

Miniature Couplings

Bellows Couplings

Servo Insert Couplings

Line Shafts





KBK – The Company

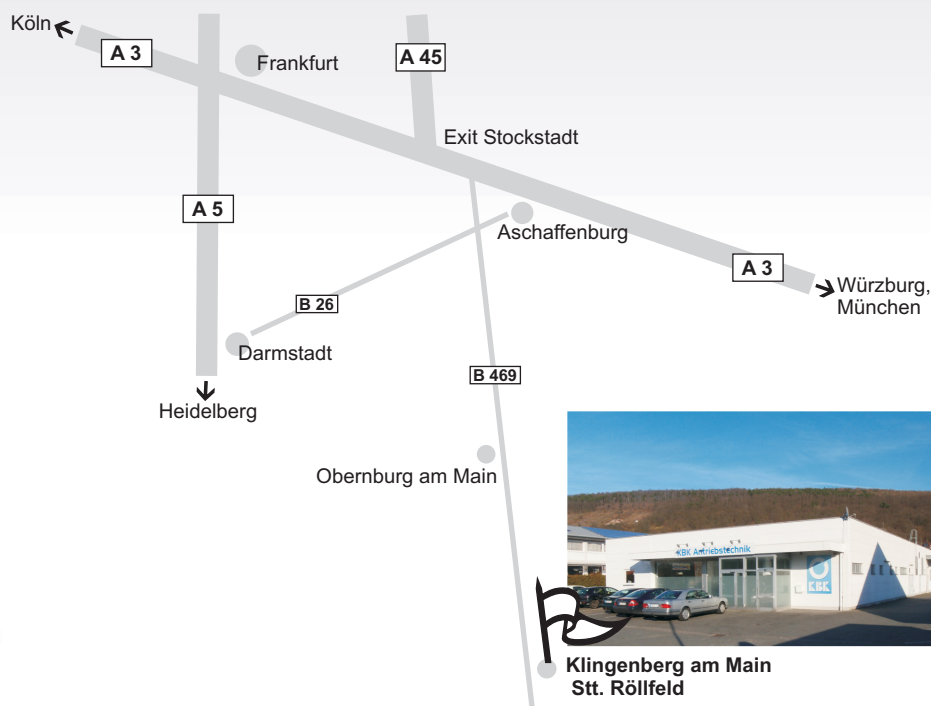
KBK Antriebstechnik GmbH was founded in July 2003.

Our 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 in 52 countries.

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

In 2010 we have extended not only our product range but also our production site to over 1000 square meters and have refurbished our NC turning lathes and Milling machines. This helps us to dispatch standard as well as customized products within two hours.

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





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MINIATURE COUPLINGS

KB1/05~100

Miniature Metal Bellows Couplings
with Set Screws



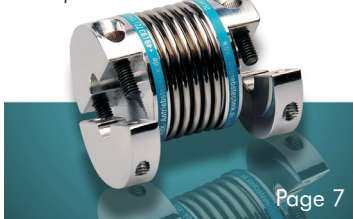
KB2/1~100

Miniature Metal Bellows Couplings
with Collet Clamps



KB2H/5~100

Miniature Metal Bellows Couplings
with Split Hubs



KB2VA/1~100

Miniature Metal Bellows Couplings
with Collet Clamps in Stainless Steel

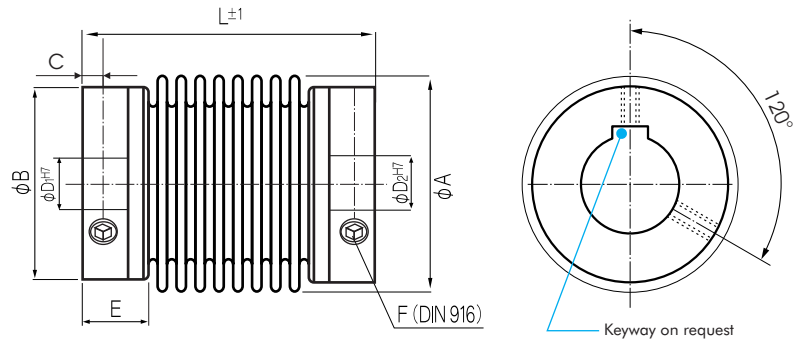


KB3/5~100

Miniature Metal Bellows Couplings
with Expanding Clamps



Miniature Metal Bellows Coupling



Order Code: KB 1 / 45 - 40 - 10 - 18 (- S)
 Type / Size Length L Ø D1 (H7) Ø D2 (H7) Options

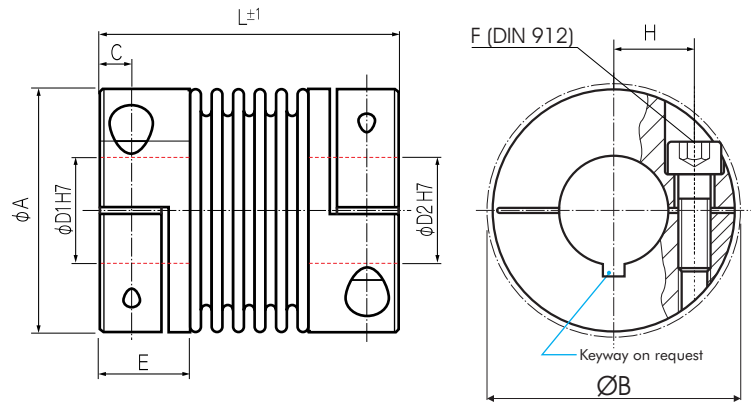
	Torque T _{KN} (Nm)	Dimensions (mm)							Technical Ratings							
		L Length (±1)	Ø A Outer Ø	D1/D2 Bohre Sizes (H7) min ~ max	Ø B Hub Ø	C	E Hub- Length	F Screw (DIN 916) T _A (Nm)	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
											torsinal C _T (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)
KB1/05	0.05	14	6.5	1-3	6.5	1.5	4	1x M2 0.35	1	0.1	50	6	9	0.1	0.4	1
KB1/1	0.1	23	10	1-4	10	2	6	1x M3 0.5	3	0.45	65	10	14	0.12	0.2	1.2
KB1/5	0.5	19	15	3-8	13.5	2	6	1x 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	13.5	2	6	1x 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	19	3	8	2x M4	10	6	750	59	15	0.1	0.3	1.5
		30						1.5	12	7.4	700	20	9	0.15	0.4	2
KB1/20	2	22	24	3-14	21.5	3	6	2x M4	11	9.2	1500	67	12	0.15	0.3	1.5
		28						1.5	13	12.6	1300	21	11	0.2	0.4	1.5
		32						1.5	15	13.5	1050	11	9	0.25	0.5	2
KB1/45	4.5	40	32	6-19	29	4	12	2x M6	44	68	6500	168	32	0.1	0.3	1.5
		48						3	50	79	4200	41	20	0.2	0.5	2
KB1/100	10	45	40	6-24	36	4	12	2x M6	60	150	8100	120	27	0.15	0.4	1.5
		55						3	79	210	6800	29	17	0.3	0.6	2

- ⊙ Speed: max. 15000 min⁻¹
- ⊙ Hub: Bore Tolerance: H7 Keyway acc. DIN 6885 optional
- ⊙ Material: Bellows - Stainless Steel, Size 05: Bronze
Hub - Aluminium (also available in Stainless Steel)
- ⊙ Temperature Range: -30° ~ 120° C



Miniature Metal Bellows Coupling

with Collet Clamps

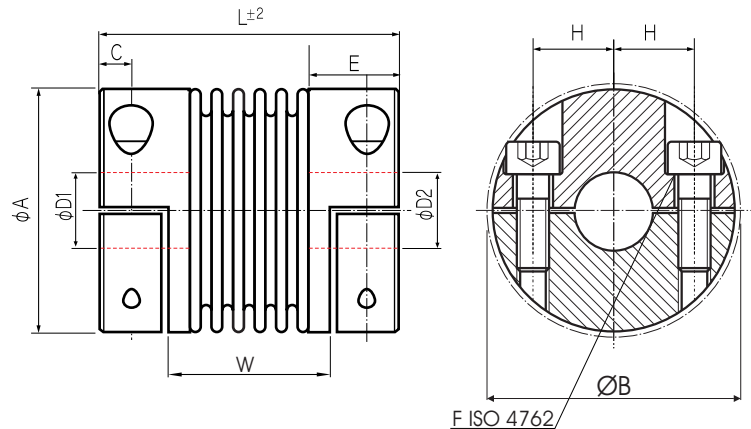
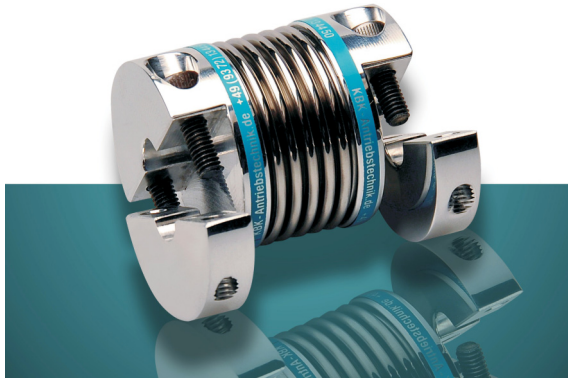


Order Code: KB 2 / 45 - 50 - 10 - 16 (- S)
 Type / Size Length L Ø D1 (H7) Ø D2 (H7) Options

	Torque TKN (Nm)	Dimensions (mm)								Technical Ratings							
		L	Ø A	D1/D2	H	C	Ø B	E	F	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
		Length (±1)	Outer Ø	Bore Sizes (H7) min ~ max			Max. Ø	Hub- length	Screw (DIN 912) TA (Nm)			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	3.4	2	11	7	M1.6 0.1	3	0.5	65	10	14	0.12	0.2	1.2
KB2/5	0.5	21	15.5	3-8	5.2	2.5	17.5	8	M2	7.5	2.7	260	43	13	0.1	0.2	1
									7.8	2.8	200	18	10	0.15	0.3	1.5	
		0.43							8.2	3	160	9	8	0.2	0.4	2	
KB2/10	1	23	15.5	3-8	5.2	2.5	17.5	8	M2	9	3.1	510	74	27	0.1	0.2	1
									9.3	3.4	380	31	20	0.15	0.3	1.5	
		0.43							10	3.7	310	16	16	0.2	0.4	2	
KB2/15	1.5	26	20	3-10	7	3	21	9	M2.5	13	8	750	59	15	0.1	0.3	1.5
		0.85							15	9.3	700	20	9	0.15	0.4	2	
KB2/20	2	32	25	3-14	9	3.5	27	11	M3	29	24	1500	67	12	0.15	0.3	1.5
									32	27	1300	21	11	0.2	0.4	1.5	
		2							33	29	1050	11	9	0.25	0.5	2	
KB2/45	4.5	41	32.5	6-16	12	5	34	14	M4	61	100	6500	168	32	0.1	0.3	1.5
		3.5							67	112	4200	41	20	0.2	0.5	2	
KB2/100	10	47	40.5	6-25	15.5	5	41.5	14	M4	86	233	8100	120	27	0.15	0.4	1.5
		4.5							106	290	6800	29	17	0.3	0.6	2	

- ⊙ Speed: max. 15000 min⁻¹
- ⊙ 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

Miniature Metal Bellows Coupling with Split Hubs



Order Code: KB 2H / 45 - 50 - 10 - 16 (- S)
 Type / Size Length L Ø D1 (H7) Ø D2 (H7) Options

