



Series H Gear Couplings

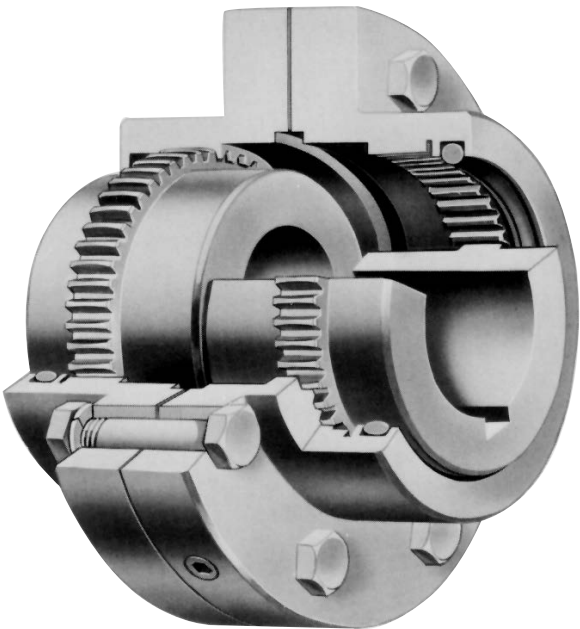
SIZE 1 THROUGH 30 CATALOG



Series H

Gear Couplings

Size 1 through 30



**LARGE BORE CAPACITY,
WITH O-RING SEAL**

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Series H Gear Couplings

THE SERIES H ADVANTAGES:

Higher Misalignment Capability

Sizes 1-7 compensate for up to $\pm 1 \frac{1}{2}^{\circ}$ static angular misalignment per gear mesh.

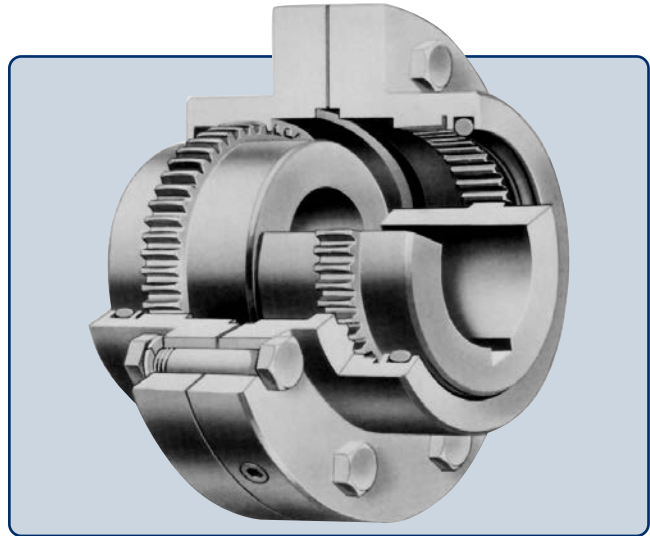
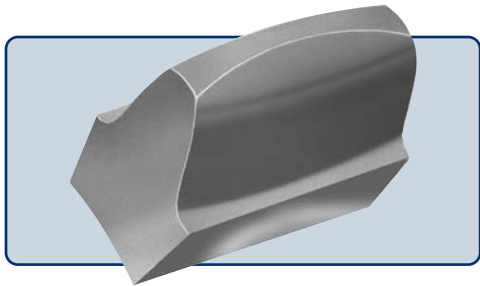
Minimizing operating misalignment will maximize the life of the coupling. Refer to the Installation and Alignment Instructions for alignment recommendations.

Larger Bore Capabilities allow the most economical size selection for shafts up to 10 $\frac{3}{8}$ ".

Higher Torque Ratings due to larger tooth pitch diameters than other couplings.

Versatility in that Series H is interchangeable by half coupling with competitive coupling designs.

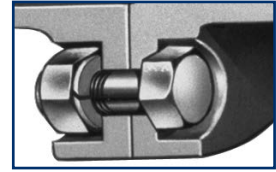
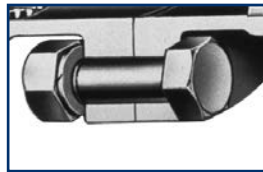
1 $\frac{1}{2}^{\circ}$ Curved-Face Teeth are a prime feature of the Series H coupling, sizes 1-7. The crowned hub teeth are a 20° full-depth involute tooth form with flank, tip, and root curvature. When used with the straight faced sleeve teeth, these 1 $\frac{1}{2}^{\circ}$ curved face hubs offer increased shaft misalignment capability.



Crowned Tooth Sizes 1 - 7

CENTER FLANGE BOLTING:

All couplings feature precision-drilled flange bolt holes, and tight tolerance Grade 5 flange bolts and locknuts to assure a long-lasting flange to flange and fastener fit. Exposed bolt flanges are standard. Shrouded bolt flanges can be supplied through size 5. Size 5 $\frac{1}{2}$ and larger couplings are only available with exposed bolt flanges.

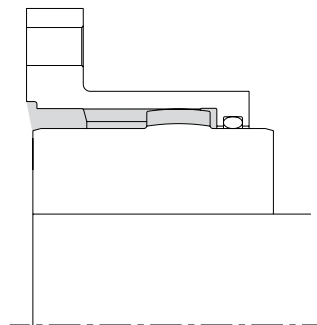


LUBRICATION:

Each sleeve flange is supplied with two pipe plugs 180° apart. This permits assembly of a Full-Flex coupling with four lube plugs positioned every 90°, facilitating lubrication.



The lube seal is a Buna-N O-ring to help retain grease and exclude contaminants. KHP or KSG coupling greases are recommended in order to obtain maximum operating life.



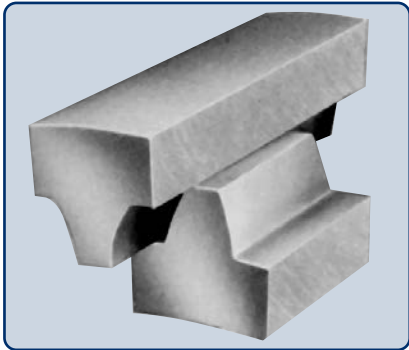
Coupling Greases

KOP-FLEX offers greases specifically designed for use in coupling applications. For proper lubrication and long service life, use KSG Standard Coupling Grease, or KHP High Performance Coupling Grease.

Series H Gear Couplings

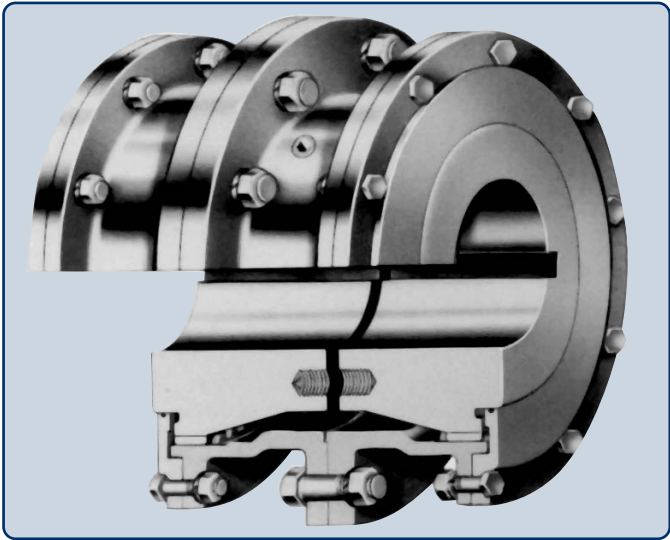
Series H couplings Size 8 to 30 are designed for $\pm 1/2^\circ$ misalignment per flex-half coupling, to compensate for misalignment between the shafts in a full-flex coupling.

Series H couplings can be supplied in full-flex, flex-rigid, floating shaft and spacer arrangements as well as custom designs. Only exposed bolt flanges are available for sizes 8 to 30.

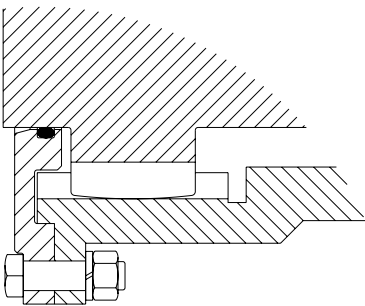


The straight-faced, involute stub tooth form is used in the Series H coupling, sizes 8 to 30. This tooth form distributes contact pressures across the full length of the hub tooth, to best develop the needed lubricating film, minimizing tooth wear and extending coupling service life for years of operation.

The End Rings are removable for ease of assembly and to allow inspection of the gear sets. A Buna-N O-ring seal is incorporated to help exclude contaminants and retain the lubricant. Designed for grease lubrication, our KSG or KHP coupling greases are recommended to obtain maximum operating life.

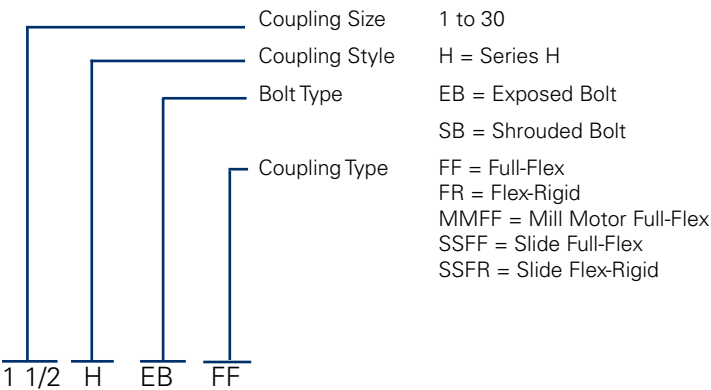


Straight Tooth Sizes 8 - 30



HOW TO ORDER

PART NUMBER EXPLANATION Complete Rough Bore Coupling



COUPLING PARTS

- Description
- *FHUB = Flex Hub
 - *RHUB = Rigid Hub
 - *MMHUB = Mill Motor Hub
 - SLEEVE = Standard Sleeve
 - SSLEEVE = Slide Sleeve
 - FS = Fastener Set (w/gasket)
 - ERFS = End Ring Fastener Set
 - VSFS = Vertical/Slide Fastener Set (w/gasket)
 - LEFD = LEF Disk
 - SPRxxx = Spacer for x.xx shaft separation
 - SP = Stop Plate for Slide Couplings
 - VP = Vertical Plate

* For finish bored hubs, add FB and bore size. All finish bores and keyways per AGMA/ASNSI 9002 (Imperial) and AGMA/ANSI 9112 (Metric). Clearance bores are available on request with one setscrew over keyway.

1 1/2H FHUB FB

Series H Gear Couplings

SERVICE FACTORS

Values listed are intended only as a general guide, and are typical of usual service requirements. For systems which frequently utilize the peak torque capability of the power source, verify that the magnitude of this peak torque does not exceed the 1.0 Service Factor Rating of the coupling selected. Applications which involve extreme repetitive shock or high-energy load absorption characteristics should be referred — with full particulars — to KOP-FLEX.

Values contained in the table are to be applied to smooth power sources such as electric motors and steam turbines. For drives involving internal combustion engines of four or five cylinders, add 1.0 to the values listed; for six or more cylinders, add 0.5 to the values listed. For systems utilizing AC or DC mill motors as the prime mover, refer to Note (1).

CAUTION: All people moving and overhead crane applications must be referred to engineering.

