

# Safety Couplings Torque Limiters





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# to connect shafts

## Safety Couplings with Metal Bellows to compensate Misalignment

### **KBK/BKK 2~500**

with 2 Collet Clamps



### **KBK/BKI10~500**

with Collet Clamp and Inner Cone



### **KBK/BKA10~500**

with Collet Clamp and Outer Cone



### **KBK/BIK10~500**

with Inner Cone and Collet Clamp



### **KBK/BII10~1400**

with 2 Inner Cones



### **KBK/BIA10~1400**

with Inner Cone and Outer Cone



### **KBK/BAK10~500**

with Outer Cone and Collet Clamp



### **KBK/BAI10~1400**

with Outer Cone and Inner Cone



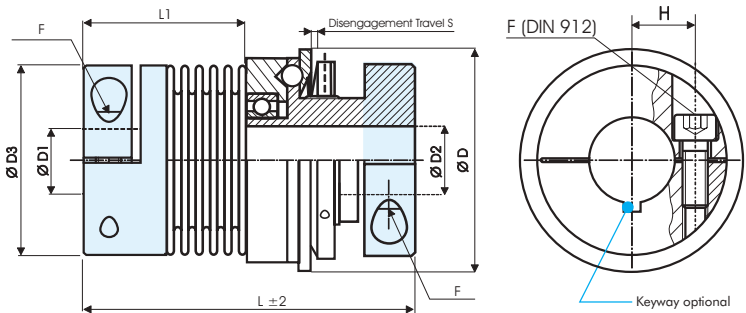
### **KBK/BAA10~1400**

with 2 Outer Cones



### Safety Coupling

with 2 Collet Clamps



**Order Code: KBK/BKK - 60 - 105 - 16H7 - 14H7 - 20Nm - C or D - 1**

Type / Size

Length Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C= Single Position D= Multi Position Engagement

KBK/BKK-x	Dimensions (mm)									Technical Ratings										
	Ø D	L	Ø D1	Ø D2	Ø D3	H	F	L1	S	Maximum Speed	Mass	Moment of Inertia	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) min ~ max	Bore Size (H7) min ~ max	Hub-diameter		Screw (DIN 912) TA (Nm)			rpm. (1/min)	(kg)	J (kg cm <sup>2</sup> )	T <sub>KN</sub> (Nm)	T <sub>KN</sub> (Nm)	torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)
-2	29	46	3	3	25	9	M3	21	0.7	13200	0.08	0.06	0.2	0.5	1.5	67	12	0.15	0.3	1.5
		52	14	11			27	3					1.3	21	11	0.20	0.4	1.5		
		56					31	2					1.0	11	9	0.25	0.5	2		
-4.5	42	57	6	6	32.5	12	M4	27	0.7	12300	0.16	0.26	1	3	6.5	168	32	0.1	0.3	1.5
							3	6					4.2	41	20	0.2	0.5	2		
		65	16	13			3.5	36												
-7	49	65	6	6	40	15.5	M4	34	0.7	11690	0.25	0.58	1	3	8.1	120	27	0.15	0.4	1.5
							4	7					6.8	29	17	0.3	0.6	2		
		75	25	20			5.1	43												
-10	49	65	6	6	40	15.5	M4	34	0.7	11690	0.25	0.6	3	5	8.1	120	27	0.15	0.4	1.5
							7	10					6.8	29	17	0.3	0.6	2		
		75	25	20			5.1	43												
-30	64	85	10	10	56	20	M6	40.5	1.2	9540	0.77	3.2	5	10	38	720	50	0.15	0.6	1.5
							15	30					28	225	28	0.25	1	2		
		94	30	26			15	48.5												
-60	79	105	12	12	66	23	M8	50	1.2	8180	1.34	8.2	12	20	75	1150	90	0.15	0.6	1.5
							35	60					50	340	50	0.25	1	2		
		115	32	31			36	60												
-80	94	113	14	14	82	28	M10	57.5	2	6220	3.52	31	15	30	128	1200	80	0.2	0.5	1.5
							40	80					75	400	50	0.25	0.8	2		
		125	42	38			72	68.5												
-150	94	113	19	14	82	28	M10	57.5	2	6220	3.52	31	50	65	155	2020	145	0.2	0.5	1.5
							130	150					105	595	85	0.25	0.8	2		
		125	42	38			72	68.5												
-200	109	125	22	22	90	31	M12	63	2	5720	4.45	53	30	80	175	2500	147	0.2	0.5	1.5
							90	200					116	460	82	0.25	0.8	2		
		138	45	45			125	75												
-300	119	140	30	30	110	39	M12	67	2	5200	6.47	97	60	150	502	6300	280	0.2	0.5	1.5
							200	300					285	1400	145	0.25	0.8	2		
		150	60	57			125	78												
-500	129	158	35	35	122	42	M12	70	2	4470	9.22	164	80	200	690	7790	100	0.2	0.5	1.5
							250	500					320	970	85	0.25	1	2		
		170	70	62			125	81												