	Torque TKN (Nm)	Dimensions (mm)									Technical Ratings							
		L	Ø A	D1/D2	H	C	ØB	E	W	F	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
		Length (±1)	Outer Ø	Bore Sizes (H7) min ~ max					Screw (DIN 912) TA (Nm)	torsional CT (Nm/rad)			radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
KB2H/5	0.5	21	15.5	3-8	5.2	2.5	17.5	8	12	M2	7.5	2.7	260	43	13	0.1	0.2	1
		16							0.43	7.8	2.8	200	18	10	0.15	0.3	1.5	
		19								8.2	3	160	9	8	0.2	0.4	2	
KB2H/10	1	23	15.5	3-8	5.2	2.5	17.5	8	14	M2	9	3.1	510	74	27	0.1	0.2	1
		17							0.43	9.3	3.4	380	31	20	0.15	0.3	1.5	
		22								10	3.7	310	16	16	0.2	0.4	2	
KB2H/15	1.5	26	20	3-10	7	3	21	9	14.4	M2.5	13	8	750	59	15	0.1	0.3	1.5
		19.4							0.85	15	9.3	700	20	9	0.15	0.4	2	
KB2H/20	2	32	25	3-14	9	3.5	27	11	18.4	M3	29	24	1500	67	12	0.15	0.3	1.5
		24.4							2	32	27	1300	21	11	0.2	0.4	1.5	
		28.4								33	29	1050	11	9	0.25	0.5	2	
KB2H/45	4.5	41	32.5	6-16	12	5	34	14	24	M4	61	100	6500	168	32	0.1	0.3	1.5
		33							3.5	67	112	4200	41	20	0.2	0.5	2	
KB2H/100	10	48	40.5	6-25	15.5	5	41.5	14	30	M4	86	233	8100	120	27	0.15	0.4	1.5
		39							4.5	106	290	6800	29	17	0.3	0.6	2	

⊙ Speed: max. 15000 min⁻¹

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

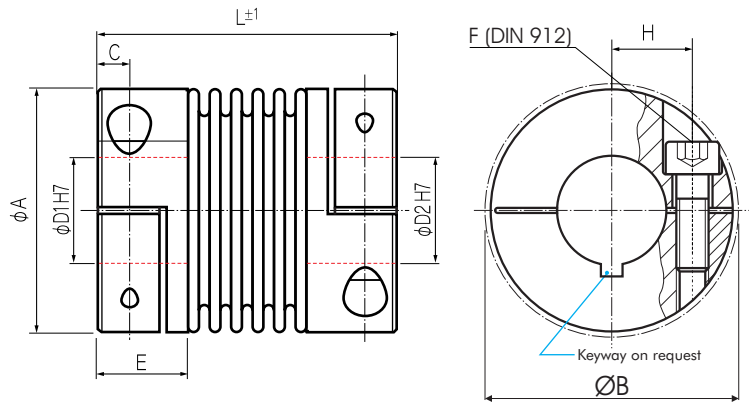
⊙ Material: Bellows - Stainless Steel
Hub - Aluminium

⊙ Temperature Range: -30° ~ 120° C



Miniature Metal Bellows Coupling Stainless Steel

with Collet Clamps



Order Code: KB 2 / 45 - 55 - 10 - 16 - VA/VAW

Type / Size

Length L

Ø D1 (H7)

Ø D2 (H7)

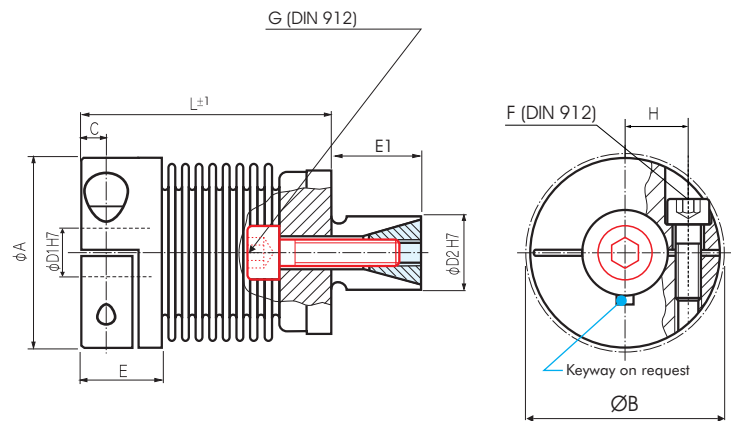
Stainless Steel laser-beam-welded
Stainless Steel glued

VA/VAW	Torque TKN (Nm)	Dimensions (mm)								Technical Ratings							
		L	Ø A	D1/D2	H	C	Ø B	E	F	Mass	Moment of Inertia J	Spring Stiffness			Misalignment		
		Length (±1)	Outer Ø	Bore Sizes (H7) min ~ max			Max Ø	Hub-length	Screw (DIN 912)			torsial CT	radial CR	axial CA	radial ΔKr	axial ΔKa	angular ΔKw
KB2/1	0.1	25	10	1-4	3.4	2	11	7	M1.6	7	1	65	10	14	0.12	0.2	1.2
KB2/5	0.5	21	15.5	3-8	5.2	2.5	17.5	8	M2	18	5.9	260	43	13	0.1	0.2	1
		18							6.2	200	18	10	0.15	0.3	1.5		
		0.43							19	6.6	160	9	8	0.2	0.4	2	
KB2/10	1	23	15.5	3-8	5.2	2.5	17.5	8	M2	19	6.8	510	74	27	0.1	0.2	1
		20							7.5	380	31	20	0.15	0.3	1.5		
		0.43							21	8.1	310	16	16	0.2	0.4	2	
KB2/15	1.5	26	20	3-10	7	3	21	9	M2.5	36	18	750	59	15	0.1	0.3	1.5
		0.85							38	21	700	20	9	0.15	0.4	2	
KB2/20	2	32	25	3-14	9	3.5	18	11	M3	70	53	1500	67	12	0.15	0.3	1.5
		73							60	1300	21	11	0.2	0.4	1.5		
		2							75	64	1050	11	9	0.25	0.5	2	
KB2/45	4.5	41	32.5	6-16	11.5	5	34	14	M4	133	220	6500	168	32	0.1	0.3	1.5
		14						3.5	139	246	4200	41	20	0.2	0.5	2	
KB2/100	10	47	40.5	6-25	15.5	5	41.5	14	M4	244	513	8100	120	27	0.15	0.4	1.5
		14						4.5	261	638	6800	29	17	0.3	0.6	2	

- Material: Bellows - Stainless Steel
Hubs - Stainless Steel
- Temperature Range: VA -30° ~ 120° (glued)
VAW -30° ~ 250° (laser-beam-welded)

- Version VA: Stainless Steel glued
Version VAW: Stainless Steel laser-beam-welded
- Keyway acc. DIN 6885 optional

Miniature Metal Bellows Coupling



Order Code: KB 3 / 45 - 36 - 10 - 18 (- S)
 Type / Size Length L Ø D1 (H7) Ø D2 (H7) Options

	Torque T _{KN} (Nm)	Dimensions (mm)										Technical Ratings							
		L Length (±1)	Ø A Outer Ø	Bore Sizes (H7) min ~ max		Ø B Max. Ø	H	C	E	E1	F/G Screw (DIN 912) T _A (Nm)	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
				D1	D2									torsional C _T (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)
KB3/5	0.5	20	15.5	3-8	8-12	17,5	5.2	2.5	8	8	M2/M3	12.8	2.9	260	43	13	0.1	0.2	1
		0.3/1										13.2	3.1	200	18	10	0.15	0.3	1.5
												13.5	3.2	160	9	8	0.2	0.4	2
KB3/10	1	22	15.5	3-8	8-12	17,5	5.2	2.5	8	8	M2/M3	14.1	3.3	510	74	27	0.1	0.2	1
		0.3/1										14.6	3.4	380	31	20	0.15	0.3	1.5
												15.3	3.6	310	16	16	0.2	0.4	2
KB3/15	1.5	25	20	3-10	10-14	21	7	3	9	12	M2.5/M4	27.2	11	750	59	15	0.1	0.3	1.5
		0.8/3										29.3	12	700	20	9	0.15	0.4	2
KB3/20	2	28	25	3-14	10-16	27	9	3.5	11	12	M3/M4	40.1	25	1500	67	12	0.15	0.3	1.5
		1/3										43.2	29	1300	21	11	0.2	0.4	1.5
												49.1	30	1050	11	9	0.25	0.5	2
KB3/45	4.5	36	32.5	6-16	14-20	34	12	5	14	16	M4/M5	86.5	98	6500	168	32	0.1	0.3	1.5
		3/5.9										92.9	110	4200	41	20	0.2	0.5	2
KB3/100	10	41	40.5	6-25	16-22	41,5	15.5	5	14	20	M4/M6	135	235	8100	120	27	0.15	0.4	1.5
		3/10										154	292	6800	29	17	0.3	0.6	2

- ⊙ Speed: max. 15000 min⁻¹
- ⊙ 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





BELLOWS COUPLINGS

KB4/18~1400

Bellows Couplings
with Collet Clamps



KB4H/18~500

Bellows Couplings
with Split Hubs



KB4AL/80~500

Bellows Couplings
with Aluminium Collet Clamps



KB4C/18~500

Bellows Couplings Compact Version
with Collet Clamps



KB4HC/18~500

Bellows Couplings Compact Version
with Split Hubs



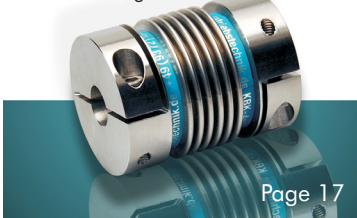
KB4F/18~1400

Bellows Couplings
with Flange Adaptor



KB4VA/18~500

Bellows Couplings
Stainless Steel glued or welded



KB5/18~5000

Bellows Couplings
with Inner Conical Hubs



KB6/18~5000

Bellows Couplings
with Outer Conical Hubs



KB7/18~5000

Bellows Couplings
for Flange Mounting



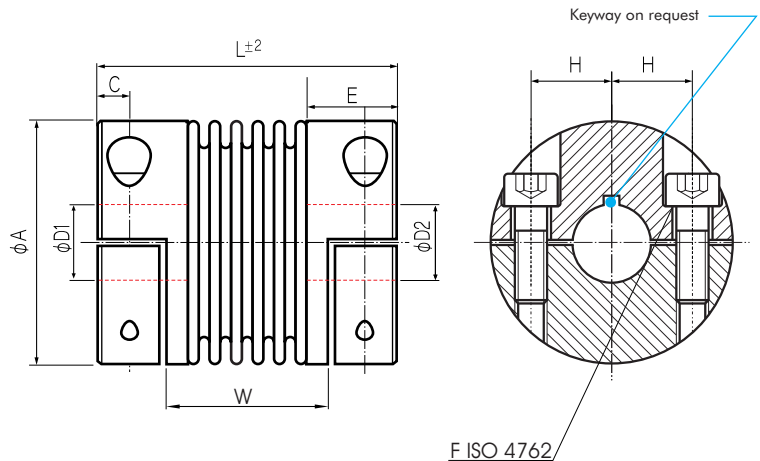
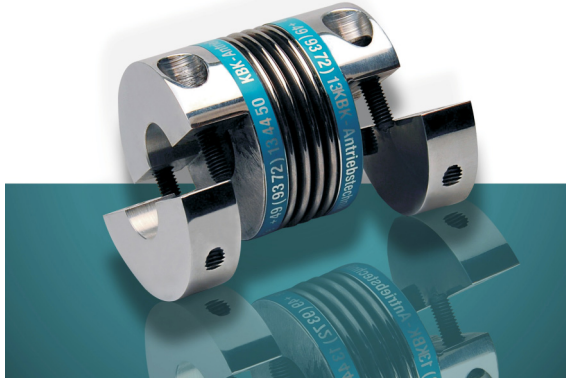
KB8/18~300

Bellows Couplings
with Expanding Clamp



Bellows Couplings

with Split Hubs



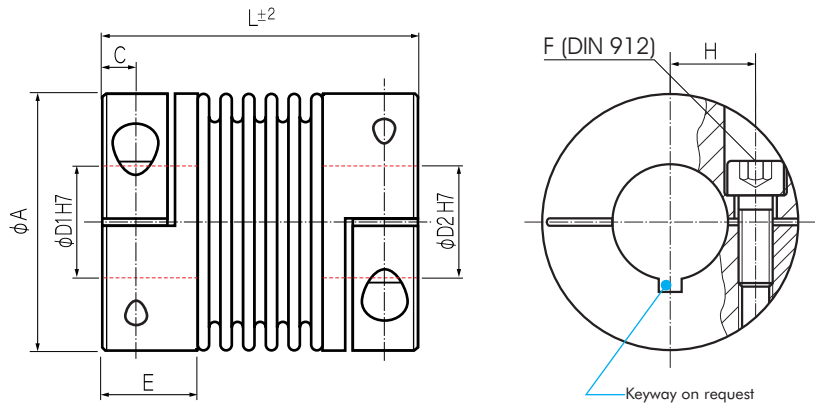
Order Code: KB 4H / 60 - 83 - 20 - 20 (- S)
 Type / Size Length Ø D1 (H7) Ø D2 (H7) Options

