Flexible Couplings

TB Wood's

Sure-Flex® Elastomeric Couplings

- Four-way flexing action absorbs extreme torsional shock and vibration
- Uniquely designed teeth and lateral flexibility accepts both parallel and angular misalignment without wear
- Fast and easy installation without bolts, gaskets, covers or seals
- Lubrication-free design provides quiet, reliable performance
- Flexible sleeves available in EPDM, Neoprene and Hytrel
- Choose from an extensive offering of sizes using BTS, bushed, clamp and spacer flanges

Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
3	0.875	9200	2.06	1.97	0.10	1.10	1.67	3.33
4	1.000	7600	2.46	2.34	0.19	2.21	3.33	6.66
5	1.250	7600	3.25	2.81	0.38	4.42	6.66	13.33
6	1.875	6000	4.00	3.50	0.71	8.28	12.50	24.99
7	1.875	5250	4.63	3.94	1.15	13.34	20.13	40.26
8	2.375	4500	5.45	4.44	1.80	20.89	31.52	63.03
9	2.875	3750	6.35	5.06	2.86	33.13	49.98	99.96
10	3.625	3600	7.50	5.69	4.56	52.92	79.83	159.66
11	3.875	3600	8.63	7.13	7.19	83.38	125.78	251.57
12	3.938	2800	10.00	8.25	11.42	132.52	199.92	—
13	4.500	2400	11.75	9.25	18.01	208.90	315.15	—
14	5.000	2200	13.88	9.88	28.56	331.30	499.80	—
16	6.000	1500	18.88	14.25	74.97	869.65	—	—
6H	1.875	6000	4.00	3.50	2.86	33.13	49.98	99.96
7H	1.875	5250	4.63	3.94	4.56	52.92	79.83	159.66
8H	2.375	4500	5.45	4.44	7.19	83.38	125.78	251.57
9H	2.875	3750	6.35	5.06	11.42	132.52	199.92	399.84
10H	3.625	3600	7.50	5.69	18.01	208.90	315.15	630.31
11H	3.875	3600	8.63	7.13	28.56	331.30	499.80	999.60
12H	3.938	2800	10.00	8.25	49.98	579.77	874.65	—
13H	4.500	2400	11.75	9.25	75.00	869.99	1312.48	—
14H	5.000	2200	13.88	9.88	115.00	1334.02	2012.53	—

Showing BTS couplings for close coupled shafts. Spacer couplings, bushed flanges and other options also available.

Note: The specification data on this page is not complete. Consult TB Wood's for full product offering and specifications.

Dura-Flex® Couplings

- Specially designed “split-in-half flex element” moves stress away from bond, extending flex life
- Directly interchangeable with similar couplings for fast and easy replacement
- One spacer size eliminates problems with varying between-shaft spacings
- Flexible, polyurethane material offers superior chemical, dynamic and weathering properties
- Requires no lubrication, minimizing maintenance and downtime
- Bore-to-size (BTS), Sure-Grip bushed (QD) and Taper-Lock® hubs are available

