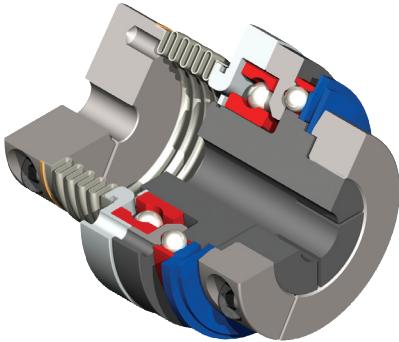


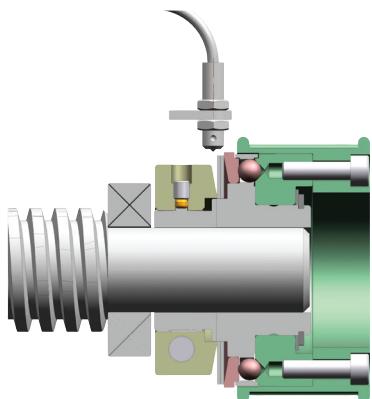


► SAFETY COUPLING OVERVIEW



Safety couplings are used to minimize expensive damage when a collision occurs in a high performance servo drive system. When a collision occurs, the safety coupling will stop the destructive inertial forces instantly and eliminate downtime and repair costs often associated when just an overload relay is used.

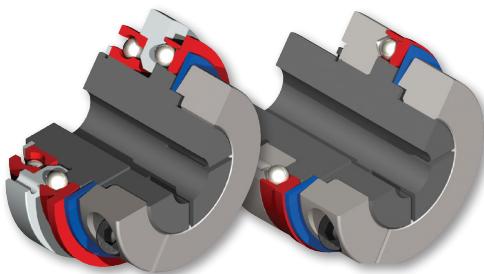
Safety couplings are spring loaded form fit couplings that transmit torque through the use of a special degressive cup spring in which the hardened and polished balls are preloaded into the spherical indentations. When an overload occurs, the hub (with its ball cage) will over twist and press the balls out of the indentations to disengage. Only the balls and cup spring move axially resulting in a very low disengagement mass. A proximity switch is used to initiate an emergency stop to shut the servo motor down.



Safety Coupling Mechanism:

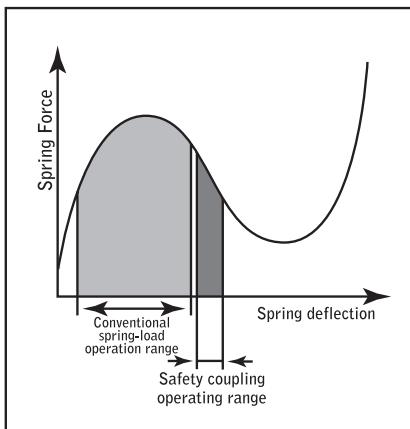
Automatic Re-engagement Versions

Re-engagement occurs at the same reference point every 360°. Versions are available that will automatically re-engage or remain disengaged until drive rotation is reversed.



Bearing Support Versions

Integrated ball bearing or sliding bearing to support the pulley. This eliminates the need for support inside the pulley and allows for a more compact overall design.



Degressive Spring Curve

Special springs were developed to operate on the diminishing side of the spring curve resulting in immediate torque drop off at activation and reduced destructive forces and damage.

Sold & Serviced By:

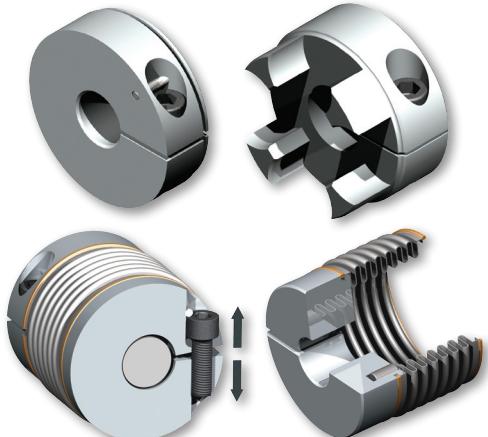
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Clamping Methods:

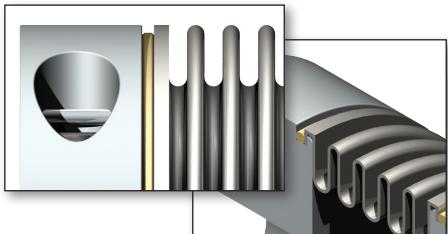
Aluminum Radial Clamping Hub • **High tensile strength, low weight aerospace aluminum provides very low inertia for better system performance.**

- New EASY Clamp System prevents damage to hubs for easy shaft mounting and dismounting while compensating for tolerance differences between shaft and hub.
- Balancing Plug is positioned at a precise angle in the hub for balanced, high speed performance.
- Precision machined involutes (not a die cast).
- Zero backlash torque transmission is guaranteed through the elimination of keyways.
- Only one clamping screw allows for fast installation.



