



SERVO COUPLINGS

METAL BELLOWS COUPLINGS
SERVO INSERT COUPLINGS
CARDAN COUPLINGS
LINE SHAFTS
RIGID SHAFT COUPLINGS

KBK – The Company

KBK Antriebstechnik GmbH - successful since 2003

Our products are based on the experience of more than 30 years in developing and producing shaft-hub-connections and backlash-free couplings combined with professional advice, service and professional competence. Our sophisticated modular design forms the basis for top quality products at reasonable prices. It enables us to produce almost all elastomer-, metal bellows-, safety couplings and line shafts as well as locking devices from the standard range within two hours, provide them with customized bores and organize a direct delivery to you by courier. Our traffic-favourable position on the edge of the Rhine-Main area simplifies the delivery to our customers all over the world. Benefit from our strenghts and our strong motivation to satisfy all our business-partners and save time and money for your company.



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MINIATURE COUPLINGS

KB1 | 05 ~ 100

Miniature Metal Bellows Coupling
with set screws



P. 6

KB1P | 5 ~ 100

Miniature Metal Bellows Coupling
axial pluggable, with set screws



P. 7

KB2 | 1 ~ 100

Miniature Metal Bellows Coupling
with collet clamps



P. 8

KB2H | 5 ~ 100

Miniature Metal Bellows Coupling
with split hubs



P. 9

KB2P | 5 ~ 100

Miniature Metal Bellows Coupling
axial pluggable, with collet clamps



P. 10

KB2VA | 1 ~ 100

Miniature Metal Bellows Coupling
with stainless steel collet clamps



P. 11

KB3 | 5 ~ 100

Miniature Metal Bellows Coupling
with expanding clamps



P. 12

KB3P | 5 ~ 100

Miniature Metal Bellows Coupling
axial pluggable, with expanding clamps

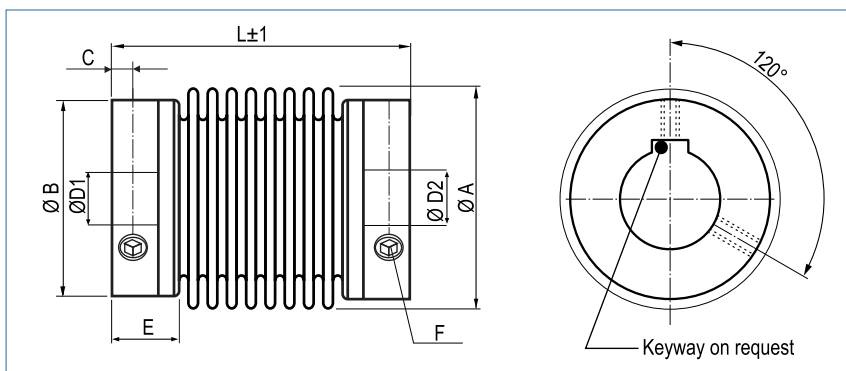


P. 13

Miniature Metal Bellows Coupling

with set screws

optional
laserwelded
optional full stainless
steel version



Order Code

KB1 / 45 - 40 - 10 - 18 - (S)

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)							Technical Data							
		L	Ø A	D1/D2	Ø B	C	E	F	Mass (g)	Moment of Inertia J (g cm²)	Spring Stiffness			Misalignment		
		Length	Outer Ø	Bore Sizes (H7) min~max	Hub Ø		Hub- length	Screw (ISO4029) TA (Nm)			torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (")
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
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
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	
								5	1.6	160	9	8	0.2	0.4	2	
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	
								29	7	2.3	310	16	16	0.2	0.4	2
15	1.5	26	19	3-12	19	3	8	2x M4	10	6	750	59	15	0.1	0.3	1.5
		30		8#				1.5	12	7.4	700	20	9	0.15	0.4	2
20	2	22	24	3-14	21.5	3	6	2x M4	11	9.2	1500	67	12	0.15	0.3	1.5
		10#		13				12.6	1300	21	11	0.2	0.4	1.5		
				32				15	13.5	1050	11	9	0.25	0.5	2	
45	4.5	40	32	6-19	29	4	12	2x M6	44	68	6500	168	32	0.1	0.3	1.5
		48		13#				3	50	79	4200	41	20	0.2	0.5	2
100	10	45	40	6-24	36	4	12	2x M6	60	150	8100	120	27	0.15	0.4	1.5
		55		17#				3	79	210	6800	29	17	0.3	0.6	2