Application	Typical Service Factor
AGITATORS	
Pure Liquids	1.0
Liquids & Solids	1.25
Liquids — Variable Density	1.25
BLOWERS	
Centrifugal	1.0
Lobe	1.5
Vane	1.25
BRIQUETTE MACHINES	
.....	2.0
CAR PULLERS — Intermittent Duty	1.5
COMPRESSORS	
Centrifugal	1.0
Centriaxial	1.25
Lobe	1.5
Reciprocating — Multi-Cylinder	2.0
CONVEYORS — LIGHT DUTY	
UNIFORMLY FED	
Apron, Bucket, Chain, Flight, Screw	1.25
Assembly, Belt	1.0
Oven	1.5
CONVEYORS — HEAVY DUTY	
NOT UNIFORMLY FED	
Apron, Bucket, Chain, Flight, Oven	1.5
Assembly, Belt	1.25
Reciprocating, Shaker	2.5
CRANES AND HOISTS (NOTE 1 and 2)	
Main hoists, Reversing	2.5
Skip Hoists, Trolley & Bridge Drives	2.0
Slope	2.0
CRUSHERS	
Ore, Stone	3.0
DREDGES	
Cable Reels	1.75
Conveyors	1.5
Cutter Head Jig Drives	2.5
Maneuvering Winches	1.75
Pumps	1.75
Screen Drives	1.75
Stackers	1.75
Utility Winches	1.5
ELEVATORS (NOTE 2)	
Bucket	1.75
Centrifugal & Gravity Discharge	1.5
Escalators	1.5
Freight	2.5
FANS	
Centrifugal	1.0
Cooling Towers	1.5
Forced Draft	1.5
Induced Draft without Damper	
Control	2.0
FEEDERS	
Apron, Belt, Disc, Screw	1.25
Reciprocating	2.5

Application	Typical Service Factor
GENERATORS —	
(Not Welding)	1.0
HAMMER MILLS	2.0
LAUNDRY WASHERS —	
Reversing	2.0
LAUNDRY TUMBLERS	2.0
LINE SHAFT	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 Floor Chains	1.75
Planer Tilting Hoist	1.75
Slab Conveyor	1.5
Sorting Table	1.5
Trimmer Feed	1.75
MARINE PROPULSION	
Main Drives	2.0
MACHINE TOOLS	
Bending Roll	2.0
Plate Planer	1.5
Punch Press — Gear Driven	2.0
Tapping Machines	2.5
Other Machine Tools	
Main Drives	1.5
Auxiliary Drives	1.25
METAL MILLS	
Draw Bench — Carriage	2.0
Draw Bench — Main Drive	2.0
Forming Machines	2.0
Slitters	1.5
Table Conveyors	
Non-Reversing	2.25
Reversing	2.5
Wire Drawing & Flattening Machine	2.0
Wire Winding Machine	1.75
METAL ROLLING MILLS (NOTE 1)	
Blooming Mills	*
Coilers, hot mill	2.0
Coilers, cold mill	1.25
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	1.5
Roughing Mill Delivery Table	3.0
Runout Tables	
Reversing	3.0
Non-Reversing	2.0
Saws, hot & cold	2.5
Screwdown Drives	3.0
Skelp Mills	3.0
Slitters	3.0
Slabbing Mills	3.0
Soaking Pit Cover Drives	3.0
Straighteners	2.5
Tables, transfer & runout	2.0
Thrust Block	3.0
Traction Drive	3.0
Tube Conveyor Rolls	2.5
Unscramblers	2.5
Wire Drawing	1.5
MILLS, ROTARY TYPE	
Ball	2.25
Dryers & Coolers	2.0
Hammer	1.75
Kilns	2.0

Application	Typical Service Factor
Pebble & Rod	2.0
Pug	1.75
Tumbling Barrels	2.0
MIXERS	
Concrete Mixers	1.75
Drum Type	1.5
OIL INDUSTRY	
Chillers	1.25
Paraffin Filter Press	1.75
PAPER MILLS	
Barker Auxiliaries, Hydraulic	2.0
Barker, Mechanical	2.0
Barking Drum Spur Gear Only	2.25
Beater & Pulper	1.75
Bleacher	1.0
Calenders	2.0
Chippers	2.5
Coaters	1.0
Converting Machines,	
except Cutters, Platers	1.5
Couch Roll	1.75
Cutters, Platers	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
PULLERS — Barge Haul	2.0
PUMPS	
Centrifugal	1.0
Boiler Feed	1.5
Reciprocating	
Single Acting	
1 or 2 Cylinders	2.25
3 or more Cylinders	1.75
Double Acting	2.0
Rotary, Gear, Lobe, Vane	1.5
RUBBER INDUSTRY	
Mixer — Banbury	2.5
Rubber Calendar	2.0
Rubber Mill (2 or more)	2.25
Sheeter	2.0
Tire Building Machines	2.5
Tire & Tube Press Openers	1.0
Tubers & Strainers	2.0
SCREENS	
Air Washing	1.0
Grizzly	2.0
Rotary — Stone or Gravel	1.5
Traveling Water Intake	1.25
Vibrating	2.5
SEWAGE DISPOSAL EQUIPMENT	
Bar Screens	1.25
Chemical Feeders	1.25
Collectors, Circuline or Straightline	1.25
Dewatering Screens	1.25
Grit Collectors	1.25
Scum Breakers	1.25
Slow or Rapid Mixers	1.25
Sludge Collectors	1.25
Thickeners	1.25
Vacuum Filters	1.25
STEERING GEAR	1.0
STOKERS	1.0
WINCH	1.5
WINDLASS	1.75

* Refer to KOP-FLEX

NOTES

- (1) Maximum Torque at the coupling must not exceed Rated Torque of the coupling.
- (2) Check local and industrial safety codes.

Series H Gear Couplings

SELECTION PROCEDURE

1. Select Coupling Based on Bore Capacity.

Select the coupling size that has a maximum bore capacity equal to or larger than the larger of the two shafts. For interference fits larger than AGMA standards, consult Regal Rexnord.

2. Verify Coupling Size Based on Load Rating.

- Select appropriate Service Factor from the Table on page 5.
- Calculate required HP / 100 RPM:

$$\frac{\text{HP} \times \text{Service Factor} \times 100}{\text{RPM}} = \text{HP} / 100 \text{ RPM}$$
- Verify that the selected coupling has a rating greater than or equal to the required HP / 100 RPM.

3. Check Balance Requirements.

Consult the Dynamic Balancing Guide to help determine if balancing is required. Verify that the maximum operating speed does not exceed the maximum speed rating of the coupling. The maximum speed rating does not consider lateral critical speed considerations for floating shaft applications.

Note: Care must be exercised on proper selection of any shaft coupling. Users must ensure that the design of the shaft-to-coupling hub connection is adequate for the intended duty.

DYNAMIC BALANCING GUIDE

Balancing requirements for a coupling are dependent on factors determined by the characteristics of the connected equipment. For this reason, the Balancing Charts should be used as a GUIDE ONLY to assist in determining whether or not balancing is required.

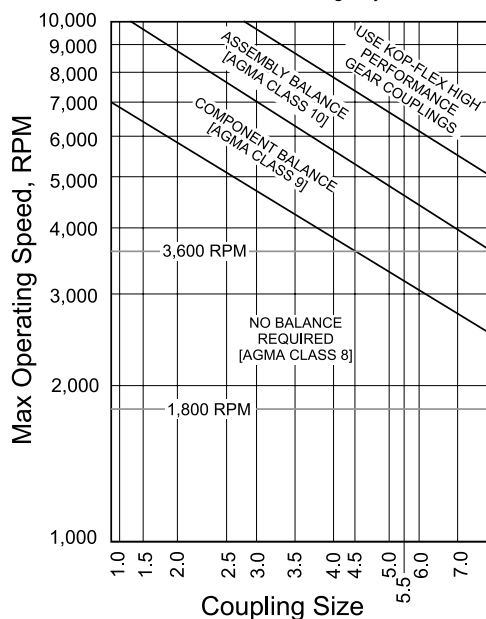
The Balancing Charts shown are based on AGMA 9000-C90 suggested balance classes for systems with "average" sensitivity to unbalance. For systems with higher sensitivity to unbalance, balancing of the coupling may be required at lower speeds.

For systems which are less sensitive to unbalance, couplings may be able to operate at higher speeds than those shown at lower balance levels. Therefore, in the absence of either a thorough system analysis or past user experience with a similar installation, these charts should be used as a GUIDE ONLY.

These charts apply to sizes 1 through 7 only. Dynamic balance of size 8 through 30 must be considered on a case-by-case basis. Consult Regal Rexnord for assistance.

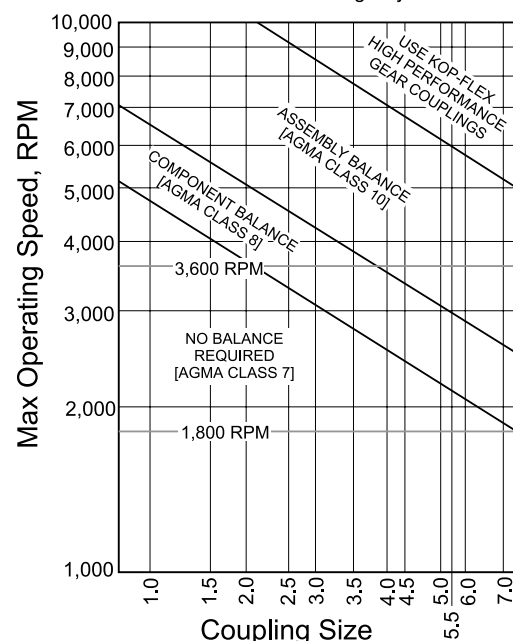
Close Coupled Balancing Chart

Based on AGMA 9000-C90 for Average System Sensitivity



Spacer Coupling Balancing Chart for 12" Shaft Separation

Based on AGMA 9000-C90 for Average System Sensitivity



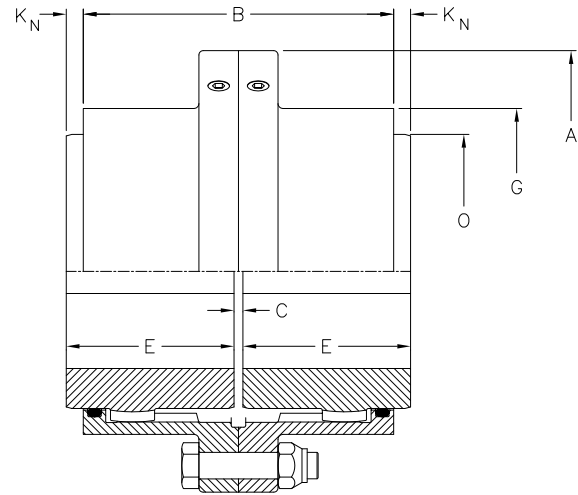
Series H Gear Couplings

FULL-FLEX COUPLING SIZE 1-7

A conventional 4-bearing system has two bearings on the driving shaft and two bearings on the driven shaft. Both angular and offset shaft misalignment will be present to some degree and a Full-Flex coupling is mandatory. The Full-Flex coupling is the standard coupling having two gear ring sets, one set per half coupling. For selection procedure see page 6.

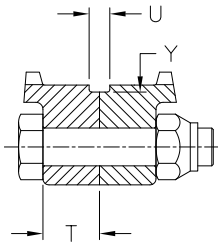
Coupling Greases

KOP-FLEX offers greases specifically designed for use in coupling applications. For proper lubrication and long service life, use KSG Standard Coupling Grease, or KHP High Performance Coupling Grease.

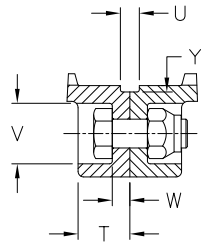


Coupling Size	Max. Bore w/ Standard Keyway	Max. Bore w/ Reduced Depth Keyway	Reduced Depth Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in.)	Max. Speed (RPM)	Weight with Solid Hubs (lb.)	Dimensions									
									A	B	C	C _I	C _W	E	G	K _N	K _R	O
1	1 5/8	1 3/4	3/8 x 1/8	12	7,500	15,000	14,500	10	4 9/16	3 1/16	1/8	3/16	1/4	1 11/16	3 1/16	7/32	9/32	2 3/8
1 1/2	2 1/4	2 3/8	5/8 x 7/32	27	17,000	34,000	12,000	18	6	3 9/16	1/8	5/16	1/2	1 15/16	3 15/16	7/32	13/32	3 1/8
2	2 7/8	3	3/4 x 1/4	50	31,500	63,000	9,300	33	7	4 11/16	1/8	9/16	1	2 7/16	4 15/16	5/32	19/32	4
2 1/2	3 1/2	3 3/4	7/8 x 5/16	90	56,700	113,400	7,900	57	8 3/8	5 3/8	3/16	15/32	3/4	3 1/32	5 7/8	7/16	23/32	4 7/8
3	4	4 3/8	1 x 3/8	160	10,100	202,000	6,800	85	9 7/16	6 9/16	3/16	29/32	1 5/8	3 19/32	6 7/8	13/32	1 1/8	5 5/8
3 1/2	4 5/8	5	1 1/4 x 7/16	235	148,000	296,000	6,000	130	11	7 11/16	1/4	1 1/16	4 3/16	7 29/32	15/32	1 9/32	6 1/2	6 1/2
4	5 1/2	6 1/8	1 1/2 x 1/2	375	236,000	472,000	5,260	192	12 1/2	8 3/4	1/4	1 1/4	2 1/4	4 3/4	9 1/4	1/2	1 1/2	7 3/4
4 1/2	6 1/4	6 7/8	1 3/4 x 1/2	505	318,000	636,000	4,770	261	13 5/8	9 11/16	5/16	1 7/16	2 9/16	5 5/16	10 3/8	5/8	1 3/4	8 1/2
5	7 1/8	7 3/8	1 3/4 x 1/2	700	441,000	882,000	4,300	376	15 5/16	11 1/16	5/16	1 31/32	3 5/8	6 1/32	11 9/16	21/32	2 5/16	9 1/2
5 1/2*	8	8 1/4	2 x 1/2	920	580,000	1,160,000	3,880	474	16 3/4	12 7/16	5/16	2 3/32	3 7/8	6 29/32	12 11/16	27/32	2 5/8	10 1/2
6*	8 7/8	9 1/4	2 1/2 x 5/8	1205	759,000	1,518,000	3,600	604	18	13 5/16	5/16	2 11/32	4 3/8	7 13/32	13 7/8	29/32	2 15/16	11 1/2
7*	10 3/8	10 3/4	2 1/2 x 3/4	1840	1,160,000	2,320,000	3,000	902	20 3/4	15 3/8	3/8	2 13/16	5 1/4	8 11/16	16 1/16	1 3/16	3 5/8	13 1/2

* Sizes 5 1/2, 6 and 7 are only available with exposed bolt sleeves. Type EB exposed bolt sleeves are standard.