Steel Conical Bushings (also available in aluminum versions)

- High clamping forces to insure safe transmission of torque and backlash free connection.
- Additional draw-off holes provide easy hub removal.
- Unique hub design offers shortest coupling length.



Connection Method:

Brass Wire Press-Fit Connection

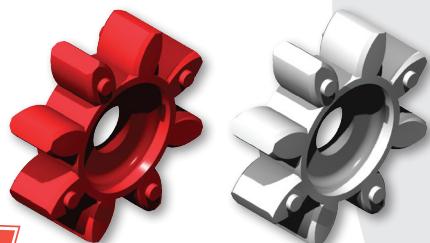
- Mechanically formed between hub and multi-layered bellow for a strong zero backlash connection.
- No glue connection insures connection in high temperature, chemical sensitive applications.



Torque Transmission Elements:

Bellows

- Guarantees a zero backlash torque transmission with extremely high torsional stiffness while maintaining flexibility for compensation of misalignment.
- Low mass moment of inertia for increased system performance.
- Maintenance free up to temperatures of 300°C (572°F).
- Depending upon torsional stiffness requirements, lateral spring rates and lengths, standard bellows are available in 2, 4 and 6 corrugations. For longer lengths, custom manufacturing is available.



Elastomers

- Elastomers vary in hardness values from 98 Shore A (red) for maximum dampening capabilities to the 72 Shore D (white) where higher stiffness is required.
- Excellent electrical insulator to prevent the transfer of electrical fields.
- Involute shaped teeth provide easy plug-in assembly for long and durable life.



► SKB-KP DIRECT DRIVE BELLows SAFETY COUPLING



Major Features

- Bellows safety coupling with radial clamping hubs.
- 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-KP	Disengagement Torque Range		Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass	Screw Size	Torque to Tighten Screws		Outer Diameter	Length	Switching Distance	Bore Range ØD1*		Bore Range ØD2**	
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	Nm/ arcmin (lb-ft/Deg)	mm (inch)				*Al Hub Nm (lb-in)	**Steel Hub Nm (lb-in)				mm (inch)	mm (inch)	mm (inch)	mm (inch)
SKB-KP-6	2	6	0.13	2.1	0.15	0.45	M5	7	10	52.5	81	0.9	6	19	6	16
	(18)	(53)	(0.44)	(93)	(0.006)	(0.99)		(62)	(89)	(2.067)	(3.189)	(0.035)	(0.236)	(0.748)	(0.236)	(0.630)
SKB-KP-12	6	12	0.13	2.1	0.15	0.45	M5	7	10	52.5	81	0.9	8	19	8	16
	(53)	(106)	(0.44)	(93)	(0.006)	(0.99)		(62)	(89)	(2.067)	(3.189)	(0.035)	(0.315)	(0.748)	(0.315)	(0.630)
SKB-KP-15	8	15	0.5	9	0.2	1	M6	14	18	69	94.5	1.2	9	30	10	25.4
	(71)	(133)	(1.71)	(399)	(0.008)	(2.20)		(124)	(159)	(2.717)	(3.720)	(0.047)	(0.354)	(1.181)	(0.394)	(1.000)
SKB-KP-30	13	30	0.5	9	0.2	1	M6	14	18	69	94.5	1.2	12	30	12	25.4
	(115)	(266)	(1.71)	(399)	(0.008)	(2.20)		(124)	(159)	(2.717)	(3.720)	(0.047)	(0.472)	(1.181)	(0.472)	(1.000)
SKB-KP-45	22	45	0.5	9	0.2	1	M6	14	18	69	94.5	1.2	16	30	14	25.4
	(195)	(398)	(1.71)	(399)	(0.008)	(2.20)		(124)	(159)	(2.717)	(3.720)	(0.047)	(0.630)	(1.181)	(0.551)	(1.000)
SKB-KP-60	25	60	1.5	20	0.2	1.9	M8	35	40	88	107	1.6	15	38	18	35
	(221)	(531)	(5.13)	(886)	(0.008)	(4.19)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.591)	(1.496)	(0.709)	(1.378)
SKB-KP-100	40	100	1.5	20	0.2	1.9	M8	35	40	88	107	1.6	20	38	18	35
	(354)	(885)	(5.13)	(886)	(0.008)	(4.19)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.787)	(1.496)	(0.709)	(1.378)
SKB-KP-150	60	150	1.5	20	0.2	1.9	M8	35	40	88	107	1.6	25	38	24	35
	(531)	(1328)	(5.13)	(886)	(0.008)	(4.19)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.984)	(1.496)	(0.945)	(1.378)
SKB-KP-230	80	230	5.5	28	0.2	3.8	M10	65	80	115	132	1.8	25	43	24	44
	(708)	(2036)	(18.79)	(1240)	(0.008)	(8.38)		(575)	(708)	(4.528)	(5.197)	(0.071)	(0.984)	(1.693)	(0.945)	(1.732)
SKB-KP-330	130	330	5.5	28	0.2	3.8	M10	65	80	115	132	1.8	32	43	32	44
	(1151)	(2921)	(18.79)	(1240)	(0.008)	(8.38)		(575)	(708)	(4.528)	(5.197)	(0.071)	(1.260)	(1.693)	(1.260)	(1.732)
SKB-KP-500	200	500	14	52	0.2	6.8	M12/M14	115	220	137	152.5	2.5	35	55	28	58
	(1770)	(4425)	(47.84)	(2303)	(0.008)	(14.99)		(1018)	(1947)	(5.394)	(6.003)	(0.098)	(1.378)	(2.165)	(1.102)	(2.283)
SKB-KP-800	350	800	16	106	0.2	7.2	M14	200	220	137	169	2.5	42	70	40	58
	(3098)	(7081)	(54.67)	(4694)	(0.008)	(15.87)		(1770)	(1947)	(5.394)	(6.654)	(0.098)	(1.654)	(2.756)	(1.575)	(2.283)
SKB-KP-1000	500	1000	80	80	0.3	20	M14/M16	185	290	181	236	3.7	50	75	42	100
	(4425)	(8851)	(273.37)	(3542)	(0.012)	(44.09)		(1637)	(2567)	(7.126)	(9.291)	(0.146)	(1.968)	(2.953)	(1.654)	(3.937)
SKB-KP-2000	800	2000	88	140	0.3	21	M16	290	290	181	239	3.7	65	85	45	100
	(7081)	(17702)	(300.71)	(6199)	(0.012)	(46.30)		(2567)	(2567)	(7.126)	(9.409)	(0.146)	(2.559)	(3.346)	(1.772)	(3.937)
Sold & Serviced By:	14-1500	3000	111	280	0.2	30	M16	290	290	181	263	3.7	60	88	60	100
Servo2Go.com	(13276)	(26552)	(379.30)	(12398)	(0.008)	(66.14)		(2567)	(2567)	(7.126)	(10.354)	(0.146)	(2.362)	(3.465)	(2.362)	(3.937)

