RINGSPANN®
Power Transmission

Gear Couplings - Series G

Standard version GF and version GH for high angular misalignment

Edition 2025/2026

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Issue 04/2025 – Technical details subject to change without notice

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Introduction

Gear couplings as torsionally rigid couplings are an indispensable machine element for connecting two shafts in many areas of mechanical engineering. In addition to the transmission of rotary movements and torques, their main functions also include the equalisation of shaft misalignments. The demands placed on couplings in terms of permissible operating speeds, torques and shaft misalignments are constantly increasing. The ability to reliably and permanently compensate for shaft misalignments is of particular importance. Even complex methods for aligning the shafts during assembly cannot guarantee that they will align perfectly. Despite careful alignment, certain misalignments will always remain. During operation, these errors can be exacerbated by uneven bearing wear, structural bending, settling, thermal length changes and shaft deflection.

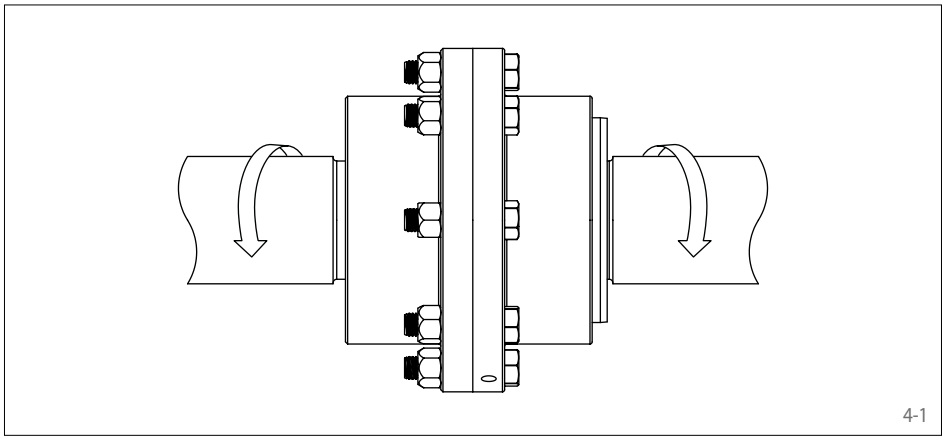
In such cases, RINGSPANN gear couplings with crowned teeth have proven their worth, as they can compensate for angular misalignments in particular with virtually no restoring forces on the machine bearings.

RINGSPANN manufactures gear couplings in the standard versions GFF and GFR with a permissible angular misalignment of 0.75° per toothing. RINGSPANN also offers the GHF and GHR versions with an increased permissible angular misalignment of 1.75° per toothing.

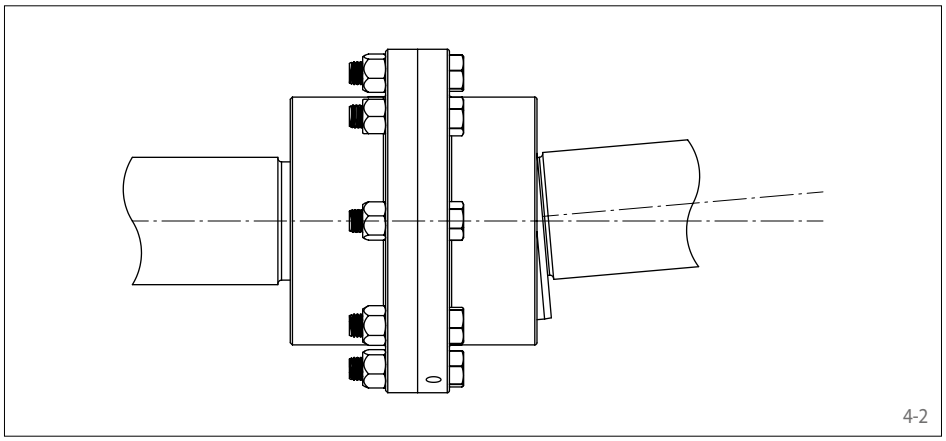
Basic functions

Gear couplings as torsionally rigid couplings have three basic functions:

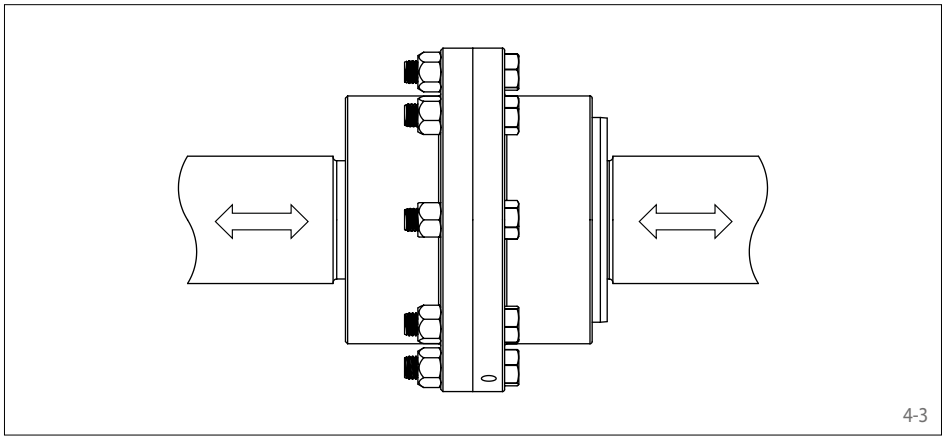
1. Mechanical connection between two shafts for the transmission of torques and rotary movements with a corresponding speed of the two shafts.



2. Compensation of misalignments or shaft misalignments during operation.



3. Compensation of thermal length changes of the shafts.

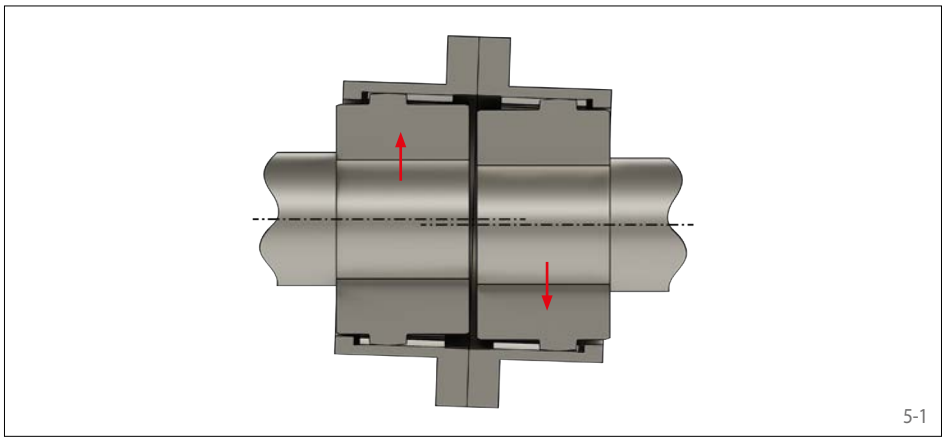


Compensation of shaft misalignments

Gear couplings as torsionally rigid couplings can compensate for different types of shaft misalignments:

Radial misalignment

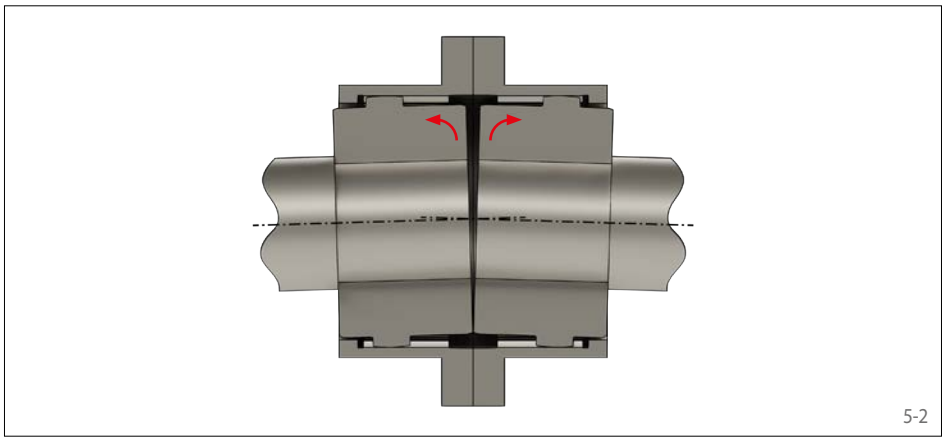
Radial misalignment occurs when the centre lines of the shafts have the same alignment but are offset parallel to each other.



5-1

Angular misalignment

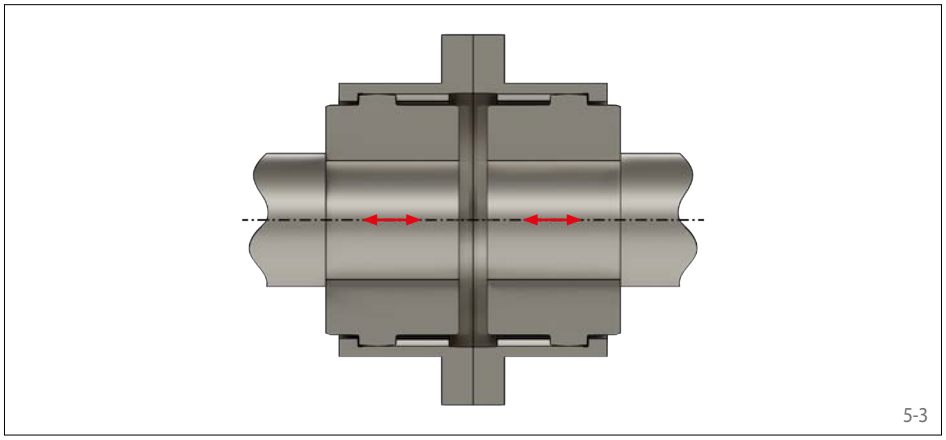
Angular misalignment occurs when the centre lines of the shafts lie in one plane but are inclined towards each other.



