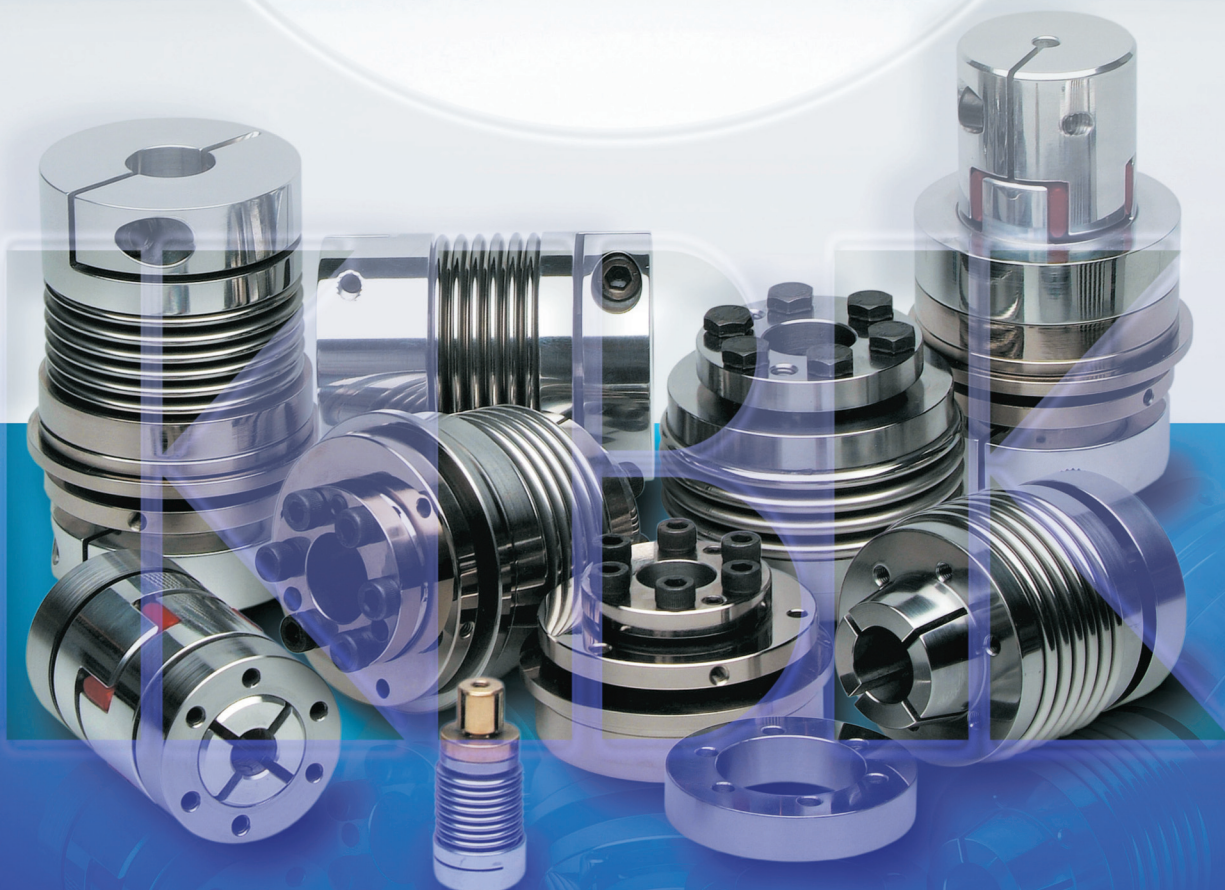


**Metal Bellows Couplings**  
**Safety Couplings**  
**Servo Insert Couplings**





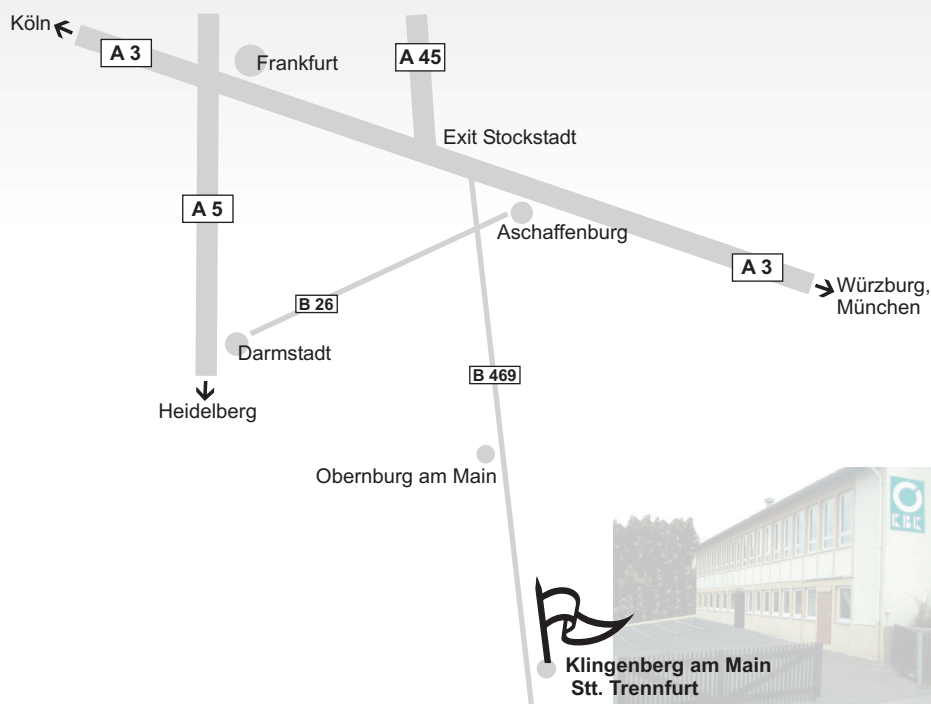
# KBK – The Company

KBK Antriebstechnik GmbH was founded in July 2003.

The vision of manufacturing high quality products “made in Germany” at competitive prices made us become the supplier of a steadily growing number of satisfied customers.

KBK products are the result of over twenty years experience in developing and manufacturing couplings and locking devices.

Our manufacturing facilities are located only 50 minutes from Frankfurt International Airport, which enables us to provide worldwide short and punctual deliveries.