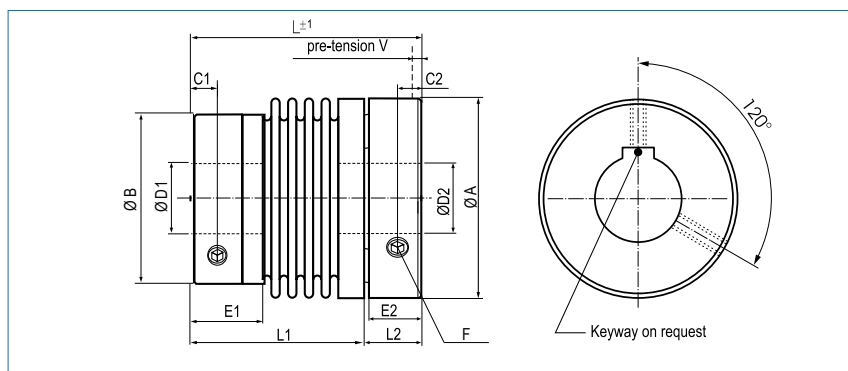


Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel, size 05: bronze hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore with keyway marked with a #

Miniature Metal Bellows Coupling

axial pluggable, with set screws

optional
laserwelded
optional full stainless
steel version



Order Code

KB1P / 15 - 32 - 5 - 10 - D - (S)

Type / Size

Length
LØD1
(H7)ØD2
(H7)

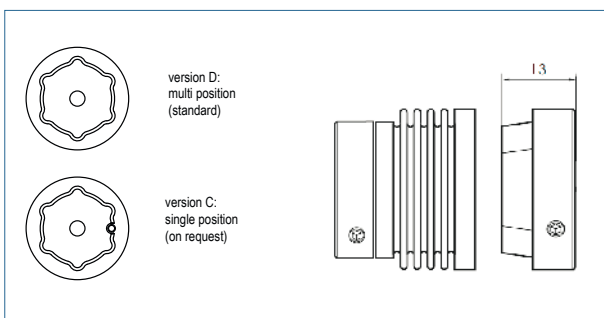
Plug System

Options

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data							
		L	Ø A	Ø B	D1	D2	C1	C2	F	Mass (g)	Moment of Inertia J (g cm²)	Spring Stiffness			Misalignment		
		Length	Plug Hub Ø	Set Screw Ø	Bore Size (H7) min-max	Bore Size (H7) min-max			Screw (ISO4029) TA (Nm)			torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
5	0.5	22	15.5	13.5	3-8	3-8	2	2	1xM3	5.9	1.9	260	43	13	0.1	0.2	1
		26								6.6	2.2	200	18	10	0.15	0.3	1.5
		30								0.5	7.4	2.4	160	9	8	0.2	0.4
10	1	24	15.5	13.5	3-8	3-8	2	2	1xM3	8.1	2.7	510	74	27	0.1	0.2	1
		28								8.8	2.9	380	31	20	0.15	0.3	1.5
		32								0.5	10.3	3.4	310	16	16	0.2	0.4
15	1.5	28	20	19	3-12	3-10	3	2.5	2xM4	14.7	8.8	750	59	15	0.1	0.3	1.5
		32			8#	7#			1.5	17.6	10.9	700	20	9	0.15	0.4	2
20	2	27	25	21.5	3-14	3-14	3	2.5	2xM4	16.2	13.5	1500	67	12	0.15	0.3	1.5
		37			10#	10#			1.5	22	19.9	1050	11	9	0.25	0.5	2
45	4.5	44	32.5	29	6-19	6-16	4	4	2xM6	64.7	100	6500	168	32	0.1	0.3	1.5
		52			13#	11#			3	73.5	116	4200	41	20	0.2	0.5	2
100	10	50	40.5	36	6-24	6-25	4	4	2xM6	88.2	220.5	8100	120	27	0.15	0.4	1.5
		60			17#	18#			3	116.1	308.7	6800	29	17	0.3	0.6	2



Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore with keyway marked with a #