Material: Bellows: stainless steel

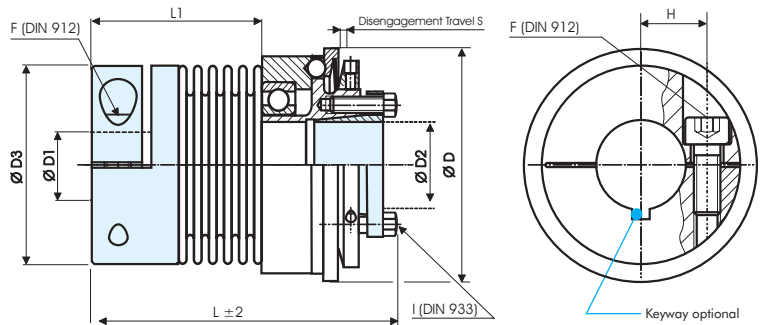
Hub (Size 2 to Size 60): Aluminum  
Hub (Size 80 to Size 500): Steel

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

### Safety Coupling

with Collet Clamp and Inner Cone



**Order Code: KBK/BKI - 60 - 100 - 16H7 - 14H7 - 20Nm - C or D - 1**

Type / Size

Length Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C= Single Position D= Multi Position Engagement

KBK/BKI-x	Dimensions (mm)										Technical Ratings										
	Ø D	L	Ø D1	Ø D2	Ø D3	H	F	L1	I	S	Maximum Speed	Mass	Moment of Inertia	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) min max	Bore Size (H7) min max	Hub-diameter		Screw (DIN 912) TA (Nm)		Screw (DIN 933) TA (Nm)		rpm. (1/min)	(kg)	J (kg cm <sup>2</sup> )	1 T <sub>KN</sub> (Nm)	2 T <sub>KN</sub> (Nm)	torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)
<b>-10</b>	49	65	6	6	40	15.5	M4	34	M3	0.7	11690	0.24	0.6	3	5	8.1	120	27	0.15	0.4	1.5
		75	25	14			5.1	43	4					7	10						
<b>-30</b>	64	77.5	10	12	56	20	M6	40.5	M5	1.2	9540	0.72	3.0	5	10	38	720	50	0.15	0.6	1.5
		86.5	30	20			15	48.5	6					15	30						
<b>-60</b>	79	90	12	15	66	23	M8	50	M6	1.2	8180	1.3	7.9	12	20	75	1150	90	0.15	0.6	1.5
		100	32	25			36	60	8.5					35	60						
<b>-80</b>	94	106	14	20	82	28	M10	57.5	M6	2	6220	2.84	25	15	30	128	1200	80	0.2	0.5	1.5
		118	42	35			72	68.5	14					40	80						
<b>-150</b>	94	106	19	20	82	28	M10	57.5	M6	2	6220	2.84	25	50	65	155	2020	145	0.2	0.5	1.5
		118	42	35			72	68.5	14					130	150						
<b>-200</b>	109	113	22	20	90	31	M12	63	M6	2	5720	3.48	41	30	80	175	2500	147	0.2	0.5	1.5
		126	45	40			125	75	14					90	200						
<b>-300</b>	119	131	30	25	110	39	M12	67	M8	2	5200	5.35	80	60	150	502	6300	280	0.2	0.5	1.5
		141	60	50			125	78	18					200	300						
<b>-500</b>	129	140	35	35	122	42	M12	70	M8	2	4470	7.54	134	80	200	690	7790	100	0.2	0.5	1.5
		151	70	55			125	81	26					250	500						

Material: Bellows: Stainless Steel

Hub: Steel (also available in Stainless Steel)

