

Floating Shaft Spacer Coupling G5 Series - Form-Flex®

Double Flex Floating Shaft



Size	Torque Rating			Weight (1) (lb)		WR ² (1) (lb-in ²)		Misalignment Capacity	
	HP / 100 (RPM)	Max Continuous (lb-in)	Peak Overload (lb-in)	at D Min	Add Per Inch	at D Min	Add Per Inch	Axial (+/- in)	Angular (Degrees/ Disc Pack)
311	17	11,000	22,000	22.67	0.39	86.75	1.28	0.028	0.5°
321	33	20,500	41,000	32.24	0.44	148.2	1.88	0.029	
332	51	32,000	64,000	47.06	0.47	271.2	2.24	0.030	
346	73	46,000	92,000	77.73	1.11	568.7	6.95	0.050	
380	127	80,000	160,000	102.5	1.17	944.6	8.04	0.080	
412	190	120,000	240,000	151.5	2.04	1,972.6	19.15	0.080	0.33°
419	301	190,000	380,000	248.2	2.21	4,137	24.24	0.100	
424	476	300,000	600,000	358.3	3.04	9,456	63.33	0.100	
444	690	435,000	870,000	502.2	3.38	15,621	86.52	0.110	
456	1015	640,000	1,280,000	633.6	4.89	24,595	147.92	0.120	
483	1317	830,000	1,660,000	880.0	5.11	37,972	169.02	0.130	
511	1904	1,200,000	2,400,000	1132	5.11	64,246	169.02	0.140	
520	3173	2,000,000	4,000,000	CONSULT TB WOOD'S				0.180	
525	3967	2,500,000	5,000,000					0.200	
530	4760	3,000,000	6,000,000					0.200	
540	6347	4,000,000	8,000,000					0.240	

1) Weight and WR² values shown are for standard at max inch bore and spacer length at D Min

STANDARD MATERIALS

HUBS - CARBON STEEL

SPACER - CARBON STEEL

HARDWARE - ALLOY STEEL

DISC PACK - STAINLESS STEEL

MATERIAL OPTIONS

DISC PACK - ALLOY STEEL (for cost reduction, only available on sizes 412 to 540)

ZINC ELECTRO PLATING

ZINC PHOSPHATE COATING

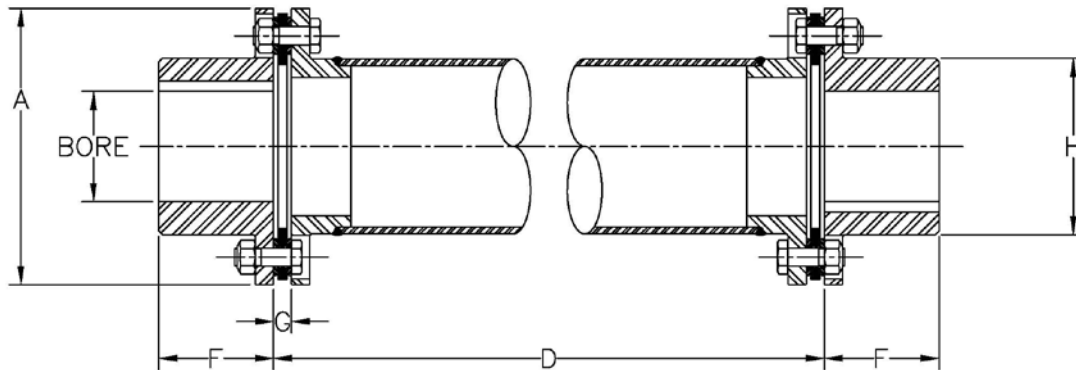
ALLOY STEEL HUBS

DESIGN VARIATIONS

- G5 - Welded Steel Tube
- G6 - Welded Steel Tube—Vertical
- G7 - Welded Steel Tube—Semi-Floating Spacer
- G5C - Composite Tube
- G6C - Composite Tube—Vertical
- G7C - Composite Tube— Semi-Floating

