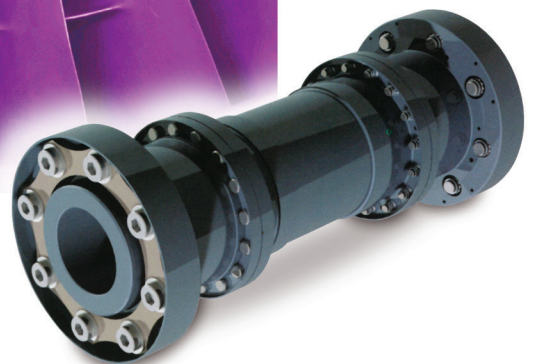




**8000/6000  
Series  
High  
Performance  
Couplings  
For High Speed  
Applications**



 **Bibby**<sup>®</sup>  
Turboflex

*An Altra Industrial Motion Company*

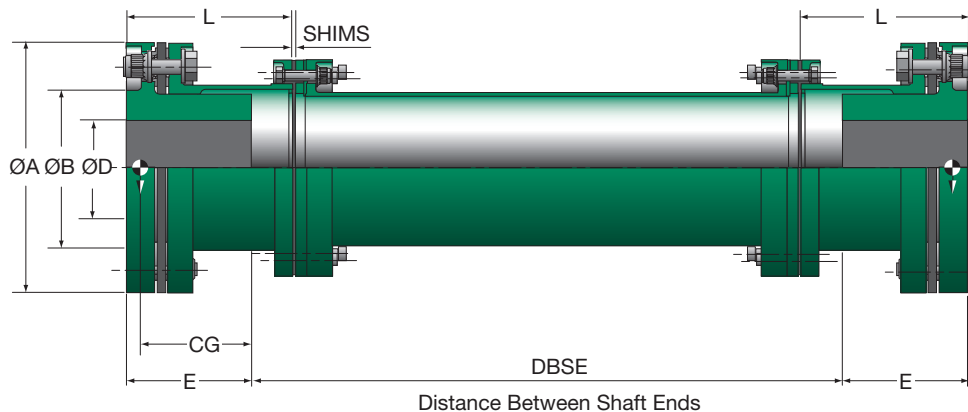


S.I.T., S.A. | Tfno. 943 457200 | [www.sitsa.es](http://www.sitsa.es) | [atencioncliente@sitsa.es](mailto:atencioncliente@sitsa.es)

## 2RH Couplings

Specifically designed for the process pump and general industrial markets.

- No lubrication for maintenance free operation
- Low over hung mass on the shaft ends
- High shaft capacity in relation to coupling diameter
- Design verified using Finite Element Analysis
- Designed to meet API 671 & ISO 10441 requirements
- Low bending and axial stiffness
- Coupling bolts shrouded to reduce "windage" losses
- Atex compliant



The Turboflex 8000 & 6000 (2RH) series of couplings have evolved from over 50 years experience supplying high performance disc couplings to the world's high speed turbo-machinery market. The result is one of the most technically advanced couplings available today.