# INDEX

## KB1/1~100

Metal Bellows Coupling  
with Set Screws



## KB2/1~100

Metal Bellows Coupling  
with Collet Clamps



## KB3/5~100

Metal Bellows Coupling  
with Expanding Clamps



## KB4/18~500

Metal Bellows Coupling  
with Collet Clamps



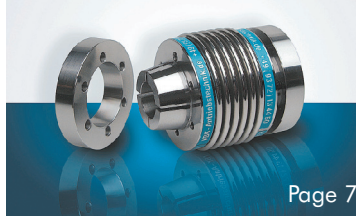
## KB5/18~5000

Metal Bellows Coupling  
with Inner Conical Hub



## KB6/18~5000

Metal Bellows Coupling  
with Outer Conical Hubs



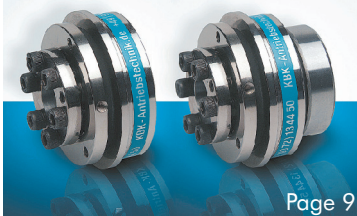
## KB7/18~5000

Metal Bellows Coupling  
for Flange Mounting



## KBK/LL-10~1600

Safety Coupling  
with Inner Conical Hub



## KBK/BK-7~500

Safety Coupling  
with Collet Clamps



## KBK/BI-10~1600

Safety Coupling  
with Inner Conical Hub



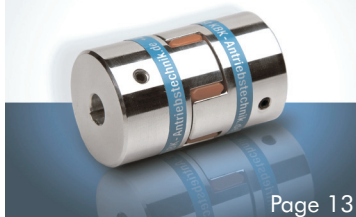
## KBK/EK-14~42

Safety Coupling  
with Collet Clamps



## KBE1-7~65

Servo Insert Coupling  
with Set Screw



## KBE2-7~48

Servo Insert Coupling  
with Collet Clamps



## KBE3-14~65

Servo Insert coupling  
with Outer Conical Hubs

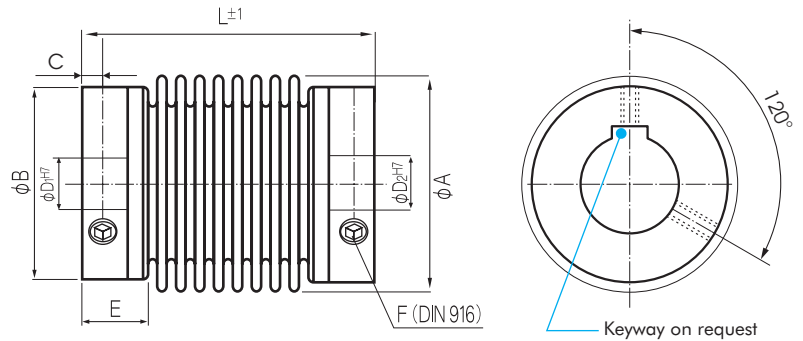


## Locking Devices

- Locking Devices
- Shrink Discs
- Locking Elements

Page 17

### Metal Bellows Coupling



**Order Code: KB 1 / 45 - 40 - 10 - 18 - S**

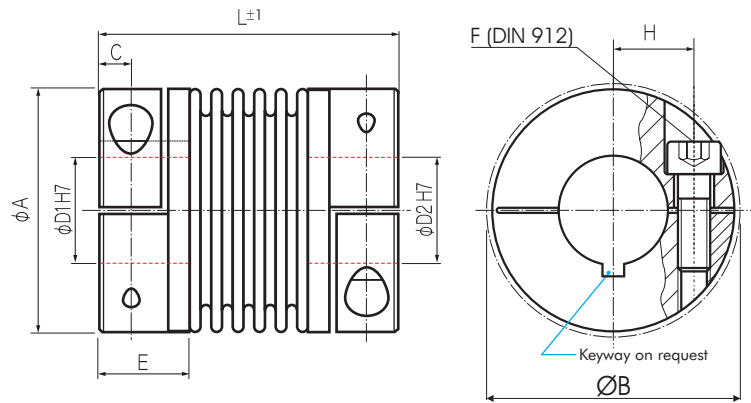
Type / Size      Length L      Ø D1 (H7)      Ø D2 (H7)      Options

	Torque T <sub>KN</sub> (Nm)	Dimensions (mm)							Technical Ratings							
		L	Ø A	D1/D2	Ø B	C	E	F	Mass (g)	Moment of Inertia J (g cm <sup>2</sup> )	Spring Stiffness			Misalignment		
		Length (±1)	Outer Ø	Bore Sizes (H7) min ~ max	Hub Ø	Hub- Length	Screw (DIN 916) T <sub>A</sub> (Nm)	torsional 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> (°)	
KB1/1	0.1	23	10	1-4 3*	10	2	6	M3 0.5	3	0.45	65	10	14	0.12	0.2	1.2
KB1/5	0.5	19	15	3-8 6*	13.5	2	6	M3	4	1.3	260	43	13	0.1	0.2	1
		0.5						4.5	1.5	200	18	10	0.15	0.3	1.5	
		0.5						5	1.6	160	9	8	0.2	0.4	2	
KB1/10	1	21	15	3-8 6*	13.5	2	6	M3	5.5	1.8	510	74	27	0.1	0.2	1
		0.5						6	2	380	31	20	0.15	0.3	1.5	
		0.5						7	2.3	310	16	16	0.2	0.4	2	
KB1/15	1.5	26	19	3-12 6*	19	3	8	M4	10	6	750	59	15	0.1	0.3	1.5
		0.5						12	7.4	700	20	9	0.15	0.4	2	
KB1/20	2	22	24	3-14 6/10*	21.5	3	6	M4	11	9.2	1500	67	12	0.15	0.3	1.5
		0.5						13	12.6	1300	21	11	0.2	0.4	1.5	
		0.5						15	13.5	1050	11	9	0.25	0.5	2	
KB1/45	4.5	40	32	6-18 10*	29	4	12	M6	44	68	6500	168	32	0.1	0.3	1.5
		0.5						50	79	4200	41	20	0.2	0.5	2	
KB1/100	10	45	40	6-24 10*	36	4	12	M6	60	150	8100	120	27	0.15	0.4	1.5
		0.5						79	210	6800	29	17	0.3	0.6	2	

\*Standard Bore Sizes (H7)

- ⊙ Speed: max. 15000 min<sup>-1</sup>
- ⊙ Hub: Bore Tolerance: H7      Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 2 / 45 - 50 - 10 - 16 - S**

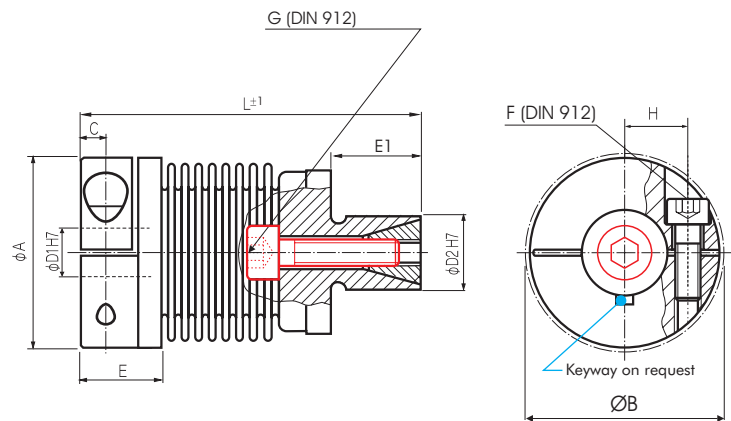
Type / Size      Length L      Ø D1 (H7)      Ø D2 (H7)      Options

	Torque TKN (Nm)	Dimensions (mm)								Technical Ratings							
		L Length (±1)	Ø A Outer Ø	D1/D2 Bore Sizes (H7) min ~ max	H	C	Ø B Max. Ø	E Hub- length	F Screw (DIN 912) TA (Nm)	Mass (g)	Moment of Inertia J (g cm <sup>2</sup> )	Spring Stiffness			Misalignment		
												torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)
KB2/1	0.1	25	10	1-4 3*	3.4	2	11	7	M1.6	3	0.5	65	10	14	0.12	0.2	1.2
									0.1								
KB2/5	0.5	21	15.5	3-7 6*	5.2	2.5	17.5	8	M2	7.5	2.7	260	43	13	0.1	0.2	1
		25							7.8	2.8	200	18	10	0.15	0.3	1.5	
		28							8.2	3	160	9	8	0.2	0.4	2	
KB2/10	1	23	15.5	3-8 6*	5.2	2.5	17.5	8	M2	9	3.1	510	74	27	0.1	0.2	1
		26							9.3	3.4	380	31	20	0.15	0.3	1.5	
		31							10	3.7	310	16	16	0.2	0.4	2	
KB2/15	1.5	26	20	3-10 6*	7	3	21	9	M2.5	13	8	750	59	15	0.1	0.3	1.5
		31							15	9.3	700	20	9	0.15	0.4	2	
KB2/20	2	32	25	3-14 6/10*	9	3.5	27	11	M3	29	24	1500	67	12	0.15	0.3	1.5
		38							32	27	1300	21	11	0.2	0.4	1.5	
		42							2	33	29	1050	11	9	0.25	0.5	2
KB2/45	4.5	41	32.5	6-16 10*	12	5	34	14	M4	61	100	6500	168	32	0.1	0.3	1.5
		50							3.5	67	112	4200	41	20	0.2	0.5	2
KB2/100	10	48	40.5	6-22 10*	15.5	5	41.5	14	M4	86	233	8100	120	27	0.15	0.4	1.5
		57							4.5	106	290	6800	29	17	0.3	0.6	2

