

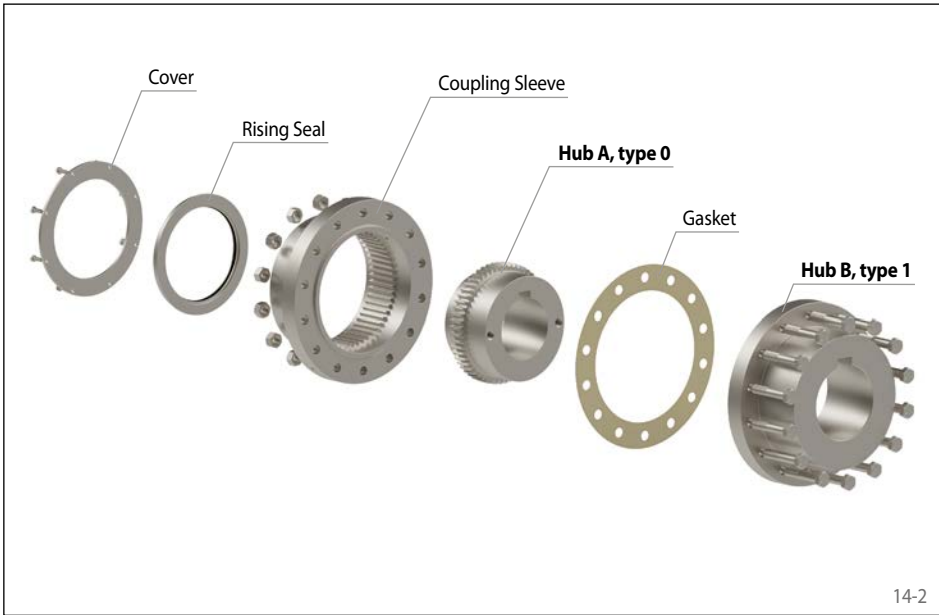
Gear Couplings GHR

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



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 1.75° 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: Roller drives in the steel and paper industry, pumps, conveyor systems, cement industry



Custom designs available upon request

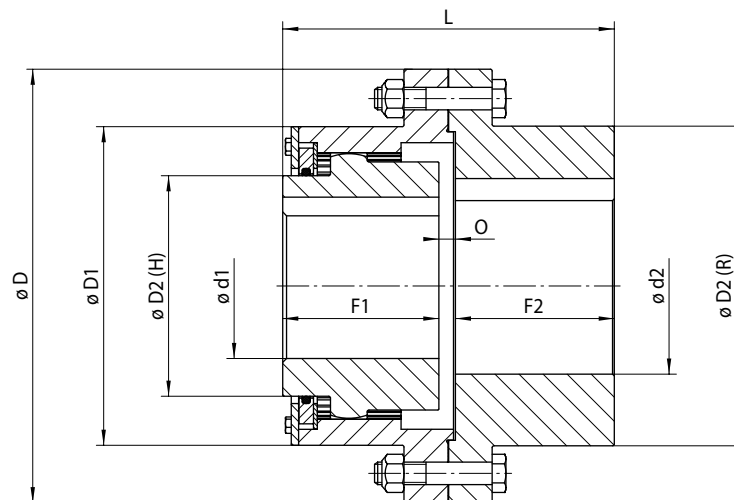
- Heat-treated, alloyed or nitrided steels
- Couplings for shaft misalignments up to 3°
- Other sizes and special versions

Order example	Code
Coupling design	GHR
Coupling size	H150
Type	DFO
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: • I, coupling half, rigid	1
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

GHR H150 DFO-STA-0FBAAM-1FBABA

* 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.

