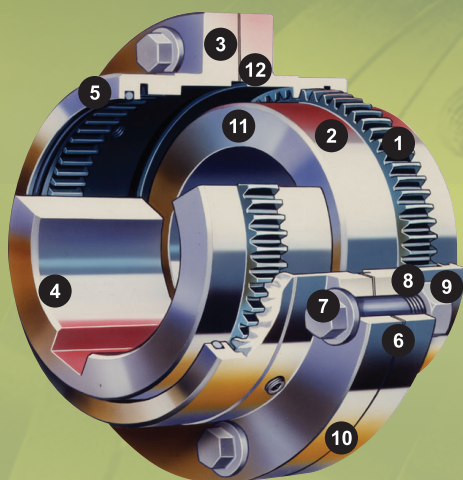




# WELLMAN WACOMA LIMITED

## GEAR COUPLINGS



- |          |   |
|----------|---|
| 1 Teeth  | 7 Bolts                                   |
| 2 Hub    | 8 Washer                                  |
| 3 Sleeve | 9 Locking Nuts                            |
| 4 Bore   | 10 Lube plug                              |
| 5 Seal   | 11 Puller Holes (Optional on Sizes 10-70) |
| 6 Gasket | 12 Recess (Optional on Sizes 10-70)       |

Wellman Gear Couplings by their comprehensive design and manufacturing capabilities have already proven to be of unrivalled reliability over many years.

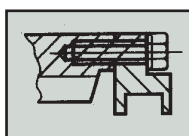
They have been widely adopted in industrial applications all over the world.

The Wellman Gear Coupling is highly versatile, available in an extensive range of types and sizes, for use in both horizontal and vertical installations with almost every conceivable type of drive.

### GEAR COUPLING

Gear type couplings are torsionally rigid. Due to special design of their teeth, they compensate for axial, radial and angular misalignments of the connected machinery.

#### REMOVABLE SEAL CARRIERS



These can be provided on coupling sizes 20G-70G inclusive, and are standard on larger sizes. They facilitate sleeve removal over shaft ends for inspection of gear teeth in installations where space is limited between

back of coupling and machine.

#### INTERCHANGEABILITY

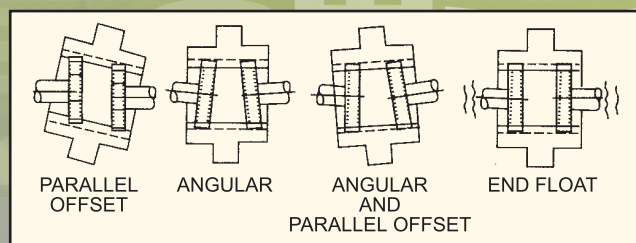
Complete half coupling assemblies are interchangeable with any other half Gear Coupling with exposed bolt flange.

#### MAINTENANCE

Check the lubricant condition every year and replace if required. Excessive misalignment, high ambient temperatures, and/or frequent rapid reversing may necessitate more frequent inspections and replenishment.

If quantity of lubricant appears low, check for leaks and replace seal rings if necessary.

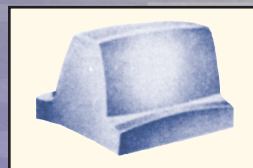
Clean coupling of all old lubricant and replenish every two years.



### HIGH MILSALIGNMENT

Up to +/- 1 degree angular misalignment per mesh with standard couplings.

### HUB TEETH

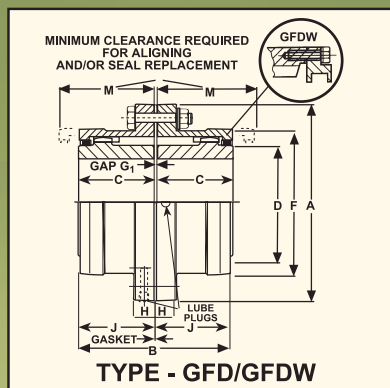


Hub teeth are engineered with a tooth form crowned on three surfaces - tip, flank and root - to ensure maximum contact at the strongest part of the tooth and to accommodate shaft misalignment.