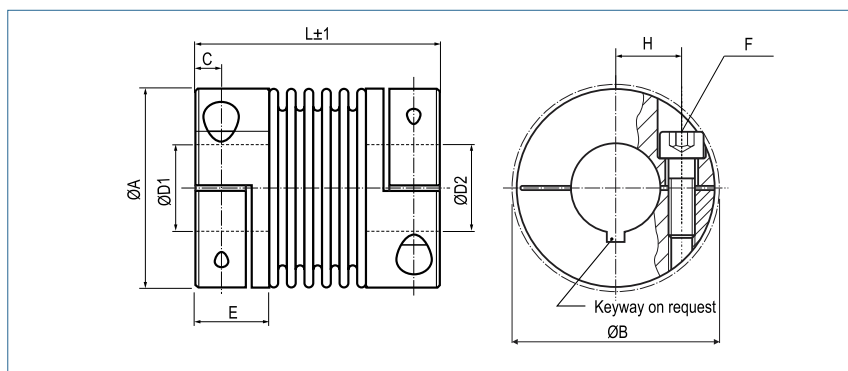


Size	Dimensions (mm)					
	E1	E2	L1	L2	L3	V
5	6	4	17	5	9	0.5
			21			
			25			
10	6	4	19	5	9	0.5
			23			
			27			
15	8	5	22	6	11	0.5
			26			
20	6	5	21	6	11	0.5
			27			
			31			
45	12	8	35	9	16	0.5
			43			
100	12	8	41	9	17	1
			51			

Miniature Metal Bellows Coupling

with collet clamps

optional
laserwelded
optional full stainless
steel version



Order Code

KB2 / 45 - 50 - 10 - 16 - (S)

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data							
		L	Ø A	D1/D2	H	C	Ø B	E	F	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
		Length	Outer Ø	Bore Sizes (H7) min-max				Hub- length	Screw (ISO4762) TA (Nm)			torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)
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
5	0.5	21	15.5	3-8	5.2	2.5	17.5	7	M2	7.5	2.7	260	43	13	0.1	0.2	1
		25		8#					0.43	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
10	1	23	15.5	3-8	5.2	2.5	17.5	7	M2	9	3.1	510	74	27	0.1	0.2	1
		26		8#					0.43	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
15	1.5	26	20	3-10	7	3	21	8,5	M2.5	13	8	750	59	15	0.1	0.3	1.5
		31		10#					0.85	15	9.3	700	20	9	0.15	0.4	2
20	2	32	25	3-14	9	3.5	27	11	M3	29	24	1500	67	12	0.15	0.3	1.5
		38		14#						32	27	1300	21	11	0.2	0.4	1.5
		42							2	33	29	1050	11	9	0.25	0.5	2
45	4.5	41	32.5	6-18	12	5	34	13	M4	61	100	6500	168	32	0.1	0.3	1.5
		50		18#					3.5	67	112	4200	41	20	0.2	0.5	2
100	10	47	40.5	6-25	15.5	5	41.5	13,5	M4	86	233	8100	120	27	0.15	0.4	1.5
		57		25#					4.5	106	290	6800	29	17	0.3	0.6	2

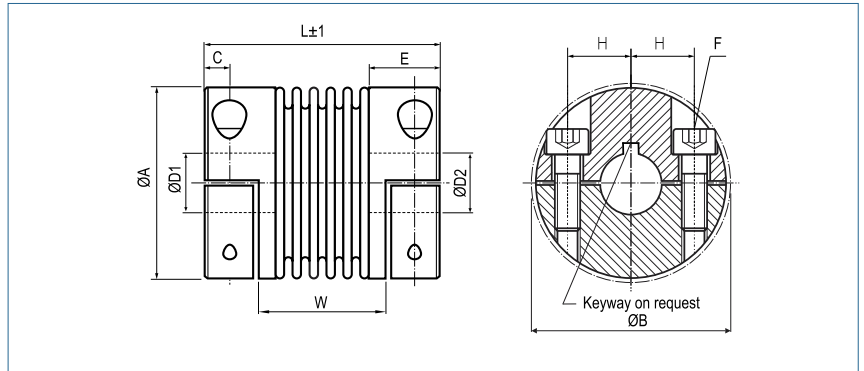


Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Miniature Metal Bellows Coupling

with split hubs

optional
laserwelded
optional full stainless
steel version



Order Code

KB2H / 45 - 50 - 10 - 16 - (S)

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)									Technical Data							
		L	Ø A	D1/D2	H	C	ØB	E	W	F	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
		Length	Outer Ø	Bore Sizes (H7) min-max				Hub- length		Screw (ISO4762) TA (Nm)			torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)
5	0.5	21	15.5	3-8	5.2	2.5	17.5	7	12	M2	7.5	2.7	260	43	13	0.1	0.2	1
		25							16	0.43	7.8	2.8	200	18	10	0.15	0.3	1.5
		28							19		8.2	3	160	9	8	0.2	0.4	2
10	1	23	15.5	3-8	5.2	2.5	17.5	7	14	M2	9	3.1	510	74	27	0.1	0.2	1
		26							17	0.43	9.3	3.4	380	31	20	0.15	0.3	1.5
		31		8#					22		10	3.7	310	16	16	0.2	0.4	2
15	1.5	26	20	3-10	7	3	21	8,5	14.4	M2.5	13	8	750	59	15	0.1	0.3	1.5
		31		10#					19.4	0.85	15	9.3	700	20	9	0.15	0.4	2
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
		38							24.4	2	32	27	1300	21	11	0.2	0.4	1.5
		42		14#					28.4		33	29	1050	11	9	0.25	0.5	2
45	4.5	41	32.5	6-18	12	5	34	13	24	M4	61	100	6500	168	32	0.1	0.3	1.5
		50		18#					33	3.5	67	112	4200	41	20	0.2	0.5	2
100	10	47	40.5	6-25	15.5	5	41.5	13,5	29	M4	86	233	8100	120	27	0.15	0.4	1.5
		57		25#					39	4.5	106	290	6800	29	17	0.3	0.6	2