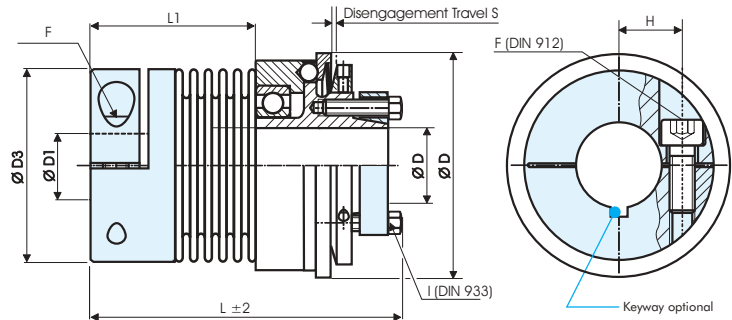
Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C



## Safety Coupling

with Collet Clamp and Outer Cone



**Order Code: KBK/BKA - 60 - 108 - 16H7 - 14H7 - 20Nm - C or D - 1**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C = Single Position    D = Multi Position Engagement

KBK/BKA-x	Dimensions (mm)										Technical Range										
	Ø D	L	Ø D1	Ø D2	Ø D3	H	F	L1	I	S	Maximum Speed	Mass	Moment of Inertia	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) min / max	Bore Size (H7) min / max	Hub-diameter		Screw (DIN 912) TA (Nm)	Screw (DIN 933) TA (Nm)			rpm. (1/min)	(kg)	J (kg cm <sup>2</sup> )	T <sub>KN</sub> 1 (Nm)	T <sub>KN</sub> 2 (Nm)	torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)
<b>-10</b>	49	67	6	5	40	15.5	M4	34	M5	0.7	<b>11690</b>	0.24	0.6	3	5	8.1	120	27	0.15	0.4	1.5
		77	25	14			5.1	43	5.9					7	10						
<b>-30</b>	64	81	10	12	56	20	M6	40.5	M5	1.2	<b>9540</b>	0.71	2.9	5	10	38	720	50	0.15	0.6	1.5
		90	30	20			15	48.5	5.9					15	30						
<b>-60</b>	79	98	12	15	66	23	M8	50	M5	1.2	<b>8180</b>	1.29	7.9	12	20	75	1150	90	0.15	0.6	1.5
		108	32	32			36	60	8.7					35	60						
<b>-80</b>	94	115	14	20	82	28	M10	57.5	M6	2	<b>6220</b>	2.89	25	15	30	128	1200	80	0.2	0.5	1.5
		127	42	35			72	68.5	15					40	80						
<b>-150</b>	94	115	19	20	82	28	M10	57.5	M6	2	<b>6220</b>	2.89	25	50	65	155	2020	145	0.2	0.5	1.5
		126	42	35			72	68.5	15					130	150						
<b>-200</b>	109	122	22	20	90	31	M12	63	M6	2	<b>5720</b>	3.5	42	30	80	175	2500	147	0.2	0.5	1.5
		135	45	42			125	75	15					90	200						
<b>-300</b>	119	140	30	25	110	39	M12	67	M8	2	<b>5200</b>	5.23	79	60	150	502	6300	280	0.2	0.5	1.5
		150	60	50			125	78	25					200	300						
<b>-500</b>	129	154	35	35	122	42	M12	70	M8	2	<b>4470</b>	7.5	135	80	200	690	7790	100	0.2	0.5	1.5
		165	75	55			125	81	36					250	500						

Material: Bellows: Stainless Steel

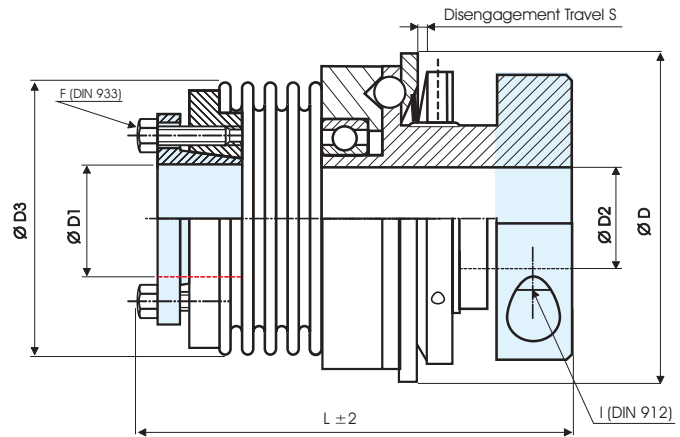
Hub: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

## Safety Coupling

with Inner Cone and Collet Clamp



**Order Code: KBK/BIK - 60 - 107 - 15H7 - 18H7 - 20Nm - C or D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C= Single Position D= Multi Position Engagement