5-2

Axial misalignment

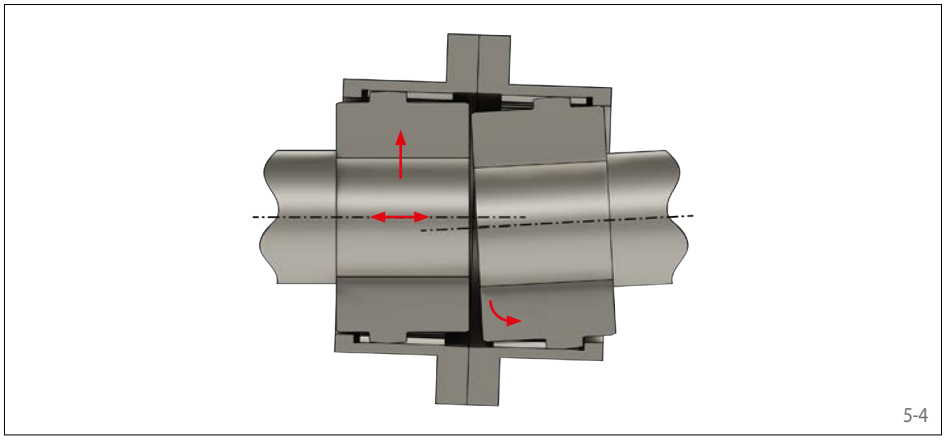
Axial misalignment is when the shafts lie in one plane and are correctly aligned with each other, but the distance between the shaft ends in the axial direction does not correspond to the specified catalog value.



5-3

Combination of misalignments

As a rule, the misalignments described above occur in combination.



5-4

Advantages of RINGSPANN toothing

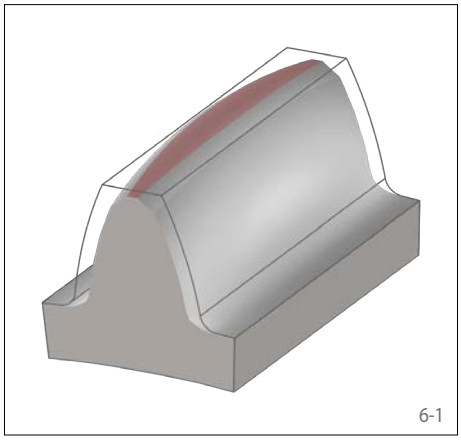
The GF and GH gear couplings are characterised by **special hub toothing**, **longer sleeve toothing** and **modern toothing production**.

Special hub toothing

The hub toothing of the GF and GH gear coupling is completely crowned and has a special gear geometry

- with rounded tooth heads,
- chamfered tooth flanks and
- crowned tooth flanks.

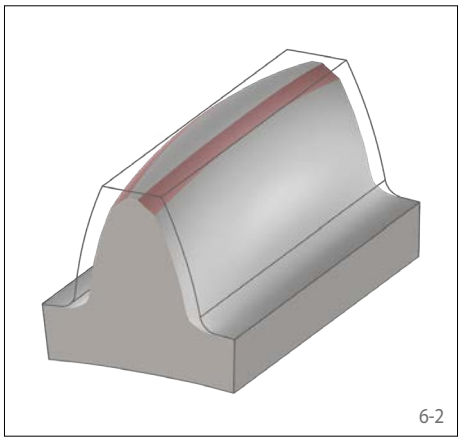
The crowned contour and chamfered tooth flanks lead to improved tooth contact. This reduces the surface pressure in the tooth flanks and prevents edge pressure at the tooth ends. Both lead to an increase in the load-bearing capacity of the coupling and to a reduction in wear in the tooth flanks. This makes it possible to increase the transmittable torques and compensate for larger shaft misalignments. Better lubrication at the contact point of the gearing allows higher speeds and extends the service life of the gear coupling.



6-1

Rounded tooth heads

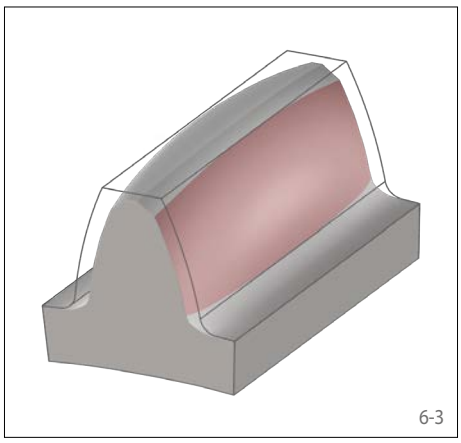
The tooth heads of RINGSPANN gear couplings are rounded. This prevents edge pressure due to radial or angular misalignments and the coupling sleeve can still be guided precisely radially.



6-2

Chamfered tooth flanks

The tooth flanks of the RINGSPANN GF and GH tooth couplings are chamfered at the transition to the tooth heads. This prevents undercuts on the tooth roots of the sleeve teeth.



6-3

Crowned tooth flanks

The tooth flanks of the RINGSPANN GF and GH tooth couplings are crowned in the axial direction. This also prevents edge pressure at the tooth ends. This makes it possible to compensate for larger radial and angular misalignments. It also improves the contact between the toothing of the coupling hub and the coupling sleeve. This in turn increases the load-bearing capacity of the gear coupling and reduces wear due to better lubrication in the tooth contact.

Longer sleeve toothing

The sleeves of the GF and GH gear couplings have longer internal teeth than comparable gear couplings. This makes it possible to compensate for larger axial displacements and thermal length changes.

Modern toothing production

Our modern toothing production makes it possible to reduce the tooth flank clearance of the GF and GH gear couplings. This allows the backlash to be reduced when changing the direction of rotation.

Coupling sleeve, coupling hub and seals

Coupling sleeve

The coupling sleeve connects the hubs to each other in a torsionally rigid manner. As a rule, the sleeve consists of two halves with straight internal teeth that are bolted together. The flange dimensions fulfil the requirements of AGMA 9008. The coupling sleeve is mounted on the hubs in a floating manner and thus enables axial misalignments to be compensated.

In addition to the split sleeves, one-piece sleeves are also available (see page 16).

7-1

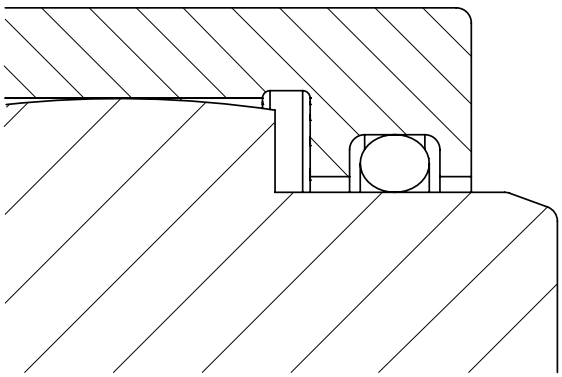
Coupling hub

The hubs of the GF and GH gear couplings have crowned external teeth on all sides (see page 6). This special toothing enables reliable torque transmission while simultaneously compensating for shaft misalignments.

7-2

Seals

To ensure reliable operation of the gear couplings, the coupling sleeves must be sealed against lubricant leakage and the ingress of dirt and dust. Depending on the lubricants used, the operating conditions and the operating temperature, O-rings made of NBR or Viton are available for this purpose.



7-3

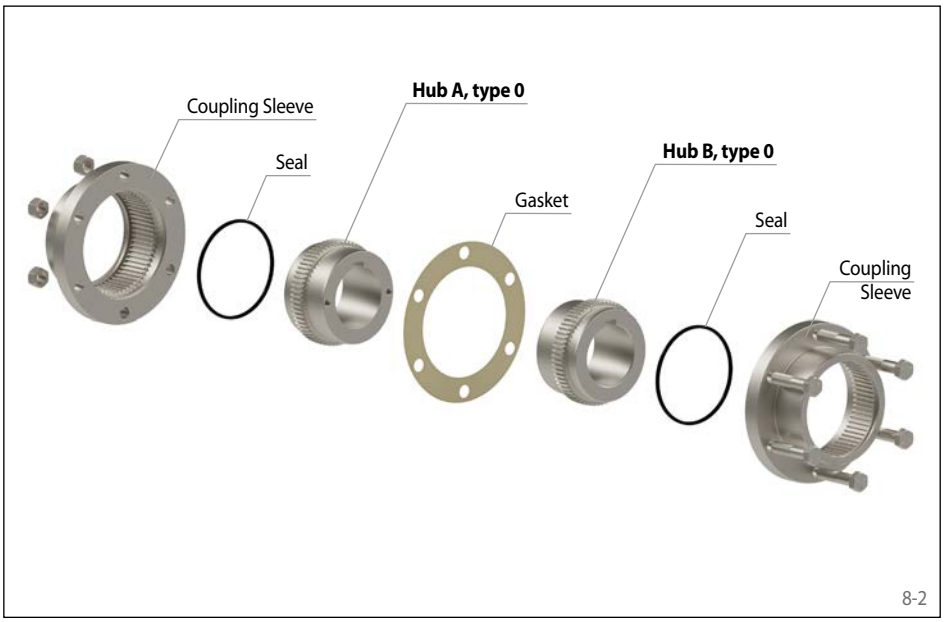
Gear Couplings GFF

double engagement gearing – lubricated with fully crowned teeth


8-1

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 1.5° permissible
- Sleeve with extended toothing allows greater axial displacements
- Complies with the AGMA standard (American Gear Manufacturer Association)
- High power density
- Typical applications: Roller drives in the steel and paper industry, pumps, conveyor systems, fans and blowers



8-2

Custom designs available upon request

- Heat-treated, alloyed or nitrided steels
- Balanced couplings for high speeds
- Other sizes and special versions

Order example	Code
Coupling design	GFF
Coupling size	1010
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

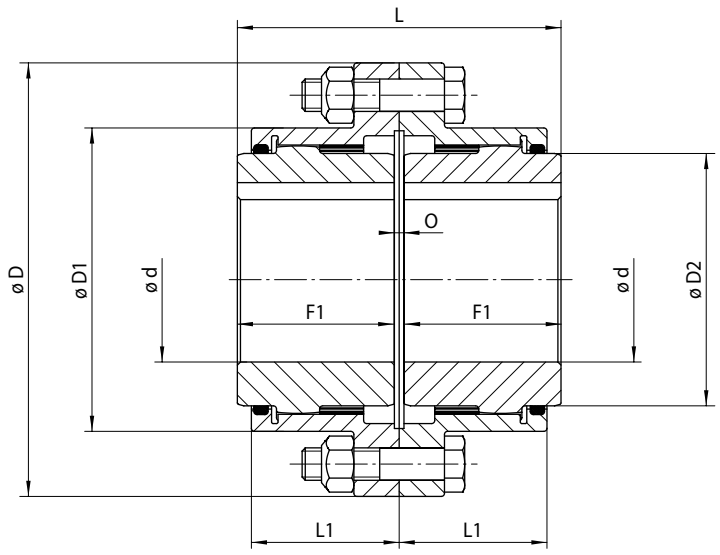
GFF 1010 DTO-STA-0FBAAM-0FBABA

* 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.