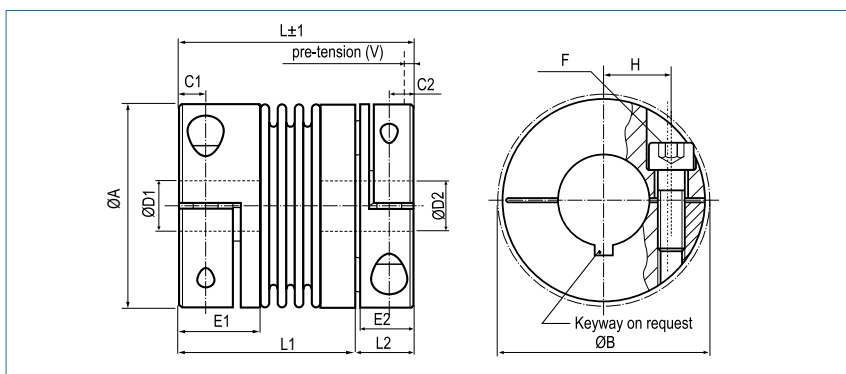


Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Miniature Metal Bellows Coupling

axial pluggable, with collet clamps

optional
laserwelded
optional full stainless
steel version



Order Code

KB2P / 15 - 30 - 5 - 10 - D - (S)

Type / Size

Length
LØD1
(H7)ØD2
(H7)

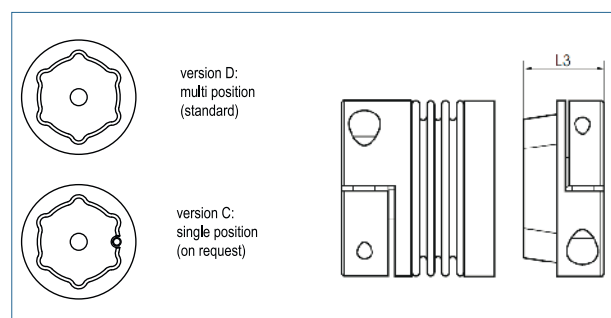
Plug System

Options

Size	Torque TKN (Nm)	Dimensions (mm)									Technical Data								
		L	Ø A	Ø B	D1	D2	H	C1	C2	F	Mass (g)	Moment of Inertia J (g cm²)	Spring Stiffness			Misalignment			
		Length	Outer Ø		Bore Size (H7) min-max	Bore Size (H7) min-max				Screw (ISO4762) TA (Nm)			torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)	
5	0.5	25	15.5	17.5	3-8	3-8	5.2	2.5	2.5	M2	8.7	3.1	260	43	13	0.1	0.2	1	
		29								9.1	3.3	200	18	10	0.15	0.3	1.5		
		32			8#					9.6	3.5	160	9	8	0.2	0.4	2		
10	1	27	15.5	17.5	3-8	3-8	5.2	2.5	2.5	M2	10.5	3.6	510	74	27	0.1	0.2	1	
		30								10.8	3.9	380	31	20	0.15	0.3	1.5		
		32			8#					11.7	4.3	310	16	16	0.2	0.4	2		
15	1.5	30	20	21	3-10	3-10	7	3	3	M2.5	15.2	9.3	750	59	15	0.1	0.3	1.5	
		35			10#	7#				0.85	17.5	10.8	700	20	9	0.15	0.4	2	
20	2	37	25	27	3-14	3-14	9	3.5	3.5	M3	33.8	27.8	1500	67	12	0.15	0.3	1.5	
		43				37.3				31.3	1300	21	11	0.2	0.4	1.5			
		47			14#	10#				2	38.5	33.6	1050	11	9	0.25	0.5	2	
45	4.5	49	32.5	34	6-18	6-16	12	5	5	M4	71	116	6500	168	32	0.1	0.3	1.5	
		58			18#	11#				3.5	78	129.9	4200	41	20	0.2	0.5	2	
100	10	56	40.5	41.5	6-25	6-25	15.5	5	5	M4	100	270.3	8100	120	27	0.15	0.4	1.5	
		66			25#	18#				4.5	123.5	336.4	6800	29	17	0.3	0.6	2	