KBK/BIK-x	Dimensions (mm)								Technical Ratings										
	ØD	L	ØD1	ØD2	ØD3	F	I	S	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max	Screw (DIN 933) T <sub>A</sub> (Nm)	Screw (DIN 912) T <sub>A</sub> (Nm)	1 T <sub>KN</sub> (Nm)	2 T <sub>KN</sub> (Nm)				torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)		
<b>-10</b>	49	68	6-14	6-20	40.5	M3	M4	0.7	<b>11650</b>	0.27	0.6	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		78				6.8	29							17	0.3	0.6	2		
<b>-30</b>	64	79	<b>12-20</b>	<b>10-26</b>	56	M5	M6	1.2	<b>9540</b>	0.81	3.3	5-15	10-30	38	720	50	0.15	0.6	1.5
		88				28	225							28	0.25	1	2		
<b>-60</b>	79	97	<b>15-25</b>	<b>12-31</b>	66	M6	M8	1.2	<b>8180</b>	1.48	9	12-35	20-60	75	1150	90	0.15	0.6	1.5
		107				50	340							50	0.25	1	2		
<b>-80</b>	94	107	<b>20-35</b>	<b>14-38</b>	82	M6	M10	2	<b>6220</b>	3.2	28	15-40	30-80	128	1200	80	0.2	0.5	1.5
		119				75	400							50	0.25	0.8	2		
<b>-150</b>	94	107	<b>20-35</b>	<b>14-38</b>	82	M6	M10	2	<b>6220</b>	3.2	28	<b>50-130</b>	<b>65-150</b>	155	2020	145	0.2	0.5	1.5
		119				105	595							85	0.25	0.8	2		
<b>-200</b>	109	114	<b>20-40</b>	<b>22-45</b>	90	M6	M12	2	<b>5720</b>	3.9	46	<b>30-90</b>	<b>80-200</b>	175	2500	147	0.2	0.5	1.5
		127				116	460							82	0.25	0.8	2		
<b>-300</b>	119	133	<b>25-50</b>	<b>30-57</b>	110	M8	M12	2	<b>5200</b>	6.1	92	<b>60-200</b>	<b>150-300</b>	502	6300	280	0.2	0.5	1.5
		143				285	1400							145	0.25	0.8	2		
<b>-500</b>	129	147	<b>35-55</b>	<b>35-62</b>	122	M8	M12	2	<b>4470</b>	8.4	150	<b>80-250</b>	<b>200-500</b>	690	7790	100	0.2	0.5	1.5
		158				320	970							85	0.25		2		

Material: Bellows: Stainless Steel

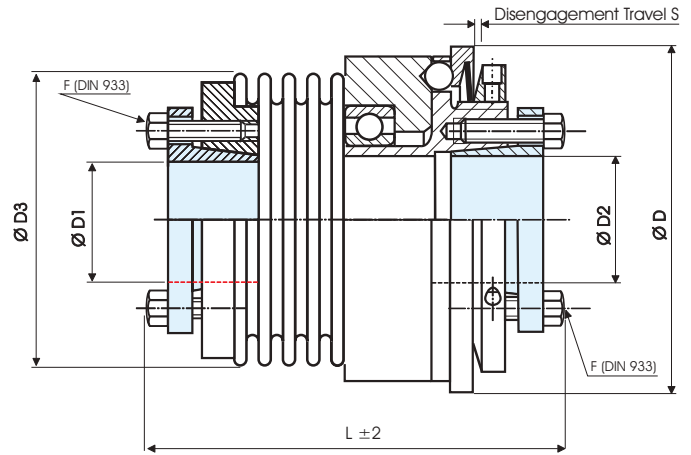
Hubs: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

### Safety Couplings

with 2 Inner Cones



**Order Code: KBK/BII - 60 - 100 - 15H7 - 18H7 - 20Nm - C or D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C= Single Position D= Multi Position Engagement

