



▶ EKM SERIES ELASTOMER COUPLING



Major Features

- Easy-to-mount radial clamping hubs.
- Star-shaped elastomer element with involute tooth profile and high shore hardness ensures zero backlash over life of product.
- Electronically insulating and dampens oscillation resonance.
- Elastomer spider compensates for small shaft misalignments.
- Same day delivery available.

Material

- Aluminum hubs; polyurethane 72 Shore D spider
- Aluminum hubs; polyurethane 98 Shore A spider

Technical data/Dimensions

Size EKM	Nominal Torque	Elastomer Hardness Shore	Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass	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)
MEKM-2	2	98 Sh-A	0.000	0.002	0.1	0.006	M3	0.7	14	22	3, 4 or 5 mm	
	(18)		(0.001)	(0.09)	(0.004)	(0.01)		(0.6)	(0.55)	(0.87)		
MEKM-5	5	98 Sh-A	0.001	0.004	0.1	0.019	M3	0.7	20	30	5, 6, 8 mm or .250"	
	(44)		(0.003)	(0.18)	(0.004)	(0.04)		(0.6)	(0.79)	(1.18)		
MEKM-7	7	98 Sh-A	0.006	0.013	0.1	0.05	M4	1.7	30	35	8, 10, 12 mm or .375"	
	(62)		(0.021)	(0.58)	(0.004)	(0.11)		(15)	(1.18)	(1.38)		
EKM-8	8	98 Sh-A	0.01	0.04	0.1	0.06	M4	4	32	40	8	15
	(71)		(0.03)	(2.1)	(0.004)	(0.13)		(35)	(1.26)	(1.575)	(0.315)	(0.591)
EKM-15	15	98 Sh-A	0.03	0.24	0.1	0.12	M5	8	40	50	10	19
	(133)		(0.1)	(10.6)	(0.004)	(0.3)		(71)	(1.575)	(1.969)	(0.394)	(0.748)
EKM-20	20	72 Sh-D	0.03	0.34	0.07	0.12	M5	8	40	50	12	19
	(177)		(0.1)	(15.4)	(0.003)	(0.3)		(71)	(1.575)	(1.969)	(0.472)	(0.748)
EKM-30	30	98 Sh-A	0.09	0.41	0.1	0.21	M6/M5	14	50	58	13	26/30
	(266)		(0.31)	(18)	(0.004)	(0.5)		(124)	(1.969)	(2.283)	(0.512)	(1.024)/(1.811)
EKM-45	45	72 Sh-D	0.09	0.58	0.07	0.21	M6	14	50	58	18	26
	(399)		(0.31)	(25.7)	(0.003)	(0.5)		(124)	(1.969)	(2.283)	(0.709)	(1.024)
EKM-60	60	98 Sh-A	0.18	0.61	0.1	0.32	M8	35	60	62	15	29
	(531)		(0.61)	(27)	(0.004)	(0.7)		(310)	(2.362)	(2.441)	(0.591)	(1.142)
EKM-90	90	72 Sh-D	0.18	0.9	0.07	0.32	M8/M6	35	60	62	20	29/32
	(797)		(0.61)	(39.9)	(0.003)	(0.7)		(310)	(2.362)	(2.441)	(0.787)	(1.142)/(1.259)
EKM-150	150	98 Sh-A	0.38	1.05	0.1	0.52	M8/M10	35/67	70	73	22/30	33/38
	(1329)		(1.3)	(46.5)	(0.004)	(1.1)		(309)/(593)	(2.756)	(2.874)	(0.866)/(1.181)	(1.299)/(1.496)
EKM-200	200	72 Sh-D	0.38	1.5	0.07	0.52	M10/M8	67	70	73	26	33/38
	(1772)		(1.3)	(66.9)	(0.003)	(1.1)		(593)	(2.756)	(2.874)	(1.024)	(1.299)/(1.496)
EKM-300	300	98 Sh-A	1	2	0.12	0.9	M10/M12	67/115	85	86	30/38	42/46
	(2657)		(3.41)	(88.5)	(0.005)	(2)		(593)/(1019)	(3.346)	(3.386)	(1.181)/(1.496)	(1.654)/(1.811)
EKM-400	400	72 Sh-D	1	2.85	0.1	0.9	M12/M10	115	85	86	35	42/46
	(3543)		(3.41)	(126.1)	(0.004)	(2)		(1019)	(3.346)	(3.386)	(1.378)	(1.654)/(1.811)

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► EKM SERIES ELASTOMER COUPLING (CONT.)