\*Standard Bore Sizes (H7)

- ⊙ Speed: max. 15000 min<sup>-1</sup>
- ⊙ Hub: Bore Tolerance: H7    Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 3 / 45 - 52 - 10 - S**

Type / Size

Length L

Ø D1  
(H7)

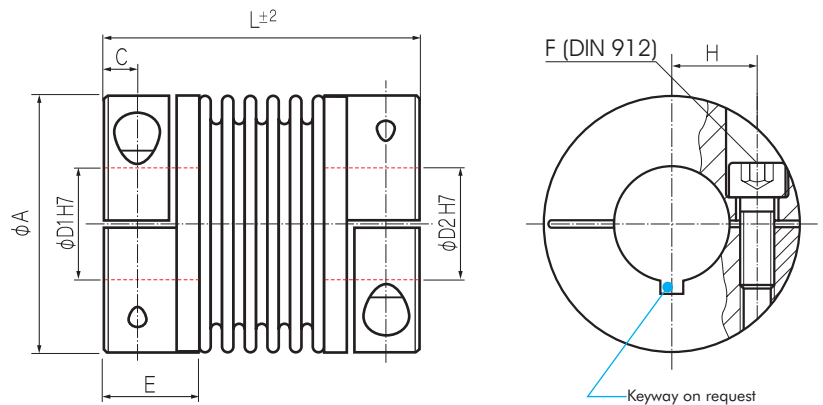
Options

	Torque T <sub>KN</sub> (Nm)	Dimensions (mm)										Technical Ratings								
		L Length (±1)	Ø A Outer Ø	Bore Sizes (H7) min ~ max		D2 Bore Size (H7)	Ø B Max. Ø	H	C	E	E1	F/G Screw (DIN 912) T <sub>A</sub> (Nm)	Mass (g)	Moment of Inertia J (g cm <sup>2</sup> )	Spring Stiffness			Misalignment		
				torsional 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> (°)		
KB3/5	0.5	28	15.5	3-7	8	17,5	5.2	2.5	8	8	M2/M3	12.8	2.9	260	43	13	0.1	0.2	1	
		32		3*							0.3/1	13.2	3.1	200	18	10	0.15	0.3	1.5	
		35										13.5	3.2	160	9	8	0.2	0.4	2	
KB3/10	1	30	15.5	3-7	8	17,5	5.2	2.5	8	8	M2/M3	14.1	3.3	510	74	27	0.1	0.2	1	
		34		6*							0.3/1	14.6	3.4	380	31	20	0.15	0.3	1.5	
		38										15.3	3.6	310	16	16	0.2	0.4	2	
KB3/15	1.5	37	20	3-10	10	21	7	3	9	12	M2.5/M4	27.2	11	750	59	15	0.1	0.3	1.5	
		41		6*							0.8/3	29.3	12	700	20	9	0.15	0.4	2	
KB3/20	2	40	25	3-12.7	10	27	9	3.5	11	12	M3/M4	40.1	25	1500	67	12	0.15	0.3	1.5	
		46		6/10*							1/3	43.2	29	1300	21	11	0.2	0.4	1.5	
		50										49.1	30	1050	11	9	0.25	0.5	2	
KB3/45	4.5	52	32.5	6-16	14	34	12	5	14	16	M4/M5	86.5	98	6500	168	32	0.1	0.3	1.5	
		60		10*							3/5.9	92.9	110	4200	41	20	0.2	0.5	2	
KB3/100	10	61	40.5	6-22	16	41,5	15.5	5	14	20	M4/M6	135	235	8100	120	27	0.15	0.4	1.5	
		71		10*							3/10	154	292	6800	29	17	0.3	0.6	2	

\*Standard Bore Sizes (H7)

- ⊙ Speed: max. 15000 min<sup>-1</sup>
- ⊙ Hub: Bore Tolerance: H7 Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel  
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 4 / 60 - 89 - 12 - 32 - S**

Type / Size

Length

Ø D1  
(H7)

Ø D2  
(H7)

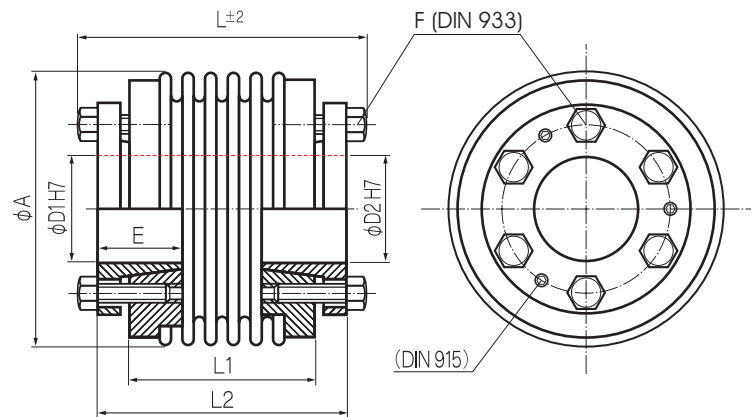
Options

	Torque T <sub>KN</sub> (Nm)	Dimensions (mm)							Technical Ratings								
		L	Ø A	D1/D2	H	C	E	F	Mass (kg)	Moment of Inertia J (kg m <sup>2</sup> )	Spring Stiffness			Misalignment			max Speed rpm
		Length (±2)	Outer Ø	Bore Sizes (H7)				Screw (DIN 912) T <sub>A</sub> (Nm)			torsional 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> (°)	
KB4/18	18	63	45	10-25.4	17	5.5	19.5	M5	0.1	0.04	20	205	50	0.2	0.5	1.5	12800
		71						8	0.15	0.05	15	82	36	0.25	0.5	2	12800
KB4/30	30	65	56	10-30	20	7.5	24.5	M6	0.3	0.15	38	720	50	0.15	0.6	1.5	10300
		73						15	0.32	0.16	28	225	28	0.25	1	2	10300
KB4/60	60	79	66	12-32	23	10	29	M8	0.5	0.33	75	1150	90	0.15	0.6	1.5	8700
		89						40	0.6	0.36	50	340	50	0.25	1	2	8700
KB4/80	80	91	82	14-42	28	11	33.5	M10	2.3	2	128	1200	80	0.2	0.5	1.5	6900
		102						72	2.4	2.1	75	400	50	0.25	0.8	2	6900
KB4/150	150	91	82	19-42	28	11	33.5	M10	2.3	2	155	2020	145	0.2	0.5	1.5	6900
		102						84	2.4	2.1	105	595	85	0.25	0.5	2	6900
KB4/200	200	101	90	22-45	31	13	38	M12	2.6	3.3	175	2500	145	0.2	0.5	1.5	6400
		113						125	2.7	3.5	120	460	82	0.25	0.8	2	6400
KB4/300	300	105	110	30-60	39	13	38	M12	3.6	7.3	502	6300	280	0.2	0.5	1.5	6000
		116						145	3.7	7.5	285	1400	145	0.25	0.8	2	6000
KB4/500	500	112	122	35-65	42	15	42	M12	5.1	12.4	690	7790	100	0.2	0.5	1.5	5000
		123						145	5.2	12.7	320	970	85	0.25	1	2	5000

Material: Bellows - Stainless Steel  
 Hub (KB4/18, KB4/30, KB4/60) Aluminium (also available in Stainless Steel)  
 Hub (KB4/80, KB4/150, KB4/200, KB4/300, KB4/500) Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 5 / 60 - 73 - 20 - 25 - S**