KBK/BII-x	Dimensions(mm)							Technical Ratings										
	ØD	L	ØD1	ØD2	ØD3	F	S	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max	Screw (DIN 933) TA (Nm)	1 TKN (Nm)	2 TKN (Nm)				torsional x10 <sup>3</sup> CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)		
<b>-10</b>	49	68	6-14	6-14	40.5	M3	0.7	<b>11650</b>	0.27	0.6	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		78				6.8							29	17	0.3	0.6	2	
<b>-30</b>	64	85	12-20	12-20	56	M5	1.2	<b>9540</b>	0.76	3.1	5-15	10-30	38	720	50	0.15	0.6	1.5
		94				28							225	28	0.25	1	2	
<b>-60</b>	79	100	15-25	15-25	66	M6	1.2	<b>8180</b>	1.44	8.8	12-35	20-60	75	1150	90	0.15	0.6	1.5
		110				50							340	50	0.25	1	2	
<b>-80</b>	94	115	20-35	20-35	82	M6	2	<b>6220</b>	2.5	22	15-40	30-80	128	1200	80	0.2	0.5	1.5
		128				75							400	50	0.25	0.8	2	
<b>-150</b>	94	115	20-35	20-35	82	M6	2	<b>6220</b>	2.5	22	50-130	65-150	155	2020	145	0.2	0.5	1.5
		128				105							595	85	0.25	0.8	2	
<b>-200</b>	109	125	20-40	20-40	90	M6	2	<b>5720</b>	2.88	34	30-90	80-200	175	2500	147	0.2	0.5	1.5
		135				116							460	82	0.25	0.8	2	
<b>-300</b>	119	135	25-50	25-50	110	M8	2	<b>5200</b>	5.0	75	60-200	150-300	502	6300	280	0.2	0.5	1.5
		145				285							1400	145	0.25	0.8	2	
<b>-500</b>	129	150	35-55	35-55	122	M8	2	<b>4470</b>	6.73	120	80-250	200-500	690	7790	100	0.2	0.5	1.5
		162				320							970	85	0.25	1	2	
<b>-800</b>	169	235	50-70	50-70	157	M16	2	<b>3350</b>	17.8	518	240-600	500-800	700	500	185	0.2	0.8	1.8
		45				700							500	185	0.2	0.8	1.8	
<b>-1400</b>	169	235	50-70	50-70	157	M16	2	<b>3350</b>	18.0	523	360-1000	900-1400	1270	700	275	0.2	0.8	1.8
		80				1270							700	275	0.2	0.8	1.8	

Material: Bellows: Stainless Steel

Hubs: Steel (also available in Stainless Steel)

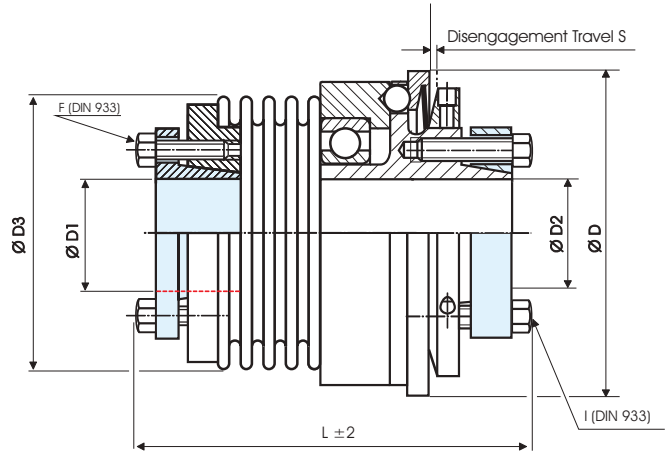
Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C



## Safety Couplings

with Inner Cone and Outer Cone



**Order Code: KBK/BIA - 60 - 100 - 15H7 - 18H7 - 20Nm - C or D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C = Single Position D = Multi Position Engagement

KBK/BIA-x	Dimensions (mm)								Technical Ratings										
	ØD	L	ØD1	ØD2	ØD3	F	S	I	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max	Screw (DIN 933) T <sub>A</sub> (Nm)	Screw (DIN 933) T <sub>A</sub> (Nm)	1 T <sub>KN</sub> (Nm)	2 T <sub>KN</sub> (Nm)				torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)		
-10	49	69	6-14	5-14	40.5	M3	0.7	M5	11650	0.27	0.6	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		79				1.5		5.9						6.8	29	17	0.3	0.6	2
-30	64	74	12-20	12-20	56	M5	1.2	M5	9540	0.75	3.1	5-15	10-30	38	720	50	0.15	0.6	1.5
		83				6		5.9						28	225	28	0.25	1	2
-60	79	89	15-25	15-32	66	M6	1.2	M5	8180	1.43	8.8	12-35	20-60	75	1150	90	0.15	0.6	1.5
		100				8.5		8.7						50	340	50	0.25	1	2
-80	94	108	20-35	20-35	82	M6	2	M6	6220	2.5	22	15-40	30-80	128	1200	80	0.2	0.5	1.5
		120				14		15						75	400	50	0.25	0.8	2
-150	94	108	20-35	20-35	82	M6	2	M6	6220	2.5	22	50-130	65-150	155	2020	145	0.2	0.5	1.5
		120				14		15						105	595	85	0.25	0.8	2
-200	109	110	20-40	20-42	90	M6	2	M6	5720	2.9	34	30-90	80-200	175	2500	147	0.2	0.5	1.5
		123				14		15						116	460	82	0.25	0.8	2
-300	119	132	25-50	25-50	110	M8	2	M8	5200	4.9	73	60-200	150-300	502	6300	280	0.2	0.5	1.5
		143				18		25						285	1400	145	0.25	0.8	2
-500	129	149	35-55	35-55	122	M8	2	M8	4470	6.8	120	80-250	200-500	690	7790	100	0.2	0.5	1.5
		160				26		36						320	970	85	0.25	1	2
-800	169	243	50-70	50-70	157	M16	2	M12	3350	18	516	240-600	500-800	700	500	185	0.2	0.8	1.8
						45		85											
-1400	169	243	50-70	50-70	157	M16	2	M12	3350	18	520	360-1000	900-1400	1270	700	275	0.2	0.8	1.8
						80		115											