Gear Couplings GFF

RINGSPANN®

double engagement gearing – lubricated with fully crowned teeth



9-1

Coupling size	Nominal torque T_{KN}		Nominal power at 100 rpm P_{K100}		Max. speed n_{max}	Moment of inertia (solid hubs) J_K		Permissible misalignments				
								Axial		Radial		Angular
	inch-lb	Nm	HP	kW	rpm	lb-in²	lb-in²	inch	mm	inch	mm	°
1010	9600	1090	15.3	11,4	7000	18.25	0,005	±0.02	±0,5	0.054	1,37	1.5
1015	17000	1920	27	20,1	5400	63.15	0,018	±0.02	±0,5	0.057	1,45	
1020	31500	3560	50	37,3	4800	146.60	0,043	±0.02	±0,5	0.078	1,98	
1025	53500	6000	85	63,4	4300	360.00	0,110	±0.02	±0,5	0.102	2,59	
1030	94500	10600	150	111,8	4000	687.00	0,200	±0.02	±0,5	0.119	3,02	
1035	141500	16000	225	167,8	3600	1488.00	0,440	±0.04	±1,0	0.142	3,61	
1040	218500	24700	347	258,8	3200	2835.00	0,830	±0.04	±1,0	0.163	4,14	
1045	324000	36600	515	384,0	3200	4539.00	1,330	±0.04	±1,0	0.187	4,75	
1050	415500	47000	660	492,2	3200	8529.00	2,500	±0.04	±1,0	0.219	5,56	
1055	551000	62000	875	652,5	2400	13535.00	3,960	±0.04	±1,0	0.245	6,22	
1060	749500	84500	1190	887,0	2200	17957.00	5,250	±0.08	±1,0	0.274	6,96	
1070	1033000	116500	1640	1223,0	1800	35948.00	10,520	±0.08	±2,0	0.314	7,98	

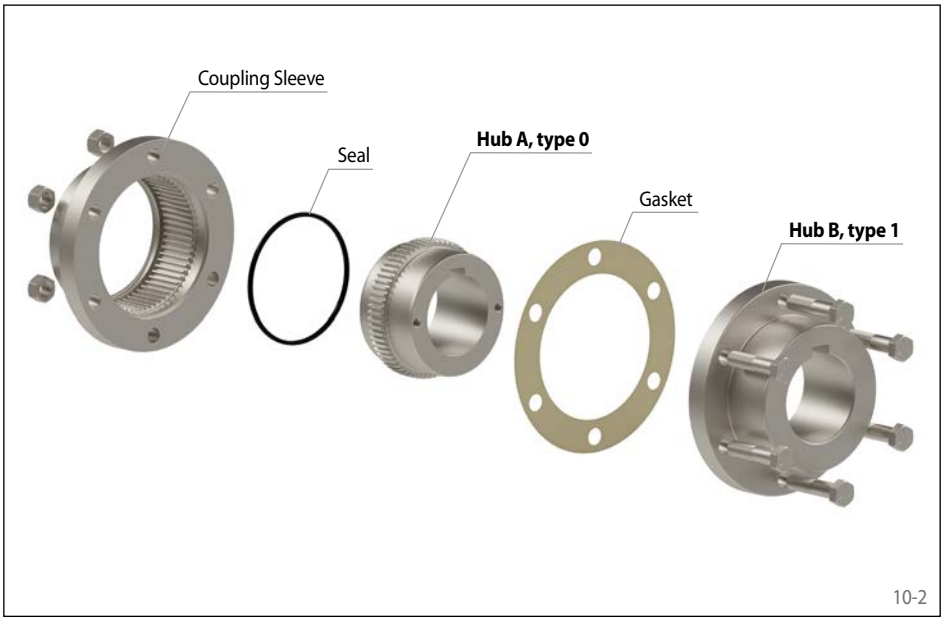
Coupling size	Bore d						D		D1		D2		F1		L		L1		O		Weight varies by bore solid	
	Pilot		Square key max.*		Reduced key max.*																	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs.	kg
1010	Solid	Solid	1.63	41	1.75	44	4.56	116	3.06	78	2.38	60	1.69	43	3.50	89	1.64	42	0.13	3	20	9
1015	Solid	Solid	2.25	57	2.38	60	6.00	152	3.92	100	3.13	79	1.94	50	4.00	103	1.82	46	0.13	3	35	16
1020	Solid	Solid	2.75	70	3.00	76	7.00	178	4.86	123	4.00	102	2.44	62	5.00	127	2.34	59	0.13	3	71	32
1025	Solid	Solid	3.50	89	3.75	95	8.37	213	5.86	149	4.88	124	3.03	77	6.25	159	2.86	73	0.19	5	123	56
1030	1.44	37	4.00	102	4.38	111	9.44	240	6.86	174	5.75	146	3.59	91	7.37	187	3.47	88	0.19	5	192	87
1035	1.44	37	4.50	114	5.00	127	11.00	279	7.88	200	6.50	165	4.19	107	8.63	220	3.91	99	0.25	6	302	137
1040	1.44	37	5.50	140	5.88	149	12.50	318	9.22	234	7.75	197	4.75	121	9.75	248	4.53	115	0.25	6	437	198
1045	2.00	51	6.25	159	6.75	171	13.63	346	10.35	263	9.00	229	5.31	135	10.94	278	5.00	127	0.31	8	615	279
1050	2.69	68	6.75	171	7.00	178	15.31	389	11.44	291	9.50	241	6.03	153	12.38	314	5.78	147	0.31	8	816	370
1055	3.00	76	7.50	191	7.75	197	16.75	425	12.69	322	10.50	267	6.62	168	13.56	344	6.34	161	0.31	8	970	440
1060	3.50	89	8.13	207	8.75	222	18.00	457	13.75	349	11.50	292	7.41	188	15.12	384	6.94	176	0.31	8	1442	654
1070	4.00	102	9.63	245	10.25	260	20.75	527	16.00	406	13.50	343	8.69	221	17.75	451	7.95	202	0.38	9	2233	1013

* The maximum permissible bore diameters refer to bores with keyways in accordance with AGMA 9002-C14.
Hubs up to and including size 1025 are only supplied with extracting threads on request.
The maximum permissible bore diameters may be reduced by extracting threads.

Gear Couplings GFR

single engagement gearing – lubricated with fully crowned teeth


10-1



10-2

Custom designs available upon request

- Heat-treated, alloyed or nitrided steels
- Balanced couplings for high speeds
- 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 1.5° permissible
- Sleeve with extended toothing allows greater axial displacements
- Ideal for use in combination with floating intermediate shafts
- Complies with the AGMA standard (American Gear Manufacturer Association)
- High power density
- Typical applications: Roller drives in the steel and paper industry, pumps, conveyor systems, fans and blowers

Order example	Code
Coupling design	GFR
Coupling size	1010
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

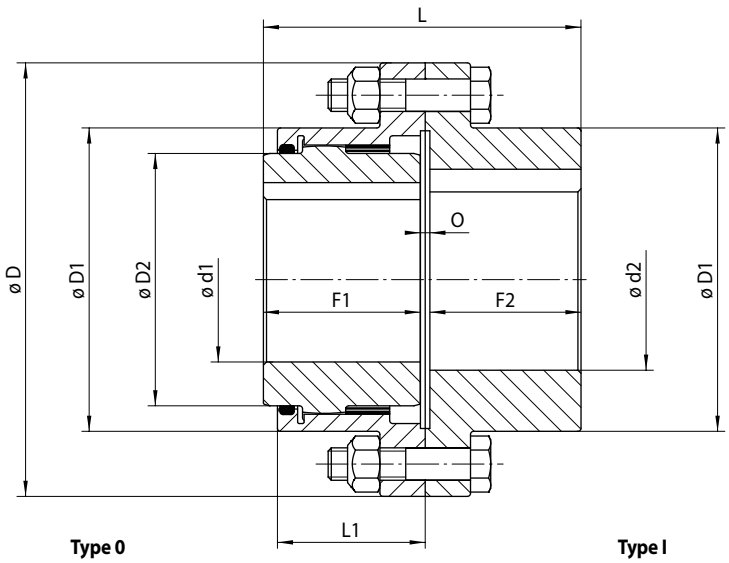
GFR 1010 DFO-STA-0FBAAM-1FBABA

* 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.