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► SKY-KS SERIES 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

Size SKY-KS	Disengagement Torque Range		Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass	Screw Size	Torque to Tighten Screws		Outer Diameter	Length	Bore Range ØD1*		Bore Range ØD2**	
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	Nm/ arcmin (lb-ft/Deg)	mm (inch)				*/**	Nm* (lb-in)	Nm** (lb-in)		mm (inch)	mm (inch)	mm (inch)	mm (inch)
SKY-KS-6	2	6	0.12	2.1	0.15	0.5	M4/M3	3	2	52.5	80	6	16	5	11.5
	(18)	(53)	(0.41)	(93)	(0.006)	(1.10)		(27)	(18)	(2.067)	(3.150)	(0.236)	(0.630)	(0.197)	(0.453)
SKY-KS-12	6	12	0.12	2.1	0.15	0.5	M4/M3	3	2	52.5	80	6	16	5	11.5
	(53)	(106)	(0.41)	(93)	(0.006)	(1.10)		(27)	(18)	(2.067)	(3.150)	(0.236)	(0.630)	(0.197)	(0.453)
SKY-KS-15	8	15	0.44	9	0.2	0.98	M4	4	4	69	86	9	19	9	17
	(71)	(133)	(1.50)	(399)	(0.008)	(2.16)		(35)	(35)	(2.717)	(3.386)	(0.354)	(0.748)	(0.354)	(0.669)
SKY-KS-30	13	30	0.44	9	0.2	0.98	M4	4	4	69	86	9	19	9	17
	(115)	(266)	(1.50)	(399)	(0.008)	(2.16)		(35)	(35)	(2.717)	(3.386)	(0.354)	(0.748)	(0.354)	(0.669)
SKY-KS-45	22	45	0.44	9	0.2	0.98	M4	4	4	69	86	10	19	10	17
	(195)	(398)	(1.50)	(399)	(0.008)	(2.16)		(35)	(35)	(2.717)	(3.386)	(0.394)	(0.748)	(0.394)	(0.669)
SKY-KS-60	25	60	1.4	20	0.2	1.9	M6	14	14	88	99	12	24	12	24
	(221)	(531)	(4.78)	(886)	(0.008)	(4.19)		(124)	(124)	(3.465)	(3.898)	(0.472)	(0.945)	(0.472)	(0.945)
SKY-KS-100	40	100	1.4	20	0.2	1.9	M6	14	14	88	99	12	24	12	24
	(354)	(885)	(4.78)	(886)	(0.008)	(4.19)		(124)	(124)	(3.465)	(3.898)	(0.472)	(0.945)	(0.472)	(0.945)
SKY-KS-150	60	150	1.4	20	0.2	1.9	M6	14	14	88	99	14	24	14	24
	(531)	(1328)	(4.78)	(886)	(0.008)	(4.19)		(124)	(124)	(3.465)	(3.898)	(0.551)	(0.945)	(0.551)	(0.945)
SKY-KS-230	80	230	5.1	28	0.2	3.9	M6	14	14	115	117	18	35	18	35
	(708)	(2036)	(17.43)	(1240)	(0.008)	(8.60)		(124)	(124)	(4.528)	(4.606)	(0.709)	(1.378)	(0.709)	(1.378)
SKY-KS-330	130	330	5.1	28	0.2	3.9	M6	14	14	115	117	22	35	22	35
	(1151)	(2921)	(17.43)	(1240)	(0.008)	(8.60)		(124)	(124)	(4.528)	(4.606)	(0.866)	(1.378)	(0.866)	(1.378)
SKY-KS-500	200	500	12.5	52	0.2	6.7	M8	34	34	137	143	28	42	28	42
	(1770)	(4425)	(42.71)	(2303)	(0.008)	(14.77)		(301)	(301)	(5.394)	(5.630)	(1.102)	(1.654)	(1.102)	(1.654)
SKY-KS-800	350	800	14.6	106	0.2	7.7	M10/M8	65	34	137	152	30	48	30	44
	(3098)	(7081)	(49.89)	(4694)	(0.008)	(16.98)		(575)	(301)	(5.394)	(5.984)	(1.181)	(1.890)	(1.181)	(1.732)
SKY-KS-1000	500	1000	58	80	0.3	16	M10/ M12	65	115	181	208	40	60	40	62
	(4425)	(8851)	(198.19)	(3542)	(0.012)	(35.27)		(575)	(1018)	(7.126)	(8.189)	(1.575)	(2.362)	(1.575)	(2.441)
SKY-KS-2000	800	2000	69	140	0.3	18.5	M12	115	115	181	211	42	70	40	62
	(7081)	(17702)	(235.78)	(6199)	(0.012)	(40.79)		(1018)	(1018)	(7.126)	(8.307)	(1.654)	(2.756)	(1.575)	(2.441)
SKY-KS-3000	1500	3000	70.5	260	0.2	19	M12	115	115	181	211	48	70	48	62
	(13276)	(26552)	(240.91)	(11513)	(0.008)	(41.89)		(1018)	(1018)	(7.126)	(8.307)	(1.890)	(2.756)	(1.890)	(2.441)