Type / Size      Length      Ø D1 (H7)      Ø D2 (H7)      Options

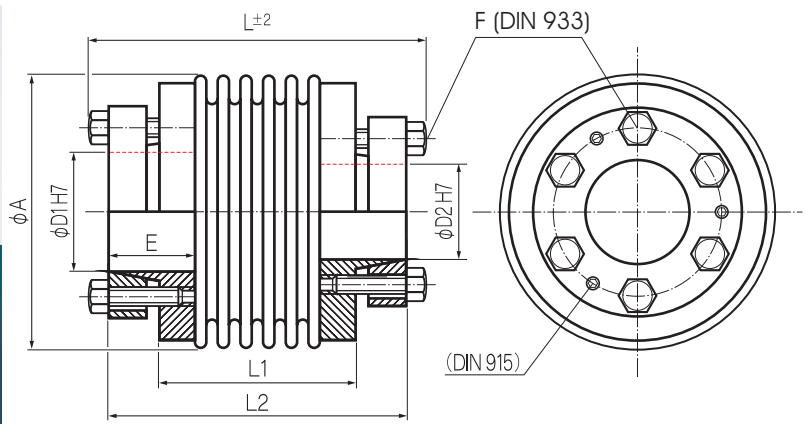
	Torque T <sub>KN</sub> (Nm)	Dimensions (mm)							Technical Ratings							
		L	Ø A	D1/D2	E	L1	L2	F	Mass (kg)	Moment of Inertia J (kg m <sup>2</sup> )	Spring Stiffness			Misalignment		
		Length (±2)	Outer Ø	Bore Size (H7)	Hub Length			Screw (DIN 933) T <sub>A</sub> (Nm)			torsional C <sub>T</sub> (Nm/rad)	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>KB5/18</b>	18	63	47	10-18	20	38	56	4xM5	0.36	0.075	20	205	50	0.2	1	1.5
		71				46	64	4.5	0.37	0.078	15	82	36	0.25	1	2
<b>KB5/30</b>	30	53	56	12-20	20	30	46	6xM5	0.4	0.11	38	720	50	0.15	1	1.5
		61				38	54	4.5	0.42	0.12	28	225	25	0.25	1	2
<b>KB5/60</b>	60	62	66	15-25	25	36	54	6xM6	0.77	0.32	75	1150	90	0.15	1	1.5
		73				47	65	8.5	0.79	0.34	50	340	50	0.25	1	2
<b>KB5/80</b>	80	78	82	20-35	30	50	70	6xM6	1.34	1.05	128	1200	80	0.2	1	1.5
		90				62	82	10	1.39	1.11	75	400	50	0.25	1	2
<b>KB5/150</b>	150	78	82	20-35	30	50	70	6xM6	1.36	1.15	155	2020	145	0.2	1	1.5
		90				62	82	15	1.41	1.21	105	595	85	0.25	1	2
<b>KB5/200</b>	200	78	90	20-40	30	50	70	6xM6	1.59	1.39	175	2500	145	0.2	1	1.5
		91				63	83	15	1.66	1.49	120	460	82	0.25	1	2
<b>KB5/300</b>	300	90	110	25-50	37	56	80	6xM8	3.26	4.66	502	6300	280	0.2	1	1.5
		102				67	91	17	3.32	4.81	285	1400	145	0.25	1	2
<b>KB5/500</b>	500	101	122	35-55	40	66	90	6xM8	3.78	6.11	690	7790	100	0.2	1	1.5
		112				77	101	25	3.87	6.38	320	970	85	0.25	1	2
<b>KB5/800</b>	800	170	157	50-70	60	110	150	6xM16 45	9.05	24.05	760	500	185	0.2	1	1.8
<b>KB5/1400</b>	1400	170	157	50-70	60	110	150	6xM16 80	9.15	24.2	1270	700	275	0.2	1	1.8
<b>KB5/3000</b>	3000	170	157	55-75	60	110	150	6xM16 115	9.43	25.7	2810	2945	305	0.2	1	1.5
<b>KB5/5000</b>	5000	206	208	60-90	65	146	186	6xM16 210	19.9	96.7	4810	4915	505	0.2	1	1.5

Material: Bellows - Stainless Steel      Hub - Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C



### Metal Bellows Coupling



**Order Code: KB 6 / 60 - 78 - 20 - 32 - S**

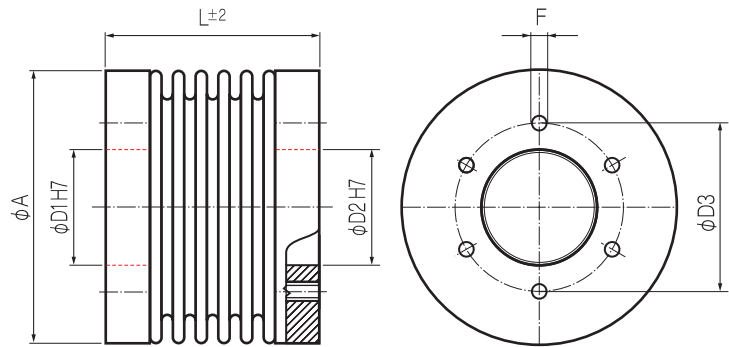
Type / Size      Length      Ø D1 (H7)      Ø D2 (H7)      Options

	Torque T <sub>KN</sub> (Nm)	Dimensions (mm)							Technical Ratings							
		L	Ø A	D1/D2	E	L1	L2	F	Mass (kg)	Moment of Inertia J (kg m <sup>2</sup> )	Spring Stiffness			Misalignment		
		Length (±2)	Outer Ø	Bore Size (H7)	Hub Length			Screw (DIN 933) T <sub>A</sub> (Nm)			torsional 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> (°)
KB6/18	18	65	47	8-15	16.5	37	58	4x M5	0.3	0.081	20	205	50	0.2	0.5	1.5
		73				45	66	5.9	0.31	0.084	15	82	36	0.25	0.5	2
KB6/30	30	60	56	12-20	18	31	53	6x M5	0.37	0.13	38	720	50	0.15	0.6	1.5
		68				39	61	5.9	0.39	0.14	28	225	25	0.25	1	2
KB6/60	60	78	66	15-32	25	36	71	6x M5	0.76	0.46	75	1150	90	0.15	0.6	1.5
		89				47	82	8.7	0.79	0.49	50	340	50	0.25	1	2
KB6/80	80	95	82	20-35	31	50	87	6x M6	1.57	1.37	128	1200	80	0.2	0.5	1.5
		107				62	99	15	1.62	1.43	75	400	50	0.25	1	2
KB6/150	150	95	82	20-35	31	50	87	6x M6	1.59	1.39	155	2020	145	0.2	0.5	1.5
		107				62	99	15	1.64	1.45	105	595	85	0.25	1	2
KB6/200	200	95	90	20-42	31	50	87	6x M6	1.6	1.64	175	2500	145	0.2	0.5	1.5
		108				63	100	15	1.67	1.74	120	460	82	0.25	1	2
KB6/300	300	108	110	25-50	34	57	98	6x M8	2.83	4.52	502	6300	280	0.2	0.5	1.5
		120				68	109	25	2.89	4.68	285	1400	145	0.25	1	2
KB6/500	500	122	122	35-55	41	59	112	6x M8	3.89	7.04	690	7790	100	0.2	0.5	1.5
		134				70	123	36	3.98	7.31	320	970	85	0.25	1	2
KB6/800	800	184	157	50-70	50	108	169	6x M12 85	8.87	24.9	760	500	185	0.2	0.8	1.8
KB6/1400	1400	184	157	50-70	50	108	169	6x M12 115	8.92	25.2	1270	700	275	0.2	0.8	1.8
KB6/3000	3000	220	157	55-75	60	146	204	6x M12 125	10.9	30.9	2810	2945	305	0.2	0.8	1.5
KB6/5000	5000	245	208	60-90	55	146	225	6x M16 210	27.7	144.4	4810	4915	505	0.2	0.8	1.5

Material: Bellows - Stainless Steel      Hub - Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Metal Bellows Coupling