Gear Couplings GFR

RINGSPANN®

single engagement gearing – lubricated with fully crowned teeth



Type 0 **Type I**

11-1

Coupling size	Nominal torque T_{KN}		Nominal power at 100 rpm P_{K100}		Max. speed n_{max}	Moment of inertia (solid hubs) J_K		Permissible misalignments		
								Axial		Angular
	inch-lb	Nm	HP	kW	rpm	lb-in²	kgm²	inch	mm	°
1010	9600	1090	15.3	11,4	7000	18.64	0,005	±0.01	±0,3	0.75
1015	17000	1920	27	20,1	5400	66	0,019	±0.01	±0,3	
1020	31500	3560	50	37,3	4800	150	0,044	±0.01	±0,3	
1025	53500	6000	85	63,4	4300	380	0,111	±0.01	±0,3	
1030	94500	10600	150	111,8	4000	720	0,211	±0.01	±0,3	
1035	141500	16000	225	167,8	3600	1520	0,445	±0.02	±0,5	
1040	218500	24700	347	258,8	3200	2895	0,847	±0.02	±0,5	
1045	324000	36600	515	384,0	3200	4640	1,360	±0.02	±0,5	
1050	415500	47000	660	492,2	3200	9075	2,660	±0.02	±0,5	
1055	551000	62000	875	652,5	2400	14180	4,150	±0.02	±0,5	
1060	749500	84500	1190	887,0	2200	18670	5,460	±0.04	±1,0	
1070	1033000	116500	1640	1223,0	1800	37685	11,030	±0.04	±1,0	

Coupling size	Pilot d1/d2		Bore d1 max.*				Bore d2 max.*				D		D1		D2		F1		F2		L		L1		O		Weight varies by bore solid	
			Square key		Reduced key		Square key		Reduced key																			
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	lbs.	kg
1010	Solid	Solid	1.63	41	1.75	44	2.25	57	2.38	60	4.56	116	3.06	78	2.38	60	1.69	43	1.59	40	3.44	87	1.64	42	0.16	4	20	9
1015	Solid	Solid	2.25	57	2.38	60	2.75	70	2.88	73	6.00	152	3.92	100	3.13	79	1.94	50	1.89	48	4.00	102	1.82	46	0.16	4	35	16
1020	Solid	Solid	2.75	70	3.00	76	3.25	83	3.50	89	7.00	178	4.86	123	4.00	102	2.44	62	2.33	59	4.93	125	2.34	59	0.16	4	73	33
1025	Solid	Solid	3.50	89	3.75	95	4.38	111	4.50	114	8.37	213	5.86	149	4.88	124	3.03	77	2.92	74	6.12	155	2.86	73	0.19	5	130	59
1030	1.44	37	4.00	102	4.38	111	5.00	127	5.19	132	9.44	240	6.86	174	5.75	146	3.59	91	3.46	88	7.25	184	3.47	88	0.19	5	198	90
1035	1.44	37	4.50	114	5.00	127	5.38	137	5.75	146	11.00	279	7.88	200	6.50	165	4.19	107	3.91	99	8.31	211	3.91	99	0.22	6	309	140
1040	1.44	37	5.50	140	5.88	149	6.50	165	7.00	178	12.50	318	9.22	234	7.75	197	4.75	121	4.56	116	9.63	245	4.53	115	0.31	8	463	210
1045	2.00	51	6.25	159	6.75	171	7.38	187	7.88	200	13.63	346	10.35	263	9.00	229	5.31	135	5.06	129	10.71	272	5.00	127	0.34	9	639	290
1050	2.69	68	6.75	171	7.00	178	7.88	200	8.38	213	15.31	389	11.44	291	9.50	241	6.03	153	5.88	149	12.25	311	5.78	147	0.34	9	860	390
1055	3.00	76	7.50	191	7.75	197	9.00	229	9.25	235	16.75	425	12.69	322	10.50	267	6.62	168	6.81	173	13.77	350	6.34	161	0.34	9	1014	460
1060	3.50	89	8.13	207	8.75	222	10.00	254	10.25	260	18.00	457	13.75	349	11.50	292	7.41	188	7.06	179	14.88	378	6.94	176	0.41	10	1532	695
1070	4.00	102	9.63	245	10.25	260	11.25	286	12.25	311	20.75	527	16.00	406	13.50	343	8.69	221	8.31	211	17.50	445	7.95	202	0.50	13	2359	1070

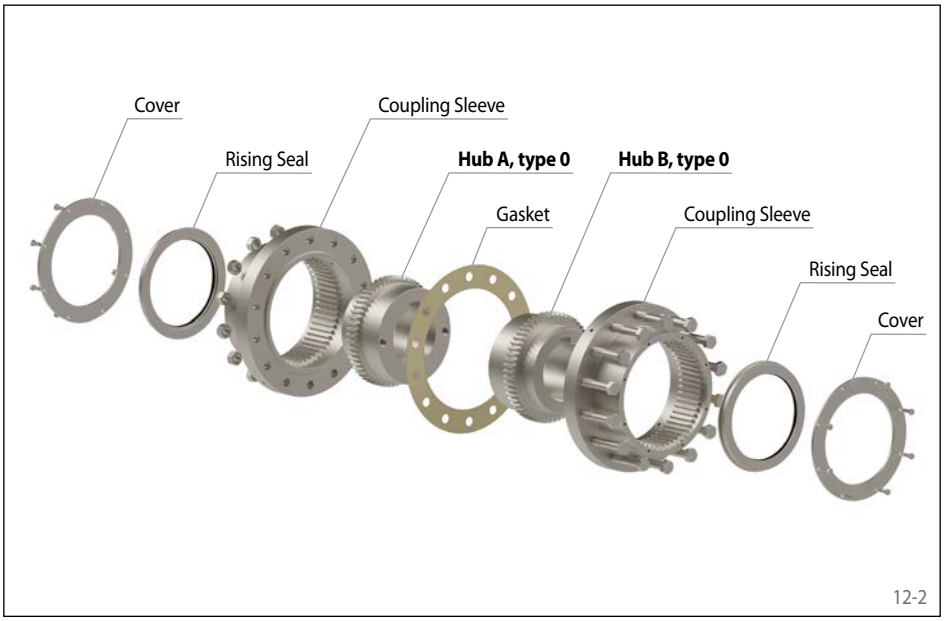
* The maximum permissible bore diameters refer to bores with keyways in accordance with AGMA 9002-C14.
Hubs up to and including size 1025 are only supplied with extracting threads on request.
The maximum permissible bore diameters may be reduced by extracting threads.

Gear Couplings GHF

RINGSPANN®

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

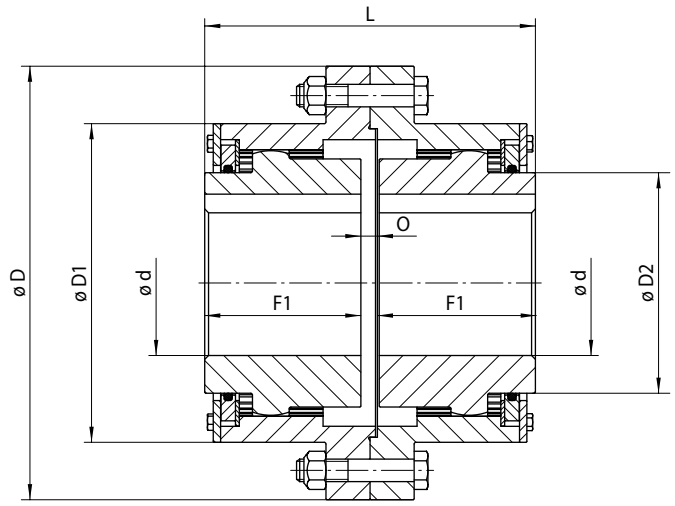
GHF H150 DTO-STA-0FBAAM-0FBABA

* 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.

Gear Couplings GHF

RINGSPANN®

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



13-1

Coupling size	Torque Rating T_{KN} Operating Angle 1° inch-lb	1° Nm	2° inch-lb	2° Nm	3° inch-lb	3° Nm	3.5° inch-lb	3.5° Nm	Max. speed n_{max} rpm	Moment of inertia (solid hubs) J_K lb-in²	kgm²	Permissible misalignments Axial (Offset) inch	Axial (Offset) mm	Radial (Offset) inch	Radial (Offset) mm	Angular °
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* Square key max. inch	Square key max. mm	Reduced key max. inch	Reduced key max. mm	D inch	D mm	D1 inch	D1 mm	D2 inch	D2 mm	F1 inch	F1 mm	L inch	L mm	O inch	O mm	Bolt Size	Qty. of Bolts	Weight varies by bore solid lbs.	solid kg
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	1235,5	560,4

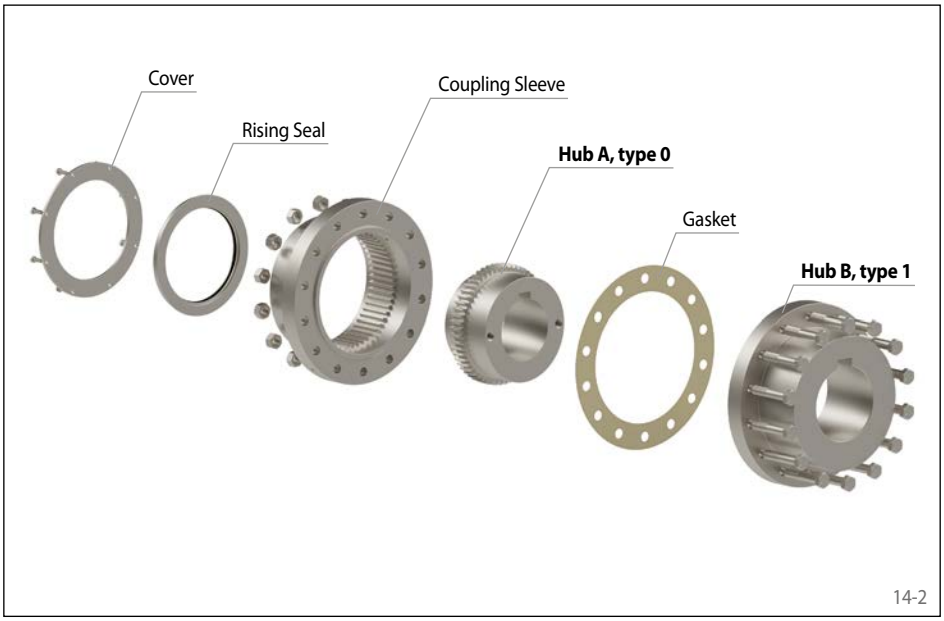
* The maximum permissible bore diameters refer to bores with keyways in accordance with AGMA 9002-C14.