TYPE EB -
EXPOSED BOLTS

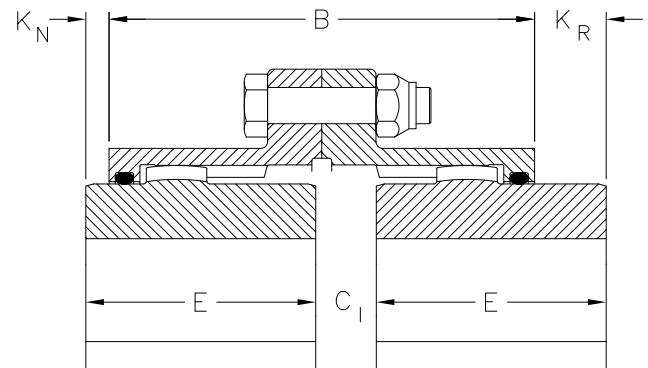


TYPE SB -
SHROUDED BOLTS

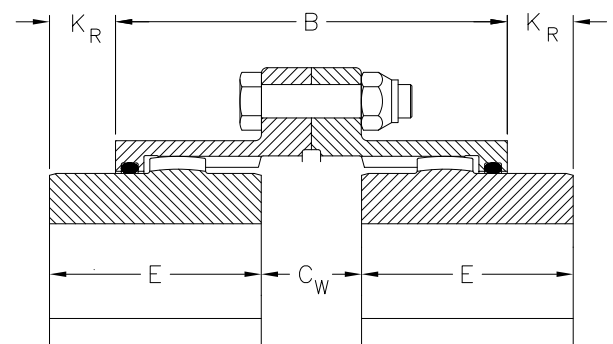
FASTENER DATA

Coupling Size	Type EB Exposed Bolt			Type SB Shrouded Bolt		
	Qty.	Size & Length	Bolt Circle	Qty.	Size & Length	Bolt Circle
1	6	1/4 x 1 1/2	3 3/4	6	1/4 x 7/8	3 3/4
1 1/2	8	3/8 x 2	4 13/16	8	3/8 x 1	4 13/16
2	6	1/2 x 2 1/2	5 7/8	10	3/8 x 1	5 13/16
2 1/2	6	5/8 x 2 3/4	7 1/8	10	1/2 x 1 5/16	7
3	8	5/8 x 2 3/4	8 1/8	12	1/2 x 1 5/16	8
3 1/2	8	3/4 x 3 3/8	9 1/2	12	5/8 x 1 5/8	9 9/32
4	8	3/4 x 3 3/8	11	14	5/8 x 1 5/8	10 5/8
4 1/2	10	3/4 x 3 3/8	12	14	5/8 x 1 5/8	11 3/4
5	8	7/8 x 4 1/4	13 1/2	14	3/4 x 2 1/8	13 3/16
5 1/2*	14	7/8 x 3 1/4	14 1/2			
6*	14	7/8 x 3 1/4	15 3/4			
7*	16	1 x 3 5/8	18 1/4			

* Sizes 5 1/2 and larger are available in exposed bolts only.



ONE HUB REVERSED



TWO HUBS REVERSED

Series H Gear Couplings

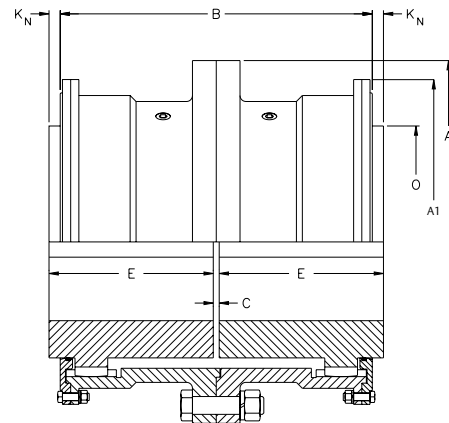
FULL-FLEX COUPLING SIZE 8-30

Series H coupling sizes 8-30 feature an all-metal end ring, which can be easily removed to inspect the hub and sleeve teeth without removing the hub from its shaft.

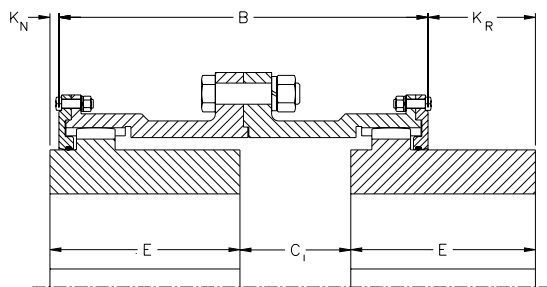
All end rings have gaskets and are bolted to the sleeves. Non-critical surfaces are as-cast, or as-forged. Sleeves have mating male and female rabbets at the center and end flange joints to simplify installation. The sleeves have two lube plugs in the body.

Standardized center flanges allow flex-half substitution regardless of design or vintage. All bolts are special with respect to body length, thread length, and bolt body tolerance.

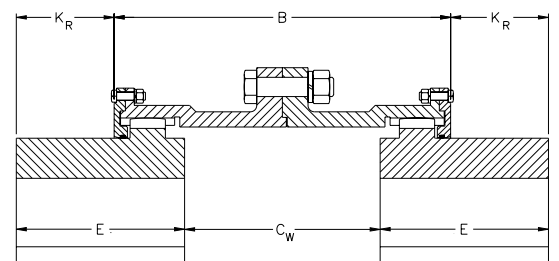
Sizes 8 - 30 are available with exposed bolts only.



COUPLING SIZE	MAXIMUM BORE WITH STANDARD KEY	RATING HP / 100 RPM	TORQUE RATING (LB.-IN. X 1000)	PEAK TORQUE RATING (LB.-IN X 1000)	MAXIMUM SPEED (RPM)	WEIGHT WITH SOLID HUBS (LB.)	DIMENSIONS									
							A	A ₁	B	C	C ₁	C _w	E	O	KN	KR
8	10 3/4	2,230	1,404	2,808	1,750	1,430	23 1/4	20 1/2	19 1/2	3/8	5 9/16	10 3/4	913/16	14	1/4	5 7/16
9	11 3/4	3,170	1,995	3,990	1,625	2,000	26	23	21 3/4	1/2	6 1/4	12	10 7/8	15 1/2	1/4	6
10	13	4,350	2,744	5,488	1,500	2,670	28	25 1/8	24	1/2	7 1/8	13 3/4	12	17 1/2	1/4	6 7/8
11	15	5,780	3,645	7,290	1,375	3,520	30 1/2	27 5/16	26 1/4	1/2	7 7/8	15 1/4	13 1/8	19 1/2	1/4	7 5/8
12	16 1/4	7,190	4,532	9,064	1,250	4,450	33	29 13/16	27 3/4	1/2	8 1/8	15 3/4	13 7/8	21 1/2	1/4	7 7/8
13	17 1/2	9,030	5,688	11,376	1,125	5,410	35 3/4	32	29 1/2	3/4	8 7/16	16 1/8	14 5/8	23	1/4	7 15/16
14	18 3/4	11,080	6,982	13,964	1,000	6,600	38	34 1/8	31 1/4	3/4	9	17 1/4	15 1/2	25	1/4	8 1/2
15	20 3/4	13,470	8,488	16,976	875	8,040	40 1/2	36 3/4	33 1/8	3/4	9 7/16	18 1/8	16 1/2	27	5/16	9
16	22	16,100	10,150	20,300	750	9,680	43	38 7/8	35	1	9 7/8	18 3/4	17 3/8	29	3/8	9 1/4
18	25 1/4	21,100	13,300	26,600	500	12,500	47 1/4	43 1/8	36 1/8	1	10 1/4	19 1/2	18	33	7/16	9 11/16
20	27 1/4	28,800	18,144	36,288	400	17,900	53 1/2	48 3/8	42 3/8	1	12 3/8	23 3/4	21 1/8	36 1/2	7/16	11 13/16
22	30	38,100	24,009	48,018	300	23,300	59	52 7/8	46	1	13 3/4	26 1/2	23	40	1/2	13 1/4
24	33 1/4	42,400	26,699	53,398	200	30,300	64 1/4	57 3/8	49 1/2	1	15	29	24 3/4	44 1/2	1/2	14 1/2
26	36 3/4	53,000	33,415	66,830	200	37,700	68 1/2	61 5/8	53	1	15 5/8	30 1/4	26 1/2	48 1/2	1/2	15 1/8
28	40	65,900	41,564	83,128	200	45,200	73 3/4	66 3/16	54 1/4	1	15 7/8	30 3/4	27 1/8	52 1/2	1/2	15 3/8
30	43 1/2	80,300	50,614	101,228	200	52,700	78	70 11/16	55 1/4	1	15 7/8	30 3/4	27 5/8	56 1/2	1/2	15 3/8



ONE HUB REVERSED



TWO HUBS REVERSED

FASTENER DATA

Coupling Size	Center Flange			End Ring		
	Qty.	Size & Length	Bolt Circle	Qty. (Each)	Size & Length	Bolt Circle
8	16	1 1/8 x 4 1/8	20 3/4	10	1/2 x 2	19 3/8
9	18	1 1/4 x 4 1/2	23 1/4	12	5/8 x 2 3/16	21 3/4
10	18	1 3/8 x 5 3/8	25 1/4	12	5/8 x 2 3/16	23 7/8
11	18	1 1/2 x 5 7/8	27 1/2	12	5/8 x 2 3/16	26 1/16
12	18	1 1/2 x 6 1/8	30	12	3/4 x 2 9/16	28 5/16
13	18	1 5/8 x 6 3/8	32 1/4	12	3/4 x 2 9/16	30 1/2
14	18	1 3/4 x 6 5/8	34 1/2	14	3/4 x 2 9/16	32 5/8
15	20	1 3/4 x 6 5/8	36 3/4	14	7/8 x 2 7/8	35
16	20	2 x 7 3/8	39	14	7/8 x 2 7/8	37 1/8
18	22	2 x 7 3/8	43 1/4	14	7/8 x 2 7/8	41 3/8
20	22	2 1/4 x 7 5/8	48 3/4	16	1 x 3 5/8	46 1/4
22	22	2 1/2 x 8 1/8	53 1/2	16	1 x 3 5/8	50 3/4
24	22	2 3/4 x 8 7/8	58 1/4	16	1 1/8 x 4 1/8	55
26	24	2 3/4 x 8 7/8	62 1/2	18	1 1/8 x 4 1/8	59 1/4
28	22	3 x 9 5/8	67 1/4	16	1 1/4 x 4 1/4	63 11/16
30	24	3 x 9 5/8	71 1/2	18	1 1/4 x 4 1/4	68 3/16

Series H Gear Couplings

FULL-FLEX COUPLING SIZE 1-30

COUPLING TYPE EB (EXPOSED BOLTS) PART NUMBERS

Coupling Size	Full-Flex Coupling			Fastener Set (Includes Gasket)		Sleeve		Flex Hub		
	No Bore Part No.	Wt.	Finish Bore ① Part No.	Part No.	Wt.	Part No.	Wt.	No Bore Part No.	Wt.	Finish Bore ① Part No.
1	1H EB FF	10	1H EB FF FB	1 EB FS	1	1H EB SLEEVE	2	1H FHUB	3	1H FHUB FB
1 1/2	1 1/2H EB FF	19	1 1/2H EB FF FB	1 1/2 EB FS	1	1 1/2H EB SLEEVE	6	1 1/2H FHUB	3	1 1/2H FHUB FB
2	2H EB FF	30	2H EB FF FB	2 EB FS	1	2H EB SLEEVE	8	2H FHUB	7	2H FHUB FB
2 1/2	2 1/2H EB FF	52	2 1/2H EB FF FB	2 1/2 EB FS	2	2 1/2H EB SLEEVE	14	2 1/2H FHUB	12	2 1/2H FHUB FB
3	3H EB FF	76	3H EB FF FB	3 EB FS	3	3H EB SLEEVE	17	3H FHUB	20	3H FHUB FB
3 1/2	3 1/2H EB FF	117	3 1/2H EB FF FB	3 1/2 EB FS	5	3 1/2H EB SLEEVE	28	3 1/2H FHUB	28	3 1/2H FHUB FB
4	4H EB FF	180	4H EB FF FB	4 EB FS	5	4H EB SLEEVE	41	4H FHUB	47	4H FHUB FB
4 1/2	4 1/2H EB FF	244	4 1/2H EB FF FB	4 1/2 EB FS	7	4 1/2H EB SLEEVE	53	4 1/2H FHUB	66	4 1/2H FHUB FB
5	5H EB FF	361	5H EB FF FB	5 EB FS	9	5H EB SLEEVE	80	5H FHUB	96	5H FHUB FB
5 1/2	5 1/2H EB FF	422	5 1/2H EB FF FB	5 1/2 EB FS	14	5 1/2H EB SLEEVE	89	5 1/2H FHUB	115	5 1/2H FHUB FB
6	6H EB FF	494	6H EB FF FB	6 EB FS	14	6H EB SLEEVE	100	6H FHUB	140	6H FHUB FB
7	7H EB FF	822	7H EB FF FB	7 EB FS	22	7H EB SLEEVE	160	7H FHUB	240	7H FHUB FB

- ① All finish bores and keyways per AGMA/ANSI 9112 commercial standard tolerances with interference fit bores. Clearance fit bores are available on request and include one setscrew over keyway.