	Torque T _{kN} (Nm)	Dimensions (mm)								Technical Ratings								
		L Length (±2)	Ø A Outer Ø	D1/D2 Bore Sizes (H7)	H	C	E	W	F Screw (DIN 912) T _A (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
												torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB4H/18	18	63	45	10-25.4	17	5.5	19.5	37	M5	0.1	0.04	20	205	50	0.2	0.5	1.5	12800
		71										15	82	36	0.25	0.5	2	12800
KB4H/30	30	69	56	10-30	20	7.5	27	35	M6	0.3	0.14	38	720	50	0.15	0.6	1.5	10300
		77										28	225	28	0.25	1	2	10300
KB4H/60	60	83	66	12-35	23	9.5	31	41	M8	0.5	0.28	75	1150	90	0.15	0.6	1.5	8700
		93										50	340	50	0.25	1	2	8700
KB4H/80	80	94	82	12-44	28	11	36	47	M10	0.9	0.65	128	1200	80	0.2	0.5	1.5	6900
		106										75	400	50	0.25	0.8	2	6900
KB4H/150	150	95	82	14-44	28	11	36	48	M10	0.9	0.82	155	2020	145	0.2	0.5	1.5	6900
		107										105	595	85	0.25	0.5	2	6900
KB4H/200	200	105	90	16-48	31	12.5	41	51	M12	1.3	2.2	175	2500	145	0.2	0.5	1.5	6400
		117										120	460	82	0.25	0.8	2	6400
KB4H/300	300	111	110	20-60	39	13	43	55	M12	1.8	4.2	502	6300	280	0.2	0.5	1.5	6000
		125										285	1400	145	0.25	0.8	2	6000
KB4H/500	500	133	122	25-65	42	15	51	62	M12	2.505	8.6	690	7790	100	0.2	0.5	1.5	5000
		146										320	970	85	0.25	1	2	5000

Material: Bellows - Stainless Steel
Hubs - Aluminium

Temperature Range: -30° ~ 120° C

Bellows Couplings



Order Code: KB 4AL / 80 - 91 - 15 - 20 (- S)

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

	Torque T _{KN} (Nm)	Dimensions (mm)							Technical Ratings								
		L Length (±2)	Ø A Outer Ø	D1/D2 Bore Sizes (H7)	H	C	E	F Screw (DIN 912) T _A (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
											torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB4AL/80	80	91	82	12-44	28	11	33.5	M10	0.8	0.90	128	1200	80	0.2	0.5	1.5	6900
		102						72	0.85	0.95	75	400	50	0.25	0.8	2	6900
KB4AL/150	150	91	82	14-44	28	11	33.5	M10	0.9	1.0	155	2020	145	0.2	0.5	1.5	6900
		102						84	0.95	1.05	105	595	85	0.25	0.5	2	6900
KB4AL/200	200	101	90	16-48	31	13	38	M12	1.17	1.49	175	2500	145	0.2	0.5	1.5	6400
		113						125	1.21	1.57	120	460	82	0.25	0.8	2	6400
KB4AL/300	300	105	110	20-60	40	13	38	M12	1.62	3.28	502	6300	280	0.2	0.5	1.5	6000
		116						145	1.66	3.37	285	1400	145	0.25	0.8	2	6000
KB4AL/500	500	112	122	25-65	42	15	42	M12	2.4	6.4	690	7790	100	0.2	0.5	1.5	5000
		123						145	2.5	6.7	320	970	85	0.25	1.0	2	5000

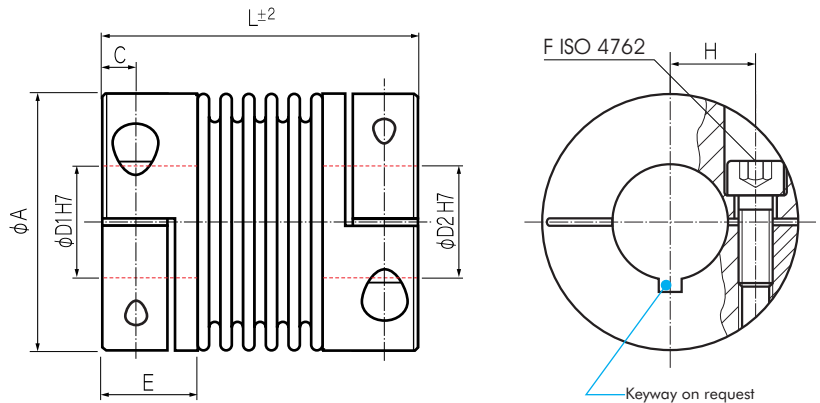
Aluminium Collet Clamps reduce mass and moment of inertia.

Material: Bellows - Stainless Steel
Hubs - Aluminium

Temperature Range: -30° ~ 120° C

Bellows Couplings - Compact Version

with Collet Clamps



Order Code: KB 4C / 60 - 67 - 12 - 32 (- S)
 Type / Size Length Ø D1 (H7) Ø D2 (H7) Options

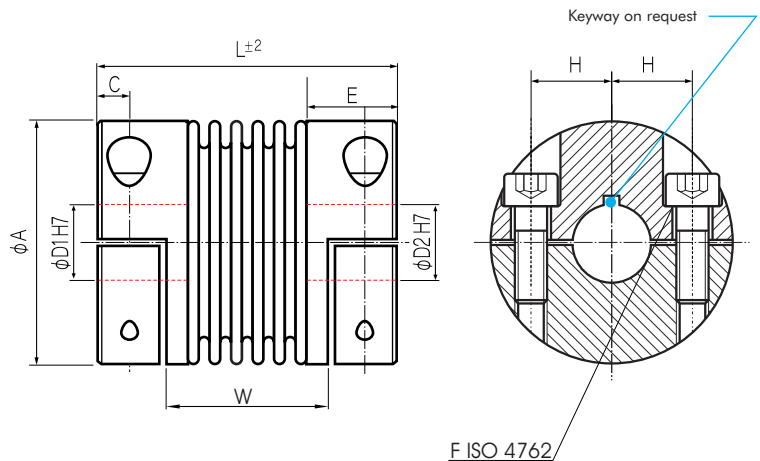
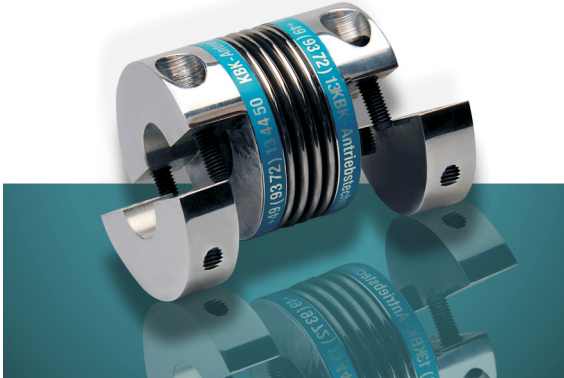
	Torque T _{KN} (Nm)	Dimensions (mm)							Technical Ratings								
		L Length (±2)	Ø A Outer Ø	D1/D2 Bore Sizes (H7)	H	C	E	F Screw (DIN 912) T _A (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
											torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
KB4C/18	18	58	45	10-25.4	17	5.5	17.5	M5	0.07	0.03	20	205	50	0.2	0.5	1.5	12800
		8						0.12	0.04	15	82	36	0.25	0.5	2	12800	
KB4C/30	30	58	56	10-30	20	7.3	21	M6	0.26	0.13	38	720	50	0.15	0.6	1.5	10300
		15						0.27	0.14	28	225	28	0.25	1	2	10300	
KB4C/60	60	67	66	12-35	24	8.6	24	M8	0.38	0.28	75	1150	90	0.15	0.6	1.5	8700
		40						0.42	0.31	50	340	50	0.25	1	2	8700	
KB4C/80	80	78	82	12-44	28	9.8	27	M10	0.70	0.78	128	1200	80	0.2	0.5	1.5	6900
		72						0.76	0.85	75	400	50	0.25	0.8	2	6900	
KB4C/150	150	78	82	14-44	28	9.8	27	M10	0.73	0.82	155	2020	145	0.2	0.5	1.5	6900
		84						0.80	0.89	105	595	85	0.25	0.5	2	6900	
KB4C/200	200	83	90	16-48	31	10.8	29	M12	0.89	1.19	175	2500	145	0.2	0.5	1.5	6400
		125						0.95	1.27	120	460	82	0.25	0.8	2	6400	
KB4C/300	300	94	110	20-60	39	11.8	32.5	M12	1.37	2.74	502	6300	280	0.2	0.5	1.5	6000
		145						1.43	2.86	285	1400	145	0.25	0.8	2	6000	
KB4C/500	500	100	122	25-70	45	13.3	36	M12	1.81	4.45	690	7790	100	0.2	0.5	1.5	5000
		145						1.91	4.69	320	970	85	0.25	1	2	5000	

Material: Bellows - Stainless Steel
Hubs - Aluminium

Temperature Range: -30° ~ 120° C

Bellows Couplings - Compact Version

with Split Hubs



F ISO 4762



Order Code: KB 4HC / 60 - 67 - 20 - 20 (- S)
 Type / Size Length Ø D1 (H7) Ø D2 (H7) Options

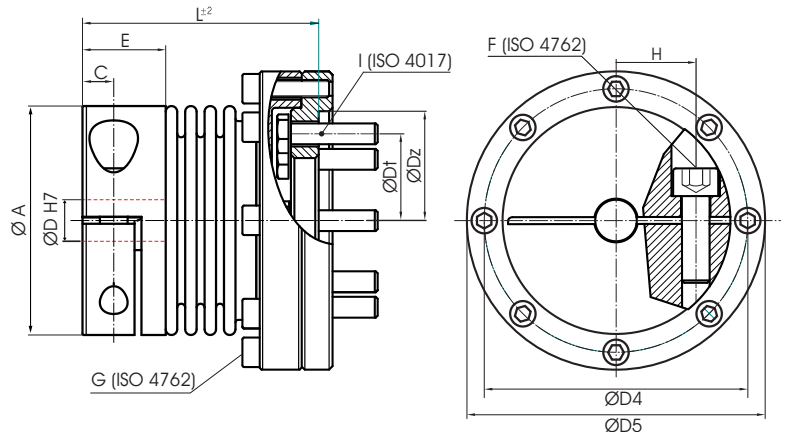
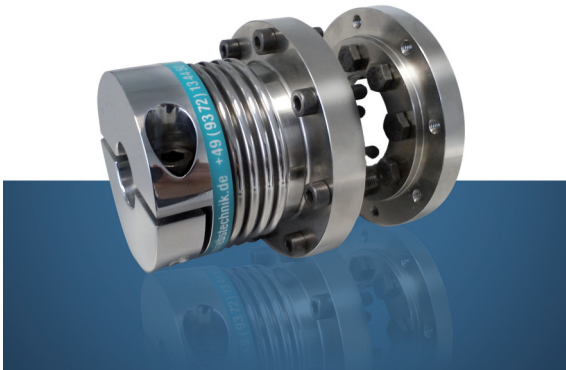
	Torque T _{kN} (Nm)	Dimensions (mm)								Technical Ratings								
		L Length (±2)	Ø A Outer Ø	D1/D2 Bore Sizes (H7)	H	C	E	W	F Screw (DIN 912) T _A (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed min ⁻¹
												torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB4HC/18	18	58	45	10-25.4	17	5.5	17.5	37	M5	0.07	0.03	20	205	50	0.2	0.5	1.5	12800
		66										15	82	36	0.25	0.5	2	12800
KB4HC/30	30	58	56	10-30	20	7.3	21	35	M6	0.26	0.13	38	720	50	0.15	0.6	1.5	10300
		66										28	225	28	0.25	1	2	10300
KB4HC/60	60	67	66	12-35	23	8.6	24	41	M8	0.38	0.28	75	1150	90	0.15	0.6	1.5	8700
		77										50	340	50	0.25	1	2	8700
KB4HC/80	80	78	82	12-44	28	9.8	27	47	M10	0.70	0.78	128	1200	80	0.2	0.5	1.5	6900
		89										75	400	50	0.25	0.8	2	6900
KB4HC/150	150	78	82	14-44	28	9.8	27	48	M10	0.73	0.82	155	2020	145	0.2	0.5	1.5	6900
		89										105	595	85	0.25	0.5	2	6900
KB4HC/200	200	83	90	16-48	31	10.8	29	51	M12	0.89	1.19	175	2500	145	0.2	0.5	1.5	6400
		94										120	460	82	0.25	0.8	2	6400
KB4HC/300	300	94	110	20-60	39	11.8	32.5	55	M12	1.37	2.74	502	6300	280	0.2	0.5	1.5	6000
		105										285	1400	145	0.25	0.8	2	6000
KB4HC/500	500	100	122	25-70	45	13.3	36	62	M12	1.81	4.45	690	7790	100	0.2	0.5	1.5	5000
		111										320	970	85	0.25	1	2	5000

