



SKB-EK SERIES DIRECT DRIVE ELASTOMER SAFETY COUPLING



Major Features

- Elastomer safety coupling with radial EASY Clamp System hubs.
- Upon disengagement, coupling will re-engage automatically at only one point per revolution and retain the drive's reference point.
- 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.

Material

- Aluminum and steel hubs; elastomer spider; steel safety element

Technical data/Dimensions

Size SKB-EK	Disengagement Torque Range		Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass	Screw Size	Torque to Tighten Screws		Outer Diameter	Length	Switch- ing Distance	Bore Range øD1*		Bore Range øD2**	
	Nm (lb-in)							10 ⁻³ kgm ² (lb-in ²)	Nm/arc- min (lb-ft/ Deg)				mm (inch)	kg (lbs)	*Al Hub Nm (lb-in)	**Steel Hub Nm (lb-in)
SKB-EK-6	2	6	0.13	0.24	0.1	0.44	M5	8	10	52.5	77	0.9	8	20	7	16
	(18)	(53)	(0.44)	(10.6)	(0.004)	(1)		(71)	(89)	(2.067)	(3.031)	(0.035)	(0.315)	(0.787)	(0.276)	(0.63)
SKB-EK-12	6	12	0.13	0.24	0.1	0.44	M5	8	10	52.5	77	0.9	8	20	11	16
	(53)	(106)	(0.44)	(10.6)	(0.004)	(1)		(71)	(89)	(2.067)	(3.031)	(0.035)	(0.315)	(0.787)	(0.433)	(0.63)
SKB-EK-15	8	15	0.5	0.61	0.1	1	M6	14	18	69	91.5	1.2	12	32	11	25.4
	(71)	(133)	(1.71)	(27)	(0.004)	(2.2)		(124)	(159)	(2.717)	(3.602)	(0.047)	(0.472)	(1.26)	(0.433)	(1)
SKB-EK-30	13	30	0.5	0.61	0.1	1	M6	14	18	69	91.5	1.2	12	32	15	25.4
	(115)	(266)	(1.71)	(27)	(0.004)	(2.2)		(124)	(159)	(2.717)	(3.602)	(0.047)	(0.472)	(1.26)	(0.591)	(1)
SKB-EK-45	22	45	0.5	0.61	0.1	1	M6	14	18	69	91.5	1.2	14	32	18	25.4
	(195)	(398)	(1.71)	(27)	(0.004)	(2.2)		(124)	(159)	(2.717)	(3.602)	(0.047)	(0.551)	(1.26)	(0.709)	(1)
SKB-EK-60	25	60	1.5	1.05	0.1	2	M8	35	40	88	107	1.6	16	33	18	35
	(221)	(531)	(5.08)	(46.5)	(0.004)	(4.4)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.63)	(1.299)	(0.709)	(1.378)
SKB-EK-100	40	100	1.5	1.05	0.1	2	M8	35	40	88	107	1.6	19	33	22	35
	(354)	(885)	(5.08)	(46.5)	(0.004)	(4.4)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.748)	(1.299)	(0.866)	(1.378)
SKB-EK-150	60	150	1.5	1.05	0.1	2	M8	35	40	88	107	1.6	22	33	26	35
	(531)	(1328)	(5.08)	(46.5)	(0.004)	(4.4)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.866)	(1.299)	(1.024)	(1.378)
SKB-EK-230	80	230	5.6	2	0.12	4.2	M10	70	80	115	134	1.8	24	42	25	44
	(708)	(2036)	(19.14)	(88.5)	(0.005)	(9.3)		(620)	(708)	(4.528)	(5.276)	(0.071)	(0.945)	(1.654)	(0.984)	(1.732)
SKB-EK-330	130	330	5.6	2	0.12	4.2	M10	70	80	115	134	1.8	32	42	32	44
	(1151)	(2921)	(19.14)	(88.5)	(0.005)	(9.3)		(620)	(708)	(4.528)	(5.276)	(0.071)	(1.26)	(1.654)	(1.26)	(1.732)
SKB-EK-500	200	500	17	8	0.15	8.6	M14	185	220	137	167.5	2.5	30	70	35	58
	(1770)	(4425)	(58.11)	(354)	(0.006)	(19)		(1637)	(1947)	(5.394)	(6.594)	(0.098)	(1.181)	(2.756)	(1.378)	(2.283)
SKB-EK-800	350	800	17	8	0.15	8.6	M14	185	220	137	167.5	2.5	42	70	42	58
	(3098)	(7080)	(58.11)	(354)	(0.006)	(19)		(1637)	(1947)	(5.394)	(6.594)	(0.098)	(1.654)	(2.756)	(1.654)	(2.283)

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.

*Elastomer side of coupling

**Safety element

Sold & Serviced By:
ELECTROMATE

Toll Free Phone (877) SERV098
Toll Free Fax (877) SERV099
www.electromate.com
sales@electromate.com