**Order Code: KB 7 / 60 - 41 - 38 - S**

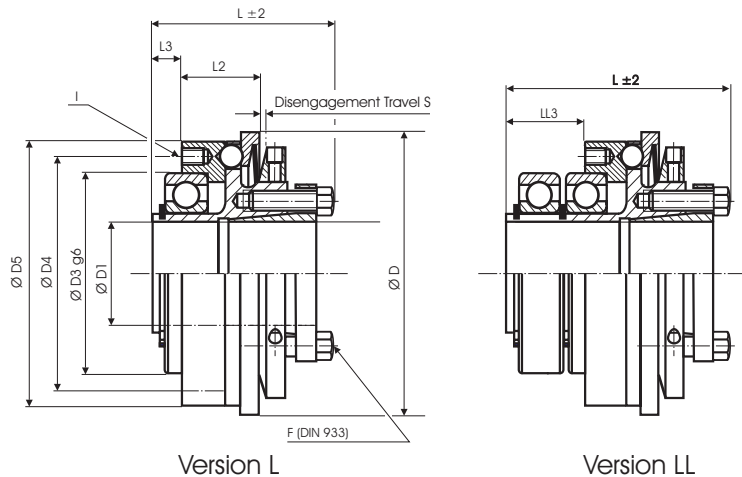
Type / Size      Length    ØD1/ØD2    Options

	Torque $T_{KN}$ (Nm)	Dimensions (mm)					Technical Ratings							
		L Length (±2)	Ø A Outer Ø	Ø D1/D2 Bore Size (H7)	Ø D3	F Thread	Mass (kg)	Moment of Inertia J (kg m <sup>2</sup> )	Spring Stiffness			Misalignment		
									torsional $C_T$ (Nm/rad)	radial $C_R$ (N/mm)	axial $C_A$ (N/mm)	radial $\Delta K_r$ (mm)	axial $\Delta K_a$ (mm)	angular $\Delta K_w$ (°)
KB7/18	18	36	47	22	31	M5	0.128	0.042	20	205	50	0.2	0.5	1.5
		44					0.137	0.045	15	82	36	0.25	0.5	2
KB7/30	30	30	56	28	37	M5	0.174	0.083	38	720	50	0.15	0.6	1.5
		38					0.192	0.093	28	225	25	0.25	1	2
KB7/60	60	41	66	38	46	M6	0.27	0.193	75	1150	90	0.15	0.6	1.5
		51					0.29	0.217	50	340	50	0.25	1	2
KB7/80	80	50	82	50	62	M6	0.65	0.742	128	1200	80	0.2	0.5	1.5
		62					0.69	0.805	75	400	50	0.25	1	2
KB7/150	150	50	82	50	62	M6	0.66	0.75	155	2020	145	0.2	0.5	1.5
		62					0.71	0.81	105	595	85	0.25	1	2
KB7/200	200	50	90	50	62	M6	0.72	0.894	175	2500	145	0.2	0.5	1.5
		63					0.78	0.989	120	460	82	0.25	1	2
KB7/300	300	55	110	65	80	M8	1.18	2.431	502	6300	280	0.2	0.5	1.5
		66					1.24	2.588	285	1400	145	0.25	1	2
KB7/500	500	61	122	70	94	M8	1.94	4.808	690	7790	100	0.2	0.5	1.5
		72					2.03	5.078	320	970	85	0.25	1	2
KB7/800	800	131	157	85	110	M16	3.28	11.207	760	500	185	0.2	0.8	1.75
KB7/1400	1400	131	157	85	110	M16	3.33	11.421	1270	700	275	0.2	0.8	1.75
KB7/3000	3000	131	157	85	110	M16	3.37	11.651	2810	2945	305	0.2	0.8	1.5
KB7/5000	5000	146	208	100	130	M16	11.46	65.517	4810	4915	505	0.2	0.8	1.5

Material: Bellows - Stainless Steel      Hub - Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

### Safety Coupling



**Order Code: KBK/L - 60 - 20H7 - 20Nm - C oder D - 2**

Type - Size

Bore D1 (H7)

Disengagement Torque

Overload Torque Range

Single Position = C

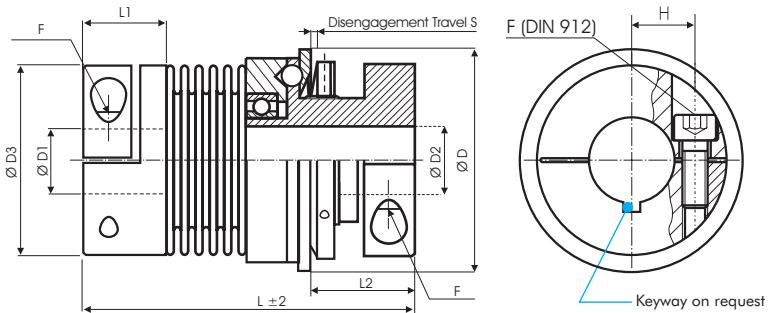
D = Multi Position Engagement

KBK/L-x KBK/LL-x	Dimensions (mm)											Technical Ratings				
	Ø D	Ø D1	Ø D3	Ø D4	Ø D5	L · LL	L2	L3 · LL3	S	I	F	Overload Torque adjustable		Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )
	Outer	Bore Size (H7) min ~ max				Length KBK/L KBK/LL		KBK/L KBK/LL	6x	Screw (DIN 933) T <sub>A</sub> (Nm)	1 TKN (Nm)	2 TKN (Nm)				
-10	49	6-16	37	42	47	36 46	15	5 15	0.7	M3	M3 4	2-5	5-10	12000	0.25	1
-30	64	8-20	47	53	60	43 60	18	6 20	1.2	M4	M5 6	5-15	10-30	9400	0.5	3
-60	79	12-25	62	69	75	58 75	25	8 26	1.2	M5	M6 8.5	13-35	20-65	7800	1	6
-80	94	15-35	68	80	90	60 76	26	10 27	2	M6	M6 14	15-40	30-80	6400	1.6	17
-150	94	15-35	68	80	90	60 76	26	10 27	2	M6	M6 14	50-130	65-150	5500	1.7	17
-200	109	20-40	80	90	105	66 85	30	10 28	2	M6	M6 14	30-90	80-200	5500	2.6	27
-300	119	30-46	90	102	115	75 95	32	10 31	2	M8	M8 20	60-200	100-300	5000	3.6	39
-500	129	35-50	100	112	125	75 95	32	10 31	2	M8	M8 26	80-250	200-500	4500	4.4	80
-800	169	40-60	110	125	165	110 133	50	15 38	2	M12	M16 45	260-600	500-900	3500	12	278
-1400	169	40-60	110	125	165	110 113	50	15 38	2	M12	M16 80	450-900	800-1400	3500	12	278
-1600	194	60-90	150	168	190	125 133	60	19 47	2	M12	M14 100	500-1000	900-1600	3000	16	325

Keyway acc. DIN 6885 optional

Temperature Range: -30° ~ 120° C

### Safety Coupling



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

Type / Size      Length      Ø D2 (H7)      Ø D2 (H7)      Disengagement Torque      Overload Torque Range      Options

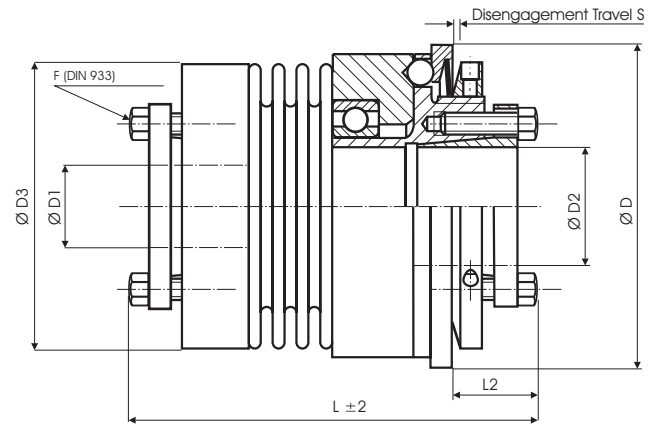
C = Single Position      D = Multi Position Engagement