COUPLING TYPE SB (SHROUDED BOLTS) PART NUMBERS

Coupling Size	Full-Flex Coupling			Fastener Set (Includes Gasket)		Sleeve		Flex Hub		
	No Bore Part No.	Wt.	Finish Bore ① Part No.	Part No.	Wt.	Part No.	Wt.	No Bore Part No.	Wt.	Finish Bore ① Part No.
1	1H SB FF	10	1H SB FF FB	1 SB FS	1	1H SB SLEEVE	2	1H FHUB	3	1H FHUB FB
1 1/2	1 1/2H SB FF	19	1 1/2H SB FF FB	1 1/2 SB FS	1	1 1/2H SB SLEEVE	6	1 1/2H FHUB	3	1 1/2H FHUB FB
2	2H SB FF	30	2H SB FF FB	2 SB FS	1	2H SB SLEEVE	8	2H FHUB	7	2H FHUB FB
2 1/2	2 1/2H SB FF	52	2 1/2H SB FF FB	2 1/2 SB FS	2	2 1/2H SB SLEEVE	13	2 1/2H FHUB	12	2 1/2H FHUB FB
3	3H SB FF	76	3H SB FF FB	3 SB FS	2	3H SB SLEEVE	15	3H FHUB	20	3H FHUB FB
3 1/2	3 1/2H SB FF	117	3 1/2H SB FF FB	3 1/2 SB FS	4	3 1/2H SB SLEEVE	26	3 1/2H FHUB	28	3 1/2H FHUB FB
4	4H SB FF	180	4H SB FF FB	4 SB FS	4	4H SB SLEEVE	37	4H FHUB	47	4H FHUB FB
4 1/2	4 1/2H SB FF	244	4 1/2H SB FF FB	4 1/2 SB FS	4	4 1/2H SB SLEEVE	50	4 1/2H FHUB	66	4 1/2H FHUB FB
5	5H SB FF	361	5H SB FF FB	5 SB FS	7	5H SB SLEEVE	72	5H FHUB	96	5H FHUB FB

- ① All finish bores and keyways per AGMA/ANSI 9112 commercial standard tolerances with interference fit bores. Clearance fit bores are available on request and include one setscrew over keyway.

COUPLING TYPE (EXPOSED BOLTS) PART NUMBERS

Coupling Size	Full-Flex	Male Half w/ Access	Female Half w/Access	Hub	Male Sleeve	Female Sleeve	End Ring	Center Flange Fastener Set (includes gasket)	End Ring Fastener Set (includes gasket)
8	8H EB FF	8H EB MH	8H EB FH	8H FHUB	8H EB MSLEEVE	8H EB FSLEEVE	8H ERING	8 EB FS	8 ERFS
9	9H EB FF	9H EB MH	9H EB FH	9H FHUB	9H EB MSLEEVE	9H EB FSLEEVE	9H ERING	9 EB FS	9 ERFS
10	10H EB FF	10H EB MH	10H EB FH	10H FHUB	10H EB MSLEEVE	10H EB FMSLEEVE	10H ERING	10 EB FS	10 ERFS
11	11H EB FF	11H EB MH	11H EB FH	11H FHUB	11H EB MSLEEVE	11H EB FMSLEEVE	11H ERING	11 EB FS	11 ERFS
12	12H EB FF	12H EB MH	12H EB FH	12H FHUB	12H EB MSLEEVE	12H EB FMSLEEVE	12H ERING	12 EB FS	12 ERFS
13	13H EB FF	13H EB MH	13H EB FH	13H FHUB	13H EB MSLEEVE	13H EB FMSLEEVE	13H ERING	13 EB FS	13 ERFS
14	14H EB FF	14H EB MH	14H EB FH	14H FHUB	14H EB MSLEEVE	14H EB FMSLEEVE	14H ERING	14 EB FS	14 ERFS
15	15H EB FF	15H EB MH	15H EB FH	15H FHUB	15H EB MSLEEVE	15H EB FMSLEEVE	15H ERING	15 EB FS	15 ERFS
16	16H EB FF	16H EB MH	16H EB FH	16H FHUB	16H EB MSLEEVE	16H EB FMSLEEVE	16H ERING	16 EB FS	16 ERFS
18	18H EB FF	18H EB MH	18H EB FH	18H FHUB	18H EB MSLEEVE	18H EB FMSLEEVE	18H ERING	18 EB FS	18 ERFS
20	20H EB FF	20H EB MH	20H EB FH	20H FHUB	20H EB MSLEEVE	20H EB FMSLEEVE	20H ERING	20 EB FS	20 ERFS
22	22H EB FF	22H EB MH	22H EB FH	22H FHUB	22H EB MSLEEVE	22H EB FMSLEEVE	22H ERING	22 EB FS	22 ERFS
24	24H EB FF	24H EB MH	24H EB FH	24H FHUB	24H EB MSLEEVE	24H EB FMSLEEVE	24H ERING	24 EB FS	24 ERFS
26	26H EB FF	26H EB MH	26H EB FH	26H FHUB	26H EB MSLEEVE	26H EB FMSLEEVE	26H ERING	26 EB FS	26 ERFS
28	28H EB FF	28H EB MH	28H EB FH	28H FHUB	28H EB MSLEEVE	28H EB FMSLEEVE	28H ERING	28 EB FS	28 ERFS
30	30H EB FF	30H EB MH	30H EB FH	30H FHUB	30H EB MSLEEVE	30H EB FMSLEEVE	30H ERING	30 EB FS	30 ERFS

Series H Gear Couplings

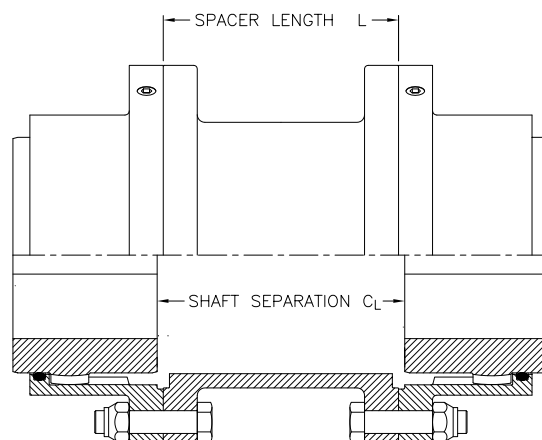
SPACER COUPLING SIZE 1 1/2 - 7

STANDARD SPACER COUPLINGS

Full-flex spacer couplings are used for 4-bearing installations with extended shaft separations. Tabulated below are spacers for industry standard shaft separations, **C_L**.

Spacer length, **L**, is calculated by subtracting the standard full-flex, close coupled gap, **C**, from the shaft separation, **C_L**.

$$L = C_L - C \text{ (full-flex, close coupled)}$$



SPACER PART NUMBERS

STANDARD SPACER PART NUMBERS TYPE SB (SHROUDED BOLTS)

Coupling Size	Shaft Separation							
	3 1/2"		4 3/8"		5"		7"	
	Part No.	Wt.	Part No.	Wt.	Part No.	Wt.	Part No.	Wt.
1 1/2	1 1/2 SB SPR350	6	1 1/2 SB SPR438	7	1 1/2 SB SPR500	8		
2	2 SB SPR350	8	2 SB SPR438	9	2 SB SPR500	10	2 SB SPR700	12
2 1/2					2 1/2 SB SPR500	14	2 1/2 SB SPR700	17
3					3 SB SPR500	17	3 SB SPR700	20
3 1/2					3 1/2 SB SPR500	27		

Note: Spacer part number references the shaft separation, not the actual length of the spacer.

STANDARD SPACER PART NUMBERS TYPE EB (EXPOSED BOLTS)

Coupling Size	Shaft Separation			
	5"		7"	
	Part No.	Wt.	Part No.	Wt.
1 1/2	1 1/2 EB SPR500	8		
2	2 EB SPR500	10	2 EB SPR700	12
2 1/2	2 1/2 EB SPR500	14		
3	3 EB SPR500	17		

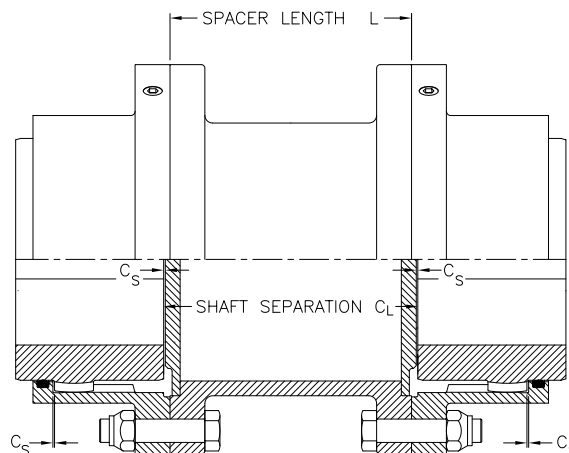
LEF SPACER COUPLINGS

Limited End Float (LEF) spacer couplings are used for sleeve bearing motor applications with extended shaft separations. LEF spacers are supplied with steel LEF plates installed in each end.

Spacer length, **L_{LEF}**, is calculated by subtracting the LEF full-flex, close-coupled gap, **C_{LEF}**, from the shaft separation, **C_L**.

$$L_{LEF} = C_L - C_{LEF} \text{ (full-flex, close coupled)}$$

LEF spacers are shorter than standard spacers for a given shaft separation and are manufactured to order.

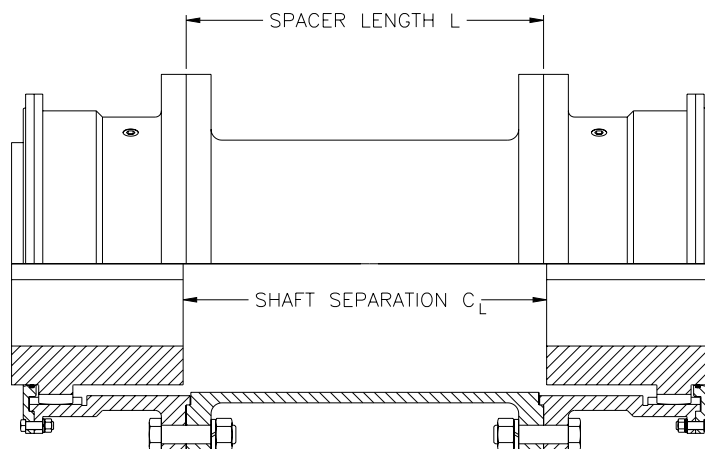


Coupling sizes 8 - 30 are also available as spacer couplings for extended shaft separations. These sizes are available in exposed bolt only.

Spacers for coupling sizes 4 - 30 are non-stock and are manufactured to order. LEF spacer couplings are also manufactured to order.

Note: Spacer part number references the shaft separation, not the actual length of the spacer.

SPACER COUPLINGS SIZE 8-30



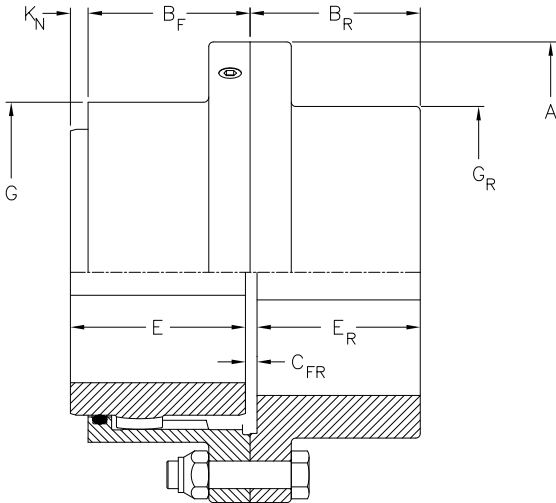
Coupling Greases

KOP-FLEX offers greases specifically designed for use in coupling applications. For proper lubrication and long service life, use KSG Standard Coupling Grease, or KHP High Performance Coupling Grease.

Series H Gear Couplings

FLEX-RIGID AND FLOATING SHAFT COUPLINGS SIZE 1- 7

When driving and driven shafts are widely separated, an unsupported or floating shaft is used to span the gap. The two couplings required at each end of that shaft consist of one half of a standard coupling bolted to a rigid hub, each unit called a flex-rigid coupling. Usually, the rigid hubs are mounted on the driving and driven shafts so that the flex halves on the floating shaft may be replaced without disturbing the connected equipment.