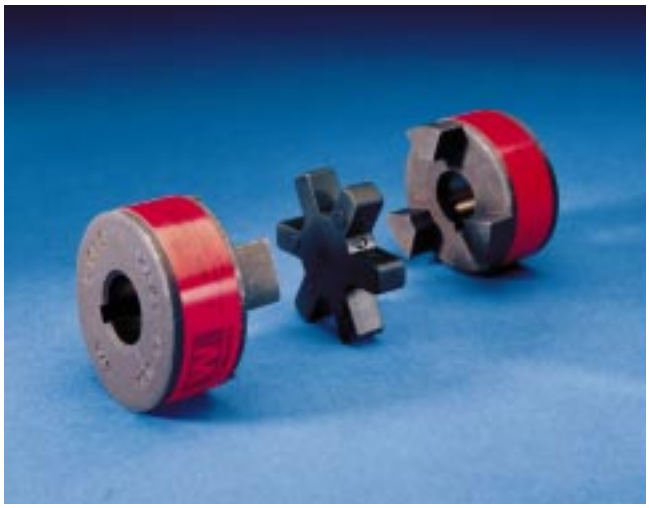
Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
WE2	1.125	7500	3.70	3.22	0.301	3.50	5.28	10.55
WE3	1.375	7500	4.24	3.80	0.579	6.72	10.13	20.27
WE4	1.625	7500	4.52	3.82	0.873	10.12	15.27	30.54
WE5	1.875	7500	5.40	4.32	1.468	17.02	25.68	51.37
WE10	2.125	7500	6.48	4.13	2.301	26.69	40.26	80.52
WE20	2.375	6600	7.36	4.30	3.649	42.33	63.86	127.73
WE30	2.875	5800	8.41	4.63	5.791	67.18	101.35	202.70
WE40	3.375	5000	9.71	5.08	8.727	101.23	152.72	305.43
WE50	3.625	4200	11.34	5.79	12.138	140.80	212.42	424.83
WE60	4.000	3800	12.53	6.44	19.833	230.07	347.08	694.17
WE70	4.500	3600	14.00	7.20	35.105	407.22	614.34	1228.68
WE80	6.000	2000	16.00	9.30	62.674	727.01	1096.79	—

Using STD elements and BTS hubs. Spacer elements and bushed hubs available.

®Taper-Lock is a registered tradename of Rockwell Automation-Dodge.
Note: The specification data on this page is not complete. Consult TB Wood’s for full product offering and specifications.

TB Wood’s

Jaw-Type Elastomeric Couplings



- L-Jaw, C-Jaw versions offer reliable solutions for uniform to heavy loads
- L-Jaw straight-jaw coupling is directly interchangeable with industry standard couplings
- C-Jaw uses easily replaceable individual cushions for maximum reliability with heavy torque loads
- Ideal solutions for applications ranging from standard-duty electric motors to steam turbines and high-torque motors
- Available in a wide range of sizes using BTS hubs
- Spiders available in Buna-N, Urethane, Hytrel and bronze

Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
LO35	0.375	31000	0.63	0.81	0.006	0.06	0.10	0.19
LO50	0.625	18000	1.08	1.72	0.042	0.48	0.73	1.46
LO70	0.750	14000	1.36	2.00	0.069	0.80	1.20	2.40
LO75	0.875	11000	1.75	2.13	0.143	1.66	2.50	5.00
LO90	1.000	9000	2.11	2.13	0.228	2.65	4.00	8.00
LO95	1.125	9000	2.11	2.50	0.308	3.57	5.39	10.77
LO99	1.188	7000	2.53	2.88	0.505	5.85	8.83	17.66
L100	1.438	7000	2.53	3.50	0.662	7.68	11.58	23.16
L110	1.625	5000	3.31	4.25	1.257	14.58	21.99	43.98
L150	1.875	5000	3.75	4.50	1.967	22.82	34.43	68.86
L190	2.125	5000	4.50	4.88	2.739	31.77	47.93	95.85
L225	2.625	4600	5.00	5.38	3.713	43.07	64.97	129.95
L276	2.875	4200	6.19	7.88	7.483	86.80	130.95	261.90
C226	2.500	4800	5.15	7.00	4.741	55.00	82.97	165.93
C276	2.875	4200	6.18	7.87	7.483	86.80	130.95	261.90
C280	3.000	3500	7.50	7.87	11.995	139.14	209.92	419.83
C285	4.000	3200	8.50	9.13	14.569	169.00	254.95	509.91
C295	3.500	2300	9.12	9.38	17.993	208.72	314.88	629.75
C2955	4.000	2300	9.12	10.38	29.988	347.86	524.79	1049.58

Specifications show straight jaws with Buna-N spiders. Curved jaw and other spider materials available.

Note: The specification data on this page is not complete. Consult TB Wood's for full product offering and specifications.