Material: Bellows - Stainless Steel
Hubs - Aluminium

Temperature Range: -30° ~ 120° C

Bellows Couplings

with Flange Adaptor



Order Code: KB 4F / 150 - 79 - 30 - 63

Type / Size

Length

Ø D1
(H7)

Pitch
Circle

	Torque T_{KN} (Nm)	Dimensions (mm)							Technical Ratings									
		L Length (±2)	Ø A Outer Ø	D1 Bore Sizes (H7)	H	C	E	D4	F/G Screw (DIN 912) T_A (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed min ⁻¹
												torsional $C_T \cdot 10^3$ (Nm/rad)	radial C_R (N/mm)	axial C_A (N/mm)	radial ΔK_r (mm)	axial ΔK_a (mm)	angular ΔK_w (°)	
KB4F/18	18	61	45	10-25.4	17	5.5	17.5	56.5	M5	0.50	0.15	20	205	50	0.2	0.5	1.5	12800
		8							0.52	0.16	15	82	36	0.25	0.5	2		
KB4F/30	30	61	56	10-30	20	7.3	21	65	M6	0.70	0.20	38	720	50	0.15	0.6	1.5	10300
		15							0.72	0.21	28	225	28	0.25	1.0	2		
KB4F/60	60	68	66	12-35	23	8.6	24	76	M8	1.00	0.65	75	1150	90	0.15	0.6	1.5	8700
		40							1.05	0.68	50	340	50	0.25	1.0	2		
KB4F/150	150	79	82	14-42	28	9.8	27	94	M10	1.65	1.30	155	2020	145	0.2	0.5	1.5	6900
		84							1.75	1.37	105	595	85	0.25	0.5	2		
KB4F/300	300	90	110	30-60	39	11.8	32.5	120	M12	2.90	5.50	502	6300	280	0.2	0.5	1.5	6000
		145							3.00	5.62	285	1400	145	0.25	0.8	2		
KB4F/500	500	100	122	35-70	45	13.3	36	142	M12	4.55	9.00	690	7790	100	0.2	0.5	1.5	5000
		145							4.70	9.15	320	970	85	0.25	1	2		
KB4F/1400	1400	140	157	50-80	55	22.5	55	171	2xM20	10.50	45	1270	700	275	0.2	0.8	1.8	5000
									470									

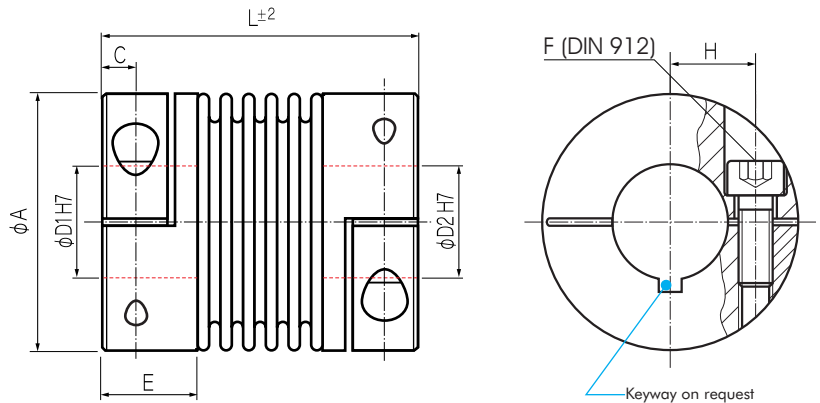
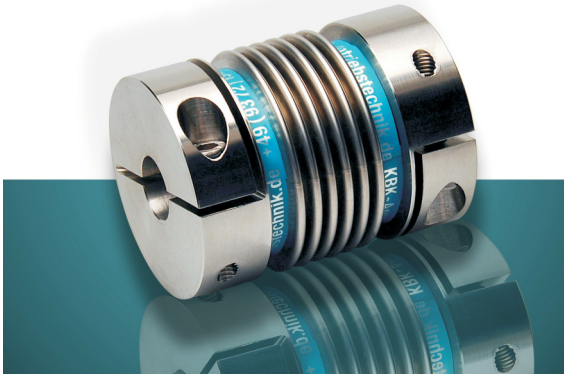
	Dimensions (mm)				
	G	D5	Dt	Dz	I
	Screw (ISO4762)				Screw (ISO4017)
KB4F/18	8 x M4	63.5	31.5	40	8 x M5
KB4F/30	8 x M5	74	40	50	8 x M6
KB4F/60	8 x M5	86	50	63	8 x M6
KB4F/150	8 x M6	104	63	80	12 x M6
KB4F/300	12 x M6	132	80	100	12 x M8
KB4F/500	12 x M8	155	100	130	12 x M10
KB4F/1400	16 x M8	184	125	160	12 x M10

Material: Bellows - Stainless Steel
Nubs - to Size 500 Aluminium,
Size 1400 Steel

Temperature Range: -30°C ~ 120°C

Bellows Couplings in Stainless Steel

with Collet Clamps



Order Code: KB 4 / 60 - 89 - 12 - 32 - VA/VAW

Type / Size

Length

Ø D1 (H7)

Ø D2 (H7)

Stainless Steel laserwelded
Stainless Steel glued

	Torque T _{KN} (Nm)	Dimensions (mm)							Technical Ratings								
		L Length (±2)	Ø A Outer Ø	D1/D2 Bore Sizes (H7)	H	C	E	F Screw (DIN 912) T _A (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
											torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB4/18	18	63	45	10-25.4	17	5.5	19.5	M5	0.27	0.11	20	205	50	0.2	0.5	1.5	12800
		71						8	0.41	0.14	15	82	36	0.25	0.5	2	12800
KB4/30	30	65	56	10-30	20	7.5	24.5	M6	0.83	0.41	38	720	50	0.15	0.6	1.5	10300
		73						15	0.89	0.44	28	225	28	0.25	1	2	10300
KB4/60	60	79	66	12-35	23	10	29	M8	1.4	0.91	75	1150	90	0.15	0.6	1.5	8700
		89						40	1.7	1.00	50	340	50	0.25	1	2	8700
KB4/80	80	91	82	14-44	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	19-44	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	22-48	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	40	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	35-70	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

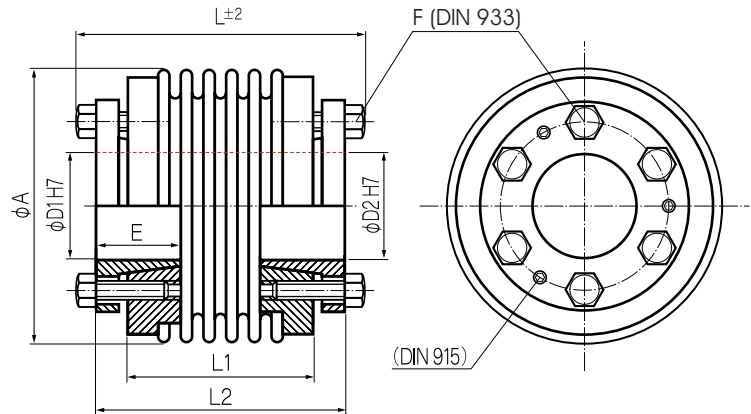
Material: Bellows - high tensile Stainless Steel
Hubs - Stainless Steel

Temperature Range: VA -30° ~ 120° (glued)
VAW -30° ~ 250° (laser-beam-welded)

Version VA: Stainless Steel glued
Version VAW: Stainless Steel laser-beam-welded

Hubs: Keyway acc. DIN 6885 optional

Bellows Couplings



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

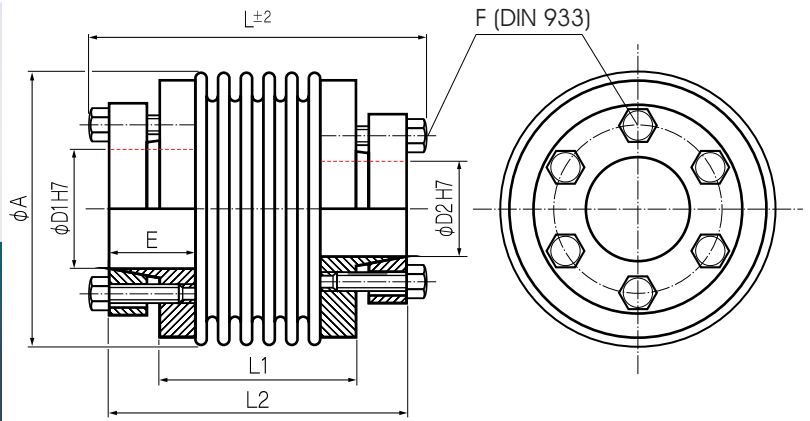
Type / Size
Length
 \varnothing D1 (H7)
 \varnothing D2 (H7)
(Options)

	Torque T_{KN} (Nm)	Dimensions (mm)							Technical Ratings								
		L	$\varnothing A$	D1/D2	E	L1	L2	F	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
		Length (±2)	Outer Ø	Bore Size (H7)	Hub Length			Screw (DIN 933) T _A (Nm)			torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB5/18	18	63	45	10-18	20	38	56	4xM5	0.36	0.075	20	205	50	0.2	0.5	1.5	11500
		71				46	64	4.5	0.37	0.078	15	82	36	0.25	0.5	2	
KB5/30	30	53	56	12-20	20	30	46	6xM5	0.4	0.11	38	720	50	0.15	0.6	1.5	11000
		61				38	54	4.5	0.42	0.12	28	225	25	0.25	1	2	
KB5/60	60	62	66	15-25	25	36	54	6xM6	0.77	0.32	75	1150	90	0.15	0.6	1.5	9100
		73				47	65	8.5	0.79	0.34	50	340	50	0.25	1	2	
KB5/80	80	78	82	20-35	30	50	70	6xM6	1.34	1.05	128	1200	80	0.2	0.5	1.5	7000
		90				62	82	10	1.39	1.11	75	400	50	0.25	1	2	
KB5/150	150	78	82	20-35	30	50	70	6xM6	1.36	1.15	155	2020	145	0.2	0.5	1.5	7000
		90				62	82	15	1.41	1.21	105	595	85	0.25	1	2	
KB5/200	200	78	90	20-40	30	50	70	6xM6	1.59	1.39	175	2500	145	0.2	0.5	1.5	6700
		91				63	83	15	1.66	1.49	120	460	82	0.25	1	2	
KB5/300	300	90	110	25-50	37	56	80	6xM8	3.26	4.66	502	6300	280	0.2	0.5	1.5	5200
		102				67	91	17	3.32	4.81	285	1400	145	0.25	1	2	
KB5/500	500	101	122	35-55	40	66	90	6xM8	3.78	6.11	690	7790	100	0.2	0.5	1.5	4600
		112				77	101	25	3.87	6.38	320	970	85	0.25	1	2	
KB5/800	800	170	157	50-70	60	110	150	6xM16	9.05	24.05	760	500	185	0.2	0.8	1.8	3700
								45									
KB5/1400	1400	170	157	50-70	60	110	150	6xM16	9.15	24.2	1270	700	275	0.2	0.8	1.8	3700
								80									
KB5/3000	3000	206	157	55-85	60	150	190	6xM12	9.43	25.7	2810	2945	305	0.2	0.8	1.5	2800
								85									
KB5/5000	5000	206	208	60-90	65	146	186	6xM16	19.9	96.7	4810	4915	505	0.2	0.8	1.5	2800
								210									

⊙ Material: Bellows - Stainless Steel Hubs - High Tensile Steel (also available in Stainless Steel)