Table 1: Specifications

RH Coupling	Max Cont Rating kW/rpm ① ② ③ ④	Max Cont Torque Rating kNm ① ② ③ ④	Max Speed RPM ⑤	Total Mass kg ⑥ ⑦	Total Inertia kgm <sup>2</sup> ⑥ ⑦	Torsional Stiffness MNm/rad ⑦	Half Coupling CG mm ⑦	Max Flange Dia A mm	Boss Dia B mm	Normal Bore Dia D mm ⑧	Hub Length E mm	Half Coupling Length L mm	Tube Mass per 100mm kg	Tube Inertia per 100mm kgm <sup>2</sup>	Tube Torsional Stiffness per 100mm MNm/rad	Max Angle Deg.	Max Axial mm
Table 1a 6000 SERIES																	
6130	0.59	5.7	21,300	17.2	0.05	0.24	28.3	162.0	96.0	64.0	85.0	115.0	0.85	0.002	2.1	.33	3.0
6150	0.91	8.7	19,000	26.4	0.11	0.42	31.4	191.0	114.0	76.0	97.0	128.0	1.02	0.004	3.6	.33	3.8
6180	1.47	14.0	16,950	40.4	0.23	0.65	39.7	224.0	135.0	90.0	121.0	149.0	1.24	0.006	6.4	.33	4.5
6210	2.31	22.0	15,270	54.6	0.40	0.96	45.6	255.0	153.0	102.0	133.0	167.0	1.79	0.012	11.8	.33	5.0
6235	3.36	32.1	13,400	78.7	0.75	1.40	52.8	288.0	72.5	115.0	157.0	197.0	2.31	0.020	20.4	.33	6.0
6260	4.44	42.4	12,050	102.9	1.20	1.86	56.8	317.0	190.5	127.0	169.0	209.0	2.77	0.029	29.3	.33	6.5
Table 1b 8000 SERIES																	
8130	0.89	8.5	21,300	17.4	0.05	0.27	56.7	162.0	96.0	64.0	85.0	115.0	0.85	0.002	2.1	.25	2.5
8150	1.41	13.4	19,000	26.3	0.11	0.46	64.5	191.0	114.0	76.0	97.0	128.0	1.02	0.004	3.6	.25	3.0
8180	2.22	21.2	16,950	41.1	0.24	0.76	81.4	224.0	135.0	90.0	121.0	149.0	1.24	0.006	6.4	.25	3.5
8210	3.48	33.2	15,270	57.3	0.43	1.26	87.8	255.0	153.0	102.0	133.0	167.0	1.79	0.012	11.8	.25	4.0
8235	5.04	48.1	13,400	83.7	0.80	1.94	105.0	288.0	172.5	115.0	157.0	197.0	2.31	0.020	20.4	.25	4.5
8260	6.84	65.3	12,050	110.5	1.29	2.73	113.2	317.0	190.5	127.0	169.0	209.0	2.77	0.029	29.3	.25	5.0
8280	8.66	82.7	11,150	136.1	1.84	3.60	120.2	341.0	210.0	140.0	181.0	224.0	3.23	0.038	38.7	.25	5.8
8320	11.54	110.2	9,800	186.2	3.18	4.87	137.0	389.0	228.0	152.0	205.0	252.0	3.94	0.059	59.9	.25	6.3
8340	14.70	140.3	9,300	241.8	4.78	6.33	153.3	419.0	247.5	165.0	229.0	281.0	4.49	0.076	76.7	.25	6.8

- ① Stated ratings are in accordance with API 671 (Ed'n 3) definition.
- ② In accordance with API 671, a minimum service factor of 1.5 is recommended.
- ③ API 671 defined peak torque capacity is 1.33 x continuous rating.
- ④ API 671 defined momentary capacity (or SCT) is 1.9 x continuous rating.
- ⑤ Maximum speeds are for units in standard materials with nominal bores given above.
- ⑥ Further reduction in mass will normally be possible, if required, using established design modifications.
- ⑦ Values are calculated using a DBSE of 457.2mm (18") maximum bores & standard dimensions.
- ⑧ Bore sizes can be increased to those given in Table 2 providing the maximum speed given in Table 1 are NOT exceeded.

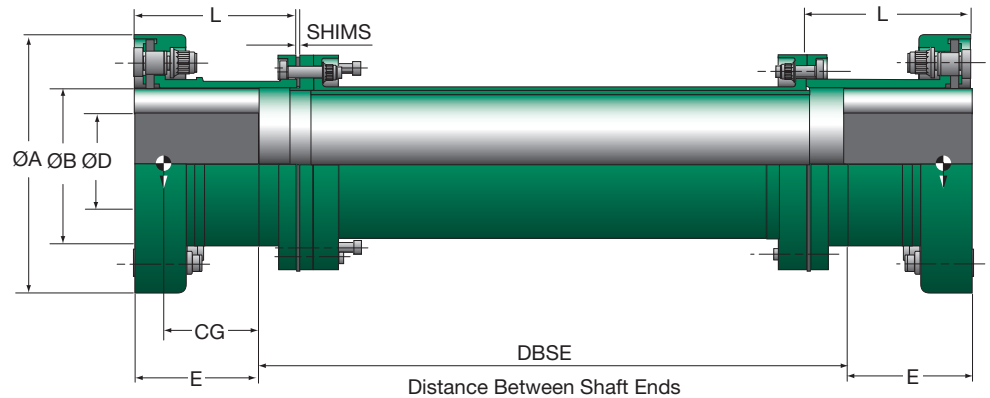
Table 2: Increased Bore Capabilities

6000 series	8000 series	Max Bore Dia D mm ⑧	Max Speed RPM ⑧
6130	8130	70.0	19,000
6150	8150	80.0	16,690
6180	8180	100.0	14,460
6210	8210	110.0	12,460
6235	8235	130.0	10,490
6260	8260	140.0	9,050
	8280	150.0	8,050
	8320	170.0	6,450
	8340	180.0	5,790



## 2RM Couplings

The Turboflex 8000 & 6000 (2RM) "Co-Planar" series of couplings incorporate all the same advanced features of the (2RH) series but with the added benefit of even lower overhung mass on the shaft end.