Sold & Serviced By: **Servo2Go.com**
 Note: Nominal torque 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.

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► SKB-EK 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.
- Electrically 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	Switching Distance	Bore Range øD1*		Bore Range øD2**	
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	Nm/arcmin (lb-ft/Deg)	mm (inch)	kg (lbs)	*Al Hub Nm (lb-in)	**Steel Hub Nm (lb-in)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	mm (inch)	
SKB-EK-6	2	6	0.13	0.24	0.1	0.44	M5	8	10	52.5	77	0.9	8	20	6	16
	(18)	(53)	(0.44)	(11)	(0.004)	(0.97)		(71)	(89)	(2.067)	(3.031)	(0.035)	(0.315)	(0.787)	(0.236)	(0.630)
SKB-EK-12	6	12	0.13	0.24	0.1	0.44	M5	8	10	52.5	77	0.9	8	20	8	16
	(53)	(106)	(0.44)	(11)	(0.004)	(0.97)		(71)	(89)	(2.067)	(3.031)	(0.035)	(0.315)	(0.787)	(0.315)	(0.630)
SKB-EK-15	8	15	0.5	0.61	0.1	1	M6	14	18	69	91.5	1.2	12	32	10	25.4
	(71)	(133)	(1.71)	(27)	(0.004)	(2.20)		(124)	(159)	(2.717)	(3.602)	(0.047)	(0.472)	(1.260)	(0.394)	(1.000)
SKB-EK-30	13	30	0.5	0.61	0.1	1	M6	14	18	69	91.5	1.2	12	32	12	25.4
	(115)	(266)	(1.71)	(27)	(0.004)	(2.20)		(124)	(159)	(2.717)	(3.602)	(0.047)	(0.472)	(1.260)	(0.472)	(1.000)
SKB-EK-45	22	45	0.5	0.61	0.1	1	M6	14	18	69	91.5	1.2	14	32	14	25.4
	(195)	(398)	(1.71)	(27)	(0.004)	(2.20)		(124)	(159)	(2.717)	(3.602)	(0.047)	(0.551)	(1.260)	(0.551)	(1.000)
SKB-EK-60	25	60	1.5	1.05	0.1	2	M8	35	40	88	107	1.6	16	38	18	35
	(221)	(531)	(5.13)	(46)	(0.004)	(4.41)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.630)	(1.496)	(0.709)	(1.378)
SKB-EK-100	40	100	1.5	1.05	0.1	2	M8	35	40	88	107	1.6	19	38	18	35
	(354)	(885)	(5.13)	(46)	(0.004)	(4.41)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.748)	(1.496)	(0.709)	(1.378)
SKB-EK-150	60	150	1.5	1.05	0.1	2	M8	35	40	88	107	1.6	22	38	24	35
	(531)	(1328)	(5.13)	(46)	(0.004)	(4.41)		(310)	(354)	(3.465)	(4.213)	(0.063)	(0.866)	(1.496)	(0.945)	(1.378)
SKB-EK-230	80	230	5.6	2	0.12	4.2	M12/M10	115	80	115	134	1.8	24	43	24	42
	(708)	(2036)	(19.14)	(89)	(0.005)	(9.26)		(1018)	(708)	(4.528)	(5.276)	(0.071)	(0.945)	(1.693)	(0.945)	(1.654)
SKB-EK-330	130	330	5.6	2	0.12	4.2	M12/M10	115	80	115	134	1.8	32	43	32	42
	(1151)	(2921)	(19.14)	(89)	(0.005)	(9.26)		(1018)	(708)	(4.528)	(5.276)	(0.071)	(1.260)	(1.693)	(1.260)	(1.654)
SKB-EK-500	200	500	17	8	0.15	8.6	M14	185	220	137	167.5	2.5	30	70	28	58
	(1770)	(4425)	(58.09)	(354)	(0.006)	(18.96)		(1637)	(1947)	(5.394)	(6.594)	(0.098)	(1.181)	(2.756)	(1.102)	(2.283)
SKB-EK-800	350	800	17	8	0.15	8.6	M14	185	220	137	167.5	2.5	42	70	40	58
	(3098)	(7081)	(58.09)	(354)	(0.006)	(18.96)		(1637)	(1947)	(5.394)	(6.594)	(0.098)	(1.654)	(2.756)	(1.575)	(2.283)
SKB-EK-1000	500	1000	79	12	0.1	19.5	M14/M16	185	290	181	204	3.7	48	70	42	100
	(4425)	(8851)	(269.95)	(531)	(0.004)	(42.99)		(1637)	(2567)	(7.126)	(8.031)	(0.146)	(1.890)	(2.756)	(1.654)	(3.937)

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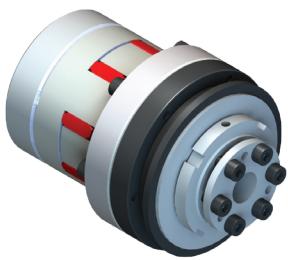
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► SKY-ES SERIES SAFETY COUPLING



Major Features



- Elastomer safety coupling with self-centering conical hub and radial clamping 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.
- Electrically insulating and dampens oscillation resonance.