Gear Couplings GHR

RINGSPANN®

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


14-1



14-2

Custom designs available upon request

- Heat-treated, alloyed or nitrided steels
- Couplings for shaft misalignments up to 3°
- 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 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

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

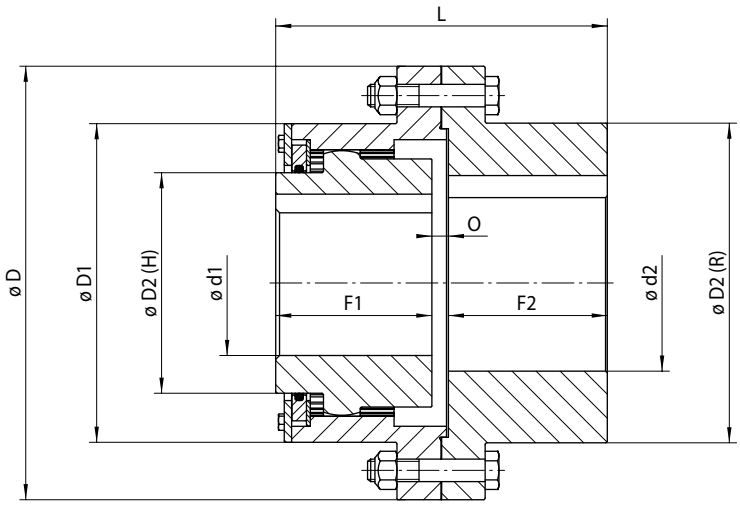
GHR H150 DFO-STA-0FBAAM-1FBABA

* 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.

Gear Couplings GHR

RINGSPANN®

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



Type 0 **Type I**

15-1

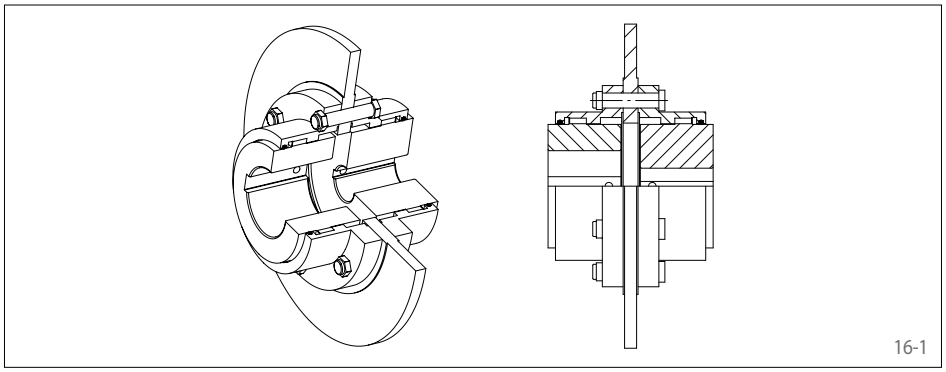
Coupling size	Torque Rating T_{KN} Operating Angle								Max. speed n_{max}	Moment of inertia (solid hubs) J_K		Permissible misalignments		
	1°		2°		3°		3.5°					Axial (Offset)		Angular
	inch-lb	Nm	inch-lb	Nm	inch-lb	Nm	inch-lb	Nm	rpm	lb-in²	kgm²	inch	mm	°
H150	23600	2660	16500	1860	11800	1330	10600	1200	4000	65,7	0,019	±0.02	±0,5	1.75
H200	42100	4760	29500	3330	21000	2380	18900	2140	3600	146,6	0,043	±0.02	±0,5	
H250	56500	6300	39500	4470	28200	3190	25400	2870	3600	307,8	0,089	±0.02	±0,5	
H300	147000	16600	103000	11600	73500	8300	62500	7000	3200	576,1	0,167	±0.02	±0,5	
H350	227500	25700	159500	18000	113500	12800	97500	11000	3200	1361,8	0,395	±0.04	±1,0	
H400	354500	40000	248000	28000	177000	20000	156000	17600	3000	2221,3	0,644	±0.04	±1,0	
H450	500500	56500	350000	39500	250500	28200	216500	24400	3000	3478,7	1,009	±0.04	±1,0	
H500	585500	66000	410000	46300	292500	33000	247000	27900	2400	6919,1	2,007	±0.04	±1,0	
H550	879500	99000	615500	69500	439500	49600	357000	40300	2000	11537,5	3,346	±0.04	±1,0	
H600	1348000	152000	943500	106500	674000	76000	581000	65500	1800	17851,7	5,177	±0.08	±2,0	
H700	1467500	165500	1027000	116000	733500	82500	660000	74500	1600	43402,2	12,587	±0.08	±2,0	
H800	2695000	304500	1886500	213000	1347500	152000	1096500	123500	1600	63974,5	18,553	±0.08	±2,0	

Coupling size	Bore d1 max.* Square key		Bore d1 max.* Reduced key		Bore d2 max.* Square key		Bore d2 max.* Reduced key		D		D1		D2 (H)		D2 (R)		F1		F2		L		O		Weight varies by bore solid	
	inch	mm	inch	mm	inch	mm	inch	mm	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.

Gear couplings with brake disc

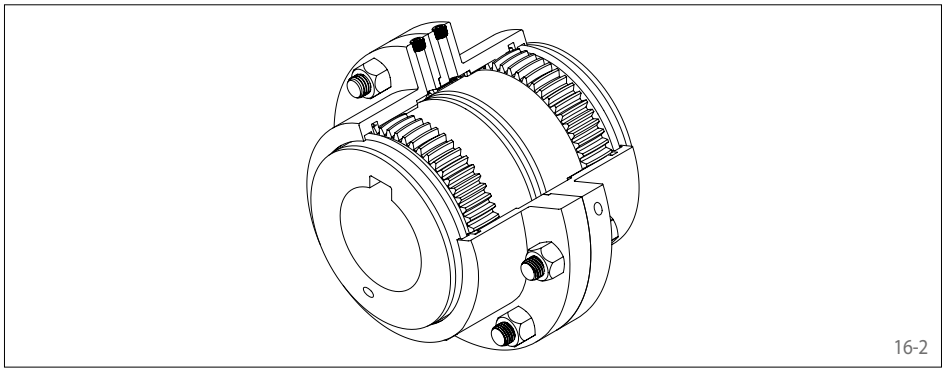
RINGSPANN gear couplings are also available with an integrated brake disc or brake drum. This eliminates the need for an additional shaft journal.



16-1

Balanced gear couplings for high speeds

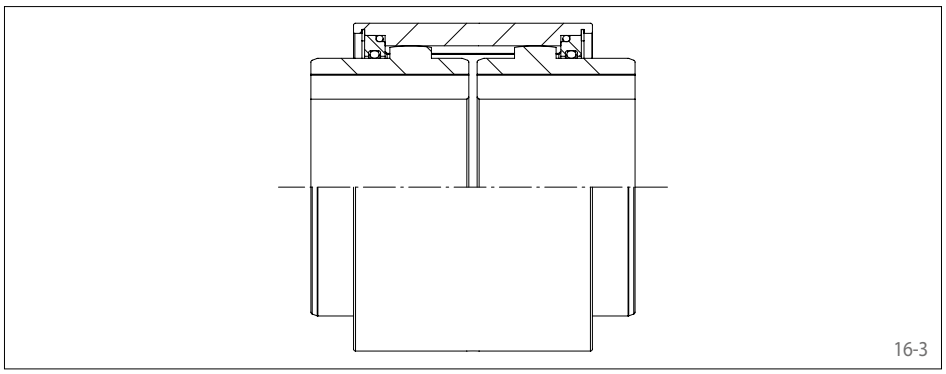
The gear geometry and the manufacturing quality of the components generally also allow the gear couplings to be used at high speeds. The components can be individually balanced for this purpose.



16-2

Gear couplings with continuous sleeve

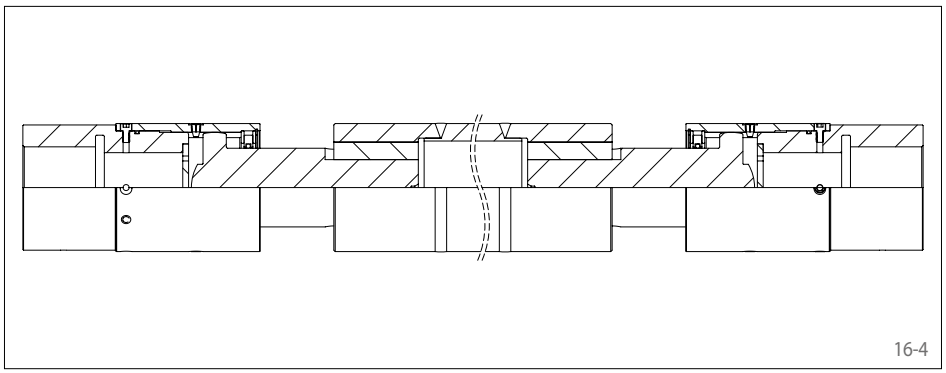
For applications with radially limited installation space, the gear couplings can also be supplied with a continuous coupling sleeve



16-3

Gear couplings for leveler spindle

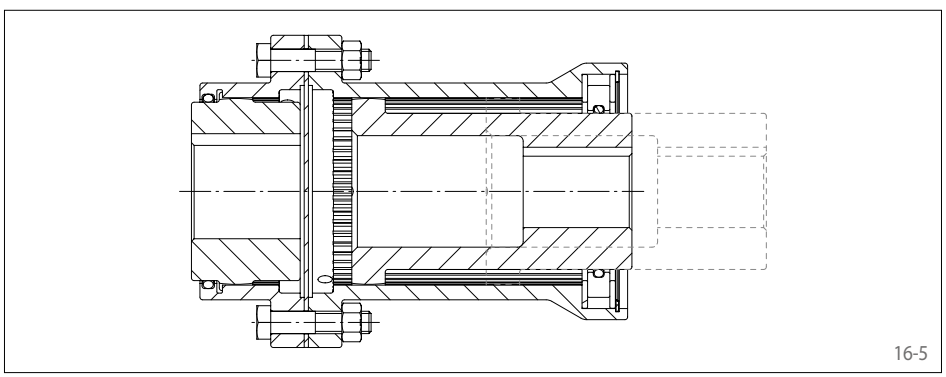
Gear couplings for driving leveling spindles are characterized by their robust design and their ability to compensate for large shaft misalignments. They are therefore particularly suitable for operation in steel rolling mills.