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Size	Max Bore						Common Coupling Dimensions (in)								Max D (in) for RPM Shown					
	Standard Hub			Oversized/Large Hub			A	D Min	F	G	H		Tube		1800	1500	1200	900	750	600
	Square Key (in)	Rect. Key (in)	Rect. Key (mm)	Square Key (in)	Rect. Key (in)	Rect. Key (mm)					Std Hub	O/S Hub	OD	ID						
311	2.813	3.063	78	3.125	3.313	86	5.88	12.750	2.50	0.40	3.91	4.30	3.63	3.39	94	103	116	134	146	164
321	3.000	3.250	83	3.250	3.438	90	6.38	13.063	3.00	0.55	4.25	4.57	4.00	3.76	101	110	124	143	156	175
332	3.188	3.313	87	3.438	3.688	95	7.20	13.188	3.50	0.61	4.50	4.95	4.25	4.01	104	114	127	147	161	180
346	3.750	4.000	107	4.250	4.500	117	8.20	19.188	3.75	0.62	5.42	5.95	5.25	4.75	111	122	136	157	172	192
380	3.750	4.000	105	4.250	4.500	118	9.42	19.750	4.13	0.89	5.65	6.30	5.50	5.00	114	125	140	161	177	197
412	4.500	4.500	120	4.750	5.125	135	11.00	19.438	4.25	0.75	6.51	7.20	6.50	5.75	123	135	151	174	191	213
419	4.500	4.875	130	5.500	5.625	150	12.50	19.938	5.00	0.98	7.32	8.07	7.00	6.25	128	140	157	181	198	222
424	6.625	6.880	190				15.00	19.938	6.25	0.98	9.57		9.50	8.75	150	164	184	212	233	260
444	7.000	7.375	200				16.38	20.125	7.00	1.09	10.52		10.50	9.75	158	173	194	224	245	274
456	8.000	8.000	220				18.00	20.625	7.25	1.32	11.63		11.50	10.50	165	181	202	233	256	286
483	8.250	8.875	234				19.44	20.750	8.50	1.39	12.56		12.00	11.00	168	184	206	238	261	292
511	10.000	10.125	280				22.00	21.063	9.00	1.56	14.50		12.00	11.00	168	184	206	238	261	292
520	10.375	11.000	297				24.88	21.750	11.88	1.89	16.10									
525	11.000	12.000	322				26.75	21.875	12.00	1.95	17.35									
530	11.500	12.750	338				28.00	22.250	12.75	2.14	18.35									
540	15.750	17.000	448				33.50	24.125	15.00	2.58	22.63									

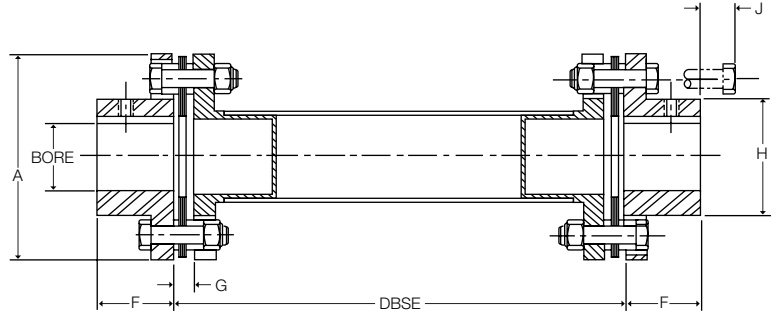
ORDERING

G5 SERIES COUPLINGS ARE SOLD AS COMPLETE ASSEMBLIES
 PLEASE SPECIFY BORE SIZES, DISC PACK MATERIAL AND DBSE.
 A COUPLING WILL BE CONFIGURED TO MEET YOUR SPECIFICATIONS.