**Table 1: Specifications**

RH Coupling	Max Cont Rating kW/rpm ①② ③④	Max Cont Torque Rating kNm ①② ③④	Max Speed RPM ⑤	Total Mass kg ⑥⑦	Total Inertia kgm <sup>2</sup> ⑥⑦	Torsional Stiffness MNm/rad ⑦	Half Coupling CG mm ⑦	Max Flange Dia A mm	Boss Dia B mm	Normal Bore Dia D mm ⑧	Hub Length E mm	Half Coupling Length L mm	Tube Mass per 100mm kg	Tube Inertia per 100mm kgm <sup>2</sup>	Tube Torsional Stiffness per 100mm MNm/rad	Max Angle Deg.	Max Axial mm
8130	0.89	8.47	22,000	17.9	0.056	0.26	63.8	169.0	99.0	64.0	85.0	115.0	0.81	0.002	1.8	.25	2.5
8150	1.41	13.45	18,400	28.6	0.126	0.48	71.3	200.0	119.0	76.0	97.0	130.0	1.13	0.004	3.8	.25	3.0
8180	2.22	21.24	16,500	43.8	0.266	0.83	88.3	231.0	141.0	90.0	121.0	151.0	1.49	0.007	6.8	.25	3.5
8210	3.48	33.22	14,700	62.8	0.487	1.28	94.8	262.0	164.0	102.0	133.0	164.0	1.89	0.011	11.2	.25	4.0
8235	5.04	48.14	13,100	91.6	0.931	1.91	110.7	298.0	190.0	115.0	157.0	194.0	2.24	0.019	18.8	.25	4.5
8260	6.84	65.31	11,700	121.6	1.49	2.67	118.5	328.0	208.0	127.0	169.0	209.0	3.15	0.030	30.8	.25	5.0
8280	8.66	82.71	10,700	150.9	2.159	3.69	127.9	354.0	222.0	140.0	181.0	224.0	3.61	0.039	39.9	.25	5.8
8320	11.54	110.17	9,900	206.2	3.708	5.00	145.1	396.0	246.0	152.0	205.0	252.0	4.30	0.058	58.8	.25	6.3

- ① Stated ratings are in accordance with API 671 (Ed'n 3) definition.
- ② In accordance with API 671, a minimum service factor of 1.5 is recommended.
- ③ API 671 defined peak torque capacity is 1.33 x continuous rating.
- ④ API 671 defined momentary capacity (or SCT) is 1.9 x continuous rating.
- ⑤ Maximum speeds are for units in standard materials with nominal bores given above.
- ⑥ Further reduction in mass will normally be possible, if required, using established design modifications.
- ⑦ Values are calculated using a DBSE of 457.2mm (18") maximum bores & standard dimensions.
- ⑧ Bore sizes can be increased to those given in Table 2 providing the maximum speed given in Table 1 are NOT exceeded.

**Table 2: Increased Bore Capabilities**

RH Coupling	Max Bore Dia D mm ⑧	Max Speed RPM ⑧
8130	70.0	18,000
8150	80.0	14,700
8180	100.0	12,000
8210	110.0	11,000
8235	130.0	9,500
8260	140.0	8,250
8280	150.0	7,700
8320	170.0	7,200