Material

- Steel hubs; elastomer spider; steel safety element

Size SKY-ES	Disengagement Torque Range		Moment of Inertia	Torsion Resistance	Max. Lateral Misalignment	Mass	Screw Size	Torque to Tighten Screws		Outer Diameter	Length	Bore Range ØD1*		Bore Range ØD2**	
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	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)	
SKY-ES-6	2	6	0.13	0.24	0.1	0.5	M4/M3	4	2	52.5	83	9	19	5	11.5
	(18)	(53)	(0.44)	(11)	(0.004)	(1.10)		(35)	(18)	(2.067)	(3.268)	(0.354)	(0.748)	(0.197)	(0.453)
SKY-ES-12	6	12	0.13	0.24	0.1	0.5	M4/M3	4	2	52.5	83	9	19	5	11.5
	(53)	(106)	(0.44)	(11)	(0.004)	(1.10)		(35)	(18)	(2.067)	(3.268)	(0.354)	(0.748)	(0.197)	(0.453)
SKY-ES-15	8	15	0.5	0.6	0.1	1	M5/M4	8	4	69	100	12	26	9	17
	(71)	(133)	(1.71)	(27)	(0.004)	(2.20)		(71)	(35)	(2.717)	(3.937)	(0.472)	(1.024)	(0.354)	(0.669)
SKY-ES-30	13	30	0.5	0.6	0.1	1	M5/M4	8	4	69	100	12	26	9	17
	(115)	(266)	(1.71)	(27)	(0.004)	(2.20)		(71)	(35)	(2.717)	(3.937)	(0.472)	(1.024)	(0.354)	(0.669)
SKY-ES-45	22	45	0.5	0.6	0.1	1	M5/M4	8	4	69	100	12	26	10	17
	(195)	(398)	(1.71)	(27)	(0.004)	(2.20)		(71)	(35)	(2.717)	(3.937)	(0.472)	(1.024)	(0.394)	(0.669)
SKY-ES-60	25	60	1.4	1.05	0.1	1.9	M5/M6	8	18	88	115.5	12	36	12	24
	(221)	(531)	(4.78)	(46)	(0.004)	(4.19)		(71)	(159)	(3.465)	(4.547)	(0.472)	(1.417)	(0.472)	(0.945)
SKY-ES-100	40	100	1.4	1.05	0.1	1.9	M5/M6	8	18	88	115.5	12	36	12	24
	(354)	(885)	(4.78)	(46)	(0.004)	(4.19)		(71)	(159)	(3.465)	(4.547)	(0.472)	(1.417)	(0.472)	(0.945)
SKY-ES-150	60	150	1.4	1.05	0.1	1.9	M5/M6	8	18	88	115.5	14	36	14	24
	(531)	(1328)	(4.78)	(46)	(0.004)	(4.19)		(71)	(159)	(3.465)	(4.547)	(0.551)	(1.417)	(0.551)	(0.945)
SKY-ES-230	80	230	5.5	2	0.12	4.3	M8/M6	35	18	115	145.5	19	40	18	35
	(708)	(2036)	(18.79)	(89)	(0.005)	(9.48)		(310)	(159)	(4.528)	(5.728)	(0.748)	(1.575)	(0.709)	(1.378)
SKY-ES-330	130	330	5.5	2	0.12	4.3	M8/M6	35	18	115	145.5	19	40	22	35
	(1151)	(2921)	(18.79)	(89)	(0.005)	(9.48)		(310)	(159)	(4.528)	(5.728)	(0.748)	(1.575)	(0.866)	(1.378)
SKY-ES-500	200	500	18.5	8	0.15	8.8	M12/M8	115	35	137	187	25	60	28	44
	(1770)	(4425)	(63.22)	(354)	(0.006)	(19.40)		(1018)	(310)	(5.394)	(7.362)	(0.984)	(2.362)	(1.102)	(1.732)
SKY-ES-800	350	800	18.5	8	0.15	8.8	M12/M8	115	35	137	187	28	60	30	44
	(3098)	(7081)	(63.22)	(354)	(0.006)	(19.40)		(1018)	(310)	(5.394)	(7.362)	(1.102)	(2.362)	(1.181)	(1.732)
SKY-ES-1000	500	1000	57	12	0.1	16	M12/M12	115	115	181	218	48	60	40	70
	(4425)	(8851)	(194.78)	(531)	(0.004)	(35.27)		(1018)	(1018)	(7.126)	(8.583)	(1.890)	(2.362)	(1.575)	(2.756)

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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.

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► SKB SERIES INDIRECT DRIVE SAFETY COUPLING



Major Features

- Pulley safety coupling with self-centering conical hub and integrated bearing.
- Upon disengagement, coupling will re-engage automatically at only one point per revolution and retain the drive's reference point.
- Integrated bearing for high axial and radial loading to support pulleys, gears or sprockets.
- Adjustable disengagement torque.

