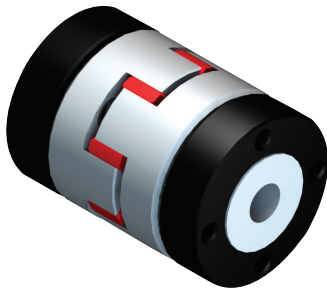


► ESM-A SERIES ELASTOMER COUPLING



Major Features

- High speed capability.
- Backlash free shaft couplings for small and medium torque values.
- Star-shaped elastomer element with involute tooth profile and high shore hardness ensures zero backlash over life of product.
- Elastomer spider compensates for small shaft misalignments.

Material

- Aluminum hubs and polyurethane 72 Shore D and 98 Shore A spider
- Steel clamping ring

Technical data/Dimensions

Size ESM-A	Nominal Torque	Elastomer Hardness Shore	Moment of Inertia Aluminum Version	Torsion Resistance	Max. Lateral Misalignment	Mass Aluminum Version	Screw Size	Torque to Tighten Screws	Outer Diameter	Length	Bore Range	
	Nm (lb-in)		10 ⁻³ kgm ² (lb-in ²)	Nm/arcmin (lb-ft/Deg)	mm (inch)	kg (lbs)		Nm (lb-in)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
ESM-A-10	10 (89)	98 Sh-A	0.015 (0.05)	0.04 (1.8)	0.1 (0.004)	0.11 (0.24)	4xM3	1.8 (16)	32 (1.26)	50 (1.969)	6 (0.236)	14 (0.551)
ESM-A-17	17 (150)	98 Sh-A	.05 (0.2)	0.24 (10.6)	0.1 (0.004)	0.28 (0.62)	6xM4	4 (35)	40 (1.575)	66 (2.598)	9 (0.354)	19 (0.748)
ESM-A-25	25 (221)	72 Sh-D	0.06 (0.2)	0.35 (15.4)	0.07 (0.003)	0.28 (0.62)	6xM4	4 (35)	40 (1.575)	66 (2.598)	10 (0.394)	19 (0.748)
ESM-A-43	43 (381)	98 Sh-A	0.19 (0.65)	0.4 (18)	0.1 (0.004)	0.4 (0.88)	4xM5	8 (71)	50 (1.969)	78 (3.071)	12 (0.472)	24 (0.945)
ESM-A-50	50 (443)	72 Sh-D	0.19 (0.65)	0.58 (25.7)	0.07 (0.003)	0.4 (0.88)	4xM5	8 (71)	50 (1.969)	78 (3.071)	15 (0.591)	24 (0.945)
ESM-A-60	60 (531)	98 Sh-A	0.28 (0.95)	0.6 (27)	0.1 (0.004)	0.6 (1.32)	4xM5	8 (71)	55 (2.165)	78 (3.071)	12 (0.472)	25 (0.984)
ESM-A-90	90 (797)	72 Sh-D	0.28 (0.95)	0.9 (39.9)	0.07 (0.003)	0.6 (1.32)	4xM5	8 (71)	55 (2.165)	78 (3.071)	16 (0.63)	25 (0.984)
ESM-A-150	150 (1328)	98 Sh-A	0.65 (2.22)	1.05 (46.3)	0.1 (0.004)	0.9 (1.98)	8xM5	8 (71)	65 (2.559)	90 (3.543)	17 (0.669)	35 (1.378)
ESM-A-200	200 (1770)	72 Sh-D	0.65 (2.22)	1.52 (67.2)	0.07 (0.003)	0.9 (1.98)	8xM5	8 (71)	65 (2.559)	90 (3.543)	19 (0.748)	35 (1.378)
ESM-A-320	320 (2832)	98 Sh-A	2 (6.82)	2 (88.5)	0.12 (0.005)	1.9 (4.19)	4xM8	35 (310)	80 (3.15)	114 (4.488)	20 (0.787)	40 (1.575)
ESM-A-400	400 (3540)	72 Sh-D	2 (6.82)	2.85 (126.1)	0.1 (0.004)	1.9 (4.19)	4xM8	35 (310)	80 (3.15)	114 (4.488)	25 (0.984)	40 (1.575)
ESM-A-500	500 (4425)	98 Sh-A	5.6 (19.1)	5.8 (256.8)	0.15 (0.006)	4.5 (9.92)	4xM10	67 (593)	100 (3.937)	138 (5.433)	22 (0.866)	48 (1.89)
ESM-A-700	700 (6196)	98 Sh-A	13 (44.33)	8 (354)	0.15 (0.006)	7 (15.43)	4xM12	115 (1018)	120 (4.724)	155 (6.102)	25 (0.984)	60 (2.362)
ESM-A-1000	1000 (8851)	72 Sh-D	13 (44.33)	12 (531)	0.1 (0.004)	7 (15.43)	4xM12	115 (1018)	120 (4.724)	155 (6.102)	25 (0.984)	60 (2.362)
ESM-A 2000	2000 (17702)	98 Sh-A	75 (256.29)	21 (930)	0.15 (0.006)	20.4 (44.97)	M12	115 (1018)	160 (6.299)	186 (7.323)	35 (1.378)	85 (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.