⊙ Temperature Range: -30° ~ 120° C

Bellows Couplings



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

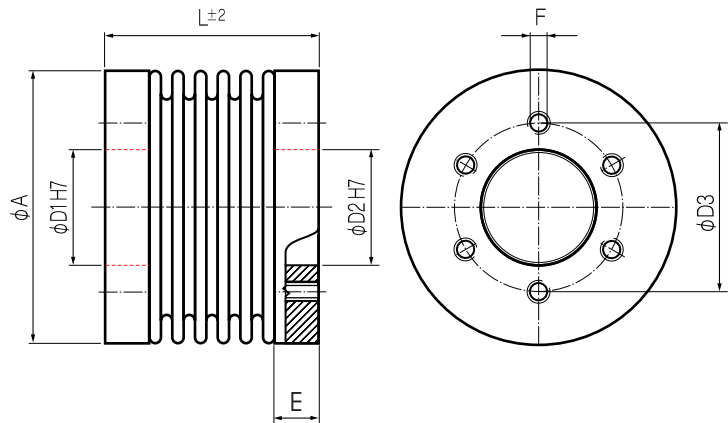
Type / Size Length Ø D1 (H7) Ø D2 (H7) Options

	Torque T _{KN} (Nm)	Dimensions (mm)							Technical Ratings								
		L	Ø A	D1/D2	E	L1	L2	F	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
		Length (±2)	Outer Ø	Bore Size (H7)	Hub Length			Screw (DIN 933) T _A (Nm)			torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB6/18	18	65	45	8-15	16.5	37	58	4x M5	0.3	0.081	20	205	50	0.2	0.5	1.5	11500
		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	11000
		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	9100
		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	7000
		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	7000
		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	6700
		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	5200
		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	4600
		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	3700
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	3700
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	2800
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	2800

Material: Bellows - Stainless Steel Hubs - High Tensile Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

Bellows Couplings



Order Code: KB 7 / 60 - 41 - 38 (- S)
 Type / Size Length ØD1/ØD2 Options

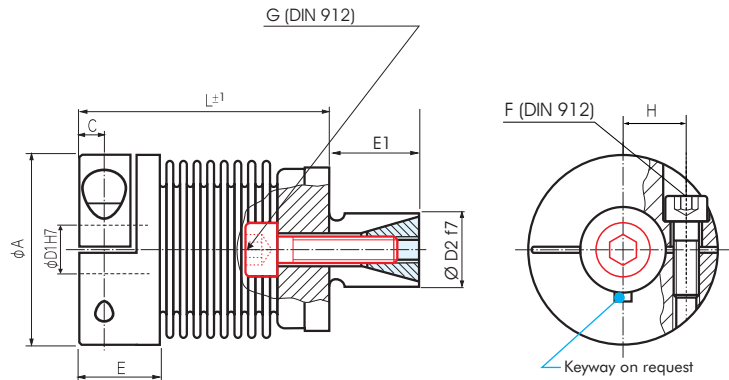
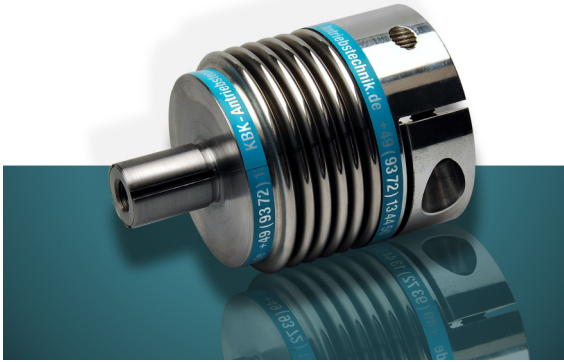
	Torque T _{KN} (Nm)	Dimensions (mm)						Technical Ratings								
		L Length (±2)	Ø A Outer Ø	Ø D1/D2 Bore Size (H7)	Ø D3	E	F Thread	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			max Speed rpm
										torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB7/18	18	36	45	22	31	6	M5	0.11	0.04	20	205	50	0.2	0.5	1.5	11500
		44						0.115	0.04	15	82	36	0.25	0.5	2	
KB7/30	30	30	56	28	37	7	M5	0.16	0.09	38	720	50	0.15	0.6	1.5	11000
		38						0.17	0.09	28	225	25	0.25	1	2	
KB7/60	60	41	66	38	46	10.5	M6	0.33	0.25	75	1150	90	0.15	0.6	1.5	9100
		51						0.37	0.29	50	340	50	0.25	1	2	
KB7/80	80	50	82	50	62	13	M6	0.69	0.83	128	1200	80	0.2	0.5	1.5	7000
		62						0.75	0.92	75	400	50	0.25	1	2	
KB7/150	150	50	82	50	62	13	M6	0.69	0.83	155	2020	145	0.2	0.5	1.5	7000
		62						0.75	0.92	105	595	85	0.25	1	2	
KB7/200	200	50	90	50	62	13	M6	0.74	1.0	175	2500	145	0.2	0.5	1.5	6700
		63						0.80	1.1	120	460	82	0.25	1	2	
KB7/300	300	55	110	65	80	13	M8	1.18	2.5	502	6300	280	0.2	0.5	1.5	5200
		66						1.24	2.7	285	1400	145	0.25	1	2	
KB7/500	500	61	122	70	94	16	M8	1.95	5.0	690	7790	100	0.2	0.5	1.5	4600
		72						2.05	5.3	320	970	85	0.25	1	2	
KB7/800	800	131	157	85	110	23	M16	3.55	15	760	500	185	0.2	0.8	1.8	3700
KB7/1400	1400	131	157	85	110	23	M16	3.55	15	1270	700	275	0.2	0.8	1.8	3700
KB7/3000	3000	131	157	85	110	23	M16	3.70	16	2810	2945	305	0.2	0.8	1.5	2800
KB7/5000	5000	146	208	100	130	36.5	M16	8.22	61	4810	4915	505	0.2	0.8	1.5	2800

Material: Bellows - Stainless Steel Hubs - High Tensile Steel (also available in Stainless Steel)

Temperature Range: -30° ~ 120° C

Bellows Couplings

with Expanding Clamp



Order Code: KB 8 / 30 - 53 - 15 - 20 (- S)
 Type / Size Length Ø D1 (H7) Ø D2 (H7) Options

	Torque T _{KN} (Nm)	Dimensions (mm)									Technical Ratings								
		L Length (±1)	Ø A Outer Ø	D1 Bore Size (H7) min ~ max	D2 Expanding Clamp min ~ max	H	C	E	E1	F/G Screw (DIN 912) TA (Nm)	Mass (kg)	Moment of Inertia J (g m ²)	Spring Stiffness			Misalignment			Speed (rpm)
													torsional C _T 10 ³ (Nm/rad)	radial C _R (N/mm)	axial C _A (N/mm)	radial ΔK _r (mm)	axial ΔK _a (mm)	angular ΔK _w (°)	
KB8/18	18	45	45	10-25.4	13-25	17	5.5	19.5	20	M5	0.14	0.04	20	205	50	0.2	0.5	1.5	12800
		52											15	82	35	0.25	0.5	2	
KB8/30	30	53	56	10-30	14-30	20	7.5	24.5	25	M6	0.30	0.15	38	720	50	0.15	0.6	1.5	10300
		61											28	225	28	0.25	1.0	2	
KB8/60	60	62	66	12-35	23-38	23	10	29	27	M8	0.40	0.28	128	1150	90	0.15	0.6	1.5	8700
		72											75	340	50	0.25	1.0	2	
KB8/150	150	71	82	14-44	26,42	28	11	33.5	32	M10	0.80	0.90	155	2020	145	0.2	0.5	1.5	6900
		83											105	595	85	0.25	0.5	2	
KB8/300	300	84	110	20-60	38-60	39	13	38	45	M12	1.62	3.28	502	6300	280	0.2	0.5	1.5	6000
		98											285	1400	145	0.25	0.8	2	

⊙ Hubs: Bore Tolerance for hollow shaft: H7 Keyway acc. DIN 6885 optional

⊙ Material: Bellows - Stainless Steel
 Hub - Aluminium (also available in Stainless Steel)
 Expanding Clamp - Stainless Steel

⊙ Temperature Range: -30° ~ 120°



SERVO INSERT COUPLINGS

KBE1-5~48

Servo Insert Couplings
with Set Screws



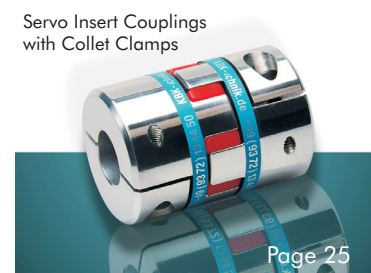
KBE2-5~19

Servo Insert Couplings
with Collet Clamps



KBE2-24~48

Servo Insert Couplings
with Collet Clamps



KBE2C-7~38

Servo Insert Couplings
with Compact Version Collet Clamps



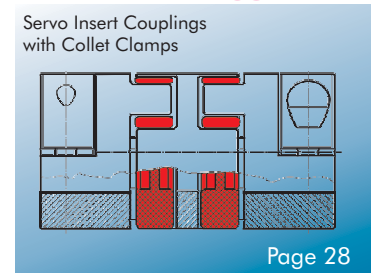
KBE2H-14~48

Servo Insert Couplings
with Split Hubs



KBE2D-7~38

Servo Insert Couplings
with Collet Clamps



KBE3-14~48

Servo Insert Couplings
with Outer Conical Hubs



KBE3C-14~48

Servo Insert Couplings
Compact Version with Outer Conical Hubs

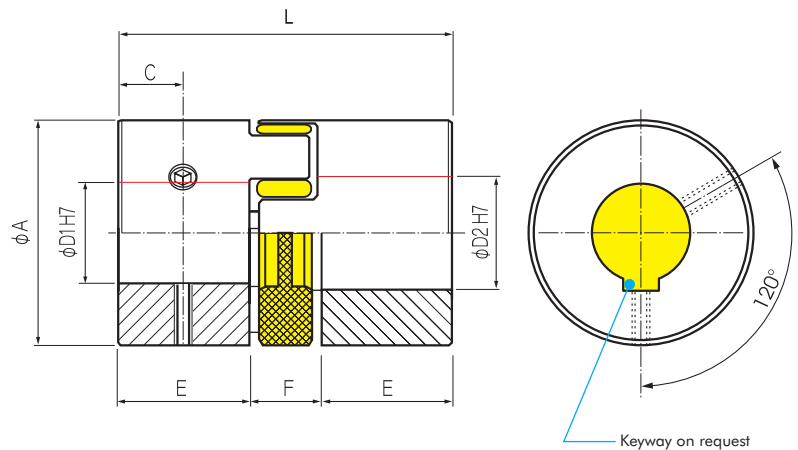


KBE4-14~38

Servo Insert Couplings
with Expanding Clamps



Servo Insert Coupling



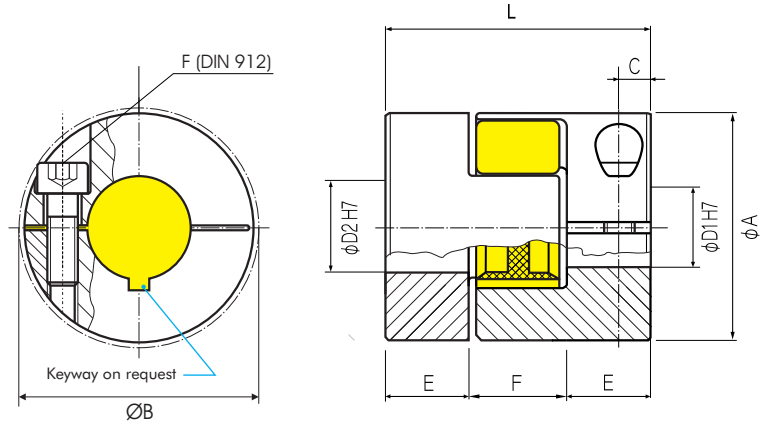
Order Code: KBE 1 - 14 - 10H7 - 12H7 (- S)