KBK/BK-x	Dimensions (mm)										Technical Ratings										
	Ø D	L	Ø D1	Ø D2	Ø D3	H	F	L1	L2	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) T <sub>A</sub> (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> (°)
<b>-7</b>	49	65	6	6	40	15.5	M4	16	20	0.7	11690	0.25	0.7	1	3	8.1	120	27	0.15	0.4	1.5
		75	25	19			5.1							4	7						
<b>-10</b>	49	65	6	6	40	15.5	M4	16	20	0.7	11690	0.25	0.7	3	5	8.1	120	27	0.15	0.4	1.5
		75	25	19			5.1							7	10						
<b>-30</b>	64	85	10	10	56	20	M6	25	30.5	1.2	9540	0.7	3.2	5	10	38	720	50	0.15	0.6	1.5
		94	25	20			15							15	30						
<b>-60</b>	79	105	14	14	66	23	M8	30	28	1.2	8180	1.4	8	12	20	75	1150	90	0.15	0.6	1.5
		115	35	25			36							35	60						
<b>-80</b>	94	113	20	20	82	33.5	M10	33	42	2	6220	2.3	19	15	30	128	1200	80	0.2	0.5	1.5
		125	40	35			72							40	80						
<b>-150</b>	94	113	20	20	82	33.5	M10	33	42	2	6220	2.4	30	50	65	155	2020	145	0.2	0.5	1.5
		125	40	35			72							130	150						
<b>-200</b>	109	125	25	25	90	38	M12	38	42	2	5720	3	33	30	80	175	2500	147	0.2	0.5	1.5
		138	42	32			125							90	200						
<b>-300</b>	119	140	32	32	110	38	M12	38	38	2	5200	5.3	65	60	100	502	6300	280	0.2	0.5	1.5
		150	50	40			125							200	300						
<b>-500</b>	129	158	40	35	122	42	M12	42	56	2	4470	6.2	130	80	200	690	7790	100	0.2	0.5	1.5
		170	60	50			125							250	500						

Material: Bellows - Stainless Steel  
 Hub (KBK/BK7, KBK/BK10, KBK/BK30, KBK/BK60) Aluminium  
 Hub (KBK/BK80, KBK/BK150, KBK/BK200, KBK/BK300, KBK/BK500) Steel

Temperature Range: -30° ~ 120° C

## Safety Coupling



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

Type / Size

Length

Ø D2 (H7)

Ø D2 (H7)

Disengagement Torque

oder **D - 2**

Overload Torque Range

C = Single Position D = Multi Position Engagement

KBK/BI-x	Dimensions (mm)								Technical Ratings										
	ØD	L	ØD1	ØD2	ØD3	F	L2	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		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	68	6-14	6-14	40.5	M3	10	0.7	11650	0.25	0.7	3-7	5-10	8.1	120	27	0.15	0.4	1.5
		78				1.5													
<b>-30</b>	64	85	10-20	10-20	56	M5	12	1.2	9540	0.7	3.2	5-15	10-30	38	720	50	0.15	0.6	1.5
		94				6													
<b>-60</b>	79	100	15-25	15-25	66	M6	13	1.2	8180	1.4	8	12-35	20-60	75	1150	90	0.15	0.6	1.5
		110				8.5													
<b>-80</b>	94	115	20-35	20-35	82	M6	15	2	6220	2.3	19	15-40	30-80	128	1200	80	0.2	0.5	1.5
		128				14													
<b>-150</b>	94	115	20-35	20-35	82	M6	15	2	6220	2.4	20	50-130	65-150	155	2020	145	0.2	0.5	1.5
		128				14													
<b>-200</b>	109	125	20-40	20-40	90	M6	15	2	5720	3	33	30-90	80-200	175	2500	147	0.2	0.5	1.5
		135				14													
<b>-300</b>	119	135	30-50	30-46	110	M8	19	2	5200	5.3	65	60-200	100-300	502	6300	280	0.2	0.5	1.5
		145				18													
<b>-500</b>	129	150	35-55	35-50	122	M8	18.5	2	4470	7	170	80-250	200-500	690	7790	100	0.2	0.5	1.5
		162				26													
<b>-800</b>	169	235	40-70	40-60	157	M16	30	2	3350	19	540	240-600	500-800	700	500	185	0.2	0.8	1.8
		45				45													
<b>-1400</b>	169	235	40-70	40-60	157	M16	30	2	3350	20	560	360-1000	900-1400	1270	700	275	0.2	0.8	1.8
		80				80													
<b>-1600</b>	194	250	60-90	70-90	157	M12	32	2	3000	22	600	360-1000	900-1600	2810	2945	305	0.2	0.8	1.5
		90				90													

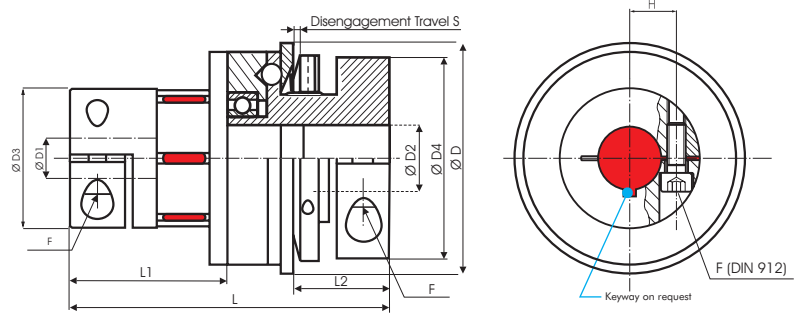
Material: Bellows: Stainless Steel

Hub: Steel (also available in Stainless Steel)

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 120°C

## Torque Limiting



**Oder Code: KBK/EK - 24 - 16H7 - 14H7 - 20Nm - CoderD - 2**

Type - Size

Bore D1(H7)

Bore D2(H7)

Disengagement Torque

**CoderD - 2**

Overload Torque Range

C = Single Position, D = Multi Position Engagement

KBK/EK-x	Dimensions (mm)											Technical Ratings								
	Ø D	L	Ø D1	Ø D2	Ø D3	Ø D4	H	F	L1	L2	S	Maximum Speed rpm. (1/min)	Mass (kg)	Moment of Inertia J (kg cm <sup>2</sup> )	Torque T <sub>KN</sub> (Nm)	Overload Torque adjustable		Misalignment		
	Outer Ø	Length	Bore (H7) min ~ max	Bore (H7) min ~ max				Screw (DIN 912) T <sub>A</sub> (Nm)								1 T <sub>KN</sub> (Nm)	2 T <sub>KN</sub> (Nm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)
-14	49	65	4-14	6-19	30	40	15.5	M4 5.1	16	20	0.7	11690	0.3	1.4	12.5	3-7	5-10	0.06	1.2	0.9
-19	64	100	10-20	10-20	40	56	24.5	M6 15	25	22	1.2	8950	0.5	3	17	5-15	10-19	0.06	1.2	0.9
-24	79	115	15-28	14-23	55	66	29	M8 36	30	28	1.2	7630	0.7	5.4	60	12-35	20-60	0.08	1.3	0.9
-28	94	142	19-35	20-35	65	82	33.5	M10 72	33	42	2	6030	1.4	9.7	160	50-130	65-150	0.1	1.4	0.9
-38	119	160	20-45	32-40	80	110	38	M12 125	38	38	2	4980	2.2	23	325	60-200	100-300	0.11	1.5	0.9
-42	129	195	28-45	35-50	95	122	42	M12 125	42	56	2	4440	4.6	80	450	80-250	200-500	0.12	1.8	0.9