Material

- Steel hubs; steel safety element

Size SKB	Disengagement Torque Range		Moment of Inertia	Mass kg (lbs)	Screw Size	Torque to Tighten Screws	Thread Size for Pulley	Outer Diameter mm (inch)	Length mm (inch)	Switching Distance mm (inch)	Bore Range min. max.	
	Nm (lb-in)	10 ⁻³ kgm ² (lb-in ²)	Nm (lb-in)			Nm (lb-in)					mm (inch)	mm (inch)
SKB-6	2	6	0.09	0.36	M5	10	6xM3	52	41	0.9	6	16
	(18)	(53)	(0.31)	(0.79)		(89)		(2.047)	(1.614)	(0.035)	(0.236)	(0.630)
SKB-12	6	12	0.09	0.36	M5	10	6xM3	52	41	0.9	8	16
	(53)	(106)	(0.31)	(0.79)		(89)		(2.047)	(1.614)	(0.035)	(0.315)	(0.630)
SKB-15	8	15	0.36	0.8	M6	18	6xM4	69	48	1.2	10	25.4
	(71)	(133)	(1.23)	(1.76)		(159)		(2.717)	(1.890)	(0.047)	(0.394)	(1.000)
SKB-30	13	30	0.36	0.8	M6	18	6xM4	69	48	1.2	12	25.4
	(115)	(266)	(1.23)	(1.76)		(159)		(2.717)	(1.890)	(0.047)	(0.472)	(1.000)
SKB-45	22	45	0.36	0.8	M6	18	6xM4	69	48	1.2	14	25.4
	(195)	(398)	(1.23)	(1.76)		(159)		(2.717)	(1.890)	(0.047)	(0.551)	(1.000)
SKB-60	25	60	1.1	1.5	M8	40	6xM6	87	55.5	1.6	18	35
	(221)	(531)	(3.76)	(3.31)		(354)		(3.425)	(2.185)	(0.063)	(0.709)	(1.378)
SKB-100	40	100	1.1	1.5	M8	40	6xM6	87	55.5	1.6	18	35
	(354)	(885)	(3.76)	(3.31)		(354)		(3.425)	(2.185)	(0.063)	(0.709)	(1.378)
SKB-150	60	150	1.1	1.5	M8	40	6xM6	87	55.5	1.6	24	35
	(531)	(1328)	(3.76)	(3.31)		(354)		(3.425)	(2.185)	(0.063)	(0.945)	(1.378)
SKB-230	80	230	4.2	3.3	M10	80	6xM8	113	71.5	1.8	24	44
	(708)	(2036)	(14.35)	(7.28)		(708)		(4.449)	(2.815)	(0.071)	(0.945)	(1.732)
SKB-330	130	330	4.2	3.3	M10	80	6xM8	113	71.5	1.8	32	44
	(1151)	(2921)	(14.35)	(7.28)		(708)		(4.449)	(2.815)	(0.071)	(1.260)	(1.732)
SKB-500	200	500	12.2	6.2	M14	220	8xM8	136	87.5	2.5	28	58
	(1770)	(4425)	(41.69)	(13.67)		(1947)		(5.354)	(3.445)	(0.098)	(1.102)	(2.283)
SKB-800	350	800	12.2	6.2	M14	220	8xM8	136	87.5	2.5	40	58
	(3098)	(7081)	(41.69)	(13.67)		(1947)		(5.354)	(3.445)	(0.098)	(1.575)	(2.283)
SKB-1000	500	1000	76	20	M16	290	12xM10	181	142	3.7	42	100
	(4425)	(8851)	(259.70)	(44.09)		(2567)		(7.126)	(5.591)	(0.146)	(1.654)	(3.937)
SKB-2000	800	2000	76	20	M16	290	12xM10	181	142	3.7	48	100
	(7081)	(17702)	(259.70)	(44.09)		(2567)		(7.126)	(5.591)	(0.146)	(1.890)	(3.937)
SKB-3000	1500	3000	76	20	M16	290	12xM10	181	142	3.7	60	100
	(13276)	(26552)	(259.70)	(44.09)		(2567)		(7.126)	(5.591)	(0.146)	(2.362)	(3.937)