COUPLING TYPE EB (EXPOSED BOLTS) PART NUMBERS

Coupling Size	Flex-Rigid Coupling			Rigid Hub ②		
	No Bore Part No.	Wt.	Finish Bore ① Part No.	No Bore Part No.	Wt.	Finish Bore ① Part No.
1	1H EB FR	10	1H EB FR FB	1 EB RHUB	5	1 EB RHUB FB
1 1/2	1 1/2H EB FR	19	1 1/2H EB FR FB	1 1/2 EB RHUB	9	1 1/2 EB RHUB FB
2	2H EB FR	31	2H EB FR FB	2 EB RHUB	15	2 EB RHUB FB
2 1/2	2 1/2H EB FR	55	2 1/2H EB FR FB	2 1/2 EB RHUB	27	2 1/2 EB RHUB FB
3	3H EB FR	83	3H EB FR FB	3 EB RHUB	40	3 EB RHUB FB
3 1/2	3 1/2H EB FR	126	3 1/2HEB FR FB	3 1/2 EB RHUB	65	3 1/2 EB RHUB FB
4	4H EB FR	184	4H EB FR FB	4 EB RHUB	90	4 EB RHUB FB
4 1/2	4 1/2H EB FR	252	4 1/2HEB FR FB	4 1/2 EB RHUB	124	4 1/2 EB RHUB FB
5	5H EB FR	371	5H EB FR FB	5 EB RHUB	119	5 EB RHUB FB
5 1/2	5 1/2H EB FR	418	5 1/2H EB FR FB	5 1/2 EB RHUB	200	5 1/2 EB RHUB FB
6	6H EB FR	504	6H EB FR FB	6 EB RHUB	250	6 EB RHUB FB
7	7H EB FR	792	7H EB FR FB	7 EB RHUB	370	7 EB RHUB FB

COUPLING TYPE SB (SHROUDED BOLTS) PART NUMBERS

Coupling Size	Flex-Rigid Coupling			Rigid Hub ②		
	No Bore Part No.	Wt.	Finish Bore ① Part No.	No Bore Part No.	Wt.	Finish Bore ① Part No.
1	1H SB FR	10	1H SB FR FB	1 SB RHUB	5	1 SB RHUB FB
1 1/2	1 1/2H SB FR	19	1 1/2H SB FR FB	1 1/2 SB RHUB	9	1 1/2 SB RHUB FB
2	2H SB FR	31	2H SB FR FB	2 SB RHUB	15	2 SB RHUB FB
2 1/2	2 1/2H SB FR	55	2 1/2H SB FR FB	2 1/2 SB RHUB	27	2 1/2 SB RHUB FB
3	3H SB FR	83	3H SB FR FB	3 SB RHUB	40	3 SB RHUB FB
3 1/2	3 1/2H SB FR	126	3 1/2H SB FR FB	3 1/2 SB RHUB	65	3 1/2 SB RHUB FB
4	4H SB FR	184	4H SB FR FB	4 SB RHUB	90	4 SB RHUB FB
4 1/2	4 1/2H SB FR	252	4 1/2H SB FR FB	4 1/2 SB RHUB	124	4 1/2 SB RHUB FB
5	5H SB FR	371	5H SB FR FB	5 SB RHUB	119	5 SB RHUB FB

- ① All finish bores and keyways per AGMA/ANSI 9112 commercial standard tolerances.
② Rigid hubs are furnished less fasteners.

FLEX-RIGID COUPLING DATA

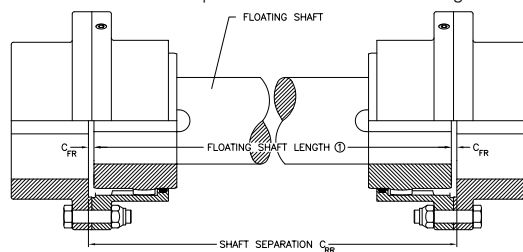
Coupling Size	Maximum Bore with Standard Keyway		Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in)	Maximum Speed (RPM) ②	Dimensions						
	Flex	Rigid					A	B _F	B _R	C _{FR} ①	E	E _R	G _R
1	1 5/8	2 1/4	12	7,500	15,000	14,500	4 9/16	1 17/32	1 21/32	5/32	1 11/16	1 9/16	3
1 1/2	2 1/4	2 11/16	27	17,000	34,000	12,000	6	1 25/32	1 15/16	5/32	1 15/16	1 27/32	3 13/16
2	2 7/8	3 3/8	50	31,500	63,000	9,300	7	2 11/32	2 3/8	5/32	2 7/16	2 9/32	4 13/16
2 1/2	3 1/2	4	90	56,700	113,400	7,900	8 3/8	2 11/16	3	3/16	3 1/32	2 29/32	5 3/4
3	4	4 3/4	160	101,000	202,000	6,800	9 7/16	3 9/32	3 9/16	3/16	3 19/32	3 15/32	6 3/4
3 1/2	4 5/8	5 1/2	235	148,000	296,000	6,000	11	3 27/32	4 1/8	7/32	4 3/16	4 1/32	7 3/4
4	5 1/2	6 3/8	375	236,000	472,000	5,260	12 1/2	4 3/8	4 5/8	5/16	4 3/4	4 7/16	9
4 1/2	6 1/4	7 1/4	505	318,000	636,000	4,770	13 5/8	4 27/32	5 1/4	11/32	5 5/16	5 1/16	10 1/8
5	7 1/8	8 1/2	700	441,000	882,000	4,300	15 5/16	5 17/32	5 7/8	11/32	6 1/32	5 11/16	11 3/8
5 1/2*	8	8	920	580,000	1,160,000	3,880	16 3/4	6 7/32	7 5/32	11/32	6 29/32	6 31/32	10 3/4
6*	8 7/8	8 3/4	1205	759,000	1,518,000	3,600	18	6 21/32	7 21/32	11/32	7 13/32	7 15/32	11 1/2
7*	10 3/8	10	1840	1,160,000	2,320,000	3,000	20 3/4	7 11/16	9	7/16	8 11/16	8 3/4	13 3/8

* Sizes 5 1/2, 6 and 7 are only available with exposed bolts. Type EB exposed bolts are standard.

① Floating shaft length is equal to the shaft separation minus 2 times the C_FR dimension.

② Max. speed is based on flange stress limits and does not consider lateral critical speed considerations for floating shaft applications.

FLOATING SHAFT ASSEMBLY

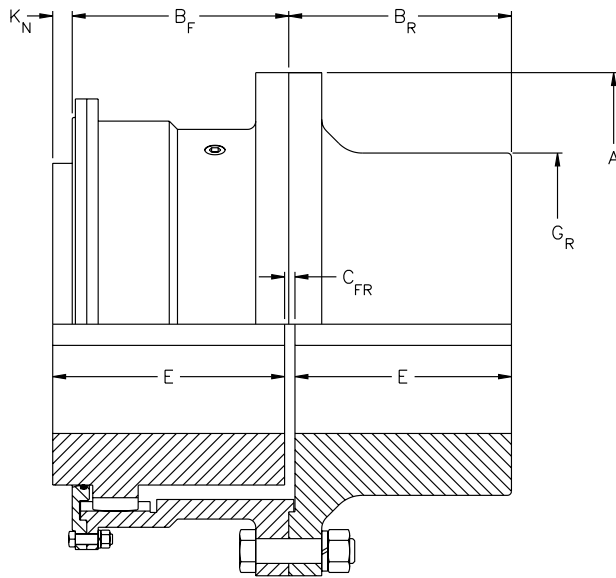


Ordering Instructions: When ordering floating shaft couplings, be sure to include hp and rpm, shaft separation, and equipment shaft sizes. Applications with very large shaft separations and/or high speeds may require tubular floating shafts due to lateral critical speed concerns.

Important: Care must be exercised in proper selection of any shaft coupling. Users must ensure that the design of the shaft-to-coupling hub connection is adequate for the intended duty.

Series H Gear Couplings

FLEX-RIGID AND FLOATING SHAFT COUPLINGS SIZE 8 - 30



COUPLING TYPE EB (EXPOSED BOLTS) PART NUMBERS

Coupling Size	Flex-Rigid w/ Access	Male Rigid	Female Rigid
8	8H EB FR	8H EB MRHUB	8H EB FRHUB
9	9H EB FR	9H EB MRHUB	9H EB FRHUB
10	10H EB FR	10H EB MRHUB	10H EB FRHUB
11	11H EB FR	11H EB MRHUB	11H EB FRHUB
12	12H EB FR	12H EB MRHUB	12H EB FRHUB
13	13H EB FR	13H EB MRHUB	13H EB FRHUB
14	14H EB FR	14H EB MRHUB	14H EB FRHUB
15	15H EB FR	15H EB MRHUB	15H EB FRHUB
16	16H EB FR	16H EB MRHUB	16H EB FRHUB
18	18H EB FR	18H EB MRHUB	18H EB FRHUB
20	20H EB FR	20H EB MRHUB	20H EB FRHUB
22	22H EB FR	22H EB MRHUB	22H EB FRHUB
24	24H EB FR	24H EB MRHUB	24H EB FRHUB
26	26H EB FR	26H EB MRHUB	26H EB FRHUB
28	28H EB FR	28H EB MRHUB	28H EB FRHUB
30	30H EB FR	30H EB MRHUB	30H EB FRHUB

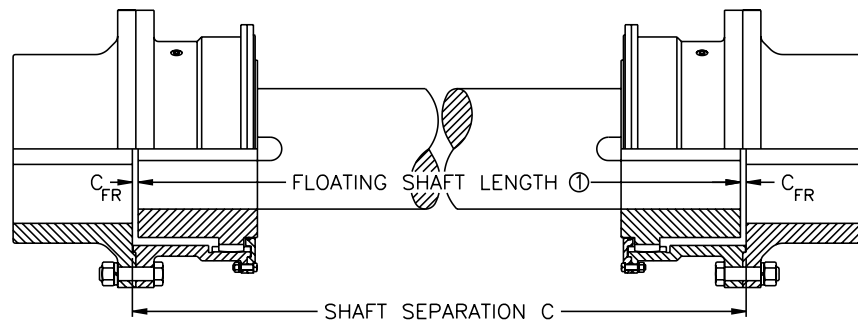
Coupling Size	Maximum Bore with Standard Keyway		Rating HP / 100 RPM	Torque Rating (lb.-in. x 1000)	Peak Torque Rating (lb.-in. x 1000)	Maximum Speed (RPM) ②	Weight with Solid Hubs (lb.)	Dimensions					
	Flex	Rigid						A	B _F	B _R	C _{FR} ①	E	G _R
8	10 3/4	11	2,230	1,404	2,808	1,750	1,470	23 1/4	9 3/4	10 1/8	1/2	9 13/16	15 1/4
9	11 3/4	12 3/4	3,170	1,995	3,990	1,625	1,960	26	10 7/8	11 13/16	9/16	10 7/8	17 1/4
10	13	13 1/2	4,350	2,744	5,488	1,500	2,720	28	12	12 3/8	5/8	12	19
11	15	15	5,780	3,645	7,290	1,375	3,520	30 1/2	13 1/8	13 1/2	5/8	13 1/8	20 3/4
12	16 1/4	16 1/4	7,190	4,532	9,064	1,250	4,450	33	13 7/8	14 1/4	5/8	13 7/8	22 5/8
13	17 1/2	18	9,030	5,688	11,376	1,125	5,480	35 3/4	14 3/4	15	3/4	14 5/8	24 5/8
14	18 3/4	19	11,080	6,982	13,964	1,000	6,560	38	15 5/8	15 7/8	3/4	15 1/2	26 1/4
15	20 3/4	20 1/2	13,470	8,488	16,976	875	7,920	40 1/2	16 9/16	16 7/8	3/4	16 1/2	28
16	22	22	16,100	10,150	20,300	750	9,560	43	17 1/2	17 7/8	1	17 3/8	29 3/4
18	25 1/4	25	21,100	13,300	26,600	500	12,400	47 1/4	18 1/16	18 1/2	1	18	34
20	27 1/4	26	28,800	18,144	36,288	400	16,500	53 1/2	21 3/16	21 5/8	1	21 1/8	36
22	30	27	38,100	24,009	48,018	300	21,000	59	23	23 5/8	1 1/8	23	38
24	33 1/4	28	42,400	26,699	53,398	200	26,300	64 1/4	24 3/4	25 5/8	1 1/8	24 3/4	40
26	36 3/4	29	53,000	33,415	66,830	200	32,000	68 1/2	26 1/2	27 1/8	1 1/8	26 1/2	42
28	40	30	65,900	41,564	83,128	200	37,700	73 3/4	27 1/8	27 3/4	1 1/8	27 1/8	44
30	43 1/2	36	80,300	50,614	101,228	200	43,400	78	27 5/8	28 1/4	1 1/8	27 5/8	50

NOTE: Couplings are only available with exposed bolts.

① Floating shaft length is equal to the shaft separation, minus 2 times the C_{FR} dimension.

② Max. speed is based on flange stress limits and does not consider lateral critical speed considerations for floating shaft applications.

FLOATING SHAFT ASSEMBLY



Ordering Instructions: When ordering floating shaft couplings, be sure to include hp and rpm, shaft separation, and equipment shaft sizes. Applications with very large shaft separations and/or high speeds may require tubular floating shafts due to lateral critical speed concerns.