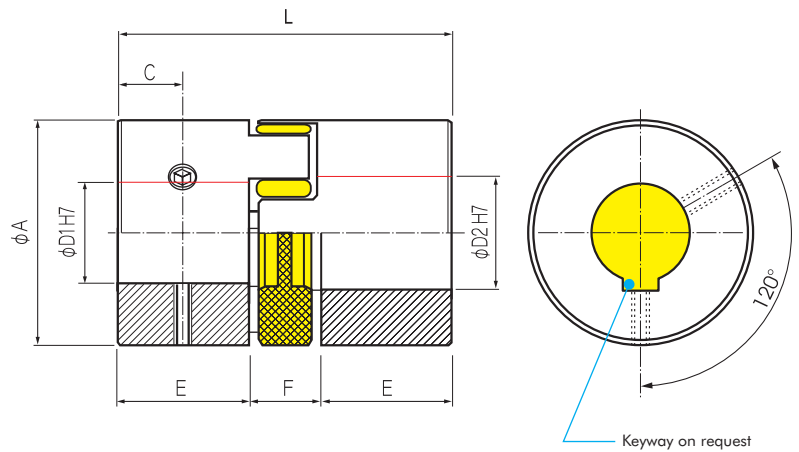
Material: Insert: Polyurethan 98 Sh A red  
Hub (KBK/EK-14, KBK/EK-19, KBK/EK-24, KBK/EK-28): Aluminium  
Hub (KBK/EK-38, KBK/EK-42): Steel

Keyway acc. DIN 6885 optional

Temperature Range: -30°C ~ 90°C

Form of Hubs (KBK/EK-14, KBK/EK-19): Single Slit  
Form of Hubs (KBK/EK-24, KBK/EK-28, KBK/EK-38, KBK/EK-42): Double Slit

## Servo Insert Coupling



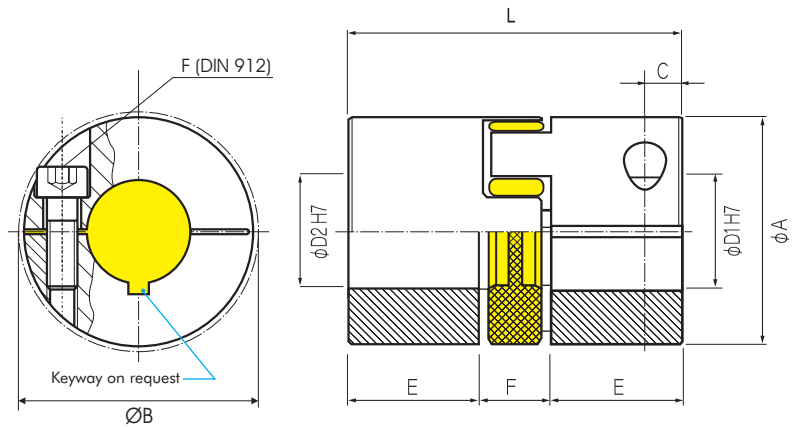
**Order Code: KBE 1 - 14 - 10H7 - 12H7 - S**

Type
Size
Bore D1(H7)
Bore D2(H7)
Options

	Dimensions (mm)							Technical Ratings			
	$\phi A$	L	$\phi D1-D2$	E	F	C	F	Maximum Speed	Mass (per Hub)	Moment of Inertia J	Torque
	Outer $\phi$	Length	Bore Sizes (H7) min ~ max				Screw (DIN 916) T <sub>A</sub> (Nm)	rpm. (1/min)	(g)	(kg mm <sup>2</sup> )	(Nm)
<b>KBE 1 - 7</b>	14	22	4 - 7	7	8	3.5	M3	34000	3	0.2	1.2
							1.3				
<b>KBE 1 - 9</b>	20	30	6 - 9	10	10	5	M3	24000	9	1.1	3
							1.3				
<b>KBE 1 - 14</b>	30	35	6 - 16	11	13	5	M4	16000	20	5.6	7.5
							3				
<b>KBE 1 - 19</b>	40	66	10 - 24	25	16	10	M5	12000	26	36	10
							6				
<b>KBE 1 - 24</b>	55	78	16 - 28	30	18	10	M5	8500	132	150	35
							6				
<b>KBE 1 - 28</b>	65	90	20 - 38	35	20	15	M6	7200	253	330	160
							11				
<b>KBE 1 - 38</b>	80	114	20 - 45	45	24	15	M8	6000	455	960	325
							25				
<b>KBE 1 - 42</b>	95	126	20 - 55	50	26	20	M8	4800	1850	4900	450
							25				
<b>KBE 1 - 48</b>	105	140	20 - 60	56	28	20	M8	4300	2520	8300	525
							25				
<b>KBE 1 - 55</b>	120	160	25 - 70	65	30	22	M10	3900	3800	15000	685
							45				
<b>KBE 1 - 65</b>	135	185	25 - 75	75	35	22	M10	3500	4500	25000	940
							45				

Material: Insert (KBE1-7; KBE1-9): Polyurethan 92 Sh A (yellow)  
 Insert (KBE1-14 bis KBE1-65): Polyurethan 98 Sh A (red)  
 Hub: Aluminium

### Servo Insert Coupling



**Oder Code: KBE 2 - 14 - 10H7 - 12H7 - S**  
 Type                      Size                      Ø D1(H7)                      Ø D2(H7)                      Options

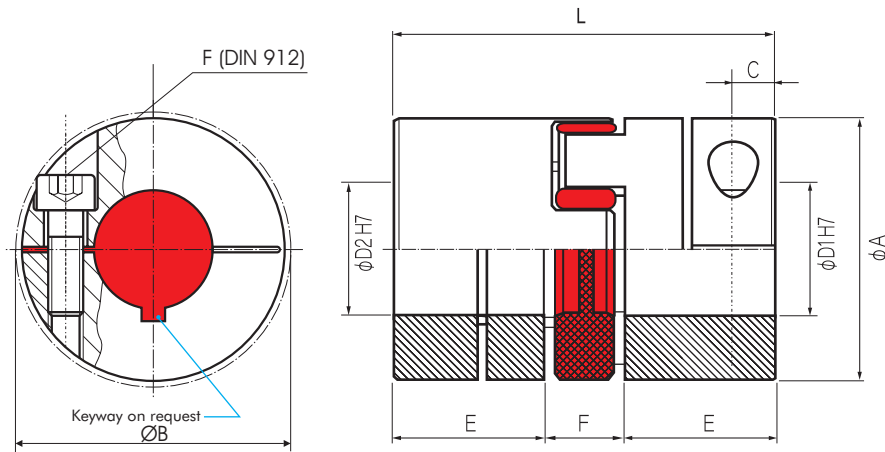
	Dimensions (mm)							Technical Ratings				
	ØA	L	Ø D1-D2	E	F	C	B	F	Maximum Speed	Mass (per Hub)	Moment of Inertia J	Torque
		Length	Bore Sizes (H7) min ~ max				Max. Ø	Screw (DIN 912) T <sub>A</sub> (Nm)	rpm. (1/min)	(g)	(kg cm <sup>2</sup> )	(Nm)
<b>KBE 2 - 7</b>	14	22	4 - 7	7	8	3.5	15	M2 0.37	27000	3	0.2	1.2
<b>KBE 2 - 9</b>	20	30	4 - 9	10	10	5	23.4	M2.5 0.75	19000	9	1.1	3
<b>KBE 2 - 14</b>	30	35	4 - 14	11	13	5	32.2	M3 1.4	13000	20	5.6	12.5
<b>KBE 2 - 19</b>	40	66	10 - 20	25	16	12	45.7	M6 11	10000	26	36	17

#### Transmissible Torque (Nm) of the Hubs

	Ø Bore (mm)														
	3	4	5	6	7	8	9	10	11	12	14	15	16	19	20
<b>KBE 2 - 7</b>	0.8	0.9	0.95	1	1.1										
<b>KBE 2 - 9</b>		2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8						
<b>KBE 2 - 14</b>		3.4	3.5	3.6	3.7	3.9	4	4.1	4.2	4.3	4.6	4.7	4.8		
<b>KBE 2 - 19</b>								27	27	29	30	31	32	32	34

- ⊗ Hub:                      Bore Tolerance: H7      Keyway acc. DIN 6885 optional
- ⊗ Material:                Insert - Polyurethan  
                                  Hub - Aluminium
- ⊗ Hardness:                up to Size 9: 92 Sh A (yellow)  
                                  from Size 14: 98 Sh A (red)