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

	Dimensions (mm)							Technical Ratings			
	Ø A	L	Ø D1-D2	E	F	C	F	Maximum Speed rpm. (1/min)	Mass (per Hub) (g)	Moment of Inertia J (kg mm ²)	Torque (Nm)
	Outer Ø	Length	Bohre Sizes (H7) min ~ max				Screw (DIN 916) T _A (Nm)				
KBE 1 - 5	10	15	2 - 6	5	5	2.5	1 x M3 0.5	47500	1	0.034	0.5
KBE 1 - 7	14	22	4 - 7	7	8	3.5	2 x M3 1.3	34000	3	0.2	1.2
KBE 1 - 9	20	30	6 - 9	10	10	5	2 x M3 1.3	24000	9	1.1	3
KBE 1 - 14	30	35	6 - 16	11	13	5	1 x M4 3	16000	20	5.6	12.5
KBE 1 - 19	40	66	10 - 24	25	16	10	1 x M5 6	12000	80	36	17
KBE 1 - 24	55	78	16 - 28	30	18	10	1 x M5 6	8500	132	150	60
KBE 1 - 28	65	90	20 - 38	35	20	15	1 x M6 11	7200	253	330	160
KBE 1 - 38	80	114	20 - 45	45	24	15	1 x M8 25	6000	600	960	325
KBE 1 - 42	95	126	20 - 55	50	26	20	1 x M8 25	4800	1850	4900	450
KBE 1 - 48	105	140	20 - 60	56	28	20	1 x M8 25	4300	3200	8300	525

Material: Insert (KBE1-5 to KBE1-9): Polyurethan 92 Sh A (yellow)
 Insert (KBE1-14 to KBE1-48): Polyurethan 98 Sh A (red)
 Hubs: Aluminum

Servo Insert Coupling



Order 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 rpm. (1/min)	Mass (per Hub) (g)	Moment of Inertia (per Hub) J (g cm ²)	Torque (Nm)
		Length	Bore Sizes (H7) min ~ max				Max. Ø	Screw (DIN 912) T _A (Nm)				
KBE 2 - 5	10	15	2 - 5	5	5	2.5	11.4	M1.6 0.5	38000	1	0.034	0.5
KBE 2 - 7	14	22	4 - 7	7	8	3.5	15	M2 0.37	27000	3.5	1	1.2
KBE 2 - 9	20	30	4 - 11	10	10	5	23.4	M2.5 0.75	19000	10	5.7	3
KBE 2 - 14	30	35	4 - 16	11	13	5	32.2	M3 1.4	13000	27	33	12.5
KBE 2 - 19	40	66	10 - 22	25	16	12	47	M6 11	10000	88	200	17

Transmissible Torque (Nm) of the Hubs

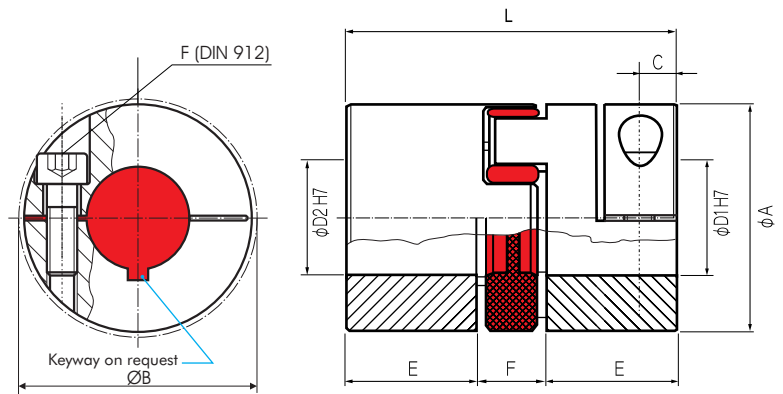
Higher torques possible! Please contact us.

	Ø Bohre (mm)															
	2	3	4	5	6	7	8	9	10	11	12	14	15	16	19	20
KBE 2 - 5	0.5	0.5	0.5													
KBE 2 - 7	0.8	0.8	0.9	0.95	1	1.1										
KBE 2 - 9			2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8						
KBE 2 - 14			3.4	4.7	4.8	5.0	5.1	5.3	5.5	5.6	5.8	6.1	6.3	6.5		
KBE 2 - 19									27	27	29	30	31	32	32	34

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

Servo Insert Coupling

with Collet Clamps



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 (per Hub) J	Torque
		Length	Bore Sizes (H7) min ~ max				Max. Ø	Screw (DIN 912) T _A (Nm)	rpm. (1/min)	(g)	(g cm ²)	(Nm)
KBE 2 - 24	55	78	15 - 32	30	18	12	56.4	M6 11	7000	187	0.84	60
KBE 2 - 28	65	90	19 - 38	35	20	15	72.6	M8 25	6000	297	1.85	160
KBE 2 - 38	80	114	20 - 45	45	24	20	83.3	M8 25	5000	590	5.50	325
KBE 2 - 42	95	126	25 - 50	50	26	20	95	M10 70	4000	940	12.1	450
KBE 2 - 48	105	140	25 - 55	56	28	22	105	M12 120	3750	1300	20.2	525

Transmissible Torque (Nm) of the Hubs

Higher torques possible! Please contact us.

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

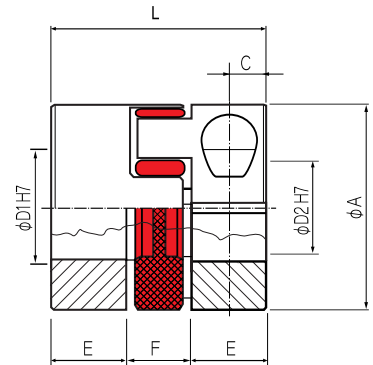
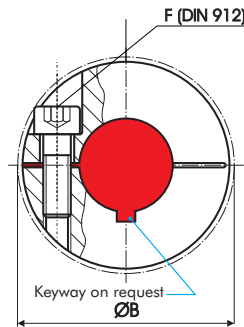
Hub: Bore Tolerance: H7 Keyway acc. DIN 6885 optional

Material: Insert - Polyurethan
Hubs - Aluminum

Hardness: 98 Shore A (red)

Servo Insert Coupling

Compact Version



Order Code: KBE 2C - 38 - 20H7 - 40H7 (- S)

Type Size Ø D1(H7) Ø D2(H7) Options

	Dimensions (mm)							Technical Ratings				
	Ø A	L	Ø D1-D2	E	F	C	B	G	Maximum Speed rpm. (1/min)	Mass (per Hub) (g)	Moment of Inertia (per Hub) J (kg cm ²)	Torque (Nm)
	Outer Ø	Length	Bohre Sizes (H7) min ~ max				Max. Ø	Screw (DIN 912) TA (Nm)				
KBE 2C - 7	14	18	3 - 7	5	8	2.5	16.6	M2 0.37	27000	3	0.085	1.2
KBE 2C - 9	20	24	4 - 11	7	10	3.5	21.3	M2.5 0.75	19000	8	4.8	3
KBE 2C - 14	20	32	4 - 16	9.5	13	5	30.5	M4 5	13000	23	28	12.5
KBE 2C - 19	40	50	8 - 21	17	16	8.5	45.7	M6 10	10000	66	0.15	17
KBE 2C - 24	55	58	10 - 32	20	18	10	56.4	M6 10	7000	139	0.59	60
KBE 2C - 28	65	62	14 - 35	21	20	11	72.6	M8 25	6000	204	1.27	160
KBE 2C - 38	80	86	15 - 45	31	24	15	83.3	M10 49	5000	445	4.14	325

Transmissible Torque (Nm) of the Hubs

Higher torques possible! Please contact us.

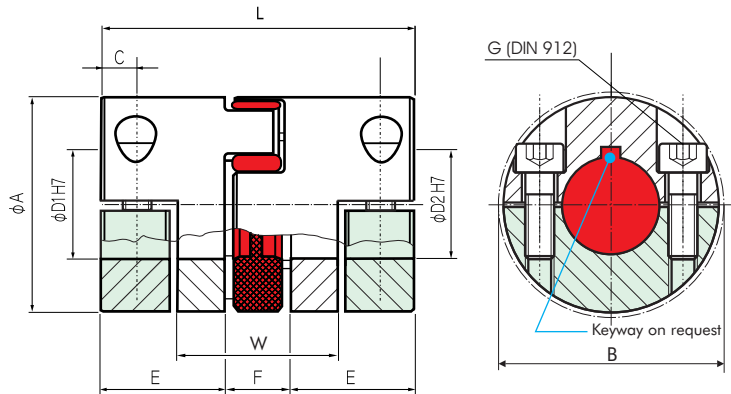
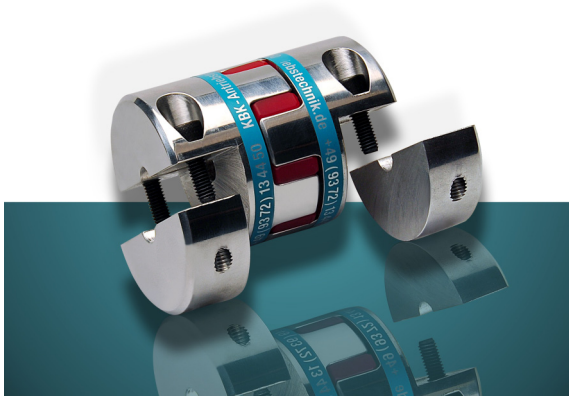
	Ø Bohre (mm)																								
	3	4	5	6	8	9	10	11	12	14	15	16	18	19	20	24	25	28	30	32	35	38	40	42	45
KBE 2C - 7	0.7	0.9	1.1	1.2																					
KBE 2C - 9		1.7	2.1	2.4	3.0	3.2	3.4	3.6																	
KBE 2C - 14			9	10.6	11.5	11.8	12.0	13.4	14	14.3	14.5	14.8													
KBE 2C - 19						25	25.7	26.3	27	28.4	29	29.7	31.1	31.7	32.4	25.0									
KBE 2C - 24							21	23	25	30	32	34	38	40	42	51	53	59	63	68					
KBE 2C - 28										54	58	62	70	74	78	93	97	109	116	124	136				
KBE 2C - 38											92	99	111	117	123	148	154	173	185	197	216	234	247	259	278

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

Material: Insert - Polyurethan
Hubs - Aluminium

Hardness: up to Size 9: 92 Shore A (yellow)
from Size 14: 98 Shore A (red)

Split Hubs



Order Code: KBE 2H - 19 - 10 - 12 (- S)

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

KBE2H	Dimensions (mm)										Technical Ratings					
	Ø A	L	Ø D1/D2		E	W	F	C	Ø B	H	G	T _A	Maximum Speed	Mass	Moment of Inertia	Torque
	Outer Ø	Total-length	Bohre Sizes								Screw DIN 912	(Nm)	rpm. (1/min)	(per Hub) (g)	(per Hub) J (kg cm ²)	(Nm)
-14	30	35	4	14	11	19	13	5.0	35	10.5	M4	5	13000	32	0.05	12.5
-19	40	66	8	20	25	27	16	8.0	46	14.5	M6	10	10000	88	0.2	17
-24	55	78	10	28	30	34	18	10.5	57.5	20	M6	10	7000	187	0.84	60
-28	65	90	14	38	35	40	20	11.5	73	25	M8	25	6000	297	1.85	160
-38	80	114	18	45	45	48	24	15.5	83.5	30	M8	25	5000	590	5.50	325
-42	95	126	22	50	50	53	26	18.0	93.5	32	M10	49	4000	940	12.1	450
-48	105	140	22	55	56	61	28	18.5	105	36	M12	86	3750	1300	20.2	525

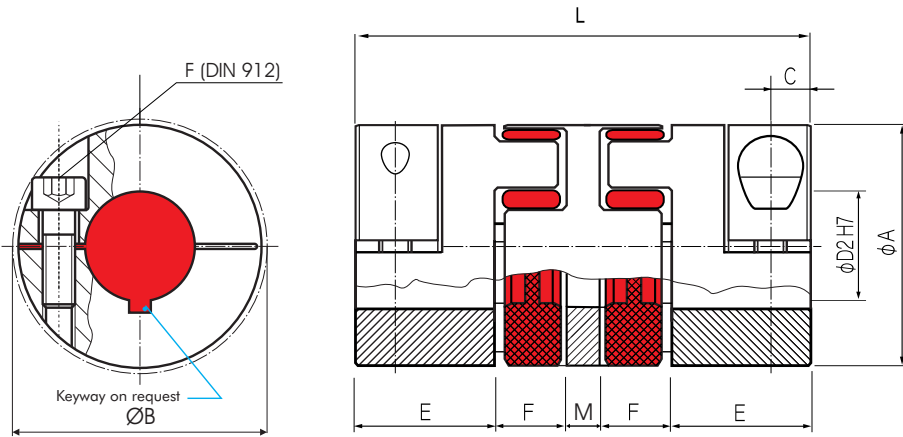
Transmissible Torque (Nm) of the split hubs without keyways

