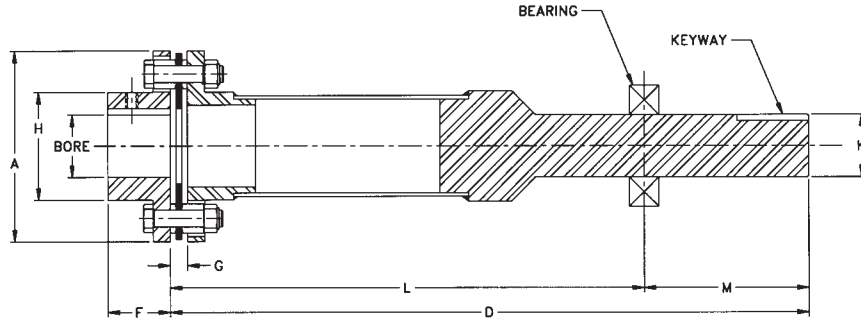


# FLOATING SHAFT - A7 SERIES 4 BOLT SEMI-FLOATING SHAFT COUPLINGS



The A7 coupling is a single flexing coupling designed for use in widely spaced three bearing systems. The shaft end of the coupling must be supported by a self-aligning bearing. A full floating coupling may be used in combination with the semi-floating coupling to span longer distances, or a V-Belt drive or other component may be mounted to the shaft end. This A7 is made-to-order to any custom spacer length. A7 series standard pricing is listed at D dimensions up to 36 inches and D dimensions between 36 inches and max L at 1800 RPM motor speed.



RATED MISALIGNMENT: 1.0 DEG/DISC

HUB OPTIONS	
HUB TYPE	SIZE
AJ - STANDARD	05-45
AZ - OVERSIZE	05-45
QD BUSHING MOUNT	15-40
AC/AD CLAMP	05-25
AL LOCK ELEMENT	05-25
SEE PAGE F5-8	

ORDERING: A7 Series couplings are sold as complete assemblies. Please specify hub types and bore sizes, DBSE (D) dimension, speed for dynamic balancing, and material class. A coupling will be configured to meet your specifications.

MATERIAL CLASSES	
CLASS	SIZE
A	10-45
B	05-45
C	15-45
E	15-45
SEE PAGE F5-4	

SIZE	DIMENSIONS IN INCHES*											MAX DBSE (D INCHES) FOR RPM SHOWN				
	MAX BORE		A	Dmin	F	G	H	K	L	M	KEYWAY SIZE	1800	1500	1200	900	600
	AJ	AZ														
10	1.25	1.63	3.19	20	1.00	0.27	1.80	1.25	16.50	3.50	.25 x .12	62	69	76	88	107
15	1.37	1.88	3.65	20	1.13	0.32	2.00	1.25	16.06	3.94	.25 x .12	64	71	79	91	111
20	1.62	2.13	4.08	20	1.32	0.34	2.40	1.50	15.75	4.25	.37 x .18	73	81	90	103	126
25	2.00	2.38	4.95	20	1.62	0.45	2.80	1.75	15.25	4.75	.37 x .18	79	87	97	112	137
30	2.38	2.88	5.63	20	1.88	0.47	3.30	2.00	14.50	5.50	.50 x .25	85	94	102	120	147
35	2.88	3.75	6.63	20	2.25	0.55	4.15	2.50	13.25	6.75	.62 x .31	97	107	119	137	168
40	3.25	4.00	7.64	20	2.50	0.60	4.65	3.00	12.75	7.25	.75 x .37	103	113	126	146	178

\* DIMENSIONS SHOWN ARE FOR AJ HUBS UNLESS OTHERWISE SPECIFIED

SIZE	HP PER 100 RPM 1.0 S.F	RATED TORQUE (lb. in.)	PEAK O/L TORQUE (lb. in.)	MAX RADIAL LOAD-(lbs.)	WEIGHT (lbs.)		WR <sup>2</sup> -(lb. in. <sup>2</sup> )		TORS. STIFFNESS 10° (lb. in./rad)		FREE END FLOAT +/- inch
					AT D = 20"	ADD/ (in.) OF D	AT MIN D = 20"	ADD/ (in.) OF D	K factor	Y factor	
					10	1.27	800	1,600	34	5.37	
15	2.50	1,575	3,150	56	6.65	0.10	5.72	0.07	0.28	2.81	0.021
20	3.49	2,200	4,400	125	11.0	0.21	11.0	0.22	0.56	8.77	0.027
25	6.03	3,800	7,600	183	14.7	0.20	24.9	0.29	0.91	12.0	0.030
30	11.00	6,930	13,860	275	19.7	0.29	52.4	0.56	1.52	22.7	0.032
35	18.00	11,340	22,680	400	34.7	0.40	106	1.32	3.03	53.9	0.042
40	29.00	18,270	36,540	600	51.6	0.46	211	1.95	5.26	79.3	0.050

NOTES:

- 1) WEIGHT, WR<sup>2</sup> AND TORSIONAL STIFFNESS VALUES SHOWN ARE FOR AJ HUBS AT MAXIMUM BORE SIZE.
- 2) TO CALCULATE TORSIONAL STIFFNESS FOR A GIVEN SPACER LENGTH, LET L= D - 20"  
TORSIONAL STIFFNESS = 1/[(1/K) + (L/Y)]