

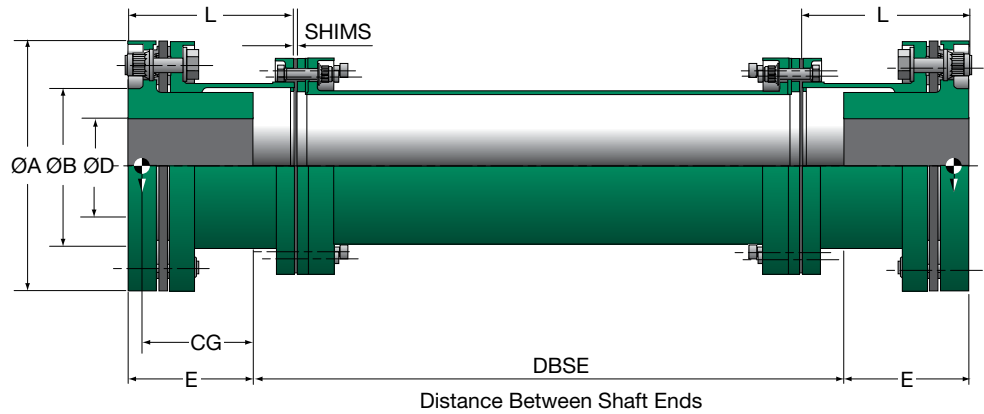
**8000/6000  
Series  
High  
Performance  
Couplings  
For High Speed  
Applications**



## 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 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
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

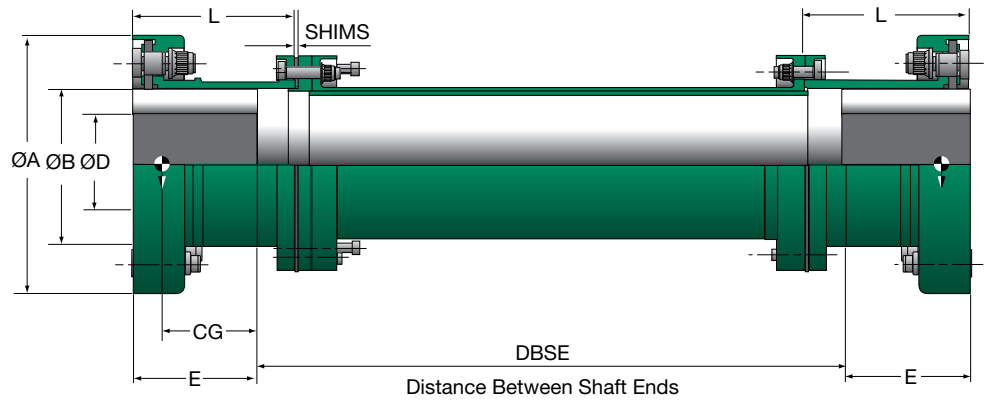
- ① Stated ratings are in accordance with API 671 (Ed'n 3) definition.
- ② In accordance with API 671, a minimum service factor of 1.5 is recommended.
- ③ API 671 defined peak torque capacity is 1.33 x continuous rating.
- ④ API 671 defined momentary capacity (or SCT) is 1.9 x continuous rating.
- ⑤ 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

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