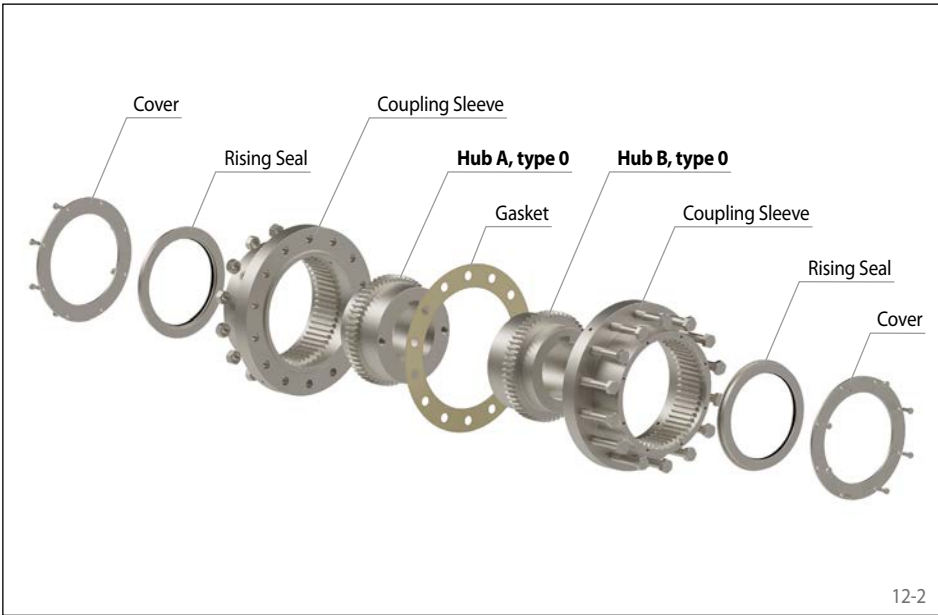


Gear Couplings GHF

double engagement gearing – lubricated
with fully crowned teeth and for high angular misalignment



12-1



12-2

Custom designs available upon request

- Heat-treated, alloyed or nitrided steels
- Couplings for shaft misalignments up to 6°
- Other sizes and special versions

Features

- High nominal torques up to 1 033 200 inch-lb or 116 750 Nm
- Compensation of axial, radial and angular misalignments
- Angular misalignments up to 3.5° permissible
- Improved gear design to increase torque capacity and reduce coupling backlash
- Nitrided gear teeth made of high-strength steel for maximum transmissible torques and power density
- O-ring seal that retains grease and keeps contaminants out of the tooth mesh
- High power density
- Typical applications: Roll drives in the steel and paper industries, pumps, conveyors, fans and blowers

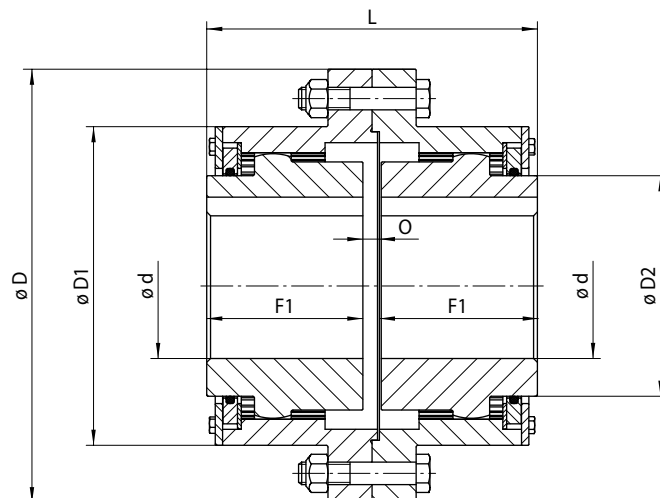
Order example

	Code
Coupling design	GHF
Coupling size	H150
Type	DTO
Material of the hub: • Steel	STA
Hub A, type: • 0, standard	0
Hub A, design: • finish bored with keyway • pilot bored	FB VA
Bore diameter hub A in inch: 3/4" * or bore diameter hub A in mm: 19 mm**	AAM 019
Hub B, type: • 0, standard	0
Hub B, design: • finish bored with keyway • pilot bored	FB VA
Bore diameter hub B in inch: 1" * or bore diameter hub B in mm: 25 mm**	ABA 025

GHF H150 DTO-STA-0FBAAAM-0FBABA

* Bores are made in accordance with AGMA 9002-C14. Please specify the required bore tolerance in accordance with the order code on page 19.
** Metric bores are produced with the standard tolerance H7. Other bore tolerances are available on request.