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Type 0

Type I

15-1

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)		Angular
	inch-lb	Nm	inch-lb	Nm	inch-lb	Nm	inch-lb	Nm		inch	mm	°		
H150	23 600	2 660	16 500	1 860	11 800	1 330	10 600	1 200	4 000	65,7	0,019	±0.02	±0,5	1.75
H200	42 100	4 760	29 500	3 330	21 000	2 380	18 900	2 140	3 600	146,6	0,043	±0.02	±0,5	
H250	56 500	6 300	39 500	4 470	28 200	3 190	25 400	2 870	3 600	307,8	0,089	±0.02	±0,5	
H300	147 000	16 600	103 000	11 600	73 500	8 300	62 500	7 000	3 200	576,1	0,167	±0.02	±0,5	
H350	227 500	25 700	159 500	18 000	113 500	12 800	97 500	11 000	3 200	1 361,8	0,395	±0.04	±1,0	
H400	354 500	40 000	248 000	28 000	177 000	20 000	156 000	17 600	3 000	2 221,3	0,644	±0.04	±1,0	
H450	500 500	56 500	350 000	39 500	250 500	28 200	216 500	24 400	3 000	3 478,7	1,009	±0.04	±1,0	
H500	585 500	66 000	410 000	46 300	292 500	33 000	247 000	27 900	2 400	6 919,1	2,007	±0.04	±1,0	
H550	879 500	99 000	615 500	69 500	439 500	49 600	357 000	40 300	2 000	11 537,5	3,346	±0.04	±1,0	
H600	1 348 000	152 000	943 500	106 500	674 000	76 000	581 000	65 500	1 800	17 851,7	5,177	±0.08	±2,0	
H700	1 467 500	165 500	1 027 000	116 000	733 500	82 500	660 000	74 500	1 600	43 402,2	12,587	±0.08	±2,0	
H800	2 695 000	304 500	1 886 500	213 000	1 347 500	152 000	1 096 500	123 500	1 600	63 974,5	18,553	±0.08	±2,0	

Coupling size	Bore								D		D1		D2 (H)		D2 (R)		F1		F2		L		O		Weight varies by bore solid	
	d1 max.*				d2 max.*																					
	Square key		Reduced key		Square key		Reduced key		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs.	kg
H150	1.63	41	1.75	44	2.75	70	2.94	75	6.00	152	3.88	98	2.31	59	4.00	102	2.19	56	2.22	56	4.63	118	0.22	6	20.1	9.1
H200	2.13	54	2.25	57	3.25	83	3.38	86	7.00	178	4.75	121	2.88	73	4.75	121	2.75	70	2.84	72	5.81	148	0.22	6	34.0	15.4
H250	2.63	67	2.75	70	3.75	95	3.88	99	8.00	203	5.38	137	3.69	94	5.50	140	3.06	78	3.09	78	6.38	162	0.22	6	52.4	23.8
H300	3.13	80	3.38	86	4.50	114	4.69	119	9.00	229	6.38	162	4.38	111	6.50	165	3.66	93	3.75	95	7.63	194	0.22	6	80.1	36.3
H350	3.63	92	3.88	99	5.25	133	5.50	140	10.69	272	7.63	194	5.00	127	7.63	194	3.91	99	4.09	104	8.25	210	0.25	6	128.1	58.1
H400	4.13	105	4.38	111	6.00	152	6.50	165	11.63	295	8.69	221	5.75	146	8.75	222	4.44	113	4.53	115	9.25	235	0.28	7	176.9	80.2
H450	4.63	118	5.00	127	6.50	165	7.00	178	12.75	324	9.75	248	6.44	164	9.75	248	4.81	122	4.94	125	10.06	256	0.31	8	232.2	105.3
H500	5.25	133	5.75	146	7.50	191	7.75	197	14.75	375	10.88	276	7.50	191	10.88	276	5.31	135	5.44	138	11.06	281	0.31	8	340.6	154.5
H550	6.00	152	6.50	165	8.50	216	9.00	229	16.38	416	12.25	311	8.63	219	12.38	314	6.00	152	6.31	160	12.63	321	0.31	8	470.8	213.5
H600	6.75	171	7.25	184	9.50	241	10.00	254	18.00	457	13.75	349	9.25	235	13.75	349	7.00	178	7.25	184	14.63	372	0.38	10	630.8	286.1
H700	7.75	197	8.25	210	11.25	286	12.00	305	20.38	518	15.75	400	11.00	279	15.88	403	8.00	203	8.50	216	16.88	429	0.38	10	1094.9	496.6
H800	10.38	264	10.88	276	14.38	365	13.63	346	23.25	591	18.00	457	13.50	343	18.00	457	9.00	229	9.50	241	19.00	483	0.50	13	1377.8	625.0

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