Gear Couplings

- Space-saving size and low weight with high torque capacity
- Torsionally stiff
- Good inherent balance
- Piloted gear fit for higher speeds and less vibration
- Stock styles include Series “F” & “C”, Poole MXB, K100, Deck-Flex, and Deck-Flex mite. Engineered and high speed specials are also available.
- Rated for higher speeds
- Many types and configurations
  - Type C - continuous sleeve
  - Type F - standard flanged sleeve
  - Type MXB - higher rating
  - Type K100 - labyrinth seal
  - Deck-Flex - nylon sleeve
  - High-performance couplings available

Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
1F	1.625	9500	4.56	3.50	12	139	210	420
1½F	2.130	8500	6.00	4.00	30	348	525	1050
2F	2.750	7800	7.00	5.00	50	580	875	1749
2½F	3.250	6800	8.38	6.25	90	1044	1574	3149
3F	4.000	6200	9.44	7.38	150	1739	2624	5248
3½F	4.625	5500	11.00	8.63	240	2785	4201	8402
4F	5.500	4600	12.50	9.75	350	4060	6125	12251
4½F	6.000	4100	13.63	10.94	480	5568	8399	16799
5F	6.875	3900	15.31	12.38	690	8005	12076	24152
5½F	7.750	3600	16.75	14.13	910	10555	15924	31848
6F	8.685	3400	18.00	15.13	1190	13804	20825	—
7F	9.500	3300	20.75	17.75	1600	18560	28000	—
8F	11.000	3200	23.25	22.38	2100	24360	36749	—
9F	12.000	3100	26.00	23.50	2900	33640	50749	—

Showing BTS, Type F gear couplings for close-coupled shafts. Spacer couplings, mill motor, Flex-rigid and other options also available.

Note: The specification data on this page is not complete. Consult TB Wood’s for full product offering and specifications.

Form-Flex® Flexible Disc Couplings

- Minimize misalignment forces by transmitting torque while compensating for angular, parallel and axial misalignment between two connected shafts
- High-strength, flexible, stainless-steel discs are available in three styles: 4-bolt, straight-sided (A, M series); 6-bolt, straight-sided (B series); and 8-bolt, round (D, F, H series)
- Reduce maintenance time and costs by eliminating lubrication
- Ideal for smooth or uneven conditions and moderate to heavy loads where misalignment may be a typical problem
- Close-coupled, spacer and floating-shaft designs offer total solutions for pumps, engine-driven equipment, printing and positioning systems