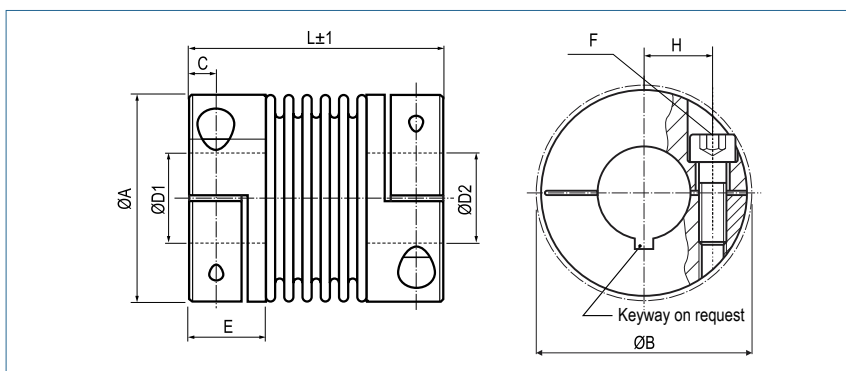
Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a #



Size	Dimensions (mm)					
	E1	E2	L1	L2	L3	V
5	7	6	18	7	11	0.5
			22			
			25			
10	7	6	20	7	11	0.5
			23			
			25			
15	8.5	6.5	22.5	7.5	12.5	0.5
			27.5			
20	11	10	26	11	16	0.5
			32			
			36			
45	13	12	36	14	20	0.5
			45			
100	13.5	12	43	14	21	1
			53			

Miniature Metal Bellows Coupling

with stainless steel collet clamps

optional
laserwelded

Order Code

KB2 / 45 - 50 - 10 - 16 - VA/VAW

Type / Size

Length
LØD1
(H7)ØD2
(H7)stainless steel
glued / laserwelded

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data							
		L Length	Ø A Outer Ø	D1/D2 Bore Sizes (H7) min-max	H	C	Ø B	E Hub- length	F Screw (ISO4762) TA (Nm)	Mass (g)	Moment of Inertia J (g cm ²)	Spring Stiffness			Misalignment		
1	0.1	25	10	1-4	3.4	2	11	7	M1.6 0.1	7	1	65	10	14	0.12	0.2	1.2
5	0.5	21	15.5	3-8	5.2	2.5	17.5	7	M2	18	5.9	260	43	13	0.1	0.2	1
		25		8#					0.43	18	6.2	200	18	10	0.15	0.3	1.5
		28								19	6.6	160	9	8	0.2	0.4	2
10	1	23	15.5	3-8	5.2	2.5	17.5	7	M2	19	6.8	510	74	27	0.1	0.2	1
		26		8#					0.43	20	7.5	380	31	20	0.15	0.3	1.5
		31								21	8.1	310	16	16	0.2	0.4	2
15	1.5	26	20	3-10	7	3	21	8,5	M2.5	36	18	750	59	15	0.1	0.3	1.5
		31		10#					0.85	38	21	700	20	9	0.15	0.4	2
20	2	32	25	3-14	9	3.5	27	11	M3	70	53	1500	67	12	0.15	0.3	1.5
		38		14#						73	60	1300	21	11	0.2	0.4	1.5
		42							2	75	64	1050	11	9	0.25	0.5	2
45	4.5	41	32.5	6-18	11.5	5	34	13	M4	133	220	6500	168	32	0.1	0.3	1.5
		50		18#				13	3.5	139	246	4200	41	20	0.2	0.5	2
100	10	47	40.5	6-25	15.5	5	41.5	13,5	M4	244	513	8100	120	27	0.15	0.4	1.5
		57		25#				13,5	4.5	261	638	6800	29	17	0.3	0.6	2

