

# SKB-KS SERIES DIRECT DRIVE BELLOWS SAFETY COUPLING



## Major Features

- Bellows safety coupling with self-centering conical hub and radial clamping hub.
- Upon disengagement, coupling will re-engage automatically at only one point per revolution and retain the drive's reference point.
- Bellow compensates for axial, lateral and angular misalignment.
- Adjustable disengagement torque.

## Material

- Stainless steel bellow; aluminum and steel hubs; steel safety element

## Technical data/Dimensions

Size SKB-KS	Disengagement Torque Range		Moment of Inertia	Torsion Resistance	Max. Lateral Misalign- ment	Mass	Screw Size	Torque to Tighten Screws		Outer Diameter	Length	Switch- ing Distance	Bore Range øD1*		Bore Range øD2**	
	Nm (lb-in)		10 <sup>-3</sup> kgm <sup>2</sup> (lb-in <sup>2</sup> )	Nm/ arcmin (lb-ft/Deg)	mm (inch)	kg (lbs)	**/**	Nm* (lb-in)	Nm** (lb-in)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)
SKB-KS-6	2	6	0.13	2.6	0.15	0.5	M4 / M5	3	10	52.5	89	0.9	6	15	7	16
	(18)	(53)	(0.44)	(115.1)	(0.006)	(1.1)		(27)	(89)	(2.067)	(3.504)	(0.035)	(0.236)	(0.591)	(0.276)	(0.63)
SKB-KS-12	6	12	0.13	2.6	0.15	0.5	M4 / M5	3	10	52.5	89	0.9	6	15	11	16
	(53)	(106)	(0.44)	(115.1)	(0.006)	(1.1)		(27)	(89)	(2.067)	(3.504)	(0.035)	(0.236)	(0.591)	(0.433)	(0.63)
SKB-KS-15	8	15	0.24	9	0.2	1.1	M4 / M6	4	18	69	86	1.2	9	19	11	25.4
	(71)	(133)	(0.82)	(398.3)	(0.008)	(2.4)		(35)	(159)	(2.717)	(3.386)	(0.047)	(0.354)	(0.748)	(0.433)	(1)
SKB-KS-30	13	30	0.24	9	0.2	1.1	M4 / M6	4	18	69	86	1.2	9	19	15	25.4
	(115)	(266)	(0.82)	(398.3)	(0.008)	(2.4)		(35)	(159)	(2.717)	(3.386)	(0.047)	(0.354)	(0.748)	(0.591)	(1)
SKB-KS-45	22	45	0.24	9	0.2	1.1	M4 / M6	4	18	69	86	1.2	10	19	18	25.4
	(195)	(399)	(0.82)	(398.3)	(0.008)	(2.4)		(35)	(159)	(2.717)	(3.386)	(0.047)	(0.394)	(0.748)	(0.709)	(1)
SKB-KS-60	25	60	1.5	20	0.2	2.1	M6 / M8	14	40	88	99	1.6	12	25	18	35
	(221)	(531)	(5.08)	(885.1)	(0.008)	(4.6)		(124)	(354)	(3.465)	(3.898)	(0.063)	(0.472)	(0.984)	(0.709)	(1.378)
SKB-KS-100	40	100	1.5	20	0.2	2.1	M6 / M8	14	40	88	99	1.6	12	25	22	35
	(354)	(886)	(5.08)	(885.1)	(0.008)	(4.6)		(124)	(354)	(3.465)	(3.898)	(0.063)	(0.472)	(0.984)	(0.866)	(1.378)
SKB-KS-150	60	150	1.5	20	0.2	2.1	M6 / M8	14	40	88	99	1.6	14	25	26	35
	(531)	(1329)	(5.08)	(885.1)	(0.008)	(4.6)		(124)	(354)	(3.465)	(3.898)	(0.063)	(0.551)	(0.984)	(1.024)	(1.378)
SKB-KS-230	80	230	5.6	28	0.2	4.4	M6 / M10	14	80	115	120	1.8	18	35	25	44
	(709)	(2037)	(19.14)	(1239.1)	(0.008)	(9.7)		(124)	(708)	(4.528)	(4.724)	(0.071)	(0.709)	(1.378)	(0.984)	(1.732)
SKB-KS-330	130	330	5.6	28	0.2	4.4	M6 / M10	14	80	115	120	1.8	22	35	32	44
	(1151)	(2923)	(19.14)	(1239.1)	(0.008)	(9.7)		(124)	(708)	(4.528)	(4.724)	(0.071)	(0.866)	(1.378)	(1.26)	(1.732)
SKB-KS-500	200	500	15	52	0.2	8	M8 / M14	34	220	137	141	2.5	26	42	35	58
	(1772)	(4429)	(51.27)	(2301.3)	(0.008)	(17.6)		(301)	(1947)	(5.394)	(5.551)	(0.098)	(1.024)	(1.654)	(1.378)	(2.283)
SKB-KS-800	350	800	17	106	0.2	9	M10 / M14	65	220	137	156	2.5	32	48	42	58
	(3100)	(7086)	(58.11)	(4691)	(0.008)	(19.8)		(575)	(1947)	(5.394)	(6.142)	(0.098)	(1.26)	(1.89)	(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.

\*Bellows side of coupling

\*\*Safety element