Material: Bellows: Stainless Steel

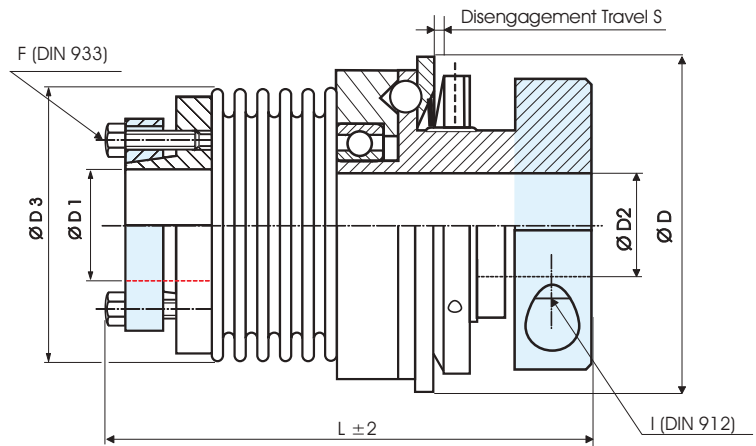
Hubs: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

## Safety Couplings

with Outer Cone and Collet Clamp



**Order Code: KBK/BAK - 60 - 115 - 15H7 - 18H7 - 20Nm - C or D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C = Single Position D = Multi Position Engagement

KBK/BAK-x	Dimensions (mm)								Technical Ratings										
	ØD	L	ØD1	ØD2	ØD3	F	S	I	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) von-bis	Bore Size (H7) von-bis	Screw (DIN 933) T <sub>A</sub> (Nm)	Screw (DIN 912) T <sub>A</sub> (Nm)	1 T <sub>KN</sub> (Nm)	2 T <sub>KN</sub> (Nm)				torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)		
<b>-10</b>	49	65	5-14	6-20	40.5	M5	0.7	M4	11650	0.27	0.6	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		74				5.9		5.1						6.8	29	17	0.3	0.6	2
<b>-30</b>	64	82	12-20	10-26	56	M5	1.2	M6	9540	0.80	3.3	5-15	10-30	38	720	50	0.15	0.6	1.5
		92				5.9		15						28	225	28	0.25	1	2
<b>-60</b>	79	104	15-32	12-31	66	M5	1.2	M8	8180	1.46	8.9	12-35	20-60	75	1150	90	0.15	0.6	1.5
		115				8.7		36						50	340	50	0.25	1	2
<b>-80</b>	94	115	20-35	14-38	82	M6	2	M10	6220	3.3	29	15-40	30-80	128	1200	80	0.2	0.5	1.5
		127				15		72						75	400	50	0.25	0.8	2
<b>-150</b>	94	115	20-35	14-38	82	M6	2	M10	6220	3.3	29	50-130	65-150	155	2020	145	0.2	0.5	1.5
		127				15		72						105	595	85	0.25	0.8	2
<b>-200</b>	109	122	20-42	20-45	90	M6	2	M12	5720	3.9	46	30-90	80-200	175	2500	147	0.2	0.5	1.5
		135				15		125						116	460	82	0.25	0.8	2
<b>-300</b>	119	141	25-50	30-57	110	M8	2	M12	5200	5.9	88	60-200	150-300	502	6300	280	0.2	0.5	1.5
		152				25		125						285	1400	145	0.25	0.8	2
<b>-500</b>	129	163	35-55	35-62	122	M8	2	M12	4470	8.5	151	80-250	200-500	690	7790	100	0.2	0.5	1.5
		175				36		125						320	970	85	0.25	1	2