KBE2H	Ø Bohre (mm)																										
	4	6	8	10	11	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	46	48	50	55	
-14	3.5	4.8	5,1	5.5	5.6	6.1																					
-19			17	21	23	30	32	34	38	40	42																
-24				21	23	30	32	34	38	40	42	47	51	53	59												
-28						54	58	62	70	74	78	86	93	97	109	117	124	136	148								
-38									70	74	78	86	93	97	109	117	124	136	148	156	163	175					
-42												136	149	155	174	186	198	217	235	248	260	279	285	297	310		
-48												199	217	226	253	271	290	317	344	362	380	407	416	434	452	498	

Hub: Bore Tolerance: H7 Keyway acc. DIN 6885 on request

Material: Hubs - Aluminum (also available in Stainless Steel)
Insert - Polyurethan 98 Shore A red

Servo Insert Coupling



Order Code: **KBE 2D** - **14** - **10H7** - **12H7** (**- S**)

Type
Size
Ø D1(H7)
Ø D2(H7)
Options

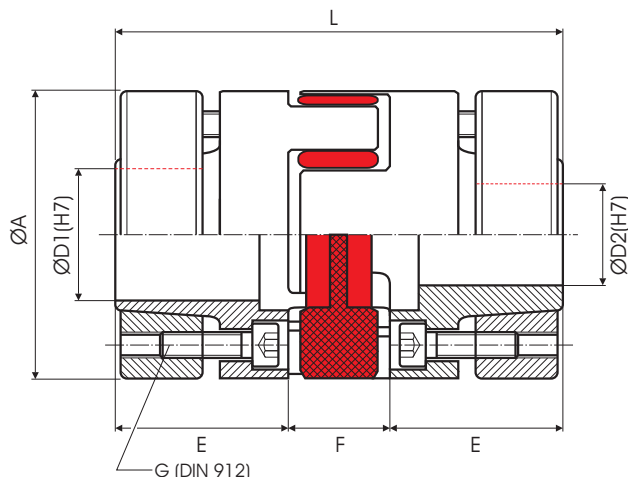
	Dimensions (mm)									Technical Ratings/Hub			
	ØA	L	Ø D1-D2	E	F	C	B	G	M	Maximum Speed rpm. (1/min)	Mass (per Hub) (g)	Moment of Inertia (per Hub) J (g cm ²)	Torque (Nm)
		Length	Bore Sizes (H7) min ~ max				StörØ	Schraube (DIN 912) T _A (Nm)					
KBE 2D - 7	14	34	4 - 7	7	8	3.5	15	M2 0.37	4	27000	5	1.5	1.2
KBE 2D - 9	20	45	4 - 11	10	10	5	23.4	M2.5 0.75	5	19000	15	8	3
KBE 2D - 14	30	56	4 - 16	11	13	5	32.2	M3 1.4	8	13000	42	51	12.5
KBE 2D - 19	40	92	10 - 22	25	16	12	45.7	M6 11	10	10000	116	265	17
KBE 2D - 24	55	112	15 - 32	30	18	14	56.4	M6 11	16	7000	548	2.3	60
KBE 2D - 28	65	128	19 - 38	35	20	15	72.6	M8 25	18	6000	853	5.1	160
KBE 2D - 38	80	158	20 - 45	45	24	20	83.3	M8 25	20	5000	14573	14.6	325

Transmissible Torque (Nm) of the Hubs

	Ø Bore (mm)																									
	3	4	5	6	7	8	9	10	11	12	14	15	16	19	20	22	24	25	28	30	32	35	38	40	42	45
KBE 2D - 7	0.8	0.9	0.95	1	1.1																					
KBE 2D - 9		2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8																	
KBE 2D - 14		3.4	4.7	4.8	5.0	5.1	5.3	5.5	5.6	5.8	6.1	6.3	6.5													
KBE 2D - 19								27	27	29	30	31	32	32	34											
KBE 2D - 24												39	43	44	46	47	49	50	52							
KBE 2D - 28														91	93.5	96	98	100	104	107	110	113				
KBE 2D - 38															107	110	112	114	118	121	123	127	131	134	137	141

- Hub: Bohre Tolerance: H7 Keyway acc. DIN 6885 on request
- Material: Insert - Polyurethan, Hubs - Aluminium
- Hardness: up to Size 9: 92 Shore A (yellow), from Size 14: 98 Shore 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 ²)	Torque (Nm)	
	Outer Ø	Total Length	Bore Sizes (H7) min ~ max			Screw (DIN 912) Torque to Tighten Clamps T _A (Nm)					
KBE 3 - 14	30	50	6 - 14	18.5	13	M3	1.34	25000	0.05	6	12.5
KBE 3 - 19	40	66	10 - 20	25	16	M4	2.9	19000	0.12	27	17
KBE 3 - 24	55	78	15 - 28	30	18	M5	6	14000	0.28	116	60
KBE 3 - 28	65	90	19 - 38	35	20	M5	6	12000	0.45	283	160
KBE 3 - 38	80	114	20 - 45	45	24	M6	10	10000	0.95	885	325
KBE 3 - 42	95	126	28 - 50	50	26	M8	35	8000	2.3	3032	450
KBE 3 - 48	105	140	35 - 60	56	28	M8	35	7000	3.2	5313	525

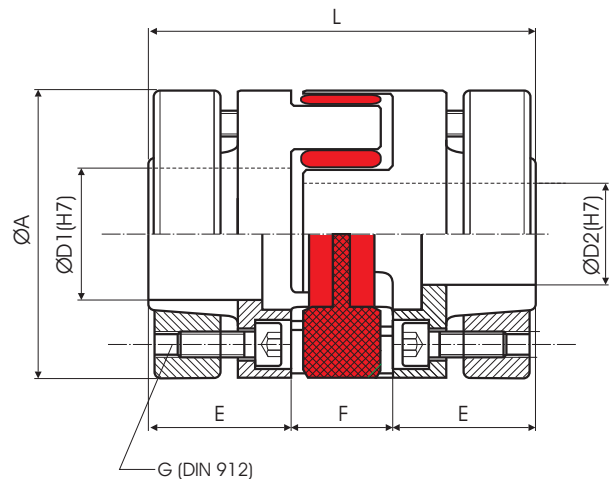
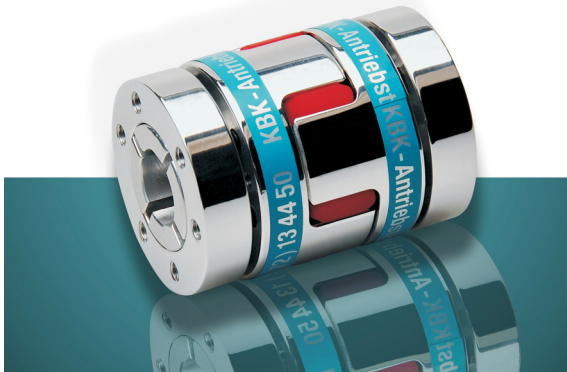
Transmissible Torque (Nm) of the Hubs

	Ø Bore (mm)																				
	6	10	11	14	15	16	19	20	24	25	28	30	32	35	38	40	42	45	48	50	55
KBE 3 - 14	8.6	13.8	14.7	22.7																	
KBE 3 - 19		41	45	62	68	67	83	90													
KBE 3 - 24			48	67	74	72	90	97	112	120	143										
KBE 3 - 28					142	154	189	188	237	250	280	307	310	353	389						
KBE 3 - 38								269	337	356	398	436	424	501	533	572	585	644			
KBE 3 - 42									399	445	506	470	566	581	647	630	728	836	858		
KBE 3 - 48											775	819	955	999	1092	1091	1230	1381	1334	1540	

- Material: Insert: Polyurethan 98 Shore A (red)
- Hubs: (KBE3-14 - KBE3-38) Aluminum
- Hubs: (KBE3-42 - KBE3-48) Steel
- Outer Cone: High Tensile Steel

Servo Insert Coupling Compact Version

with Outer Conical Hubs



Order Code: **KBE 3C** - **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 ²)	Torque (Nm)	
	Outer Ø	Total Length	Bore Sizes (H7) min ~ max			Screw (DIN 912)					Torque to Tighten Clamps T _A (Nm)
KBE 3C - 14	30	42	6 - 14	14.5	13	M3	1.34	25000	0.026	3	12.5
KBE 3C - 19	40	56	10 - 20	20	16	M4	3	19000	0.062	15	17
KBE 3C - 24	55	64	14 - 28	23	18	M5	6	14000	0.132	65	60
KBE 3C - 28	65	76	19 - 38	28	20	M5	6	12000	0.201	142	160
KBE 3C - 38	80	96	20 - 45	36	24	M6	10	10000	0.411	434	325
KBE 3C - 42	95	103	28 - 50	38.5	26	M8	25	8000	0.625	904	450
KBE 3C - 48	105	110	30 - 55	41	28	M10	49	7000	0.831	1467	525

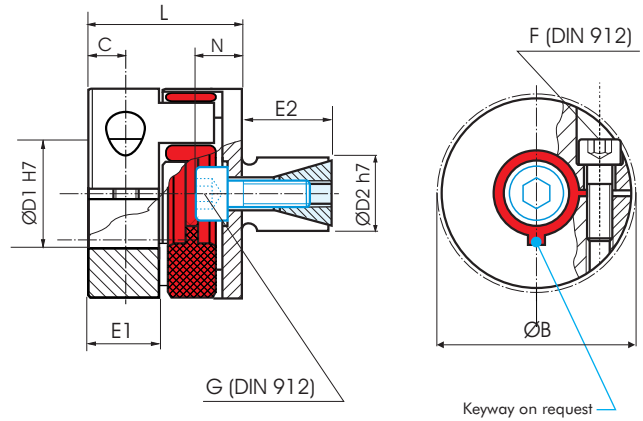
Transmissible Torque (Nm) of the Hubs

	Ø Bore (mm)																				
	6	10	11	14	15	16	19	20	24	25	28	30	32	35	38	40	42	45	48	50	55
KBE 3C - 14	5.4	7.5	11.3	24.7																	
KBE 3C - 19		17	20	41	49	36	56	64													
KBE 3C - 24				47	57	67	98	110	127	139	175										
KBE 3C - 28							121	133	201	219	248	285	253	307	329						
KBE 3C - 38								203	304	331	394	452	453	543	550	609	669	634			
KBE 3C - 42										444	508	535	638	692	763	754	858	964	976		
KBE 3C - 48											572	638	762	842	929	943	1074	1208	1136	1336	

Material: Insert: Polyurethan 98 Shore A (red)
Hubs: Aluminum

Servo Insert Coupling

with Expanding Clamp



Order Code: KBE 4 - 38 - 40H7 - 35H7 (- S)

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

	Dimensions (mm)											Technical Ratings			
	ØA	L	Ø D1	Ø D2	E1	E2	N	C	B	F	G	Maximum Speed	Mass (per Hub)	Moment of Inertia J	Torque
		Length	Bore Sizes (H7) min ~ max	Bore Sizes (H7) min ~ max					Max Ø	Screw (DIN 912) T _A (Nm)	Screw (DIN 912) T _A (Nm)	upm. (1/min)	(g)	(g cm ²)	(Nm)
KBE 4 - 14	30	28	4 - 16	13 - 25	11	20	7	5	32.2	M3 1.4	M5 9	20000	137	0.13	12.5
KBE 4 - 19	40	40	10 - 22	14 - 30	17	25	10	9	45.7	M6 15	M6 12	19000	287	0.44	17
KBE 4 - 24	55	46	12 - 32	23 - 36	20	27	11	10	56.4	M6 15	M8 32	14000	756	2.18	60
KBE 4 - 28	65	51	19 - 38	26 - 42	21	32	16	11	72.6	M8 35	M10 60	11500	1350	5.87	160
KBE 4 - 38	80	68	20 - 45	38 - 60	31	45	20	15	83.3	M8 35	M12 110	9500	2500	16.7	325