### HOW TO ORDER - SPECIFY

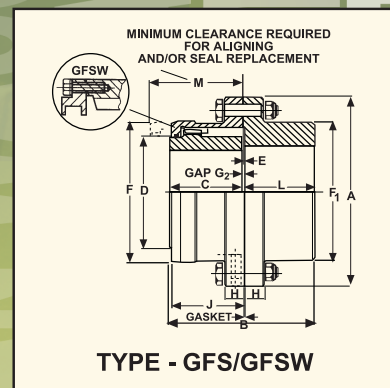
Application -

- Type of prime mover, Kw/RPM
- Type of Driven Equipment
- Type of Duty
- Shaft Diameters at both ends



**Size 10 to 60** This standard Type GFD & GFS are conservatively rated couplings which accommodate both parallel offset and angular misalignment - or a combination of the two, as well as end float.

**Single & Double engagement couplings with parallel bores for horizontal shafts**



Size	Rating kW per RPM	Max. Speed RPM (Note 1)	Max. Bore mm (Note 2)		Min Bore Both Hubs	DIMENSIONS mm (Note 3)														GFD Standard Hub (Solid)		GFS Standard Hub (Solid)		Size
			Flex. Hub	Rigid Hub		A	B	C	D	E	F	F <sub>1</sub>	H	J	L	M	Gap G1 G2	Wt Kg	Wk <sup>2</sup> Kgm <sup>2</sup>	Wt Kg	Wk <sup>2</sup> Kgm <sup>2</sup>			
10	0.06	8000	35	50	14	116	77	38	51	2.5	69	69	17	37	35	49	3 4	3.6	0.0053	4	0.0054	10		
15	0.18	6500	55	70	20	152	102	51	76	2.5	98	98	20	51	47	62	3 4	9.0	0.020	9	0.021	15		
20	0.37	5600	70	90	27	178	124	62	95	2.5	127	124	20	63	58	75	3 4	13.6	0.045	14.5	0.046	20		
25	0.67	5000	85	105	33	213	156	77	117	2.5	150	146	22	76	74	92	5 5	25.0	0.107	25	0.11	25		
30	1.1	4400	100	130	39	240	183	91	140	2.5	182	173	22	90	87	106	5 5	39	0.20	39	0.21	30		
35	1.7	3900	120	150	46	279	213	106	165	3	210	200	29	106	101	130	6 6	61	0.43	62	0.46	35		
40	2.6	3600	150	170	52	318	242	121	200	5	248	230	29	121	113	149	6 8	92	0.82	91	0.88	40		
45	3.6	3200	165	195	58	346	271	135	220	5	272	259	29	135	127	165	8 9	122	1.29	122	1.35	45		
50	4.8	2900	180	215	71	389	308	153	240	5	302	289	38	151	146	187	8 9	174	2.37	177	2.50	50		
55	6.3	2650	200	235	71	426	336	168	270	5	332	318	38	164	159	209	8 9	230	3.69	231	3.86	55		
60	9.0	2450	215	260	77	457	373	187	290	6.5	361	349	26	183	175.5	228	8 10.5	282	4.90	286	5.20	60		
70	14.9	2150	250	305	90	527	442	221	340	8	418	406	29	216	208	268	10 13	449	10.30	454	11.00	70		
80	23	1750	275	335	90	590	511	249	385	8	485	470	32	243	249	300	10 13	682	20.72	715	21.77	80		
90	29	1550	300	370	—	660	567	276	420	8	535	518	38	265	276	325	13 15	898	34.95	969	36.60	90		
100	41	1450	330	405	—	711	626	305	470	10	595	572	45	294	305	355	13 16	1242	55.95	1259	56.27	100		
110	53	1330	360	440	—	775	684	334	510	10	640	620	51	322	334	385	13 16	1608	86.14	1677	90.06	110		
120	72	1200	410	490	—	838	720	352	575	10	715	687	54	341	352	400	13 16	2072	133.73	2158	139.81	120		
130	81	1075	435	530	—	911	761	371	615	10	775	742	54	360	371	435	19 19	2522	189.78	2649	200.07	130		
140	104	920	475	570	—	965	805	393	670	10	840	800	54	378	393	458	19 19	3141	273.02	3260	283.03	140		
150	121	770	510	610	—	1029	857	419	720	10	890	860	54	405	419	484	19 19	3760	366.65	3943	388.08	150		
160	134	650	535	645	—	1111	907	441	750	13	940	905	57	420	441	505	25 25	4435	489.93	4656	517.29	160		

- NOTES : 1. Dynamically balanced standard or special couplings are available for higher speeds and/or sensitive applications.  
2. Maximum bores are for uniformly loaded drives only, using rectangular parallel keys.  
3. All dimensions are subject to confirmation.  
4. Couplings with extended hubs can be provided to meet application requirements.  
5. Puller holes are not included unless specified.



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