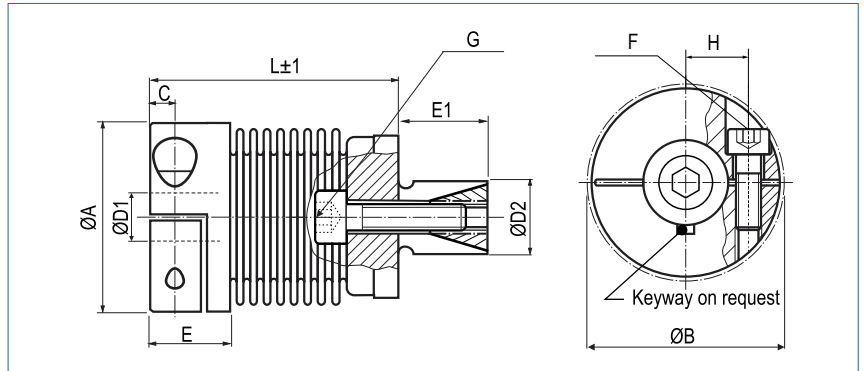


Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel hub - stainless Steel
Hub	bore tolerance: H7
Temperature Range	VA -30 °C ~ 120 °C (glued) VAW -30 °C ~ 250 °C (laserwelded)
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Miniature Metal Bellows Coupling

with expanding clamps

optional
laserwelded
optional full stainless
steel version



Order Code

KB3 / 45 - 36 - 10 - 18 - (S)

Type / Size

Length
LØD1
(H7)ØD2
(f7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)										Technical Data							
		L	Ø A	D1	D2	Ø B	H	C	E	E1	F/G	Mass (g)	Moment of Inertia J (g cm²)	Spring Stiffness			Misalignment		
		Length	Outer Ø	Bore Size (H7) min~max	(f7) min~max						Screw (ISO4762) TA (Nm)			torsional CT (Nmrad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)
5	0.5	20	15.5	3-8	8-12	17,5	5.2	2.5	7	8	M2/M3	12.8	2.9	260	43	13	0.1	0.2	1
		24		0.3/1							13.2	3.1	200	18	10	0.15	0.3	1.5	
		27									13.5	3.2	160	9	8	0.2	0.4	2	
10	1	22	15,5	3-8	8-12	17,5	5.2	2.5	7	8	M2/M3	14.1	3.3	510	74	27	0.1	0.2	1
		26		0.3/1							14.6	3.4	380	31	20	0.15	0.3	1.5	
		30									15.3	3.6	310	16	16	0.2	0.4	2	
15	1.5	25	20	3-10	10-14	21	7	3	8,5	12	M2.5/M4	27.2	11	750	59	15	0.1	0.3	1.5
		29		10#							0.8/3	29.3	12	700	20	9	0.15	0.4	2
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
		34		1/3							43.2	29	1300	21	11	0.2	0.4	1.5	
		38									49.1	30	1050	11	9	0.25	0.5	2	
45	4.5	36	32.5	6-18	14-20	34	12	5	13	16	M4/M5	86.5	98	6500	168	32	0.1	0.3	1.5
		44		18#							3/5.9	92.9	110	4200	41	20	0.2	0.5	2
100	10	41	40.5	6-25	16-22	41,5	15.5	5	13,5	20	M4/M6	135	235	8100	120	27	0.15	0.4	1.5
		51		25#							3/10	154	292	6800	29	17	0.3	0.6	2

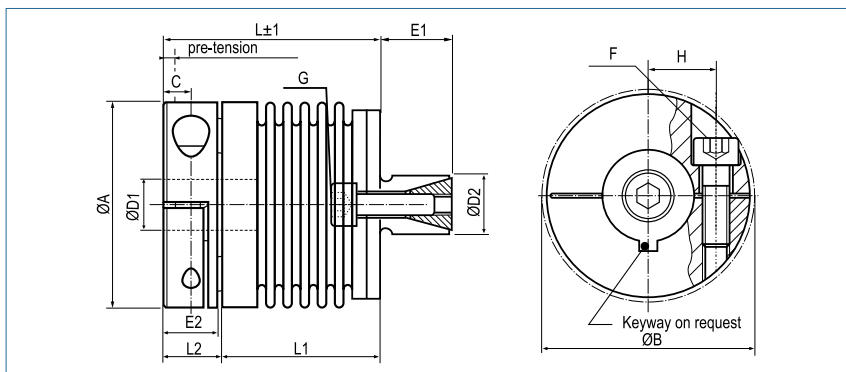


Speed	max. 15000 min ⁻¹
Material	bellows - stainless steel collet clamps - aluminium expanding clamps - steel
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Miniature Metal Bellows Coupling

axial pluggable, with expanding clamps

optional
laserwelded
optional full stainless
steel version



Order Code

KB3P / 15 - 29 - 5 - 10 - D - (S)

Type / Size

Length
LØD1
(H7)ØD2
(f7)