Transmissible Torque (Nm) of Collet Clamp

	Ø D1 Bohrung (mm)																								
	4	6	8	9	10	11	12	14	15	16	18	19	20	24	25	28	30	32	35	38	40	42	45		
KBE 4 - 14	3.4	4.8	5.1	5.3	5.5	5.6	5.8	6.1	6.3	6.5															
KBE 4 - 19			24.3	25	25.7	26.3	27	28.4	29	29.7	31.1	31.7	32.4	25											
KBE 4 - 24					21	23	25	30	32	34	38	40	42	51	53	59	63	68							
KBE 4 - 28								54	58	62	70	74	78	93	97	109	116	124	136						
KBE 4 - 38									92	99	111	117	123	148	154	173	185	197	216	234	247	259	278		

Material: Insert: Polyurethan 98 Shore A (red)
Collet Clamp: Aluminum
Expanding Clamp: Steel

Spider Elements for Couplings Type KBE

Size	Hardness	Moment of Inertia [Nm]	torsional stiffness static [Nm/rad]	torsional stiffness dynamic [Nm/rad]	Misalignment		
					axial [mm]	radial [mm]	angular [Grad]
5	92 ShA	0.5	5.16	16	+0.4/-0.2	0.06	1.0°
	98 ShA	0.9	8.3	25	+0.4/-0.2	0.04	0.9°
7	80 ShA	0.7	8.6	26	+0.6/-0.3	0.15	1.1°
	92 ShA	1.2	14.3	43	+0.6/-0.3	0.10	1.0°
	98 ShA	2.0	22.9	69	+0.6/-0.3	0.06	0.9°
64 ShD	64 ShD	2.4	34.3	103	+0.6/-0.3	0.04	0.8°
	80 ShA	1.8	17.2	52	+0.8/-0.4	0.19	1.1°
	92 ShA	3.0	31.5	95	+0.8/-0.4	0.13	1.0°
98 ShA	98 ShA	5.0	51.6	155	+0.8/-0.4	0.08	0.9°
	64 ShD	6.0	74.6	224	+0.8/-0.4	0.05	0.8°
	80 ShA	4.0	60.2	180	+1.0/-0.5	0.21	1.1°
14	92 ShA	7.5	114.6	344	+1.0/-0.5	0.15	1.0°
	98 ShA	12.5	171.9	513	+1.0/-0.5	0.09	0.9°
	64 ShD	16.0	234.2	702	+1.0/-0.5	0.06	0.8°
19	80 ShA	4.9	618	1065	+1.2/-0.5	0.15	1.1°
	92 ShA	10.0	1090	1815	+1.2/-0.5	0.10	1.0°
	98 ShA	17.0	1512	2540	+1.2/-0.5	0.06	0.9°
	64 ShD	21.0	2560	3810	+1.2/-0.5	0.04	0.8°
24	92 ShA	35	2280	4010	+1.4/-0.5	0.14	1.0°
	98 ShA	60	3640	5980	+1.4/-0.5	0.10	0.9°
	64 ShD	75	5030	10896	+1.4/-0.5	0.07	0.8°
28	92 ShA	95	4080	6745	+1.5/-0.7	0.15	1.0°
	98 ShA	160	6410	9920	+1.5/-0.7	0.11	0.9°
	64 ShD	200	10260	20177	+1.5/-0.7	0.08	0.8°
38	92 ShA	190	6525	11050	+1.8/-0.7	0.17	1.0°
	98 ShA	325	11800	17160	+1.8/-0.7	0.12	0.9°
	64 ShD	405	26300	40335	+1.8/-0.7	0.09	0.8°
42	92 ShA	265	10870	15680	+2.0/-1.0	0.19	1.0°
	98 ShA	450	21594	37692	+2.0/-1.0	0.14	0.9°
	64 ShD	560	36860	69825	+2.0/-1.0	0.10	0.8°
48	92 ShA	310	12968	18400	+2.1/-1.0	0.23	1.0°
	98 ShA	525	25759	45620	+2.1/-1.0	0.16	0.9°
	64 ShD	655	57630	99750	+2.1/-1.0	0.11	0.8°



98 ShoreA



92 ShoreA



80 ShoreA



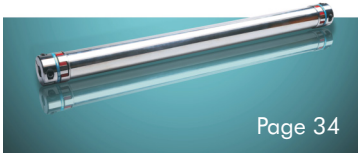
64 ShoreD



LINE SHAFTS

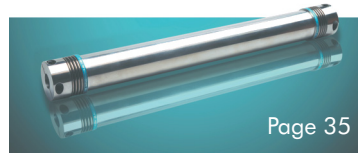
DRE/14~48

Line Shafts with Elastomer Inserts

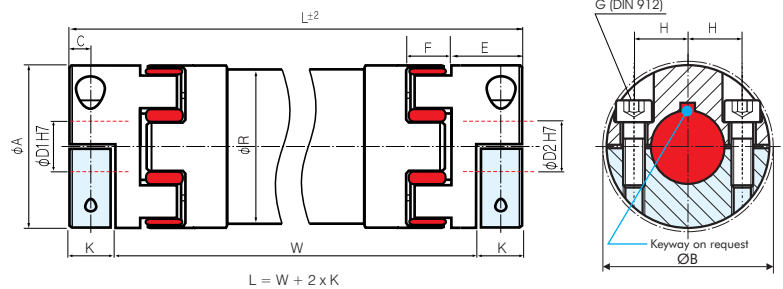
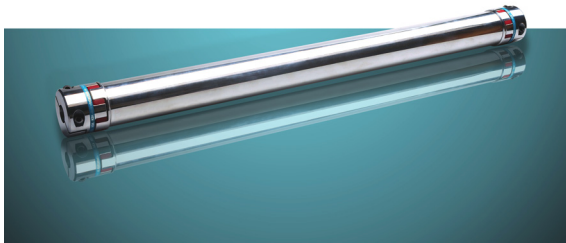


DRB/4.5~500

Line Shafts with Metal Bellows



Split Hubs and Servo Inserts



Order Code: DRE - 19 - 2000 - 10 - 16 (- S)
 Type Size Length L Ø D1 (H7) Ø D2 (H7) Options

	Abmessungen (mm)											Technical Ratings					
	Ø D1/D2		Ø A	E	K	F	L		Ø R	Ø B	C	H	G	T _A (Nm)	T _{KN} (Nm)	T _{Kmax} (Nm)	CT/ _m (Nm/rad)
	min	max	Outer Ø				min	max									
DRE-14	4	14	30	11	8	13	102	3000	30	34	5	10.5	M4	5	12.5	25	500
DRE-19	8	20	40	25	19.5	16	133	3000	35	46	8.0	14.5	M6	10	17	34	1770
DRE-24	10	28	55	30	22.0	18	157	3500	50	57.5	10.5	20	M6	10	60	120	6400
DRE-28	14	38	65	35	25.0	20	181	4000	60	73	11.5	25	M8	25	160	320	11400
DRE-38	18	45	80	45	33.0	24	229	4000	75	83.5	15.5	30	M8	25	325	650	23000
DRE-42	22	50	95	50	36.5	26	253	4000	100	93.5	18.0	32	M10	49	450	900	194000
DRE-48	22	55	105	56	39.5	28	281	4000	100	105	18.5	36	M12	86	525	1050	194000

Transmissible Torque (Nm) of Split Hub (without Keyway)

	Ø (mm)																									
	4	6	8	10	11	14	15	16	18	19	20	22	24	25	28	30	32	35	38	40	42	45	46	48	50	55
DRE-14	3.5	4.8	5,1	5.5	5.6	6.1																				
DRE-19			17	21	23	30	32	34	38	40	42															
DRE-24				21	23	30	32	34	38	40	42	47	51	53	59											
DRE-28					54	58	62	70	74	78	86	93	97	109	117	124	136	148								
DRE-38								70	74	78	86	93	97	109	117	124	136	148	156	163	175					
DRE-42											136	149	155	174	186	198	217	235	248	260	279	285	297	310		
DRE-48											199	217	226	253	271	290	317	344	362	380	407	416	434	452	498	

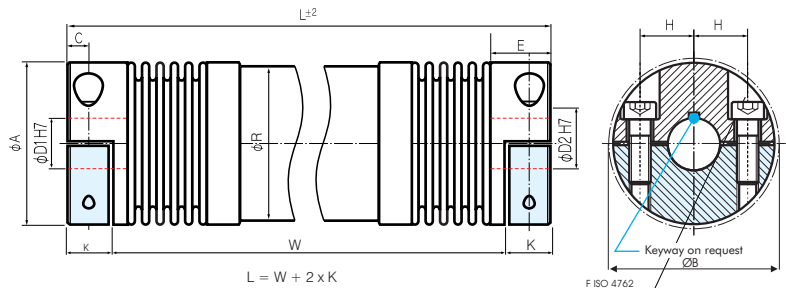
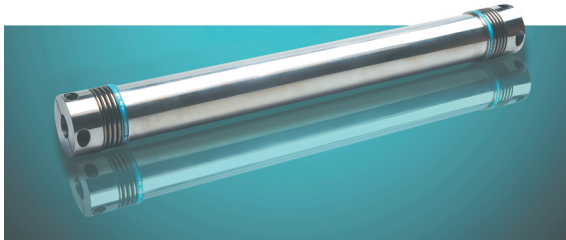
⊙ Hubs: Bore Tolerance: H7 Keyway acc. DIN 6885 on request

⊙ Material: Hubs: Aluminum (also available in Stainless Steel)
 Hollow Shaft: Aluminum
 Insert: Polyurethan 98 Shore A (red)

⊙ Max. rpm: up to 1500 min⁻¹, for higher speed please contact us

⊙ Length up to 6 m on request

Split Hubs and Metal Bellows



Oder Code: **DRB / 60 - 2000 - 15 - 20 (- S)**
 Type / Size Length Ø D1 (H7) Ø D2 (H7) Options

	Torque T_{KN} (Nm)	Dimensions (mm)											Technical Ratings				
		L		Ø A	D1/D2	H	C	E	K	F	Ø R	Ø B	Spring Stiffness Torsional		Misalignment		
		min	max	Outer Ø	Bore Sizes (H7)					Screw (DIN 912) T_A (Nm)	Shaft Ø	Max Ø	Bellows $C_T \cdot 10^3$ (Nm/rad)	Shaft $C_T \cdot 10^3$ (Nm/rad)/m	radial ΔK_r (mm/m)	axial ΔK_a (mm)	angular ΔK_w (°)
DRB/4.5	4.5	68	3000	32.5	6-16	12	5	14	8.5	M4 3.5	30	34	3.2	0.5	5	2	1.5
DRB/10	10	82	3000	40.5	6-25	15.5	5	14	9	M4 4.5	35	41.5	4.1	1.8	5	2	1.5
DRB/18	18	108	3000	45	10-25.4	17	5.5	19.5	13	M5 8	35	-	10	1.8	5	2	1.5
DRB/30	30	111	3500	56	10-30	20	7.5	27	17	M6 15	50	-	19	6.5	5	2	1.5
DRB/60	60	135	4000	66	12-35	23	9.5	31	21	M8 36	60	-	37.5	11.5	5	3	1.5
DRB/150	150	154	4000	82	14-44	28	11	36	23.5	M10 72	75	-	77.5	23	5	4	1.5
DRB/200	200	169	4000	90	16-48	31	12.5	41	27	M12 125	90	-	87.5	73	5	4	1.5
DRB/300	300	179	4000	110	20-60	39	13	43	28	M12 125	100	-	251	194	5	4	1.5
DRB/500	500	215	4000	122	25-65	42	15	51	35.5	M12 145	100	-	345	194	5	5	1.5

Material: Bellows - Stainless Steel
 Hubs - Aluminum
 Hollow Shaft - Aluminum

Temperature Range: -30°C ~ 120°C

Max. rpm: up to 1500 min⁻¹, for higher speed please contact us

Length up to 6 m on request

We also manufacture:



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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KBK Antriebstechnik GmbH
Unterlandstraße 46 · 63911 Klingenberg · Germany
Phone: +49-9372-130-4860
Fax: +49-9372-134-730
e-Mail: info@kbk-antriebstechnik.de
www.kbk-antriebstechnik.de
www.kbk-couplingsystems.com