Technical data/Dimensions, continued

Size EKM	Nominal Torque	Elastomer Hardness Shore	Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass kg (lbs)	Screw Size	Torque to Tighten Screws	Outer Diameter mm (inch)	Length mm (inch)	Bore Range	
	Nm (lb-in)		10^{-3}kgm^2 (lb-in ²)	Nm/arcmin (lb-ft/Deg)	mm (inch)			Nm (lb-in)			mm (inch)	mm (inch)
EKM-500	500 (4429)	98 Sh-A	2.2 (7.5)	5.8 (257.4)	0.15 (0.006)	1.5 (3.3)	M12	115 (1019)	100 (3.937)	94 (3.701)	38 (1.496)	56 (2.205)
EKM-700	700 (6200)	98 Sh-A	5.2 (17.73)	8 (354.00)	0.15 (0.006)	2.5 (5.5)	M14	185 (1639)	120 (4.724)	109 (4.291)	40 (1.575)	70 (2.756)
EKM-1000	1000 (8851)	72 Sh-D	5.2 (17.73)	12 (531)	0.1 (0.004)	2.5 (5.5)	M14	185 (1639)	120 (4.724)	109 (4.291)	48 (1.89)	70 (2.756)

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.

► EKZ SERIES ELASTOMER/DRIVE SHAFT COUPLING



Major Features

- Special design makes “one person assembly” possible, even with an extremely long intermediate pipe.
- During maintenance, can be exchanged without disassembling the drive or output units.
- Elastomer spider compensates for small shaft misalignments.
- Electronically insulating and dampens oscillation resonance.
- The frictional shaft-hub connection is backlash free and ensures a safe torque transfer without keyways.

Material

- Aluminum shaft and hubs; polyurethane 72 Shore D spider

Technical data/Dimensions

Size EKZ	Nominal Torque	Moment of Inertia at 1.0 m	Torsional Stiffness at 1.0 m	Mass at 1.0 m	Screw Size	Torque to Tighten Screws	Outer Diameter mm (inch)	Minimum Length mm (inch)	Bore Range	
	Nm (lb-in)	10^{-3}kgm^2 (lb-in ²)	Nm/arcmin (lb-ft/Deg)	kg (lbs)		Nm (lb-in)			mm (inch)	mm (inch)
EKZ-20	20 (177)	0.1 (0.34)	.07 (3.1)	0.8 (1.8)	M5	8 (71)	40 (1.575)	132 (5.197)	10 (0.394)	19 (0.748)
EKZ-45	45 (399)	0.36 (1.22)	.19 (8.4)	1.6 (3.5)	M6	14 (124)	50 (1.969)	152 (5.984)	13 (0.512)	26 (1.024)
EKZ-90	90 (797)	0.54 (1.83)	0.23 (10.2)	1.9 (4.2)	M8	35 (310)	60 (2.362)	160 (6.299)	15 (0.591)	29 (1.142)
EKZ-200	200 (1772)	1.1 (3.73)	0.4 (17.7)	2.5 (5.5)	M10	67 (593)	70 (2.756)	186 (7.323)	22 (0.866)	33 (1.299)
EKZ-400	400 (3543)	3.2 (10.9)	1.0 (44.3)	3.9 (8.6)	M12	115 (1019)	85 (3.346)	220 (8.661)	30 (1.181)	42 (1.654)
EKZ-700	700 (6200)	12.5 (42.4)	2.5 (110.6)	8.1 (17.8)	M14	185 (1639)	120 (4.724)	284 (11.181)	40 (1.575)	70 (2.756)

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.