**Order Code: KBE 2 - 38 - 20H7 - 40H7 - S**  
 Type                      Size                      Ø D1(H7)                      Ø D2(H7)                      Options

	Dimensions (mm)								Technical Ratings			
	ØA	L	Ø D1-D2	E	F	C	B	F	Maximum Speed	Mass (per Hub)	Moment of Inertia J	Torque
		Total Length	Bore Sizes (H7) min ~ max				Max. Ø	Screw (DIN 912) TA (Nm)	rpm. (1/min)	(g)	(kg cm <sup>2</sup> )	(Nm)
<b>KBE 2 - 24</b>	55	78	15 - 28	30	18	14	56.4	M6 11	27000	0.13	150	60
<b>KBE 2 - 28</b>	65	90	19 - 35	35	20	15	72.6	M8 25	19000	0.25	330	160
<b>KBE 2 - 38</b>	80	114	20 - 45	45	24	20	83.3	M8 25	13000	0.45	960	325
<b>KBE 2 - 42</b>	95	126	28 - 45	50	26	20	88.8	M8 25	10000	1.9	4900	450
<b>KBE 2 - 48</b>	105	140	25 - 50	56	28	22	90.6	M10 49	10000	2.5	8300	525

Transmissible Torque (Nm) of the Hubs

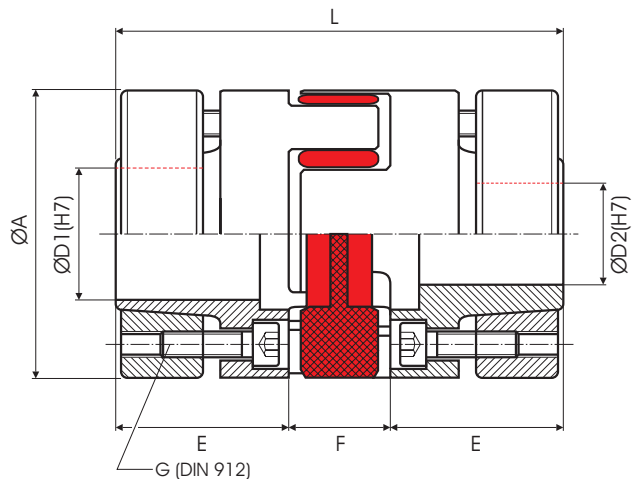
	Ø Bore (mm)																
	15	16	19	20	22	24	25	28	30	32	35	38	40	42	45	48	50
<b>KBE 2 - 24</b>	39	43	44	46	47	49	50	52									
<b>KBE 2 - 28</b>			91	93.5	96	98	100	104	107	110	113						
<b>KBE 2 - 38</b>				107	110	112	114	118	121	123	127	131	134	137	141		
<b>KBE 2 - 42</b>								250	255	260	267	279	281	288	298		
<b>KBE 2 - 48</b>										445	457	470	472	508	520	534	543

Hub:                      Bore Tolerance: H7      Keyway acc. DIN 6885 optional

Material:                      Insert - Polyurethan  
    Hub - Aluminium

Shorehärte:                      98 Sh A (red)

## Servo Insert Coupling



**Order Code: KBE 3 - 48 - 40H7 - 35H7 - S**  
 Type                      Size                      Bore D1 (H7)                      Bore D2 (H7)                      Options

	Dimensions (mm)							Technical Ratings			
	Ø A	L	Ø D1-D2	E	F	G	Maximum Speed rpm. (1/min)	Mass (per Hub) (kg)	Moment of Inertia J (kg mm <sup>2</sup> )	Torque (Nm)	
	Outer Ø	Total Length	Bore Sizes (H7) min ~ max			Screw (DIN 912)					Torque to Tighten Clamps T <sub>A</sub> (Nm)
<b>KBE 3 - 14</b>	30	50	8 - 14	19	13	M3	1.34	25000	0.05	7	12.5
<b>KBE 3 - 19</b>	40	66	10 - 19	25	16	M4	2.9	19000	0.12	31	17
<b>KBE 3 - 24</b>	55	78	19 - 25	30	18	M5	6	14000	0.28	135	60
<b>KBE 3 - 28</b>	65	90	19 - 38	35	20	M5	6	12000	0.45	313	160
<b>KBE 3 - 38</b>	80	114	24 - 38	45	24	M6	10	10000	0.95	960	325
<b>KBE 3 - 42</b>	95	126	28 - 50	50	26	M8	35	8000	2.3	3200	450
<b>KBE 3 - 48</b>	105	140	35 - 60	56	28	M8	35	7000	3.08	5200	525
<b>KBE 3 - 55</b>	120	160	40 - 65	65	30	M10	69	6000	4.67	15000	685
<b>KBE 3 - 65</b>	135	185	45 - 70	75	30	M12	120	5000	6.7	25000	940

### Transmissible Torque (Nm) of the Hubs

	Ø Bore (mm)																											
	6	10	11	14	15	16	19	20	24	25	28	30	32	35	38	40	42	45	48	50	55	60	65	70				
<b>KBE 3 - 14</b>	8.6	13.8	14.7	22.7																								
<b>KBE 3 - 19</b>		41	45	62	68	67	83	90																				
<b>KBE 3 - 24</b>			48	67	74	72	90	97	112	120	143																	
<b>KBE 3 - 28</b>					142	154	189	188	237	250	280	307	310	353	389													
<b>KBE 3 - 38</b>								269	337	356	398	436	424	501	533	572	585	644										
<b>KBE 3 - 42</b>									399	445	506	470	566	581	647	630	728	836	858									
<b>KBE 3 - 48</b>											775	819	955	999	1092	1091	1230	1381	1334	1540								
<b>KBE 3 - 55</b>														918	954	1052	1040	1185	1220	1318	1359	1646	1662	1960				
<b>KBE 3 - 65</b>																1568	1569	1768	1833	1968	2049	2438	2495	2898				

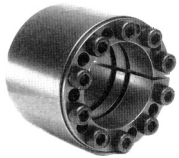
Material: Insert: Polyurethan 98 Sh A (red)  
 Hub: (KBE3-14, KBE3-19, KBE3-24, KBE3-28, KBE3-38) Aluminium  
 Hub: (KBE3-42, KBE3-48, KBE3-55, KBE3-65) Steel

# Locking Devices



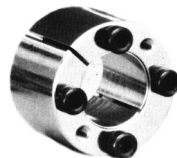
## Product Range

### Locking Devices:



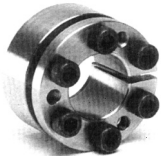
#### **KBS 11**

selfcentering,  
for high torques



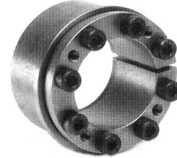
#### **KBS 61**

simple construction, good centering and  
true running



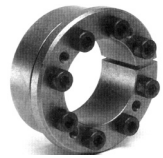
#### **KBS 13**

short construction,  
selfcentering



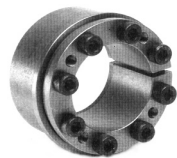
#### **KBS 70**

for high concentricity and rectangularity,  
no axial displacement



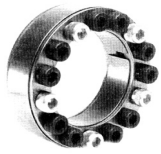
#### **KBS 16**

high concentricity, no axial displacement,  
selfcentering



#### **KBS 71**

for high concentricity and rectangularity,  
selfcentering



#### **KBS 40**

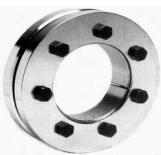
cost effective,  
not selfcentering



#### **KBS 80**

for connections of hubs with small hub thickness,  
high position accuracy

### Shrink Discs:



#### **KBS 19**

for hollow shaft connections  
also under impact of bending moments

### Locking Elements:



#### **KBS 50**

cost effective, for low and middle torques,  
fixing flange required

Ask for our catalogue "Locking Devices".





The details contained in this catalogue are product descriptions based on our knowledge and experience.  
We reserve the right to make alterations at any time and cannot be responsible for any omissions or printing errors.

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