Plug System

Options

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data							
		L	Ø A	Ø B	D1	D2	H	C	F/G	Mass (g)	Moment of Inertia J (g cm²)	Spring Stiffness			Misalignment		
		Length	Outer Ø		Bore Size (H7) min~max	(f7) min~max			Screw (ISO4762) TA (Nm)			torsional CT (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
5	0.5	24	15.5	17.5	3-8	8-12	5.2	2.5	M2/M3	14.9	3.4	260	43	13	0.1	0.2	1
		28								15.4	3.6	200	18	10	0.15	0.3	1.5
		31								15.8	3.7	160	9	8	0.2	0.4	2
10	1	26	15.5	17.5	3-8	8-12	5.2	2.5	M2/M3	16.4	3.8	510	74	27	0.1	0.2	1
		30								17	4	380	31	20	0.15	0.3	1.5
		34								17.8	4.2	310	16	16	0.2	0.4	2
15	1.5	29	20	21	3-10	10-14	7	3	M2.5/M4	31.7	12.8	750	59	15	0.1	0.3	1.5
		33			7#				0.85/3	34.1	14	700	20	9	0.15	0.4	2
20	2	33	25	27	3-14	10-16	9	3.5	M3/M4	46.7	29.1	1500	67	12	0.15	0.3	1.5
		39			50.3					33.8	1300	21	11	0.2	0.4	1.5	
		43			2/3					57.2	34.9	1050	11	9	0.25	0.5	2
45	4.5	43	32.5	34	6-16	14-20	12	5	M4/M5	100.7	114.1	6500	168	32	0.1	0.3	1.5
		51			11#				3.5/5.9	108.1	128	4200	41	20	0.2	0.5	2
100	10	49	40.5	41.5	6-25	16-22	15.5	5	M4/M6	157.1	273.5	8100	120	27	0.15	0.4	1.5
		59			18#				4.5/10	179.3	339.9	6800	29	17	0.3	0.6	2



Speed

max. 15000 min⁻¹

Material

bellows - stainless steel
collet clamps - aluminium
expanding clamps - steel

Hub

bore tolerance: H7

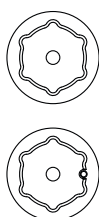
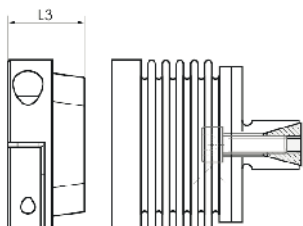
Temperature Range

-30 °C ~ 120 °C

Keyway

optional acc. DIN 6885
biggest bore marked with a #

Size	Dimensions (mm)					
	E1	E2	L1	L2	L3	V
5	8	6	17	7	11	0.5
			21			
			24			
10	8	6	19	7	11	0.5
			23			
			27			
15	12	6.5	21.5	7.5	12.5	0.5
			25.5			
20	12	10	22	11	16	0.5
			28			
			32			
45	16	12	30	13	20	0.5
			38			
100	20	12	36	13	21	1
			46			

version D:
multi position
(standard)version C:
single position
(on request)