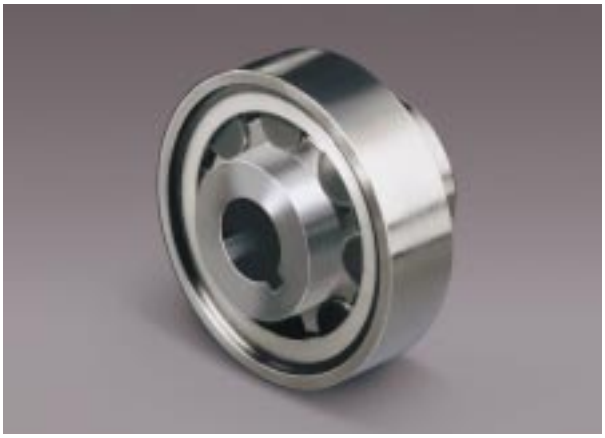
Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)(1)(2)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
AK05	1.125	8500	2.65	3.72	0.48	5.60	8	17
AK10	1.625	7500	3.19	4.06	1.27	14.70	22	44
AK15	1.875	6700	3.65	4.67	2.50	29.00	44	88
AK20	2.125	6200	4.08	5.02	3.49	40.50	61	122
AK25	2.375	5500	4.95	6.16	6.03	69.90	106	211
AK30	2.875	5000	5.63	7.57	11.00	127.60	193	385
AK35	3.750	4400	6.63	8.81	18.00	208.80	315	630
AK40	4.000	4000	7.64	9.88	29.00	336.40	508	1015
AK45	4.625	3700	8.43	11.88	48.00	556.80	840	1680
BF33	3.250	11000	4.93	7.09	4.84	56.43	84.70	169.40
BF38	4.000	9800	6.00	14.26	10.89	126.98	190.58	381.15
BF43	4.500	8800	6.77	15.24	21.43	249.87	375.03	750.05
BF48	5.000	8300	7.62	15.50	29.21	340.59	511.18	1022.35
BF53	4.125	7800	8.00	16.26	38.10	444.25	666.75	1333.50
BF58	4.625	7000	9.00	17.24	65.08	758.83	1138.90	2277.80
BF63	5.125	6700	10.00	18.00	76.19	888.38	1333.33	2666.65
BF68	5.625	6200	11.00	22.00	114.29	1332.62	2000.08	4000.15
BF73	6.500	5700	12.75	25.26	198.41	2313.46	3472.18	6944.35
BF78	7.500	5000	15.30	21.38	369.84	4312.33	6472.20	12944.40
HSH31	3.125	2800	8.12	10.87	38.10	444.25	666.75	—
HSH35	3.625	2600	9.12	12.06	69.84	814.33	1222.20	—
HSH37	3.750	2500	10.06	13.12	95.24	1110.50	1666.70	—
HSH42	4.500	2400	11.00	13.93	115.90	1351.39	2028.25	—
HSH45	4.750	2250	11.87	14.75	157.10	1831.79	2749.25	—
HSH50	5.500	2000	13.43	16.81	203.20	2369.31	3556.00	—
HSH55	6.250	1800	15.00	18.68	300.00	3498.00	5250.00	—
HSH60	7.125	1600	16.75	20.93	414.13	4828.76	7247.28	—
HSH70	7.875	1400	19.93	23.62	658.70	7680.44	11527.25	—
HSH75	8.750	1300	20.62	25.00	846.00	9864.36	14805.00	—
HSH80	9.125	1200	22.37	26.87	1087.00	12674.42	19022.50	—
HSH85	9.625	1100	23.75	28.62	1316.00	15344.56	23030.00	—
HSH92	11.000	1000	25.75	31.00	1651.00	19250.66	28892.50	—
HSH105	12.000	1000	29.25	34.25	1984.00	23133.44	34720.00	—

Note(1) OAL is based on Min DBSE and Std length hubs. Note(2) HSH is a fixed DBSE.

Note: The specification data on this page is not complete. Consult TB Wood's for full product offering and specifications.

TB Wood's

HD Elastomeric Couplings



- Proven design delivers low-cost, high-performance solution for light or heavy loads
- Offers high tolerance to misalignment and control shock loads
- Elastomeric design uses resilient urethane and cylindrical rolling elements to transmit torque without applying misalignment forces to either shaft
- No lubrication required

STANDARD SERIES

Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
HD2	1.000	3600	3.00	2.59	0.79	9.2	13.9	27.8
HD3	1.375	3600	4.09	3.42	2.51	29.1	43.9	87.7
HD4	1.875	3600	5.38	4.56	4.40	51.0	76.9	153.8
HD5	2.500	3600	7.00	5.05	12.00	139.1	209.9	419.8
HD6	3.000	2900	8.38	6.04	17.45	202.5	305.4	Note 4
HD7	3.938	2100	11.00	8.11	43.16	500.6	755.3	Note 4
HD8	5.500	1800	15.25	11.26	99.96	1159.5	1539.4	Note 4

Horsepower ratings double when using heavy-duty rolls.