<p><b>Electromagnetic Clutches and Brakes</b></p> <p><b>Warner Electric</b> <i>Electromagnetic Clutches and Brakes</i> New Hartford, CT - USA <b>1-800-825-6544</b> <i>For application assistance: 1-800-825-9050</i></p> <p>St Barthelemy d'Anjou, France <b>+33 (0) 2 41 21 24 24</b></p> <p><i>Precision Electric Coils and Electromagnetic Clutches and Brakes</i> Columbia City, IN - USA <b>1-260-244-6183</b></p> <p><b>Matrix International</b> <i>Electromagnetic Clutches and Brakes, Pressure Operated Clutches and Brakes</i> Brechin, Scotland <b>+44 (0) 1356 602000</b> New Hartford, CT - USA <b>1-800-825-6544</b></p> <p><b>Inertia Dynamics</b> <i>Spring Set Brakes; Power On and Wrap Spring Clutch/Brakes</i> New Hartford, CT - USA <b>1-800-800-6445</b></p>	<p><b>Couplings</b></p> <p><b>Ameridrives Couplings</b> <i>Mill Spindles, Ameriflex, Ameridisc</i> Erie, PA - USA <b>1-814-480-5000</b></p> <p><i>Gear Couplings</i> San Marcos, TX - USA <b>1-800-458-0887</b></p> <p><b>Bibby Turboflex</b> <i>Disc, Gear, Grid Couplings, Overload Clutches</i> Dewsbury, England <b>+44 (0) 1924 460801</b> Boksburg, South Africa <b>+27 11 918 4270</b></p> <p><b>TB Wood's</b> <i>Elastomeric Couplings</i> Chambersburg, PA - USA <b>1-888-829-6637</b> – Press #5 <i>For application assistance: 1-888-829-6637 – Press #7</i></p> <p><i>General Purpose Disc Couplings</i> San Marcos, TX - USA <b>1-888-449-9439</b></p> <p><b>Ameridrives Power Transmission</b> <i>Universal Joints, Drive Shafts, Mill Gear Couplings</i> Green Bay, WI - USA <b>1-920-593-2444</b></p> <p><b>Huco Dynatork</b> <i>Precision Couplings and Air Motors</i> Hertford, England <b>+44 (0) 1992 501900</b> Chambersburg, PA - USA <b>1-888-829-6637</b></p> <p><b>Lamiflex Couplings</b> <i>Flexible Couplings, Bearing Isolators, and Coupling Guards</i> São Paulo, SP - Brasil <b>+55-11-5679-6533</b></p>	<p><b>Heavy Duty Clutches and Brakes</b></p> <p><b>Wichita Clutch</b> <i>Pneumatic Clutches and Brakes</i> Wichita Falls, TX - USA <b>1-800-964-3262</b> Bedford, England <b>+44 (0) 1234 350311</b></p> <p><b>Twiflex Limited</b> <i>Caliper Brakes and Thrusters</i> Twickenham, England <b>+44 (0) 20 8894 1161</b></p> <p><b>Industrial Clutch</b> <i>Pneumatic and Oil Immersed Clutches and Brakes</i> Waukesha, WI - USA <b>1-262-547-3357</b></p> <p><b>Gearing</b></p> <p><b>Boston Gear</b> <i>Enclosed and Open Gearing, Electrical and Mechanical P.T. Components</i> Charlotte, NC - USA <b>1-800-825-6544</b> <i>For application assistance: 1-800-816-5608</i></p> <p><b>Bauer Gear Motor</b> <i>Gearred Motors</i> Esslingen, Germany <b>+49 (711) 3518 0</b> Somerset, NJ - USA <b>1-732-469-8770</b></p> <p><b>Nuttall Gear and Delroyd Worm Gear</b> <i>Worm Gear and Helical Speed Reducers</i> Niagara Falls, NY - USA <b>1-716-298-4100</b></p>	<p><b>Overrunning Clutches</b></p> <p><b>Formsprag Clutch</b> <i>Overrunning Clutches and Holdbacks</i> Warren, MI - USA <b>1-800-348-0881</b> – Press #1 <i>For application assistance: 1-800-348-0881 – Press #2</i></p> <p><b>Marland Clutch</b> <i>Roller Ramp and Sprag Type Overrunning Clutches and Backstops</i> South Beloit, IL - USA <b>1-800-216-3515</b></p> <p><b>Stieber Clutch</b> <i>Overrunning Clutches and Holdbacks</i> Heidelberg, Germany <b>+49 (0) 6221 30 47 0</b></p> <p><b>Belted Drives and Sheaves</b></p> <p><b>TB Wood's</b> <i>Belted Drives</i> Chambersburg, PA - USA <b>1-888-829-6637</b> – Press #5 <i>For application assistance: 1-888-829-6637 – Press #7</i></p> <p><b>Engineered Bearing Assemblies</b></p> <p><b>Kilian Manufacturing</b> <i>Engineered Bearing Assemblies</i> Syracuse, NY - USA <b>1-315-432-0700</b></p> <p><i>For information concerning our sales offices in Asia Pacific check our website <a href="http://www.altramotion.com.cn">www.altramotion.com.cn</a></i></p>
<p><b>Linear Products</b></p> <p><b>Warner Linear</b> <i>Linear Actuators</i> Belvidere, IL - USA <b>1-800-825-6544</b> <i>For application assistance: 1-800-825-9050</i></p> <p>St Barthelemy d'Anjou, France <b>+33 (0) 2 41 21 24 24</b></p>			



[www.bibbyturboflex.com](http://www.bibbyturboflex.com)

Cannon Way, Dewsbury  
West Yorkshire, WF13 1EH – United Kingdom  
+ 44(0) 1924 460801  
Fax: + 44(0) 1924 457668



**S.I.T., S.A.**  
**Pº Ubarburu, 67 - 20014 San Sebastián**  
**Tfno. 943 457200 | Fax 943 463356**  
**[www.sitsa.es](http://www.sitsa.es) | [atencioncliente@sitsa.es](mailto:atencioncliente@sitsa.es)**

06\_01\_02