG-100	6	559	7600	13	35	45	120	50	65	75	3	45	45	54	93	4.2	0.006
LHG-101	12	1127	6730	14	50	60	170	65	85	110	5	55	55	67	115	10.1	0.027
LHG-102	29	2804	6150	20	65	75	185	85	110	125	5	70	70	83	145	15.2	0.045
LHG-103	53	5047	5200	30	80	90	220	105	130	150	5	85	85	103	175	25.3	0.106
LHG-104	100	9557	4580	40	100	110	250	130	160	175	5	105	105	124	215	40.4	0.211
LHG-105	153	14605	3950	46	115	130	290	155	185	200	10	110	110	136	230	60.4	0.440
LHG-106	235	22444	3550	50	125	150	320	175	215	230	10	125	125	152	260	85.5	0.747
LHG-107	412	39303	3270	60	145	170	350	205	240	260	10	140	140	174	290	115.0	1.20
LHG-108	529	50472	3015	70	165	200	380	230	285	290	10	155	155	187	320	164.3	2.10
LHG-109	658	62821	2650	80	190	220	430	250	315	330	10	165	165	196	340	216.7	3.52
LHG-110	963	91923	2330	100	230	260	490	310	370	390	10	180	180	216	370	317.0	6.86

- All dimensions are in mm unless otherwise specified.
- Spacer couplings, Brake drum, Brake disc, Shear pin, Floating shaft couplings are available.
- For vertical installation contact RATHI.
- # Weight & Moment of Inertia are at pilot bore.
- Consult RATHI for Max Bore with Square Key.
- **Max. bores specified above are for uniformly loaded drives only with single rectangular keyway. For other than uniform loads please consult Rathi.**