16-4

Gear couplings with extended travel

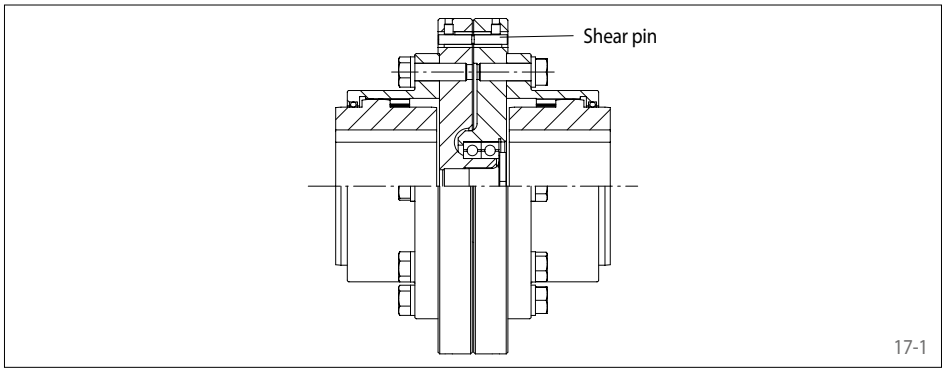
Gear couplings with an extended travel path allow a variable distance between the connected shafts. This makes it possible, for example, to compensate for thermal changes in the length of the shafts or to adapt working machines to different product dimensions or product qualities.



16-5

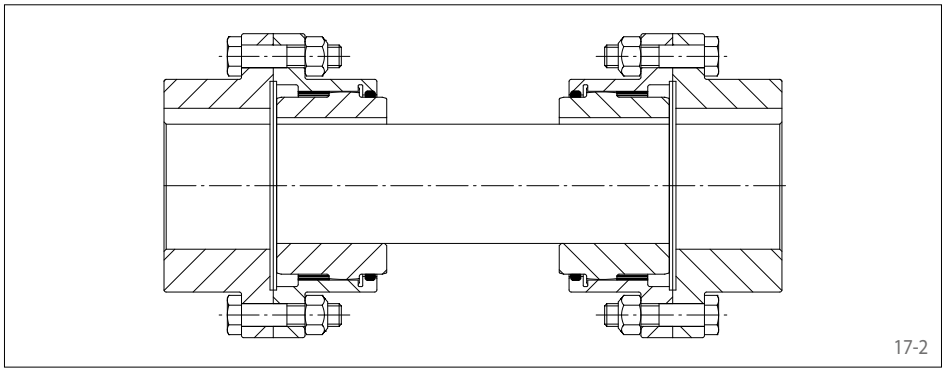
Gear couplings with shear pins

To protect against overload, the gear couplings can be fitted with one or more shear pins. The torque is transmitted via the shear pins, which are sheared off in the event of an overload if a critical value is exceeded. This separates the input and output from each other.



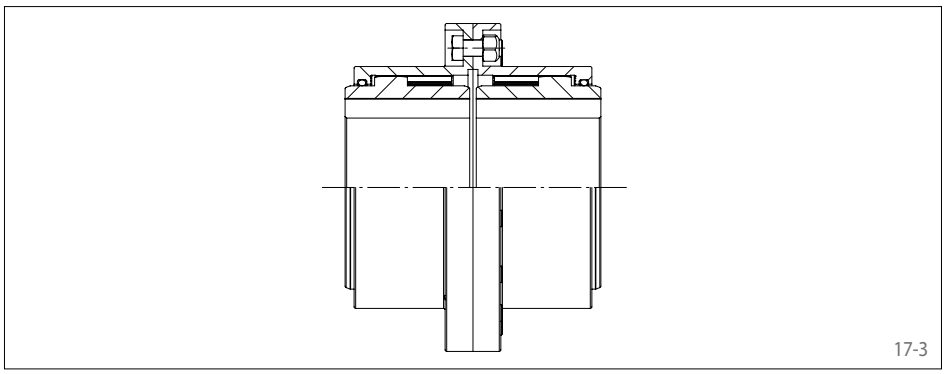
Gear couplings with floating intermediate shaft

The use of two gear couplings with an intermediate shaft makes it possible to compensate for larger radial misalignments.



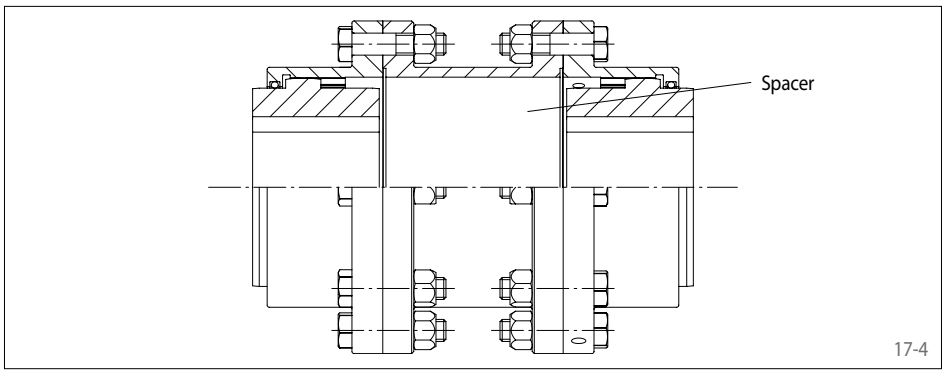
Gear coupling with shrouded bolts and nuts

Coupling sleeves with shrouded bolts and nuts can be supplied on request.



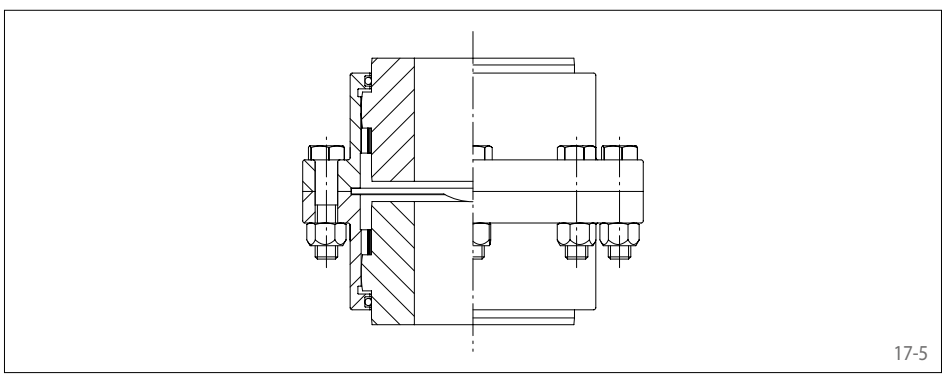
Gear couplings with spacer

In various applications, the gear coupling must bridge a greater distance between the shafts. For such applications, the coupling sleeves can be extended using spacers, thereby increasing the permissible distance between the shaft ends.



Gear couplings for vertical mounting

To ensure that the teeth of the upper hub are not damaged by the weight of the coupling sleeve when the gear coupling is installed vertically, it must be fitted with a special pressure plate. As a result, it is supported by the lower shaft and is always held in the correct position.



RINGSPANN®

Design with service factors

The permissible nominal torque of coupling T_{KN} must be at least as high as the nominal torque of the machine T_N with consideration of the operating conditions (service factor S_B).

$T_{KN} \geq T_N \cdot S_B$

The nominal torque of the machine T_N results from the following in the

Imperial system:

$$T_N = 63000 \cdot \frac{P_N}{n}$$

n = Speed of the machine [rpm]

P_N = Nominal power [HP]

T_{KN} = Nominal torque of the coupling [in-lb]

T_N = Nominal torque of the machine [in-lb]

Metric system:

$$T_N = 9550 \cdot \frac{P_N}{n}$$

n = Speed of the machine [min^{-1}]

P_N = Nominal power [kW]

T_{KN} = Nominal torque of the coupling [Nm]

T_N = Nominal torque of the machine [Nm]

Service factor S_B

Machine	Individual applications	Service factor
Agitators	Pure Liquids	1.0
	Liquids-Variable Density	1.0
Blowers	Centrifugal	1.0
	Lobe	1.2
Can Filling Machines		1.0
Car Dumpers		2.0
Car Pullers, Intermittent Duty		1.5
Compressors	Centrifugal	1.0
	Reciprocating	2.2
	Multi-Cylinder	2.0
	Single Cylinder	2.0
Conveyors, Uniformly	Assembly	1.2
	Belt	1.2
	Screw	1.2
Conveyors, Heavy Duty Not Uniformly	Fed Assembly	1.5
	Belt	1.5
	Oven	1.5
	Reciprocating	2.0
	Screw	1.5
	Shaker	1.5
Cranes and Hoists*	Main Hoists	2.0
	Reversing	2.0
	Skip Hoists	2.0
	Trolley Drive	2.0
	Bridge Drive	2.0
Crushers	Ore	3.0
	Stone	3.0
Dredges	Conveyors	2.0
	Cutter Head Drives	2.0
	Maneuvering Winches	2.0
	Pumps	2.0
Fans	Centrifugal	1.0
	Cooling Towers Forced Draft	1.5
Feeders	Screw	1.5
Generators	Not Welding	1.0
	Welding	1.5
	Hammer Mills	2.0
Laundry Washers	Reversing	1.5
Lumber Industry	Barkers: Drum Type	2.0
	Edger Feed	2.0
	Live Rolls	2.0
	Log Haul: Incline	2.0
	Log Haul: Well Type	2.0
	Off Bearing Rolls	2.0
	Planer Feed Chains	1.75
	Planer Tilting Hoist	1.75
	Planer Floor Chains	1.75
	Slab Conveyor	1.5
	Sorting Table	1.5
	Trimmer Feed	1.5