Material: Bellows: Stainless Steel

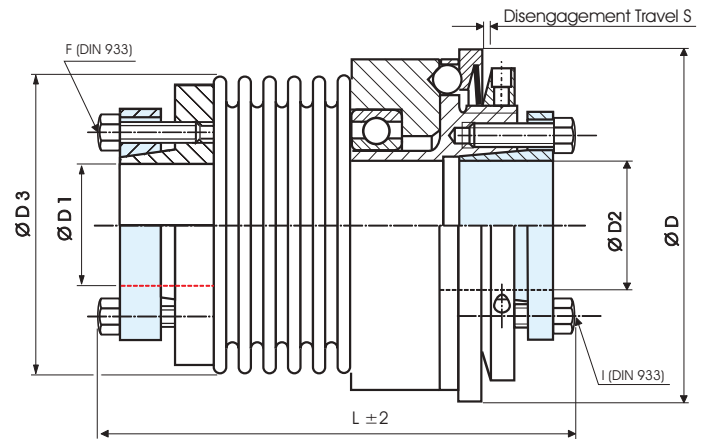
Hubs: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

## Safety Couplings

with Outer Cone and Inner Cone



**Order Code: KBK/BAI - 60 - 100 - 15H7 - 18H7 - 20Nm - C or D - 2**

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

Overload Torque Range

C= Single Position D= Multi Position Engagement

KBK/BAI-x	Dimensions (mm)								Technical Ratings										
	ØD	L	ØD1	ØD2	ØD3	F	S	I	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Overload Torque adjustable		Spring Stiffness			Misalignment		
	Outer Ø	Length	Bore Size (H7) von-bis	Bore Size (H7) von-bis		Screw (DIN 933) T <sub>A</sub> (Nm)	Screw (DIN 933) T <sub>A</sub> (Nm)	1 T <sub>KN</sub> (Nm)				2 T <sub>KN</sub> (Nm)	torsional ×10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)	
<b>-10</b>	49	65	5-14	6-14	40.5	M5	0.7	M3	<b>11650</b>	0.27	0.6	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		74				5.9		1.5						6.8	29	17	0.3	0.6	2
<b>-30</b>	64	75	12-20	12-20	56	M5	1.2	M5	<b>9540</b>	0.75	3.1	5-15	10-30	38	720	50	0.15	0.6	1.5
		84				5.9		6						28	225	28	0.25	1	2
<b>-60</b>	79	89	15-32	15-25	66	M5	1.2	M6	<b>8180</b>	1.42	8.7	12-35	20-60	75	1150	90	0.15	0.6	1.5
		100				8.7		8.5						50	340	50	0.25	1	2
<b>-80</b>	94	108	20-35	20-35	82	M6	2	M6	<b>6220</b>	2.6	23	15-40	30-80	128	1200	80	0.2	0.5	1.5
		120				15		14						75	400	50	0.25	0.8	2
<b>-150</b>	94	108	20-35	20-35	82	M6	2	M6	<b>6220</b>	2.6	23	50-130	65-150	155	2020	145	0.2	0.5	1.5
		120				15		14						105	595	85	0.25	0.8	2
<b>-200</b>	109	110	20-42	20-40	90	M6	2	M6	<b>5720</b>	2.9	34	30-90	80-200	175	2500	147	0.2	0.5	1.5
		123				15		14						116	460	82	0.25	0.8	2
<b>-300</b>	119	133	25-50	25-50	110	M8	2	M8	<b>5200</b>	4.8	72	60-200	150-300	502	6300	280	0.2	0.5	1.5
		143				25		18						285	1400	145	0.25	0.8	2
<b>-500</b>	129	145	35-55	35-55	122	M8	2	M8	<b>4470</b>	6.8	121	80-250	200-500	690	7790	100	0.2	0.5	1.5
		157				36		26						320	970	85	0.25	1	2
<b>-800</b>	169	242	50-70	50-70	157	M12	2	M16	<b>3350</b>	17.8	515	240-600	500-800	700	500	185	0.2	0.8	1.8
						85		45											
<b>-1400</b>	169	242	50-70	50-70	157	M12	2	M16	<b>3350</b>	17.9	519	360-1000	900-1400	1270	700	275	0.2	0.8	1.8
						115		80											

