

UltraFLEXX Engineering Data - Metric

Size	Max Cont Torque (N-m)	B Max Bore	Max KW/1000 RPM	Max RPM	Total Coupling Mass (kg)	Total WR2 (kg-m ²)	Coupling Axial Travel +/- (mm)	Axial Spring Rate (N/mm)	Angular Misalign. per end +/- (deg)	Angular Spring Rate per end (N-m/deg)	Torsional Stiffness (N-m/rad) x 106	Spacer Tube Torsional Stiffness (N-m/rad/mm) x 106	Spacer Tube Mass (kg/mm)	Spacer Tube WR2 (kg-m ² /mm) x 10 ⁻⁶	A Coupling Outer Dia. (mm)	C Std. Dist. Between Shaft Ends (mm)	C Min. Dist. Between Shaft Ends (mm)	D Std Hub Length (mm)
100	481	63.5	51	22,000	5.2	0.007	2.29	0.034	0.5	1.7	0.046	0.017	0.0032	1.11	110.1	127.0	88.9	63.5
125	823	73.0	87	18,000	8.5	0.017	2.54	0.026	0.5	1.9	0.081	0.036	0.0041	2.41	131.9	177.8	95.3	69.9
162	2,011	101.6	210	15,000	19.4	0.069	3.18	0.024	0.5	2.9	0.214	0.112	0.0084	7.42	173.5	177.8	120.7	95.3
200	3,864	120.7	405	13,000	31.4	0.142	4.06	0.020	0.5	3.6	0.410	0.261	0.014	17.28	200.9	203.2	139.7	114.3
250	7,050	149.2	738	11,000	59.0	0.378	5.33	0.022	0.5	4.9	0.684	0.502	0.030	33.18	239.6	254.0	165.1	136.5
312	14,067	190.5	1,473	10,000	87.1	0.754	6.86	0.110	0.5	41.9	2.09	1.57	0.029	103.8	273.5	254.0	165.1	139.7
400	29,772	228.6	3,118	9,000	180	2.85	8.89	0.080	0.5	49.6	4.25	4.22	0.048	278.1	365.7	304.8	247.7	219.1
500	75,790	276.2	7,936	8,000	376	8.95	11.43	0.068	0.5	75.8	10.27	14.52	0.091	960.3	460.3	355.6	330.2	301.6
630	94,094	305	9,854	7,500	717	14.0	12.7	0.05	0.5	84	19.2	31.38	0.14	2,074	556	406.4	381	356
800	187,103	356	19,594	6,000	1,315	55.6	14.3	0.04	0.5	99	38.4	71.7	0.25	4,724	699	457.2	457	406
1000	371,087	406	38,861	4,700	2,540	161.0	15.9	0.14	0.5	140	75.7	179.3	0.39	10,139	909	N/A	610	457
1250	724,956	483	75,919	3,800	4,445	280.9	17.5	0.12	0.5	172	146.9	403.4	0.64	21,890	1,118	N/A	610	508
1620	1,461,029	559	153,002	2,900	7,257	1,112	19.1	0.11	0.5	203	282.5	941.3	1.04	48,389	1,422	N/A	914	559
2000	3,005,848	660	314,779	2,400	12,701	3,219	20.6	0.18	0.5	271	564.9	2,241	1.50	99,083	1,829	N/A	914	610
2500	5,798,833	762	607,265	1,900	23,587	5,619	22.2	0.16	0.5	362	1,130	5,379	2.50	195,861	2,235	N/A	914	660

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 896 MPa 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