Machine	Individual applications	Service factor
Machine Tools	Bending Roll	2.0
	Punch Press, Gear Driven	2.0
	Tapping Machines	2.0
	Main Drives	1.5
	Auxiliary Drives	1.5
Metal Mills	Draw Bench - Carriage	2.0
	Draw Bench - Main Drive	2.0
	Forming Machines	2.0
	Slitters	1.5
Metal Rolling Mills	Blooming Mills	2.5
	Coilers, Hot Mill	2.0
	Coilers, Cold Mill	1.5
	Cold Mills	2.0
	Cooling Beds	1.75
	Door Openers	2.0
	Draw Benches	2.0
	Edger Drives	1.75
	Feed Rolls, Reversing Mills	3.5
	Furnace Pushers	2.5
	Hot Mills	3.0
	Ingot Cars	2.5
	Kick-outs	2.5
	Manipulators	3.0
	Merchant Mills	3.0
	Piercers	3.0
	Pusher Rams	2.5
	Reel Drives	1.75
	Reel Drums	2.0
	Reelers	3.0
	Rod and Bar Mills	3.0
	Roughing Mill Delivery Table	3.0
	Runout Tables	2.5
	Saws, hot & cold	2.5
	Screwdown Drives	3.0
	Skelp Mills	3.0
	Slitters	3.0
	Slabing Mills	1.75
	Soaking Pit Cover Drives	3.0
	Straighteners	2.5
	Tables, transfer & runout	2.5
	Thrust Block	3.0
	Traction Drive	3.0
	Tube Conveyor Rolls	2.5
	Unscramblers	2.5
	Wire Drawing	1.75
Mills, Rotary Type	Ball	2.25
	Dryers & Coolers	2.0
	Hammer	1.75
	Kilns	2.0
	Pebble & Rod	2.0
	Pug	1.75
	Tumbling Barrels	2.0

Machine	Individual applications	Service factor
Table Conveyors	Non-Reversing	2.25
	Reversing	2.5
	Wire Drawing & Flattening Machine	2.0
	Wire Winding Machine	1.75
Mixers	Concrete Mixers, Continuous	1.5
	Concrete Mixers, Intermittent	2.0
Oil Industry	Oil Well Pumping	2.0
	Rotary Kilns	2.0
Paper Mills	Agitators, Mixers	1.5
	Barker Auxiliaries, Hydraulic	2.0
	Barker Mechanical	2.0
Barking Drum Spur	Gear Only	2.0
	Beater & Pulper	1.75
	Bleacher	1.0
	Calenders	2.0
	Calenders, Super	1.5
	Chippers	2.5
	Coaters	1.0
Converting Machines	Except Cutters, Platers	1.5
	Conveyors	1.5
	Couch Roll	1.75
	Cutters, Platters	2.0
	Cylinders	1.75
	Disc Refiners	1.75
	Dryers	1.75
	Felt Stretcher	1.25
	Felt Whipper	2.0
	Jordans	1.75
	Line Shaft	1.5
	Log Haul	2.0
	Pulp Grinder	1.75
	Press Roll	2.0
	Reel	1.5
	Stock Chests	1.5
	Suction Roll	1.75
	Washers & Thickeners	1.5
	Winders	1.5
	Printing Presses	1.5
Pumps	Centrifugal	1.0
Pumps, Reciprocating	Single Acting 3 or more Cylinders	1.5
	Double Acting 2 or more Cylinders	2.0
Rotary, Gear Type, Lobe	Vane	1.5
Rubber Industry	Mixer	2.0
	Rubber Calender	2.0
Screens	Rotary, Stone or Gravel	1.5
	Steering Gear	1.0
	Stokers	1.0
Textile Industry	Dryers	1.5
	Dyeing Machinery	1.5
	Windlass	2.0

* material transport only

Imperial Dimension order code based on fit type

Bore and keyway according to AGMA 9002-C14, bore tolerance: interference fit

Bore, whole number	Bore, fractional															
	0	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"
0"	AAA	AAB	AAC	AAD	AAE	AAF	AAG	AAH	AAI	AAJ	AAK	AAL	AAM	AAN	AAO	AAP
1"	ABA	ABB	ABC	ABD	ABE	ABF	ABG	ABH	ABI	ABJ	ABK	ABL	ABM	ABN	ABO	ABP
2"	ACA	ACB	ACC	ACD	ACE	ACF	ACG	ACH	ACI	ACJ	ACK	ACL	ACM	ACN	ACO	ACP
3"	ADA	ADB	ADC	ADD	ADE	ADF	ADG	ADH	ADI	ADJ	ADK	ADL	ADM	ADN	ADO	ADP
4"	AEA	AEB	AEC	AED	AEE	AEF	AEG	AEH	AEI	AEJ	AEK	AEL	AEM	AEN	AEO	AEP
5"	AFA	AFB	AFC	AFD	AFE	AFF	AFG	AFH	AFI	AFJ	AFK	AFL	AFM	AFN	AFO	AFP
6"	AGA	AGB	AGC	AGD	AGE	AGF	AGG	AGH	AGI	AGJ	AGK	AGL	AGM	AGN	AGO	AGP
7"	AHA	AHB	AHC	AHD	AHE	AHF	AHG	AHH	AHI	AHJ	AHK	AHL	AHM	AHN	AHO	AHP
8"	AIA	AIB	AIC	AID	AIE	AIF	AIG	AIH	AII	AIJ	AIK	AIL	AIM	AIN	AIO	AIP
9"	AJA	AJB	AJC	AJD	AJE	AJF	AJG	AJH	AJI	AJJ	AJK	AJL	AJM	AJN	AJO	AJP
10"	AKA	AKB	AKC	AKD	AKE	AKF	AKG	AKH	AKI	AKJ	AKK	AKL	AKM	AKN	AKO	AKP
11"	ALA	ALB	ALC	ALD	ALE	ALF	ALG	ALH	ALI	ALJ	ALK	ALL	ALM	ALN	ALO	ALP
12"	AMA	AMB	AMC	AMD	AME	AMF	AMG	AMH	AMI	AMJ	AMK	AML	AMM	AMN	AMO	AMP
13"	ANA	ANB	ANC	AND	ANE	ANF	ANG	ANH	ANI	ANJ	ANK	ANL	ANM	ANN	ANO	ANP
14"	AOA	AOB	AOC	AOD	AOE	AOF	AOG	AOH	AOI	AOJ	AOK	AOL	AOM	AON	AOO	AOP
15"	APA	APB	APC	APD	APE	APF	APG	APH	API	APJ	APK	APL	APM	APN	APO	APP
16"	AQA	AQB	AQC	AQD	AQE	AQF	AQG	AQH	AQI	AQJ	AQK	AQL	AQM	AQN	AQO	AQP
17"	ARA	ARB	ARC	ARD	ARE	ARF	ARG	ARH	ARI	ARJ	ARK	ARL	ARM	ARN	ARO	ARP
18"	ASA	ASB	ASC	ASD	ASE	ASF	ASG	ASH	ASI	ASJ	ASK	ASL	ASM	ASN	ASO	ASP
19"	ATA	ATB	ATC	ATD	ATE	ATF	ATG	ATH	ATI	ATJ	ATK	ATL	ATM	ATN	ATO	ATP
20"	AUA	AUB	AUC	AUD	AUE	AUF	AUG	AUH	AUI	AUJ	AUK	AUL	AUM	AUN	AUO	AUP
21"	AVA	AVB	AVC	AVD	AVE	AVF	AVG	AVH	AVI	AVJ	AVK	AVL	AVM	AVN	AVO	AVP
22"	AWA	AWB	AWC	AWD	AWE	AWF	AWG	AWH	AWI	AWJ	AWK	AWL	AWM	AWN	AWO	AWP
23"	AXA	AXB	AXC	AXD	AXE	AXF	AXG	AXH	AXI	AXJ	AXK	AXL	AXM	AXN	AXO	AXP

Bore and keyway according to AGMA 9002-C14, bore tolerance: clearance fit

Bore, whole number	Bore, fractional															
	0	1/16"	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	11/16"	3/4"	13/16"	7/8"	15/16"
0"	ZAA	ZAB	ZAC	ZAD	ZAE	ZAF	ZAG	ZAH	ZAI	ZAJ	ZAK	ZAL	ZAM	ZAN	ZAO	ZAP
1"	ZBA	ZBB	ZBC	ZBD	ZBE	ZBF	ZBG	ZBH	ZBI	ZBJ	ZBK	ZBL	ZBM	ZBN	ZBO	ZBP
2"	ZCA	ZCB	ZCC	ZCD	ZCE	ZCF	ZCG	ZCH	ZCI	ZCJ	ZCK	ZCL	ZCM	ZCN	ZCO	ZCP
3"	ZDA	ZDB	ZDC	ZDD	ZDE	ZDF	ZDG	ZDH	ZDI	ZDJ	ZDK	ZDL	ZDM	ZDN	ZDO	ZDP
4"	ZEA	ZEB	ZEC	ZED	ZEE	ZEF	ZEG	ZEH	ZEI	ZEJ	ZEK	ZEL	ZEM	ZEN	ZEO	ZEP
5"	ZFA	ZFB	ZFC	ZFD	ZFE	ZFF	ZFG	ZFH	ZFI	ZFJ	ZFK	ZFL	ZFM	ZFN	ZFO	ZFP
6"	ZGA	ZGB	ZGC	ZGD	ZGE	ZGF	ZGG	ZGH	ZGI	-	-	-	-	-	-	-

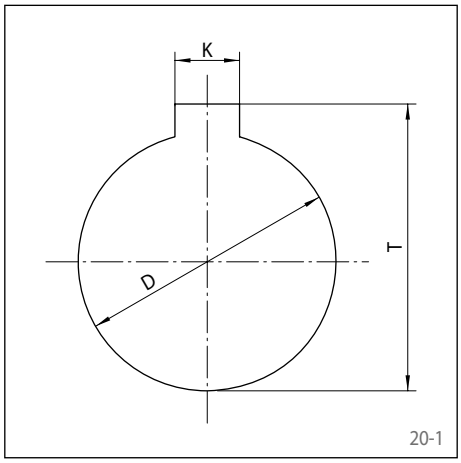
Bore dimensions

Inch bores

The RINGSPANN shaft couplings are also available with bores in inch dimensions.

