

# UltraFLEXX Engineering Data - English

Size	Max Cont Torque (in-lb)	B Max Bore (in)	Max HP/1000 RPM	Max RPM	Total Coupling Weight (lbs)	Total WR2 (lb-in <sup>2</sup> )	Coupling Axial Travel +/- (in)	Axial Spring Rate (lb/.001 in)	Angular Misalign. per end +/- (deg)	Angular Spring Rate per end (in-lb/deg)	Torsional Stiffness (in-lb/rad) x 106	Spacer Tube Torsional Stiffness (in-lb/rad/in) x 106	Spacer Tube weight (lbs/in)	Spacer Tube WR2 (lb-in <sup>2</sup> /in)	A Coupling Outer Dia. (in)	C Std. Dist. Between Shaft Ends (in)	C Min. Dist. Between Shaft Ends (in)	D Std Hub Length (in)
100	4,260	2.500	68	22,000	11.4	24.2	0.090	0.193	0.5	14.7	0.41	3.76	0.18	0.10	4.333	5.00	3.50	2.50
125	7,280	2.875	116	18,000	18.8	57.2	0.100	0.147	0.5	17.0	0.72	8.13	0.23	0.21	5.192	7.00	3.75	2.75
162	17,800	4.000	282	15,000	42.7	235.8	0.125	0.136	0.5	26.1	1.89	25.1	0.47	0.64	6.831	7.00	4.75	3.75
200	34,200	4.750	543	13,000	69.3	486.7	0.160	0.113	0.5	31.6	3.63	58.3	0.76	1.50	7.908	8.00	5.50	4.50
250	62,400	5.875	990	11,000	130	1,292	0.210	0.125	0.5	43.8	6.05	112	1.7	2.88	9.434	10.00	6.50	5.38
312	124,500	7.500	1,975	10,000	192	2,575	0.270	0.629	0.5	371	18.5	350	1.6	9.0	10.767	10.00	6.50	5.50
400	263,500	9.000	4,181	9,000	396	9,754	0.350	0.458	0.5	439	37.6	940	2.7	24.1	14.397	12.00	9.75	8.63
500	670,800	10.875	10,643	8,000	829	30,578	0.450	0.387	0.5	671	90.9	3,240	5.1	83	18.123	14.00	13.00	11.88
630	832,800	12.00	13,214	7,500	1,580	48,000	0.500	0.30	0.5	740	170	7,000	8.0	180	21.90	16.00	15.00	14.0
800	1,656,000	14.00	26,276	6,000	2,900	190,000	0.562	0.20	0.5	880	340	16,000	14	410	27.50	18.00	18.00	16.0
1000	3,284,400	16.0	52,113	4,700	5,600	550,000	0.625	0.80	0.5	1,240	670	40,000	22	880	35.80	N/A	24.00	18.0
1250	6,416,400	19.0	101,809	3,800	9,800	960,000	0.688	0.70	0.5	1,520	1300	90,000	36	1,900	44.00	N/A	24.00	20.0
1620	12,931,200	22.0	205,179	2,900	16,000	3.8E+06	0.750	0.60	0.5	1,800	2500	210,000	58	4,200	56.00	N/A	36.00	22.0
2000	26,604,000	26.0	422,125	2,400	28,000	1.1E+07	0.812	1.00	0.5	2,400	5000	500,000	84	8,600	72.00	N/A	36.00	24.0
2500	51,324,000	30.0	814,356	1,900	52,000	1.9E+07	0.875	0.90	0.5	3,200	10000	1.20E+06	140	17,000	88.00	N/A	36.00	26.0

Weight and inertia are given for typical bore and std BSE

Sizes larger than 500 are application specific; numbers listed are estimates

Values given are subject to change

### Materials

- Hubs - 400 series or equivalent alloy steel heat treated to 130,000 PSI UTS minimum
- Hub Rings, sleeves - 1018, 1026 carbon steel or 4000 series alloy. Diaphragms - 17-7 PH, 301 full hard.
- Bolts - AISI 4140, 4340, 6150, 8740 alloy steel heat treated to grade 8 min. Locknuts - Grade C min.
- Special materials available such as Stainless, Inconel, Beryllium copper, Titanium, Monel