Floating Shaft Spacer Coupling A5C/B5C Composite Series - Form-Flex®

Double Flex Spacer

Form-Flex® flexible couplings may be mated to composite tubes for use as long floating shaft couplings. All types and most sizes of Form-Flex® couplings can be mated to composite tubes. Common combinations are shown below.



Type	Rated Torque*** lb-in	HP/ 100 RPM	Coupling Product No.	Maximum DBSE (in)			Maximum Bore			
				Max	@1800 RPM	@1500 RPM	Std Hub		AZ Hub	
							Square Key (in)	Reduced Key (in[mm])	Square Key (in)	Reduced Key (in[mm])
A5C20	2,200	3.49	A5C20_2G	84	72	79	1.625	1.75 [45]	2.125	2.188 [57]
			A5C20_2R	84	84*	84*				
A5C25	3,800	6.03	A5C25_2G	83	71	78	2.00	2.063 [52]	2.500	2.750 [68]
			A5C25_2R	83	83*	83*				
A5C30	6,930	11	A5C30_3R	130	107	117	2.375	2.438 [61]	2.875	3.063 [78]
			A5C30_3B	130	122	130*				
A5C35	11,340	18	A5C35_4R	147	123	135	2.875	3.125 [80]	3.750	3.75 [100]
			A5C35_4B	147	140	147*				
			A5C35_6R	152	149	152*				
			A5C35_6B	181	170	181*				
			A5C35_6BL	196	-	187				
			A5C35_8R	196	184	196*				
			A5C35_8B	196	196	196*				
			A5C35_8BL	236	-	215				
A5C40	18,270	29	A5C40_4R	147	123	135	3.250	3.375 [88]	4.000	4.375 [113]
			A5C40_4B	147	140	147*				
B5C58	34,000	54	B5C58_6R	181	149	151	4.000	4.250 [110]	5.000	5.500 [143]
			B5C58_6B	181	170	181*				
			B5C58_6BL	196	-	187				
			B5C58_6X	196	174	190				
			B5C58_8R	197	184	197*				
			B5C58_8B	197	196	197*				
			B5C58_8BL	237	-	215				
			B5C58_10B**	237	213	237*				
			B5C58_12B**	237	237*	237*				

Type	Coupling Product No.	Dimensions (in) (1)					Misalignment Capacity	
		A	F	G	H	J	Axial (+/- in)	Angular (Degrees/ Disc Pack)
A5C20	A5C20_2G	4.08	1.32	0.34	2.40	2.30	0.055	1°
	A5C20_2R					2.30		
A5C25	A5C25_2G	4.95	1.62	0.45	2.80	2.30	0.060	1°
	A5C25_2R					2.30		
A5C30	A5C30_3R	5.63	1.88	0.47	3.30	3.25	0.065	1°
	A5C30_3B					3.25		
A5C35	A5C35_4R	6.63	2.25	0.55	4.15	4.25	0.085	1°
	A5C35_4B					4.25		
	A5C35_6R					6.30		
	A5C35_6B					6.30		
	A5C35_6BL					6.30		
	A5C35_8R					8.31		
	A5C35_8B					8.31		
	A5C35_8BL					8.31		
A5C40	A5C40_4R	7.63	2.50	0.60	4.65	4.25	0.100	1°
	A5C40_4B					4.25		
B5C58	B5C58_6R	8.98	2.75	0.56	5.81	6.30	0.118	0.7°
	B5C58_6B					6.30		
	B5C58_6BL					6.30		
	B5C58_6X					6.30		
	B5C58_6XL					6.30		
	B5C58_8R					8.31		
	B5C58_8B					8.31		
	B5C58_8BL					8.31		
	B5C58_10B**					10.31		
	B5C58_12B**					12.31		

* Length is restricted by available mandrels for winding composite tubes. Consult factory for longer lengths.

** Tube diameter is larger than coupling "A" diameter. Consult factory for coupling drawing.

*** Peak Overload Torque Rating is 1.5 times Rated Torque

1) Dimensions are shown with standard hubs