double engagement gearing – lubricated
with fully crowned teeth and for high angular misalignment



13-1

Coupling size	Torque Rating T _{KN} Operating Angle								Max. speed n _{max} rpm	Moment of inertia (solid hubs) J _K lb-in ² kgm ²		Permissible misalignments				
	1°		2°		3°		3.5°					Axial (Offset)		Radial (Offset)		Angular °
	inch-lb	Nm	inch-lb	Nm	inch-lb	Nm	inch-lb	Nm				inch	mm	inch	mm	
H150	23600	2660	16500	1860	11800	1330	10600	1200	4000	61.1	0,018	±0.02	±0,5	0.16	4,1	3.5
H200	42100	4760	29500	3330	21000	2380	18900	2140	3600	135.6	0,039	±0.02	±0,5	0.20	5,2	
H250	56500	6300	39500	4470	28200	3190	25400	2870	3600	287.0	0,083	±0.02	±0,5	0.23	5,7	
H300	147000	16600	103000	11600	73500	8300	62500	7000	3200	522.1	0,151	±0.02	±0,5	0.27	6,9	
H350	227500	25700	159500	18000	113500	12800	97500	11000	3200	1278.9	0,371	±0.04	±1,0	0.30	7,6	
H400	354500	40000	248000	28000	177000	20000	156000	17600	3000	2080.3	0,603	±0.04	±1,0	0.34	8,6	
H450	500500	56500	350000	39500	250500	28200	216500	24400	3000	3251.7	0,943	±0.04	±1,0	0.37	9,3	
H500	585500	66000	410000	46300	292500	33000	247000	27900	2400	6566.9	1,904	±0.04	±1,0	0.41	10,5	
H550	879500	99000	615500	69500	439500	49600	357000	40300	2000	10427.1	3,024	±0.04	±1,0	0.44	11,2	
H600	1348000	152000	943500	106500	674000	76000	581000	65500	1800	15851.2	4,597	±0.08	±2,0	0.55	14,0	
H700	1467500	165500	1027000	116000	733500	82500	660000	74500	1600	30419.4	8,822	±0.08	±2,0	0.60	15,2	
H800	2695000	304500	1886500	213000	1347500	152000	1096500	123500	1600	56193.1	16,296	±0.08	±2,0	0.70	17,9	

Coupling size	Bore d*				D		D1		D2		F1		L		O		Bolt Size	Qty. of Bolts	Weight varies by bore	
	Square key max.		Reduced key max.		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm			lbs.	kg
	inch	mm	inch	mm																
H150	1.63	41	1.75	44	6.00	152	3.88	98	2.31	59	2.19	56	4.63	118	0.25	6	0.313-18	8	18,4	8,3
H200	2.13	54	2.25	57	7.00	178	4.75	121	2.88	73	2.75	70	5.81	148	0.31	8	0.375-16	8	30,7	13,9
H250	2.63	67	2.75	70	8.00	203	5.38	137	3.69	94	3.06	78	6.50	165	0.38	10	0.500-13	10	48,4	22,0
H300	3.13	80	3.38	86	9.00	229	6.38	162	4.38	111	3.66	93	7.75	197	0.44	11	0.500-13	12	72,7	33,0
H350	3.63	92	3.88	99	10.69	272	7.63	194	5.00	127	3.91	99	8.31	211	0.50	13	0.625-11	12	118,6	53,8
H400	4.13	105	4.38	111	11.63	295	8.69	221	5.75	146	4.44	113	9.44	240	0.56	14	0.625-11	14	165,5	75,1
H450	4.63	118	5.00	127	12.75	324	9.75	248	6.44	164	4.81	122	10.25	260	0.63	16	0.625-11	14	217,2	98,5
H500	5.25	133	5.75	146	14.75	375	10.88	276	7.50	191	5.31	135	11.25	286	0.63	16	0.750-10	14	321,8	146,0
H550	6.00	152	6.50	165	16.38	416	12.25	311	8.63	219	6.00	152	12.81	325	0.81	21	0.750-10	16	426,9	193,6
H600	6.75	171	7.25	184	18.00	457	13.75	349	9.25	235	7.00	178	14.88	378	0.88	22	0.875-9	14	566,3	256,9
H700	7.75	197	8.25	210	20.38	518	15.75	400	11.00	279	8.00	203	17.06	433	1.06	27	1.000-8	16	851,4	386,2
H800	10.38	264	10.88	276	23.25	591	18.00	457	13.50	343	9.00	229	19.25	489	1.25	32	1.125-7	16	1 235,5	560,4

* The maximum permissible bore diameters refer to bores with keyways in accordance with AGMA 9002-C14.