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Selection must be selected so nominal torque is higher than highest operational torque of the application (i.e., during acceleration). Hubs diameters smaller than the minimum are possible but reliable transmission of nominal torque cannot be guaranteed.

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► SKG SERIES INDIRECT DRIVE SAFETY COUPLING



Major Features

- Pulley safety coupling with self-centering conical hub and integrated bearing.
- Upon disengagement, coupling will re-engage automatically at only one point per revolution and retain the drive's reference point.
- Integrated bearing for high axial and radial loading to support pulleys, gears or sprockets.
- Adjustable disengagement torque.

Material

- Aluminum and steel hubs; steel safety element

Size SKG	Disengagement Torque Range		Moment of Inertia	Mass	Screw Size	Torque to Tighten Screws	Outer Diameter	Length	Thread Size for Pulley	Switching Distance	Bore Range	
	Nm (lb-in)	Nm (lb-in)	10^{-3}kgm^2 (lb-in ²)	kg (lbs)		Nm (lb-in)	mm (inch)	mm (inch)		mm (inch)	mm (inch)	mm (inch)
SKG-4	2	4	0.2	0.5	M4	4	60	40	4xM4	1	12	18
	(18)	(35)	(0.68)	(1.10)		(35)	(2.362)	(1.575)		(0.039)	(0.472)	(0.709)
SKG-9	4	9	0.2	0.5	M4	4	60	40	4xM4	1	12	18
	(35)	(80)	(0.68)	(1.10)		(35)	(2.362)	(1.575)		(0.039)	(0.472)	(0.709)
SKG-18	9	18	0.2	0.5	M4	4	60	40	4xM4	1	12	18
	(80)	(159)	(0.68)	(1.10)		(35)	(2.362)	(1.575)		(0.039)	(0.472)	(0.709)
SKG-23	9	23	0.7	1.1	M5	8	77	54	4xM6	1.4	18	25.5
	(80)	(204)	(2.39)	(2.43)		(71)	(3.031)	(2.126)		(0.055)	(0.709)	(1.004)
SKG-35	18	35	0.7	1.1	M5	8	77	54	4xM6	1.4	18	25.5
	(159)	(310)	(2.39)	(2.43)		(71)	(3.031)	(2.126)		(0.055)	(0.709)	(1.004)
SKG-75	25	75	0.7	1.1	M5	8	77	54	4xM6	1.4	18	25.5
	(221)	(664)	(2.39)	(2.43)		(71)	(3.031)	(2.126)		(0.055)	(0.709)	(1.004)
SKG-100	50	100	1.8	1.9	M6	12	92	55	4xM6	1.4	22	39
	(443)	(885)	(6.15)	(4.19)		(106)	(3.622)	(2.165)		(0.055)	(0.866)	(1.535)
SKG-170	65	170	3	2.4	M6	12	105	66	4xM6	1.7	22	39
	(575)	(1505)	(10.25)	(5.29)		(106)	(4.134)	(2.598)		(0.067)	(0.866)	(1.535)
SKG-270	100	270	10.4	5	M8	35	135	85	4xM6	2.2	29	44
	(885)	(2390)	(35.54)	(11.02)		(310)	(5.315)	(3.346)		(0.087)	(1.142)	(1.732)
SKG-550	200	550	10.7	5.3	M8	35	135	85	4xM6	2.2	29	44
	(1770)	(4868)	(36.56)	(11.68)		(310)	(5.315)	(3.346)		(0.087)	(1.142)	(1.732)

