

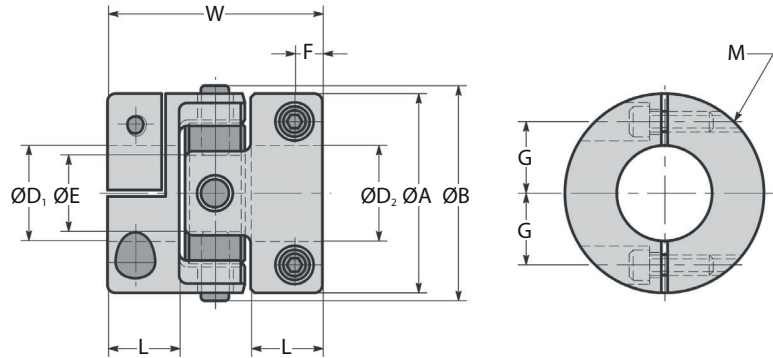
XUT

COUPLINGS

XUT

Cross Joint Type Flexible Coupling

Backlash Free, Cap Screw Fixing : 0.3 - 12Nm, 3 - 20mm Bores



Part Number	Max Rotational Frequency (min ⁻¹)	Moment of Inertia [†] kg·m ²	Static Torsional Stiffness Nm/rad	Max. Parallel Offset (mm)	Max. Working Angle	Mass [†] g
XUT-15C	42,000	2.3 x 10 ⁻⁷	200	0.2	1°	8
XUT-20C	31,000	8.1 x 10 ⁻⁷	400	0.2	1°	16
XUT-25C	25,000	2.7 x 10 ⁻⁶	900	0.2	1°	33
XUT-30C	21,000	6.2 x 10 ⁻⁶	1,300	0.2	1°	53
XUT-35C	18,000	1.3 x 10 ⁻⁵	2,200	0.2	1°	81
XUT-40C	15,000	2.6 x 10 ⁻⁵	2,300	0.2	1°	120

† Based on maximum bore dimensions.

Part Number	Standard Bores ØD ₁ , ØD ₂	Max Bores ØD ₁ , ØD ₂	A	B	L	W	E	F	G	M	Wrench Torque Nm	Rated ‡ Torque Nm	Max ‡ Torque Nm
XUT-15C	3 x 3	6	15	16	6	18	4	2.5	5.2	M2	0.5	0.3	0.6
XUT-20C	4 x 4	8	20	22	7	20	7	2.7	6.5	M2	0.5	0.6	1.2
XUT-25C	5 x 5	12	25	27	9	27	10	3.5	9	M2.5	1	1.2	2.4
XUT-30C	6 x 6	14	30	32	9.5	30	10	4		M3	1.5	2.4	4.8
XUT-35C	8 x 8	16	35	37		35	13	5		M4	2.5	4	8
XUT-40C	10 x 10	20	40	42		40	15	5.5	15	M4	2.5	6	12

‡ Adjustment of rated and maximum torque specifications for load fluctuations not required.

Materials

Hub: Aluminium A2017
 Spacer: Stainless Steel SUS304.
 Bearing Pin: Hardened Steel SUJ2.
 Bush: Abrasion resistant polyimide.
 Cap Screw: Steel SCM435 Black Oxide Coating.

Extras

Anodized hub coating. Stainless Steel Capscrews. Bore and keyway modifications available on request.

Other Info

This product replaces the former MCT Cross-joint coupling range. Identical clockwise and counter-clockwise rotational characteristics. Recommended tolerance for shaft diameters is h6 and h7. Small eccentric reaction force reduces shaft and bearing load. High torque, high static torsional stiffness, high response, high vibration absorption. Slippage between the bush and pin allows for parallel and angular misalignments. Minimised load on shaft caused by misalignments. Low backlash through high precision fit of pin and bush maintained for a long time. Minimal change in static torsional stiffness caused by temperature but high temperatures may cause misalignment due to shaft distortion or elongation by thermal expansion.

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