Material: Bellows: Stainless Steel

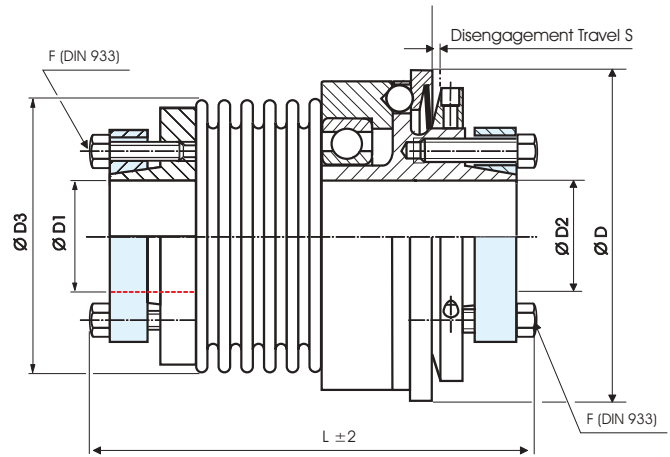
Hubs: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

## Safety Couplings

with 2 Outer Cones



**Order Code: KBK/BAA - 60 - 108 - 15H7 - 18H7 - 20Nm - C or D - 2**

Type / Size                      Length                      Ø D2 (H7)                      Ø D2 (H7)                      Disengagement Torque                      Overload Torque Range  
 C = Single Position    D = Multi Position Engagement

KBK/BAA-x	Dimensions (mm)							Technical Ratings										
	Outer Ø	Length	Bore Size (H7)		ØD3	F	S	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Overload Torque adjustable		Spring Stiffness			Misalignment		
			min~max	min~max							1 T <sub>kN</sub> (Nm)	2 T <sub>kN</sub> (Nm)	torsional x10 <sup>3</sup> C <sub>T</sub> (Nm/rad)	radial C <sub>R</sub> (N/mm)	axial C <sub>A</sub> (N/mm)	radial ΔK <sub>r</sub> (mm)	axial ΔK <sub>a</sub> (mm)	angular ΔK <sub>w</sub> (°)
<b>-10</b>	49	66	5-14	5-14	40.5	M5	0.7	<b>11650</b>	0.27	0.6	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		75											6.8	29	17	0.3	0.6	2
<b>-30</b>	64	78	12-20	12-20	56	M5	1.2	<b>9540</b>	0.74	3.0	5-15	10-30	38	720	50	0.15	0.6	1.5
		87											28	225	28	0.25	1	2
<b>-60</b>	79	97	15-32	15-32	66	M5	1.2	<b>8180</b>	1.41	8.6	12-35	20-60	75	1150	90	0.15	0.6	1.5
		108											50	340	50	0.25	1	2
<b>-80</b>	94	116	20-35	20-35	82	M6	2	<b>6220</b>	2.6	23	15-40	30-80	128	1200	80	0.2	0.5	1.5
		129											75	400	50	0.25	0.8	2
<b>-150</b>	94	116	20-35	20-35	82	M6	2	<b>6220</b>	2.6	23	50-130	65-150	155	2020	145	0.2	0.5	1.5
		129											105	595	85	0.25	0.8	2
<b>-200</b>	109	118	20-42	20-42	90	M6	2	<b>5720</b>	2.9	35	30-90	80-200	175	2500	147	0.2	0.5	1.5
		132											116	460	82	0.25	0.8	2
<b>-300</b>	119	141	25-50	25-50	110	M8	2	<b>5200</b>	4.6	70	60-200	150-300	502	6300	280	0.2	0.5	1.5
		152											285	1400	145	0.25	0.8	2
<b>-500</b>	129	159	35-55	35-55	122	M8	2	<b>4470</b>	6.8	121	80-250	200-500	690	7790	100	0.2	0.5	1.5
		171											320	970	85	0.25	1	2
<b>-800</b>	169	250	50-70	50-70	157	M12	2	<b>3350</b>	17.7	514	240-600	500-800	700	500	185	0.2	0.8	1.8
		85											700	500	185	0.2	0.8	1.8
<b>-1400</b>	169	250	50-70	50-70	157	M12	2	<b>3350</b>	17.8	516	360-1000	900-1400	1270	700	275	0.2	0.8	1.8
		115											1270	700	275	0.2	0.8	1.8

Material: Bellows: Stainless Steel                      Hubs: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C