WD Series Bellows Drive Shaft Coupling

Major Features

- Bellows drive shaft coupling with split hubs.
- Customized lengths up to 20 feet.
- High speeds, very low inertia.
- Compensation of high radial loads for prevention of premature bearing failure.

Material

- Aluminum hubs (size 50-400)
- Steel hubs (size 800-1600)
- Stainless steel bellow; aluminum tubing

Technical data/Dimensions

Size WD	Nominal Torque	Torsional Resistance at 1.0 m	Moment of Inertia at 1.0 m	Max. Angular Misalignment	Mass at 1.0 m	Screw Size	Torque to Tighten Screws	Outer Diameter	Bore Range min.	Bore Range max.
	Nm (lb-in)	Nm/arcmin (lb-ft/Deg)	10^{-3}kgm^2 (lb-in^2)	Degrees	kg (lbs)		Nm (lb-in)	mm (inch)	mm (inch)	mm (inch)
WD-50	50	1.5	0.9	1.1	1.9	2x M8	35	58	9	25
	(443)	(66)	(3.07)		(4.2)		(310)	(2.244)	(0.354)	(0.984)
WD-100	100	2.7	1.7	1.1	2.5	2x M10	65	75	12.5	35
	(886)	(120)	(5.8)		(5.5)		(576)	(2.756)	(0.492)	(1.378)
WD-200	200	5.8	5.4	1	4.3	2x M12	115	89	19	42
	(1772)	(257)	(18.4)		(9.5)		(1019)	(3.268)	(0.748)	(1.654)
WD-400	400	18	12	0.9	7	2x M14	185	109	24	55
	(3543)	(797)	(40.7)		(15.4)		(1639)	(4.016)	(0.945)	(2.165)
WD-800	800	25	29	0.8	15	4x M12	115	123	24	65
	(7086)	(1106)	(98.3)		(33)		(1019)	(4.843)	(0.945)	(2.559)
WD-1600	1600	64	112	0.8	33	4x M16	290	158	35	85
	(14172)	(2832)	(379.7)		(73)		(2569)	(6.22)	(1.378)	(3.346)

Coupling must be selected so nominal torque is higher than highest operational torque of the application (i.e., during acceleration).
Bore diameters smaller than the minimum are possible but reliable transmission of nominal torque cannot be guaranteed.