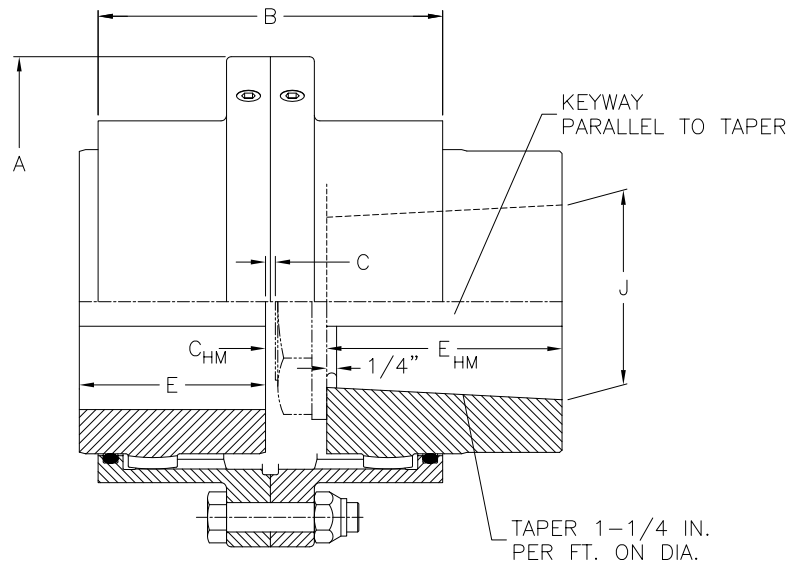
Important: Care must be exercised in proper selection of any shaft coupling. Users must ensure that the design of the shaft-to-coupling hub connection is adequate for the intended duty.

Series H Gear Couplings

AISE MILL MOTOR COUPLING

The Series H mill motor coupling is designed for use on AISE and other mill motors having tapered shafts with locknuts, and is used primarily in the metals industry. This design is also commonly used on other types of equipment which use tapered shafts with locknuts, such as turbines, pumps, and compressors.

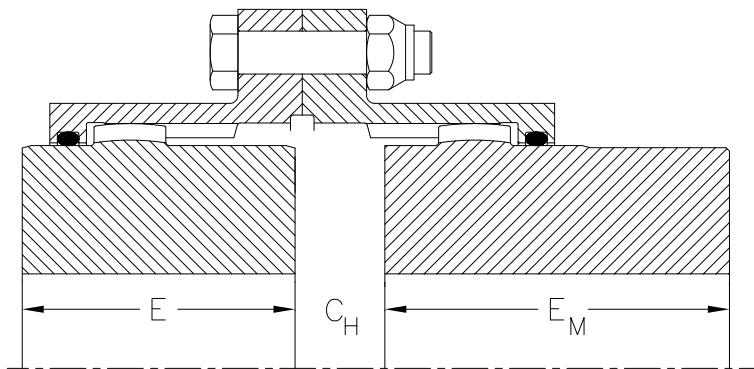
The standard "composite" mill motor hub is a semi-finished hub which can be modified and bored to fit a variety of AISE mill motor frames. Note that one size of coupling will fit several motor frames. Conversely, several sizes may fit a single motor frame. See page 6 for proper coupling selection.



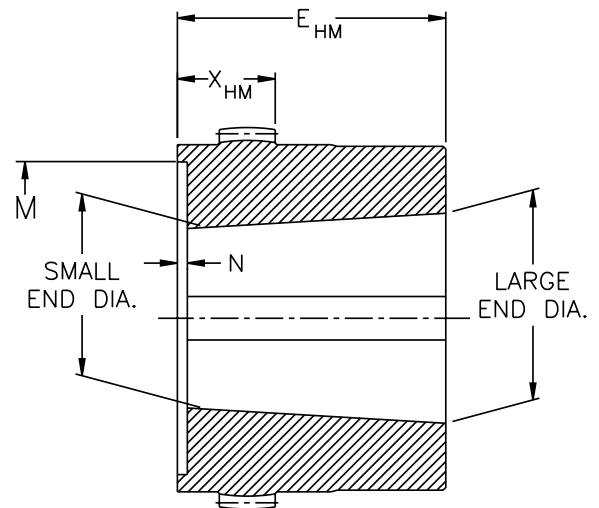
Coupling Size	Maximum Bore with Standard Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in.)	Maximum Speed (RPM)	Weight with Solid Hubs (lb.)	Dimensions		
							A	B	E
1 1/2	2 1/4	27	17,000	34,000	12,000	23	6	3 9/16	1 15/16
2	2 3/4	50	31,500	63,000	9,300	39	7	4 11/16	2 7/16
2 1/2	3 1/2	90	56,700	113,400	7,900	70	8 3/8	5 3/8	3 1/32
3	4	160	101,000	202,000	6,800	100	9 7/16	6 9/16	3 19/32
3 1/2	4 1/2	235	148,000	296,000	6,000	155	11	7 11/16	4 3/16
4	5 1/2	375	236,000	472,000	5,260	219	12 1/2	8 3/4	4 3/4
4 1/2	6	505	318,000	636,000	4,770	298	13 5/8	9 11/16	5 5/16
5	6 7/8	700	441,000	882,000	4,300	433	15 5/16	11 1/16	6 1/32
5 1/2*	7 3/4	920	580,000	1,160,000	3,880	610	16 3/4	12 7/16	6 29/32
6*	8 5/8	1,205	759,000	1,518,000	3,600	718	18	13 5/16	7 13/32

See next page for additional dimensions.

* Sizes 5 1/2 and 6 are only available with exposed bolts. Type EB exposed bolts are standard.



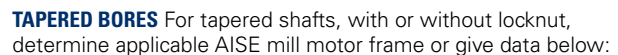
MILL MOTOR COMPOSITE HUB
ROUGH BORED



MILL MOTOR COMPOSITE HUB
FINISH BORED

AISE MILL MOTOR COUPLING

NOTE: ALL KEYWAYS SHOWN ARE PARALLEL TO THE TAPER. TAPER IS 1 1/4 INCH PER FOOT ON DIAMETER.



1. U Major diameter.
2. V Length of tapered portion of shaft.
3. X Length to face of lockwasher.
4. Y Length of threaded projection.
5. ZW Locknut diameter across corners.
6. W Clearance to bearing housing.
7. Taper (inches on diameter per foot of length).
8. Keyway width and depth.
9. Whether keyway is parallel to shaft or to taper.
10. C Shaft separation if machines are in place.

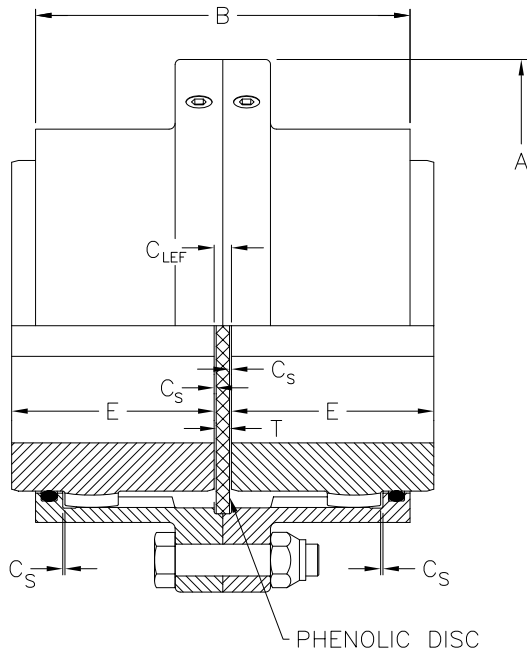
Series H Gear Couplings

LIMITED END FLOAT COUPLING SIZE 1-7

For sleeve bearing motor applications, a Series H standard full-flex coupling is supplied with an LEF disc to limit the axial float of the motor rotor, and protect the motor bearings at start-up and shut-down. The hub separation, C_{LEF} is larger than for a standard Full-Flex, and the phenolic LEF disc is placed between the hubs at assembly, limiting the float of the motor rotor to the total LEF value shown.

The equipment should be installed with the proper hub separation, C_{LEF} , when the motor rotor is located on magnetic center.

The LEF disc part numbers are listed below. See page 9 for the standard Full-Flex part numbers.



Note: Spacer part number references the shaft separation, not the actual length of the spacer.

Coupling Size	Total LEF (in.)	Dimensions						LEF Disc ①	
		A	B	C _{S min.}	C _{LEF} (Hub Sep.)	E	T (Disc Width)	Part No.	Wt.
1	1/8	4 9/16	3 1/16	1/32	3/16	1 11/16	1/8	1H LEFD	1
1 1/2	1/8	6	3 9/16	1/32	3/16	1 15/16	1/8	1 1/2H LEFD	1
2	1/8	7	4 11/16	1/32	3/16	2 7/16	1/8	2H LEFD	1
2 1/2	3/16	8 3/8	5 3/8	1/32	9/32	3 1/32	3/16	2 1/2H LEFD	1
3	3/16	9 7/16	6 9/16	1/32	9/32	3 19/32	3/16	3H LEFD	1
3 1/2	3/16	11	7 11/16	1/32	13/32	4 3/16	5/16	3 1/2H LEFD	2
4	3/16	12 1/2	8 3/4	1/32	13/32	4 3/4	5/16	4H LEFD	2
4 1/2	3/16	13 5/8	9 11/16	1/32	17/32	5 5/16	7/16	4 1/2H LEFD	2
5	3/16	15 5/16	11 1/16	1/32	17/32	6 1/32	7/16	5H LEFD	2
5 1/2*	3/16	16 3/4	12 7/16	1/32	19/32	6 29/32	1/2	5 1/2H LEFD	2
6*	3/16	18	13 5/16	1/32	19/32	7 13/32	1/2	6H LEFD	2
7*	1/4	20 3/4	15 3/8	1/16	3/4	8 11/16	5/8	7H LEFD	2

* Sizes 5 1/2, 6 and 7 are only available with exposed bolts. Type EB exposed bolts are standard.

① LEF Discs are used only in close coupled applications. One disc is required per coupling. Note: For ratings and max. bores refer to page 7.

Coupling Greases

KOP-FLEX offers greases specifically designed for use in coupling applications. For proper lubrication and long service life, use KSG Standard Coupling Grease, or KHP High Performance Coupling Grease.

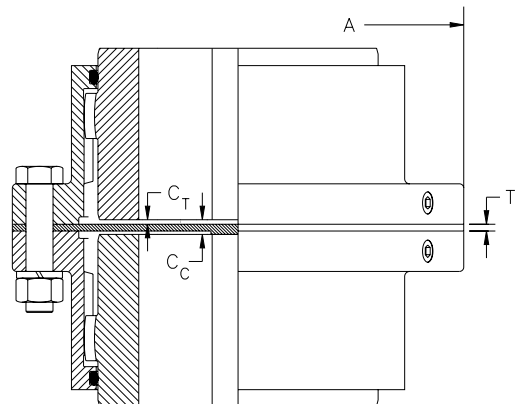
VERTICAL COUPLING SIZE 1-7

For vertical applications, a standard full-flex coupling is supplied with a vertical plate, and vertical flange fasteners are used in place of standard. The vertical plate is installed with button down, and is used to support the assembled sleeves.

Coupling Size	Dimensions				Vertical Plate ①		Fastener Set (includes gasket)	
	A	C _r	C _c	T	Part No.	Wt.	Part No.	Wt.
1	4 9/16	1/16	1/4	1/8	1H EB VP	1	1 EB VSFS	1
1 1/2	6	1/16	1/4	1/8	1 1/2H EB VP	1	1 1/2 EB VSFS	1
2	7	1/16	1/4	1/8	2H EB VP	2	2 EB VSFS	1
2 1/2	8 3/8	3/32	5/16	1/8	2 1/2H EB VP	2	2 1/2 EB VSFS	2
3	9 7/16	3/32	5/16	1/8	3H EB VP	3	3 EB VSFS	3
3 1/2	11	1/8	7/16	3/16	3 1/2H EB VP	4	3 1/2 EB VSFS	5
4	12 1/2	1/8	7/16	3/16	4H EB VP	7	4 EB VSFS	5
4 1/2	13 5/8	5/32	1/2	3/16	4 1/2H EB VP	10	4 1/2 EB VSFS	7
5	15 5/16	5/32	1/2	3/16	5H EB VP	12	5 EB VSFS	9
5 1/2	16 3/4	5/32	9/16	1/4	5 1/2H EB VP	15	5 1/2 EB VSFS	14
6	18	5/32	9/16	1/4	6H EB VP	19	6 EB VSFS	14
7	20 3/4	3/16	11/16	5/16	7H EB VP	25	7 EB VSFS	22

* Exposed bolts are standard for all sizes.

① Vertical plates are used only in close coupled applications. One disc is required per coupling.

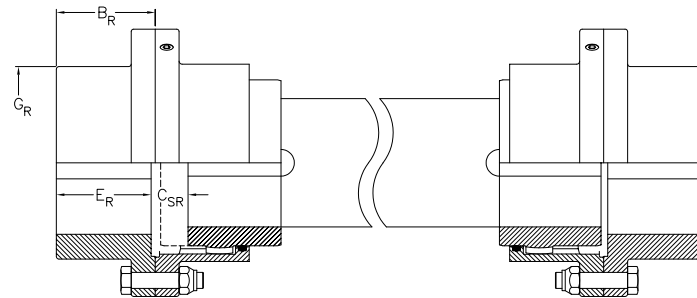


Series H Gear Couplings

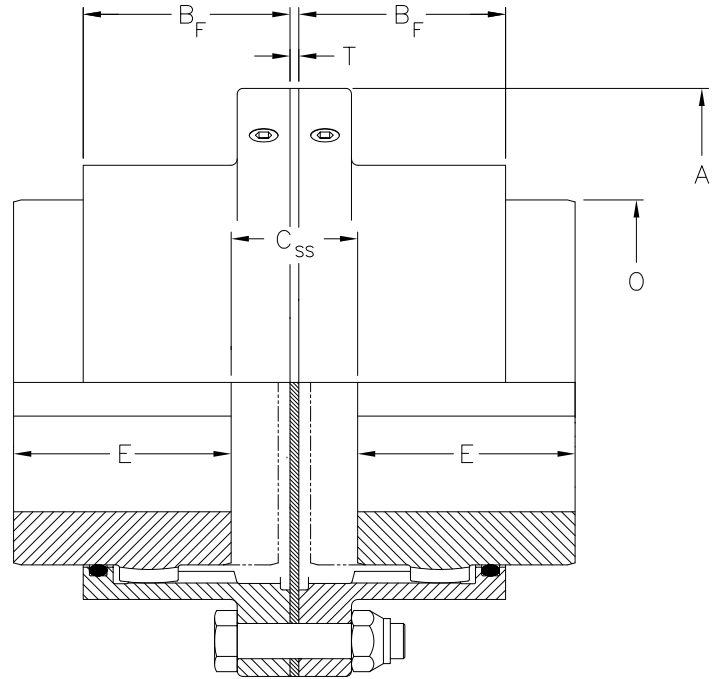
SLIDE COUPLING

The Series H slide coupling is designed for drive systems that require greater end float or slide than a conventional application. Spacer couplings, floating shaft arrangements, and most coupling types can be supplied with a slide flex-half in one or both flex-half couplings.