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.

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► SKX-L SERIES SAFETY COUPLING



Major Features

- Pulley safety coupling with extended hub for smaller pulleys with radial clamping hub.
- Upon disengagement, coupling will re-engage automatically at only one point per revolution and retain the drive's reference point.
- Integrated sliding bearing to support pulleys, gears or sprockets.
- Adjustable disengagement torque.

Material

- Steel hubs; steel safety element

Size SKX-L	Disengagement Torque Range		Moment of Inertia	Mass	Screw Size	Torque to Tighten Screws	Thread Size for Pulley	Outer Diameter	Length	Switching Distance	Bore Range		Extended Diameter
	Nm (lb-in)	Nm (lb-in)	10^{-3}kgm^2 (lb-in ²)			Nm (lb-in)					mm (inch)	mm (inch)	
SKX-L-6	2	6	0.05	0.25	M5	10	6xM3	42	46	0.9	7	16	20
	(18)	(53)	(0.17)	(0.55)		(89)		(1.654)	(1.811)	(0.035)	(0.276)	(0.630)	(0.787)
SKX-L-12	6	12	0.05	0.25	M5	10	6xM3	42	46	0.9	11	16	20
	(53)	(106)	(0.17)	(0.55)		(89)		(1.654)	(1.811)	(0.035)	(0.433)	(0.630)	(0.787)
SKX-L-15	8	15	0.25	0.65	M6	18	6xM4	60	52	1.2	11	25.4	30
	(71)	(133)	(0.85)	(1.43)		(159)		(2.362)	(2.047)	(0.047)	(0.433)	(1.000)	(1.181)
SKX-L-30	13	30	0.25	0.65	M6	18	6xM4	60	52	1.2	15	25.4	30
	(115)	(266)	(0.85)	(1.43)		(159)		(2.362)	(2.047)	(0.047)	(0.591)	(1.000)	(1.181)
SKX-L-45	22	45	0.25	0.65	M6	18	6xM4	60	52	1.2	18	25.4	30
	(195)	(398)	(0.85)	(1.43)		(159)		(2.362)	(2.047)	(0.047)	(0.709)	(1.000)	(1.181)
SKX-L-60	25	60	0.95	1.5	M8	40	6xM6	76	69	1.6	18	35	42
	(221)	(531)	(3.25)	(3.31)		(354)		(2.992)	(2.717)	(0.063)	(0.709)	(1.378)	(1.654)
SKX-L-100	40	100	0.95	1.5	M8	40	6xM6	76	69	1.6	22	35	42
	(354)	(885)	(3.25)	(3.31)		(354)		(2.992)	(2.717)	(0.063)	(0.866)	(1.378)	(1.654)
SKX-L-150	60	150	0.95	1.5	M8	40	6xM6	76	69	1.6	26	35	42
	(531)	(1328)	(3.25)	(3.31)		(354)		(2.992)	(2.717)	(0.063)	(1.024)	(1.378)	(1.654)
SKX-L-230	80	230	3.3	3	M10	80	6xM8	104	84	1.8	25	42	50
	(708)	(2036)	(11.28)	(6.61)		(708)		(4.094)	(3.307)	(0.071)	(0.984)	(1.654)	(1.968)
SKX-L-330	130	330	3.3	3	M10	80	6xM8	104	84	1.8	32	42	50
	(1151)	(2921)	(11.28)	(6.61)		(708)		(4.094)	(3.307)	(0.071)	(1.260)	(1.654)	(1.968)
SKX-L-500	200	500	10.7	6	M14	220	6xM10	132	104	2.5	35	58	65
	(1770)	(4425)	(36.56)	(13.23)		(1947)		(5.197)	(4.094)	(0.098)	(1.378)	(2.283)	(2.559)
SKX-L-800	350	800	10.7	6	M14	220	6xM10	132	104	2.5	42	58	65
	(3098)	(7081)	(36.56)	(13.23)		(1947)		(5.197)	(4.094)	(0.098)	(1.654)	(2.283)	(2.559)

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