RINGSPANN follows the specifications of AGMA 9002-C14 as of 02.2015. Deviating bores, e.g. according to B.S. 46, are possible, but must be requested separately. When ordering inch bores, RINGSPANN recommends specifying not only the bore diameter in inches or millimetres, but also the width and depth of the keyway and the desired fit.

On the next page you will find a selection of the most common bores with the dimensions of the keyways. Further bores can be requested from RINGSPANN.



Bore dimensions

RINGSPANN®

Inch bores

	Bore				Keyway				
	Nominal Shaft Diameter	Bore Diameter D	Bore Tolerance AGMA Clearance Fit	Bore Tolerance AGMA Interference Fit	Width K		Width K Tolerance	Depth T	Depth T Tolerance
	inch	mm	mm	mm	inch	mm	mm	mm	mm
Square key	3/8	9,525	-0,0000 / +0,0254	-0,0254 / -0,0127	3/32	2,38	-0,000 / +0,051	10,698	-0,000 / +0,381
	7/16	11,113						12,309	
	1/2	12,700			1/8	3,18		14,221	
	5/8	15,875			3/16	4,76		18,026	
	3/4	19,050						21,262	
	15/16	23,813			1/4	6,35		26,690	
	1	25,400						28,306	
	1 1/4	31,750			5/16	7,94		34,740	
	1 3/8	34,925						38,572	
	1 1/2	38,100		-0,0508 / -0,0254	3/8	9,53	-0,000 / +0,064	42,393	
	1 5/8	41,275						45,616	
	1 3/4	44,450						48,832	
	1 15/16	49,213			1/2	12,70		54,864	
	2	50,800	-0,0000 / +0,0381					56,477	
	2 1/4	57,150						62,921	
	2 3/8	60,325			5/8	15,88	-0,000 / +0,076	67,333	
	2 1/2	63,500						70,564	
	2 5/8	66,675						73,790	
	2 3/4	69,850						77,008	
	2 15/16	74,613			3/4	19,05		83,035	
	3	76,200						84,651	
	3 1/4	82,550		-0,0762 / -0,0381	7/8	22,23		91,095	
	3 3/8	85,725						95,507	
	3 1/2	88,900						98,735	
	3 5/8	92,075						101,961	
	3 3/4	95,250						105,181	
	3 15/16	100,013			1	25,40		111,206	
	4	101,600						112,822	
	4 1/4	107,950		-0,0889 / -0,0508				119,268	
	4 3/8	111,125						122,489	
	4 1/2	114,300						125,705	
	4 5/8	117,475			1 1/4	31,75	-0,000 / +0,089	131,298	
	4 3/4	120,650						134,534	
	4 15/16	125,413						139,380	
	5	127,000						140,993	
	5 1/4	133,350		-0,1016 / -0,0635				147,442	
	5 3/8	136,525						150,663	
	5 1/2	139,700						153,881	
	5 5/8	142,875			1 1/2	38,10		159,474	
	5 3/4	146,050						162,707	
	5 15/16	150,813						167,551	
	6	152,400						169,164	
	6 1/4	158,750						175,616	
	6 3/8	161,925						178,836	
	6 1/2	165,100						182,057	
Rectangular key	6 5/8	168,275	not spezified according ANSI / AGMA 9002-C14	-0,1016 / -0,0635	1 3/4	44,45	-0,000 / +0,102	184,470	-0,000 / +0,381
	6 3/4	171,450						187,703	
	7	177,800						194,163	
	7 1/4	184,150		-0,127 / -0,0762				200,612	
	7 1/2	190,500						207,056	
	7 3/4	196,850			2	50,8		212,700	
	8	203,200						219,159	
	8 1/4	209,550		-0,1397 / -0,0889				225,610	
	8 1/2	215,900						232,054	
	8 3/4	222,250						238,493	
	9	228,600						244,927	
	9 1/4	234,950		-0,1524 / -0,1016	2 1/2	63,5		252,938	
	9 1/2	241,300						259,408	
	9 3/4	247,650						265,869	
	10	254,000						272,326	
	10 1/2	266,700						285,224	
	10 3/4	273,050		-0,1651 / -0,1143				291,666	
	11	279,400						298,105	
	11 1/2	292,100		-0,1778 / -0,127	3	76,2		312,577	
	11 3/4	298,450						319,039	
	12	304,800						325,496	
	12 1/2	317,500		-0,1905 / -0,1397				338,394	
	12 3/4	323,850						344,838	
	13	330,200						351,279	
	13 1/2	342,900		-0,2159 / -0,1651	3 1/2	88,9		368,922	
	13 3/4	349,250						375,382	
	14	355,600						381,838	
	14 1/2	368,300		-0,2286 / -0,1778				394,739	
	14 3/4	374,650						401,185	
	15	381,000						407,627	
	15 1/2	393,700		-0,254 / -0,1905	4	101,6		425,267	
	15 3/4	400,050						431,726	
	16	406,400						438,183	
	16 1/2	419,100		-0,2667 / -0,2032				451,084	
	16 3/4	425,450						457,530	

Questionnaire for selecting Shaft Couplings

RINGSPANN®

Please photocopy or use the technical query from our website (www.ringspann.com)!

Company: ..... Phone: .....

Name: ..... E-Mail: .....

Date: .....

1. Type of application

1.1 Machine type, machine group or drive:

_____

_____

2. Operating data

2.1 Drive type

❏ Eletric motor
❏ Combustion engine
Fuel type: ❏ Petrol
❏ Diesel
❏ Natural gas
❏ Other: _____
Number of cylinders _____
❏ Gearbox
❏ Other: _____

2.2 Performance data

Driving power _____ [kW]

Speed of the drive / of the gearbox _____ [min^{-1}]

Service factor S_B _____

Total torque of the application _____ [Nm]

2.3 Operating data

❏ in a closed room
❏ outside, protected
❏ outside, sea air
❏ aggressive
❏ hazardous area, zone

_____

❏ Other (accessibility, dusty atmosphere, etc.)

_____

Ambient temperatures
from _____ °C to _____ °C

3. Dimensions

3.1 Motor shaft
Cylinderical shaft with keyway

Diameter of the drive shaft _____ [mm]

Keyway dimensions _____ [mm]

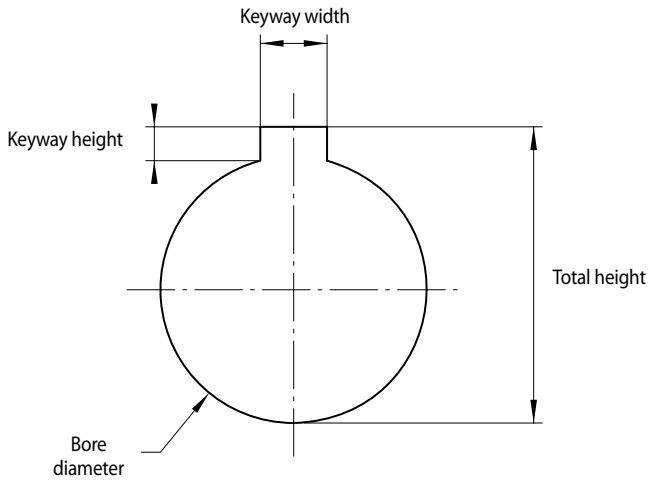
Usable shaft length of the drive shaft _____ [mm]

Please provide more details:
clearance fit, press fit, metric coupling size (P7, H7, etc.), with or without set screw, clamping elements / clamping sets

_____

Special drive shaft
Specification

_____



Please photocopy or use the technical query from our website (www.ringspann.com)!

Company: ..... Phone: .....

Name: ..... E-Mail: .....

Date: .....

3.2 Output shaft

Cylindrical shaft with keyway

Diameter of the output shaft _____ [mm]

Keyway dimensions _____ [mm]

Usable shaft length of the output shaft _____ [mm]

Please provide more details:
clearance fit, press fit, metric coupling size (P7, H7, etc.), with or without set screw, clamping elements / clamping sets

_____

_____

Taper shaft end

Min. diameter of the taper _____ [mm]

Max. diameter of the taper _____ [mm]

T (gradient) _____

Wrench size _____

Thread coupling size _____

Thread length _____ [mm]

Diameter of the spacer _____ [mm]

Thickness of the disc _____ [mm]

Special output shaft
Specification

_____

_____

3.3 Distances

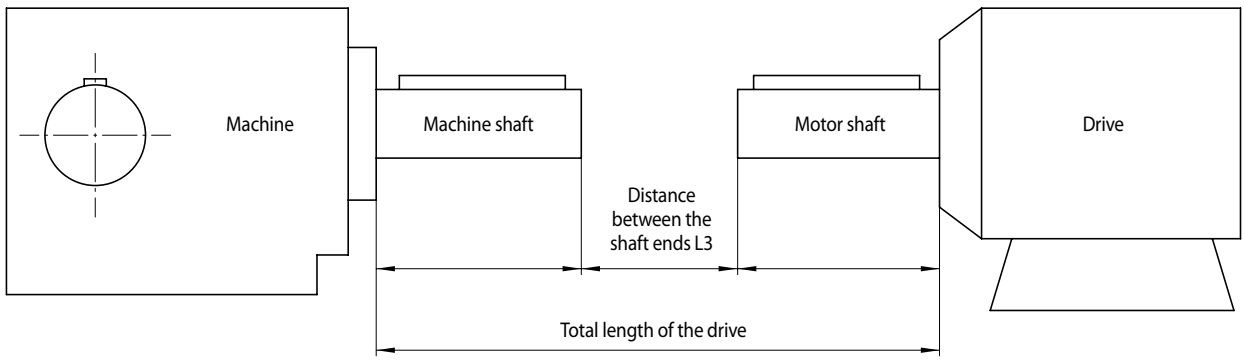
Distance between the shaft ends _____ [mm]

Total installation length _____ [mm]

Please specify any obstacles, beams, protective grating, pipes, etc.

_____

_____



7. Estimated requirements _____ Piece (one-off) _____ Piece/month _____ Piece/year

8. Appendices ❑ Specifications ❑ Data sheet ❑ Sketch/drawing

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