



**G-Flex  
and  
Dura-Flex  
Couplings**  
for  
Paper  
and Metal  
Processing  
Applications

 **TB Wood's**<sup>®</sup>  
Incorporated  
*An Altra Industrial Motion Company*



## TB WOOD'S G-FLEX AND DURA-FLEX COUPLINGS ARE DESIGNED FOR LONG-LASTING PERFORMANCE IN PAPER MILLS, STEEL MILLS, METAL PROCESSING FACILITIES, AND MORE.

G-Flex and Dura-Flex couplings are built to withstand harsh environments, which makes them ideal for use in tough paper and metal processing plant applications. Cranes, cooling beds, shears, rolling and other metal processing applications demand the heavy torques and rugged construction of these couplings, while paper processing pumps, dryer rolls, suction rolls and winders require the ease of maintenance and long life these couplings provide. That's why today you can find G-Flex and Dura-Flex couplings widely used by both paper and metal processors.

### G-FLEX COUPLINGS



#### Up to 169 kNm; 1,500,000 in.lbs.

TB Wood's G-Flex couplings are the ORIGINAL grid couplings designed by Bibby Transmission, also an Altra Industrial Motion company, back in 1917. Bibby has continually refined the design to meet the increasing application demands in today's market. G-Flex grid couplings incorporate the very latest Bibby technology, ensuring long life and high performance that you expect from TB Wood's.

G-Flex 1000 Series is an all-metal coupling that provides positive protection against the damaging effects of shock loads and vibration. Aluminum horizontal cover (T10), and all-steel vertical cover (T20) designs are available. G-Flex tapered grid couplings are an excellent choice where torsional flexibility/vibration damping are primary concerns.

- Easy to assemble/replace
- 100%, part-for-part interchangeable with all major tapered grid coupling designs on the market
- Coupling sizes 1020 through 1140 in-stock in a range of standard bore sizes
- Coupling sizes 1150 through 1200 available by special order
- A range of T31/T35 half and full spacer couplings available
- Shot-peened tapered grid flex element for long life

### DURA-FLEX® COUPLINGS



#### Up to 4.50 kNm; 39,500 in.lbs.

The Dura-Flex coupling was designed from the ground up, using finite element analysis to maximize flex life. The unique design utilizes a "split-in-half" element for easy element installation/replacement without moving connected equipment or disturbing the shaft connection. Spacer design can accommodate a large range of shaft spacing with few parts.

The patented design of the urethane bond to the leading edge of the steel shoe bolted to the hub, and the high quality of the urethane element itself, provide excellent heat, moisture, and chemical resistance. Patented design minimizes bond stress for long coupling life. Units are highly flexible and able to accommodate shaft misalignment of up to 4° angular or 1/16" parallel, while minimizing vibration and preventing damage to connected equipment.

- Easy to assemble/replace
- High misalignment ratings
- No maintenance/lubrication
- Part-for-part interchangeable with industry standard designs
- In-stock versatile spacer design can accommodate many configurations with few parts



## Grid Couplings Rating Comparison

TB Wood's G-Flex			Kop-Flex Kop-Grid®			Dodge Grid-Lign®			Lovejoy Grid		
Size	Torque (in. lbs.)	Max. Bore	Size	Torque (in. lbs.)	Max. Bore	Size	Torque (in. lbs.)	Max. Bore	Size	Torque (in. lbs.)	Max. Bore
1020T	460	1.125	1020T	422	1.125	1020T	422	1.125	1020	460	1.125
1030T	1,319	1.375	1030T	1,200	1.375	1030T	1,200	1.375	1030	1,320	1.375
1040T	2,204	1.687	1040T	2,000	1.625	1040T	2,000	1.625	1040	2,200	1.625
1050T	3,850	1.875	1050T	3,500	1.875	1050T	3,500	1.875	1050	3,850	1.875
1060T	6,054	2.125	1060T	5,500	2.125	1060T	5,500	2.125	1060	6,050	2.125
1070T	8,798	2.500	1070T	8,000	2.500	1070T	8,000	2.500	1070	8,800	2.500
1080T	18,144	3.000	1080T	16,500	3.000	1080T	16,500	3.000	1080	18,150	3.000
1090T	33,013	3.500	1090T	30,000	3.500	1090T	30,000	3.500	1090	33,000	3.500
1100T	55,582	4.000	1100T	50,500	4.000	1100T	50,500	4.000	1100	55,550	4.000
1110T	82,489	4.500	1110T	75,000	4.500	1110T	75,000	4.500	1110	82,500	4.500
1120T	121,255	5.000	1120T	110,000	5.000	1120T	110,000	5.000	1120	121,000	5.000
1130T	176,129	6.000	1130T	160,000	6.000	1130T	160,000	6.000	1130	176,000	6.000
1140T	253,130	7.250	1140T	230,000	7.250	1140T	230,000	7.000	1140	253,000	7.000

Type Designation	TB Wood's	Kop-Grid	Dodge	Lovejoy
Horizontal Split Cover	T10	T10	T10	H
Vertical Split Cover	T20	T20	T20	V
Spacer (full) Coupling	T31	T31	T31	Full Spacer
Spacer (half) Coupling	T35	T35	T35	Half Spacer

## Dura-Flex Couplings Rating Comparison

TB Wood's Dura-Flex			Rexnord Omega			Dodge Para-Flex			Falk Wrapflex		
Size	Torque (in. lbs.)	Max. Bore	Size	Torque (in. lbs.)	Max. Bore	Size	Torque (in. lbs.)	Max. Bore	Size	Torque (in. lbs.)	Max. Bore
WE2	190	1.125	E2	190	1.125	—	—	—	—	—	—
WE3	365	1.375	E3	365	1.375	—	—	—	—	—	—
WE4	550	1.687	E4	550	1.625	—	—	—	5R	540	1.375
WE5	925	1.875	E5	925	1.875	PX50	900	1.875	10R	1,070	1.625
WE10	1,450	2.125	E10	1,450	2.125	PX60	1,800	2.187	—	—	—
WE20	2,300	2.375	E20	2,300	2.375	PX70	2,200	2.375	20R	2,700	2.125
WE30	3,650	2.875	E30	3,650	2.875	PX80	3,605	2.875	30R	4,400	2.375
WE40	5,500	3.375	E40	5,500	3.375	PX100	5,402	3.375	—	—	—
WE50	7,650	3.625	E50	7,650	3.625	PX110	7,750	3.937	40R	8,800	3.000
WE60	12,500	4.000	E60	12,500	4.000	PX120	12,540	4.000	—	—	—
WE70	22,125	4.500	E70	22,125	4.500	PX140	27,590	4.500	50R	22,100	4.000
WE80	39,500	6.000	E80	39,500	6.000	PX160	37,800	6.000	—	—	—

Note: Dura-Flex elements are available in spacer design.

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