For flex-rigid arrangements used in floating shaft couplings, a stop plate is not required and a standard EB fastener set (FS) is used.



FLOATING SHAFT ASSEMBLY



Coupling Size*	Total Slide		Dimensions									
	Full-Flex	Flex-Rigid	A	B _F	B _R	C _{SS} Hub & Shaft Separation		C _{SR} Hub & Shaft Separation		E	E _R	T
						Min.	Max.	Min.	Max.			
1	1/8	3/32	4 9/16	1 17/32	1 21/32	1/4	3/8	1/8	7/32	1 11/16	1 9/16	1/8
1 1/2	3/8	7/32	6	1 25/32	1 15/16	1/4	5/8	1/8	11/32	1 15/16	1 27/32	1/8
2	7/8	15/32	7	2 11/32	2 3/8	1/4	1 1/8	1/8	19/32	2 7/16	2 9/32	1/8
2 1/2	9/16	5/16	8 3/8	2 11/16	3	5/16	7/8	5/32	15/32	3 1/32	2 29/32	1/8
3	1 7/16	3/4	9 7/16	3 9/32	3 9/16	5/16	1 3/4	5/32	29/32	3 19/32	3 15/32	1/8
3 1/2	1 5/8	7/8	11	3 27/32	4 1/8	7/16	2 1/16	5/32	1 1/32	4 3/16	4 1/32	3/16
4	2	1 1/16	12 1/2	4 3/8	4 5/8	7/16	2 7/16	1/4	1 5/16	4 3/4	4 7/16	3/16
4 1/2	2 1/4	1 7/32	13 5/8	4 27/32	5 1/4	1/2	2 3/4	1/4	1 15/32	5 5/16	5 1/16	3/16
5	3 5/16	1 3/4	15 5/16	5 17/32	5 7/8	1/2	3 13/16	1/4	2	6 1/32	5 11/16	3/16
5 1/2	3 9/16	1 7/8	16 3/4	6 7/32	7 5/32	9/16	4 1/8	5/16	2 3/16	6 29/32	6 31/32	1/4
6	4 1/16	2 1/8	18	6 21/32	7 21/32	9/16	4 5/8	5/16	2 7/16	7 13/32	7 15/32	1/4
7	4 7/8	2 9/16	20 3/4	7 11/16	9	11/16	5 9/16	3/8	2 15/16	8 11/16	8 3/4	5/16

*Exposed bolts are standard for all sizes.

Note: For ratings, max. bores and additional dimensions, see page 7

Coupling Size*	Full-Flex Coupling			Stop Plate		Fastener Set (Includes Gasket)		Slide Sleeve		Flex Hub	
	No Bore Part No.	Wt.	Finish Bore ① Part No.	Part No.	Wt.	Part No.	Wt.	Part No.	Wt.	No Bore Part No.	Wt.
1	1H EB SSFF	10	1H EB SSFF FB	1 EB SP	1	1 EB VSFS	1	1H EB SSLEEVE	2	1H FHUB	3
1 1/2	1 1/2H EB SSFF	18	1 1/2H EB SSFF FB	1 1/2 EB SP	1	1 1/2 EB VSFS	1	1 1/2H EB SSLEEVE	6	1 1/2H FHUB	3
2	2H EB SSFF	28	2H EB SSFF FB	2 EB SP	2	2 EB VSFS	1	2H EB SSLEEVE	8	2H FHUB	6
2 1/2	2 1/2H EB SSFF	50	2 1/2H EB SSFF FB	2 1/2 EB SP	2	2 1/2 EB VSFS	2	2 1/2H EB SSLEEVE	14	2 1/2H FHUB	11
3	3H EB SSFF	74	3H EB SSFF FB	3 EB SP	3	3 EB VSFS	3	3H EB SSLEEVE	17	3H FHUB	18
3 1/2	3 1/2H EB SSFF	110	3 1/2H EB SSFF FB	3 1/2 EB SP	4	3 1/2 EB VSFS	5	3 1/2H EB SSLEEVE	28	3 1/2H FHUB	26
4	4H EB SSFF	170	4H EB SSFF FB	4 EB SP	7	4 EB VSFS	5	4H EB SSLEEVE	41	4H FHUB	44
4 1/2	4 1/2H EB SSFF	230	4 1/2H EB SSFF FBB	4 1/2 EB SP	10	4 1/2 EB VSFS	7	4 1/2H EB SSLEEVE	53	4 1/2H FHUB	62
5	5H EB SSFF	350	5H EB SSFF FB	5 EB SP	12	5 EB VSFS	9	5H EB SSLEEVE	80	5H FHUB	90
5 1/2	5 1/2H EB SSFF	400	5 1/2H EB SSFF FB	5 1/2 EB SP	15	5 1/2 EB VSFS	14	5 1/2H EB SSLEEVE	89	5 1/2H FHUB	105
6	6H EB SSFF	470	6H EB SSFF FB	6 EB SP	19	6 EB VSFS	14	6H EB SSLEEVE	100	6H FHUB	130
7	7H EB SSFF	790	7H EB SSFF FB	7 EB SP	25	7 EB VSFS	22	7H EB SSLEEVE	160	7H FHUB	210

* Exposed bolts are standard for all sizes.

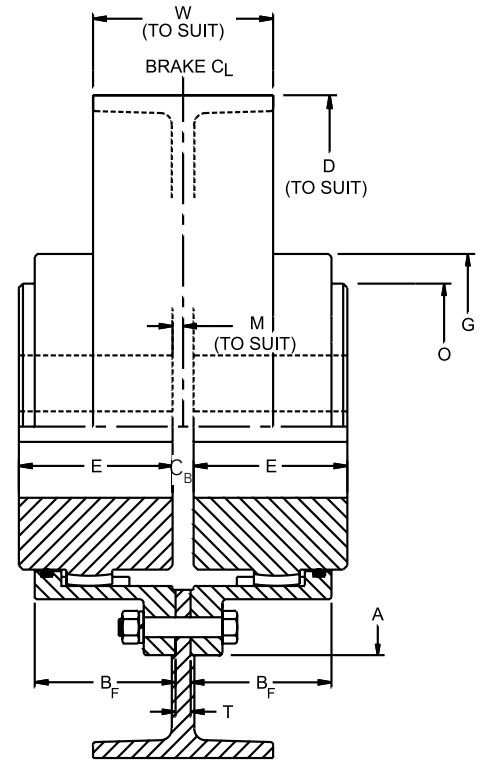
① All finish bores and keyways per AGMA/ANSI 9112 commercial standard tolerances with interference fit bores. Clearance fit bores are available on request and include one setscrew over keyway.

Series H Gear Couplings

BRAKE WHEEL COUPLINGS

Series H brakewheel couplings are comprised of standard full-flex couplings with longer flange bolts and an extra gasket. Brakewheels are piloted to the outside diameter of the sleeve flanges. These couplings are also available in flex-rigid configurations and with hubs bored for AISE mill motors.

Standard brakewheels are made from carbon steel but are also commonly supplied in ductile iron to improve heat dissipation during braking. The user should specify the required brakewheel material when ordering. The brakewheel dimensions shown below are for reference and can be modified to suit your particular application.



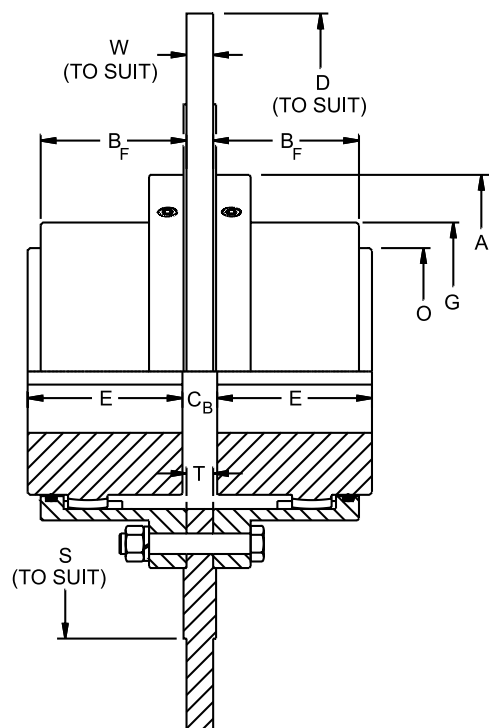
Coupling Size	Maximum Bore with Standard Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in.)	Coupling Dimensions (inches)						Typical Brakewheel Dimensions (inches)		
					A	B _F	C _B	E	G	O	T	D Minimum	Typical W (Ref.)
1	1 5/8	12	7,500	15,000	4 9/16	1 17/32	1/2	1 11/16	3 1/16	2 3/8	3/8	7	2 3/4
1 1/2	2 1/4	27	17,000	34,000	6	1 25/32	5/8	1 15/16	3 15/16	3 1/8	1/2	8	3 1/4
2	2 7/8	50	31,500	63,000	7	2 11/32	5/8	2 7/16	4 15/16	4	1/2	9 5/8	3 3/4
2 1/2	3 1/2	90	56,700	113,400	8 3/8	2 11/16	3/4	3 1/32	5 7/8	4 7/8	9/16	11 3/8	4 3/4
3	4	160	101,000	202,000	9 7/16	3 9/32	3/4	3 19/32	6 7/8	5 5/8	9/16	12 5/8	5 3/4
3 1/2	4 5/8	235	148,000	296,000	11	3 27/32	1	4 3/16	7 29/32	6 1/2	3/4	14 5/8	6 3/4
4	5 1/2	375	236,000	472,000	12	4 3/8	1	4 3/4	9 1/4	7 3/4	3/4	16 7/8	7 3/4
4 1/2	6 1/4	505	318,000	636,000	13 5/8	4 27/32	1 1/16	5 5/16	10 3/8	8 1/2	3/4	18	8 3/4
5	7 1/8	700	441,000	882,000	15 5/16	5 17/32	1 5/16	6 1/32	11 9/16	9 1/2	1	19 3/8	9 3/4
5 1/2	8	920	580,000	1,160,000	16 3/4	6 7/32	1 5/16	6 29/32	12 11/16	10 1/2	1	20 7/8	10 1/4
6	8 7/8	1205	759,000	1,518,000	18	6 21/32	1 5/16	7 13/32	13 7/8	11 1/2	1	23	11 1/4
7	10 3/8	1840	1,160,000	2,320,000	20 3/4	7 11/16	1 3/8	8 11/16	16 1/16	13 1/2	1	26	12 1/4

Series H Gear Couplings

BRAKE DISC COUPLINGS

Series H brake disc couplings use standard full-flex couplings with longer flange bolts and an extra gasket. Brake discs are piloted to the outside diameter of the sleeve flanges. These couplings are also available in flex-rigid configurations and with hubs bored for AISE mill motors.

Standard brake discs are made from carbon steel but are also commonly supplied in ductile iron to improve heat dissipation during braking. The user should specify the required brake disc material when ordering. The brake disc dimensions shown below are for reference and can be modified to suit your particular application.