FLYWHEEL DESIGN

Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating			
					@100 RPM	@1160 RPM	@1750 RPM	@3500 RPM
HD5.5	2.625	Note 1	7.00	3.25	19.04	220.9	333.2	665.0
HD6.5	3.250	Note 1	8.38	3.63	34.91	404.9	610.9	Note 4
HD7.5	4.250	Note 1	11.00	4.50	87.97	1020.4	1539.4	Note 4

ALL COMPOSITE FLOATING SHAFT COUPLING

Size	Maximum Bore	Maximum RPM	OD (in.)	OAL (in.)	Basic HP Rating (Note 2)			
					@1000 RPM	@1200 RPM	@1500 RPM	@1800 RPM
HD4.CS	2.500	Note 3	5.60	Note 3	33.0	40.0	42.0	50.0

Note 1 - Max. RPM depends upon flywheel adaptor diameter.
Note 2 - HP rating includes service factor for cooling tower.
Note 3 - Max. RPM and OAL depends upon shaft spacing.
Note 4 - Consult factory.

Note: The specification data on this page is not complete. Consult TB Wood's for full product offering and specifications.

TrueTube® Composite Torque Tubes

- Longer spans. TrueTube composite tubes have a higher stiffness to weight ratio than steel tubing. That increases the critical speed of the tubing and allows longer spans without center bearings.
- Lightweight. TrueTube drive shafts weigh up to 80% less than equivalent steel drive shafts. That means better balance and reduced vibration. Bearing life may be improved by minimizing overhung weight.
- Design flexibility. TrueTube composite tubes may be custom designed to meet your requirements for torsional stiffness, critical speed or torque capacity. With TrueTube, a designer can tune torsional or lateral critical speeds out of a machine system.
- Complete floating shaft couplings using TrueTube composite tube shafting are available.

Model Number	Tube ID inches	Tube OD inches	Sleeve OD inches	Rated Torque lb in	Tube Weight lb/inch	Torsional Stiffness x10^6 lb in/rad	Maximum DBSE inches				Maximum Tube Length inches
							2000 RPM	1800 RPM	1500 RPM	1000 RPM	
	Series SL—All Carbon Construction										
SL2.0	2.00	2.30	2.40	6,500	0.05	1.26	90	95	104	127	82
SL3.0	3.00	3.25	3.50	12,000	0.08	3.61	110	116	127	155	128
SL4.0	4.00	4.23	4.50	22,000	0.11	8.60	127	134	147	180	145
SL6.0	6.00	6.25	6.63	42,000	0.20	34.38	152	160	175	214	177
SL8.0	8.00	8.25	8.63	63,000	0.24	80.22	180	190	208	255	192
SL10.0	10.00	10.25	10.75	80,000	0.32	154.71	199	210	230	281	232
SL12.0	12.00	12.25	12.75	100,000	0.38	257.85	215	227	249	304	232
	Series SS—Carbon/Glass Construction										
SS2.0	2.00	2.30	2.40	5,500	0.06	0.97	79	83	91	111	82
SS3.0	3.00	3.25	3.50	10,500	0.08	2.86	97	102	112	137	128
SS4.0	4.00	4.23	4.50	22,000	0.12	7.28	112	118	129	158	145
SS6.0	6.00	6.25	6.63	42,000	0.20	26.36	135	142	155	190	177
SS8.0	8.00	8.25	8.63	58,000	0.28	57.30	156	165	181	221	192
SS10.0	10.00	10.25	10.75	73,000	0.34	114.60	173	183	200	245	232
SS12.0	12.00	12.25	12.75	88,000	0.42	206.20	189	199	218	267	232
	Series LS—All Glass Construction										
LS2.0	2.00	2.30	2.40	5,000	0.07	0.75	66	70	77	94	82
LS3.0	3.00	3.25	3.50	10,000	0.09	2.06	80	84	92	113	128
LS4.0	4.00	4.23	4.50	18,000	0.14	5.04	93	98	107	131	145
LS6.0	6.00	6.25	6.63	39,000	0.23	18.91	110	116	127	155	177
LS8.0	8.00	8.25	8.63	51,000	0.30	42.98	128	135	148	181	192
LS10.0	10.00	10.25	10.75	64,000	0.37	85.95	142	150	164	201	232
LS12.0	12.00	12.25	12.75	77,000	0.46	148.98	155	163	178	218	232

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