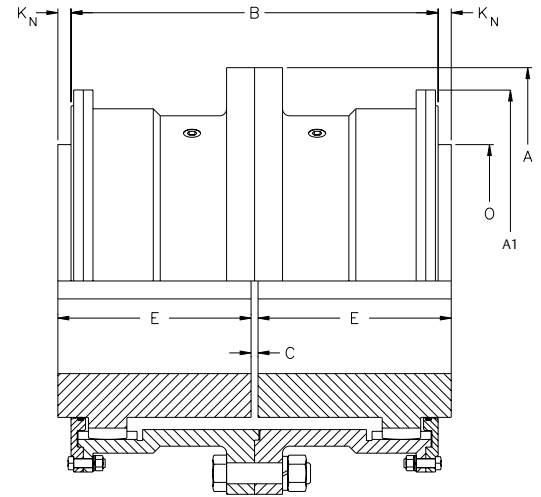


Coupling Size	Maximum Bore with Standard Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in.)	Peak Torque Rating (lb.-in.)	Coupling Dimensions (inches)						Brake Disc Dimensions (inches)			
					A	B _F	C _B	E	G	O	T	Typical S (Ref.)	Typical D (Ref.)	Typical W (Ref.)
1	1 5/8	12	7,500	15,000	4 9/16	1 17/32	1/2	1 11/16	3 1/16	2 3/8	3/8	8	14	3/8
1 1/2	2 1/4	27	17,000	34,000	6	1 25/32	5/8	1 15/16	3 15/16	3 1/8	1/2	8	14, 18	1/2
2	2 3/4	50	31,500	63,000	7	2 11/32	5/8	2 7/16	4 15/16	4	1/2	10	14, 16, 18	1/2
2 1/2	3 1/2	90	56,700	113,400	8 3/8	2 11/16	3/4	3 1/32	5 7/8	4 7/8	9/16	12	16, 18, 20 1/4	9/16
3	4	160	101,000	202,000	9 7/16	3 9/32	3/4	3 19/32	6 7/8	5 5/8	9/16	14 1/4	16, 18, 20 1/4	9/16
3 1/2	4 1/2	235	148,000	296,000	11	3 27/32	1	4 3/16	7 29/32	6 1/2	3/4	14 1/4	20 1/4, 28	3/4
4	5 1/2	375	236,000	472,000	12	4 3/8	1	4 3/4	9 1/4	7 3/4	3/4	14 1/4	20 1/4, 28	3/4
4 1/2	6	505	318,000	636,000	13 5/8	4 27/32	1 1/16	5 5/16	10 3/8	8 1/2	3/4	22	28, 32	3/4
5	6 7/8	700	441,000	882,000	15 5/16	5 17/32	1 5/16	6 1/32	11 9/16	9 1/2	1	22	28, 32	1
5 1/2	7 3/4	920	580,000	1,160,000	16 3/4	6 7/32	1 5/16	6 5/8	12 11/16	10 1/2	1	22	28, 32	1
6	8 5/8	1205	759,000	1,518,000	18	6 21/32	1 5/16	7 13/32	13 7/8	11 1/2	1	22	32, 36	1
7	10 3/8	1840	1,160,000	2,320,000	20 3/4	7 11/16	1 3/8	8 11/16	16 1/16	13 1/2	1	22	32, 36	1

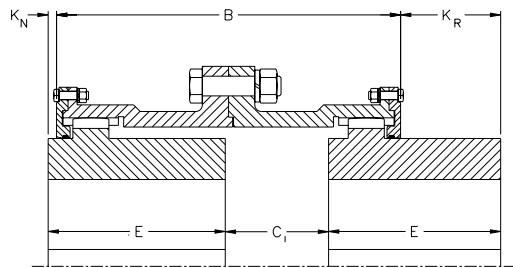
Series H Gear Couplings

ALLOY STEEL FULL-FLEX

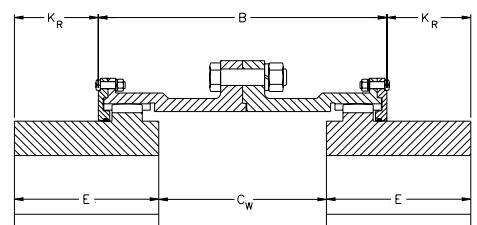
Alloy steel Series H couplings, sizes 8 through 30, are identical in design to standard couplings, except that the hubs and sleeves are made of alloy steel to provide higher torque capacity. Grade 8 bolts are substituted for higher strength as well. The bolts are special with respect to body length, thread length, and bolt-body tolerance. All end rings are gasketed and are bolted to the sleeves, which can be easily removed for inspection of the gear teeth without removing the hub from the shaft. Hubs may be installed in the standard position, or with one or both hubs reversed to accommodate various shaft separations. **Sizes 8 through 30 are available in exposed bolt only.**



Coupling Size	Maximum Bore with Standard Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in. x 1000)	Peak Torque Rating (lb.-in. x 1000)	Maximum Speed (RPM)	Weight with Solid Hubs (lb.)	Dimensions						
							A	B	C	C _i	C _w	E	O
8	10 3/4	4,179	2,633	7,899	1,750	1,430	23 1/4	19 1/2	3/8	5 9/16	10 3/4	9 13/16	14
9	11 3/4	5,938	3,741	11,223	1,625	2,000	26	21 3/4	1/2	6 1/4	12	10 7/8	15 1/2
10	13	8,167	5,145	15,435	1,500	2,670	28	24	1/2	7 1/8	13 3/4	12	17 1/2
11	15	10,848	6,834	20,502	1,375	3,520	30 1/2	26 1/4	1/2	7 7/8	15 1/4	13 1/8	19 1/2
12	16 1/4	13,489	8,498	25,494	1,250	4,450	33	27 3/4	1/2	8 1/8	15 3/4	13 7/8	21 1/2
13	17 1/2	16,929	10,665	31,995	1,125	5,410	35 3/4	29 1/2	3/4	8 7/16	16 1/8	14 5/8	23
14	18 3/4	20,779	13,091	39,273	1,000	6,600	38	31 1/4	3/4	9	17 1/4	15 1/2	25
15	20 3/4	25,262	15,915	47,745	875	8,040	40 1/2	33 1/8	3/4	9 7/16	18 1/8	16 1/2	27
16	22	30,208	19,031	57,093	750	9,680	43	35	1	9 7/8	18 3/4	17 3/8	29
18	25 1/4	39,584	24,938	74,814	500	12,500	47 1/4	36 1/8	1	10 1/4	19 1/2	18	33
20	27 1/4	54,000	34,020	102,060	400	17,900	53 1/2	42 3/8	1	12 3/8	23 3/4	21 1/8	36 1/2
22	30	71,456	45,017	135,051	300	23,300	59	46	1	13 3/4	26 1/2	23	40
24	33 1/4	79,462	50,061	150,183	200	30,300	64 1/4	49 1/2	1	15	29	24 3/4	44 1/2
26	36 3/4	99,449	62,653	187,959	200	37,700	68 1/2	53	1	15 5/8	30 1/4	26 1/2	48 1/2
28	40	123,703	77,933	233,799	200	45,200	73 3/4	54 1/4	1	15 7/8	30 3/4	27 1/8	52 1/2
30	43 1/2	150,637	94,901	284,703	200	52,700	78	55 1/4	1	15 7/8	30 3/4	27 5/8	56 1/2



ONE HUB REVERSED



TWO HUBS REVERSED

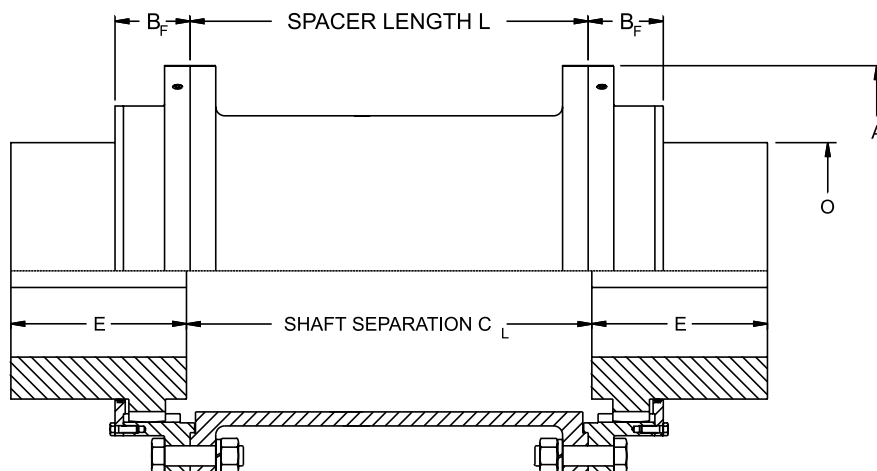
Coupling Size	Center Flange			End Ring		
	Quantity	Size & Length	Bolt Circle	Quantity (each)	Size & Length	Bolt Circle
8	16	1 1/8 x 4 1/8	20 3/4	10	1/2 x 2	19 3/8
9	18	1 1/4 x 4 1/2	23 1/4	12	5/8 x 2 3/16	21 3/4
10	18	1 3/8 x 5 3/8	25 1/4	12	5/8 x 2 3/16	23 7/8
11	18	1 1/2 x 5 7/8	27 1/2	12	5/8 x 2 3/16	26 1/16
12	18	1 1/2 x 6 1/8	30	12	3/4 x 2 9/16	28 5/16
13	18	1 5/8 x 6 3/8	32 1/4	12	3/4 x 2 9/16	30 1/2
14	18	1 3/4 x 6 5/8	34 1/2	14	3/4 x 2 9/16	32 5/8
15	20	1 3/4 x 6 5/8	36 3/4	14	7/8 x 2 7/8	35
16	20	2 x 7 3/8	39	14	7/8 x 2 7/8	37 1/8
18	22	2 x 7 3/8	43 1/4	14	7/8 x 2 7/8	41 3/8
20	22	2 1/4 x 7 5/8	48 3/4	16	1 x 3 5/8	46 1/4
22	22	2 1/2 x 8 1/8	53 1/2	16	1 x 3 5/8	50 3/4
24	22	2 3/4 x 8 7/8	58 1/4	16	1 1/8 x 4 1/8	55
26	24	2 3/4 x 8 7/8	62 1/2	18	1 1/8 x 4 1/8	59 1/4
28	22	3 x 9 5/8	67 1/4	16	1 1/4 x 4 1/4	63 11/16
30	24	3 x 9 5/8	71 1/2	18	1 1/4 x 4 1/4	68 3/16

Series H Gear Couplings

ALLOY STEEL SPACER COUPLING

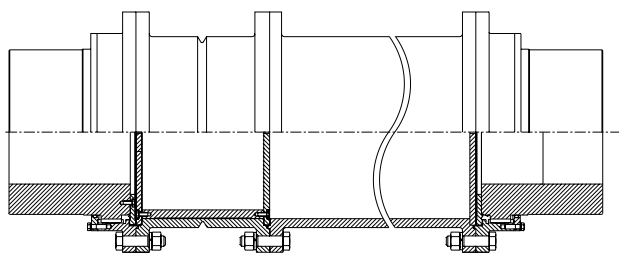
Alloy steel Series H spacer couplings are available for applications with extended shaft separations. They offer the same higher torque ratings of the close-coupled alloy

steel design. Bolt on end rings are supplied to allow inspection of the hub teeth without removing the hub from the shaft.

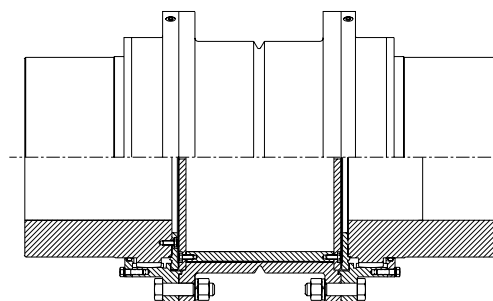


Coupling Size	Maximum Bore with Standard Keyway	Rating HP / 100 RPM	Torque Rating (lb.-in. x 1000)	Peak Torque Rating (lb.-in. x 1000)	Maximum Speed (RPM)	Weight with Solid Hubs (lb.)	Dimensions			
							A	B _F	E	O
8	10 3/4	4,179	2,633	7,899	1,750	1,430	23 1/4	4 3/8	9 13/16	14
9	11 3/4	5,938	3,741	11,223	1,625	2,000	26	4 7/8	10 7/8	15 1/2
10	13	8,167	5,145	15,435	1,500	2,670	28	5 1/8	12	17 1/2
11	15	10,848	6,834	20,502	1,375	3,520	30 1/2	5 7/16	13 1/8	19 1/2
12	16 1/4	13,489	8,498	25,494	1,250	4,450	33	6	13 7/8	21 1/2
13	17 1/2	16,929	10,665	31,995	1,125	5,410	35 3/4	6 11/16	14 5/8	23
14	18 3/4	20,779	13,091	39,273	1,000	6,600	38	6 15/16	15 1/2	25
15	20 3/4	25,262	15,915	47,745	875	8,040	40 1/2	7 17/32	16 1/2	27
16	22	30,208	19,031	57,093	750	9,680	43	8 7/32	17 3/8	29
18	25 1/4	39,584	24,938	74,814	500	12,500	47 1/4	8 13/32	18	33
20	27 1/4	54,000	34,020	102,060	400	17,900	53 1/2	9 3/8	21 1/8	36 1/2
22	30	71,456	45,017	135,051	300	23,300	59	9 13/16	23	40
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28	40	123,703	77,933	233,799	200	45,200	73 3/4	11 3/4	27 1/8	52 1/2
30	43 1/2	150,637	94,901	284,703	200	52,700	78	12 3/16	27 5/8	56 1/2

Shear spacer designs are used where there is a need to prevent large peak torques from being transmitted back through the drive train. This design acts as a fuse to prevent damage to large, expensive drive train equipment due to wrecks or cobbles in the mill stands.



Combination Spacer Design with Shear



Shear Spacer for Torque Overload Release

This image shows a full page of blank, lined paper. It features approximately 28 horizontal blue or grey lines spaced evenly apart, typical of notebook paper. The lines extend across the entire width of the page, leaving small margins at the top and bottom. There are no vertical lines, text, or other markings on the page.

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