METAL BELLOWS COUPLINGS

KB4 | 18 ~ 1400

Metal Bellows Coupling
with collet clamps



P. 16

KB4AL | 80 ~ 500

Metal Bellows Coupling
with collet clamps



P. 17

KB4C | 18 ~ 500

Metal Bellows Coupling
with collet clamps, compact



P. 18

KB4F | 18 ~ 1400

Metal Bellows Coupling
with adapting flange



P. 19

KB4H | 18 ~ 1400

Metal Bellows Coupling
with split hubs



P. 20

KB4HC | 18 ~ 500

Metal Bellows Coupling
with split hubs



P. 21

KB4K | 40 ~ 1500

Metal Bellows Coupling
with collet clamps



P. 22

KB4P | 18 ~ 500

Metal Bellows Coupling
axial pluggable



P. 23

KB4VA | 18 ~ 500

Metal Bellows Coupling
with stainless steel collet clamps



P. 24

KB5 | 18 ~ 5000

Metal Bellows Coupling
with inner conical hubs



P. 25

KB6 | 18 ~ 5000

Metal Bellows Coupling
with outer conical hubs



P. 26

KB6P | 18 ~ 500

Metal Bellows Coupling
axial pluggable, with outer conical hubs



P. 27

METAL BELLOWS COUPLINGS

KB7 | 18 ~ 5000

Metal Bellows Coupling
for flange mounting



P. 28

KB8 | 18 ~ 300

Metal Bellows Coupling
with expanding clamps



P. 29

KB8P | 18 ~ 300

Metal Bellows Coupling
axial pluggable, with expanding clamps

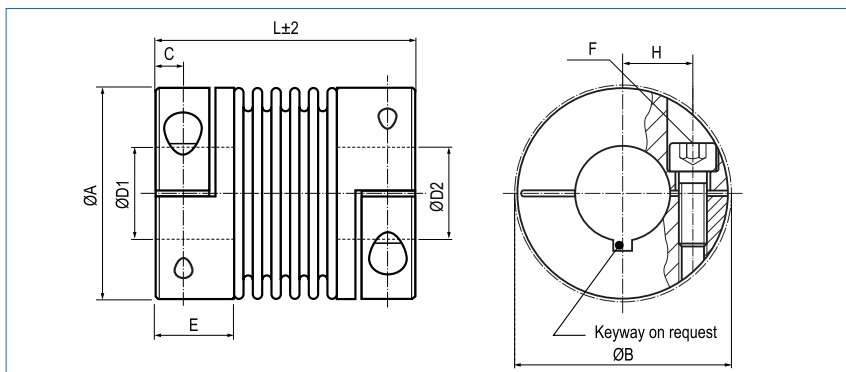


P. 30

Metal Bellows Coupling

with collet clamps

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4 / 60 - 89 - 12 - 32 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data								
		L	Ø A	D1/D2	H	C	E	B	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max speed min-1
		Length	Outer Ø	Bore Sizes (H7) min~max					Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	63	45	10-25.4	17	5.5	19.5	47.4	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
30	30	65	56	10-32	20	7.5	24.5	56.4	M6	0.3	0.15	38	720	50	0.15	0.6	1.5	10300
		73		30#					15	0.32	0.16	28	225	28	0.25	1	2	10300
60	60	79	66	12-35	23	10	29	66	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
80	80	91	82	14-44	28	11	33.5	82.9	M10	2.3	2.3	128	1200	80	0.2	0.5	1.5	6900
		102							84	2.4	2.4	75	400	50	0.25	0.8	2	6900
150	150	91	82	19-44	28	11	33.5	82.9	M10	2.3	2.5	155	2020	145	0.2	0.5	1.5	6900
		102							84	2.4	2.6	105	595	85	0.25	0.8	2	6900
200	200	101	90	22-47	31	13	38	90.8	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
300	300	105	110	30-60	40	13	38	110	M12	4.3	7.6	502	6300	280	0.2	0.5	1.5	6000
		116							145	4.4	7.8	285	1400	145	0.25	0.8	2	6000
500	500	112	122	35-70	42	15	42	122	M12	5.5	13.5	690	7790	100	0.2	0.5	1.5	5000
		123							145	5.6	13.7	320	970	85	0.25	1	2	5000
800	800	168	157	40-80	55	22.5	55	170.3	2xM20 400	14.3	56.9	1270	700	275	0.2	0.8	1.8	5000
1400	1400	168	157	50-80	55	22.5	55	170.3	2xM20 470	14.8	57.7	1270	700	275	0.2	0.8	1.8	5000

**Material**

bellows - stainless steel
hub -size 18 - 60: aluminium
hub - from size 80: steel

Hub

bore tolerance: H7

Temperature Range

-30 °C ~ 120 °C
size 800/1400: -30 °C ~ 250 °C

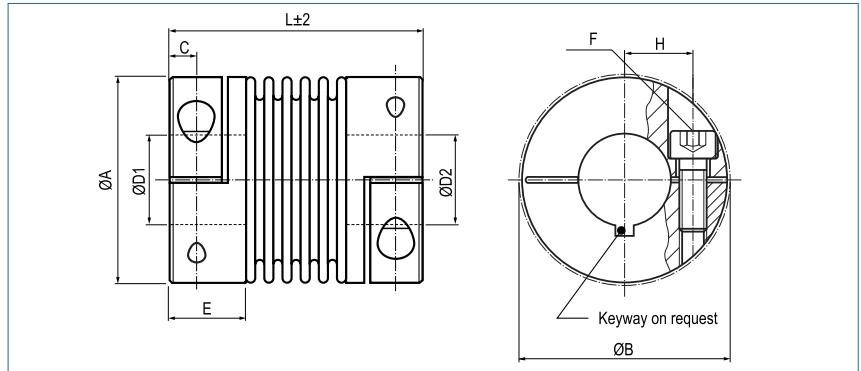
Keyway

optional acc. DIN 6885
biggest bore marked with a #

Metal Bellows Coupling in aluminum

with collet clamps

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4AL / 80 - 91 - 15 - 20 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data								
		L	Ø A	D1/D2	H	C	E		F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max speed min-1
		Length	Outer Ø	Bore Sizes (H7) min-max					Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
80	80	91	82	12-44	28	11	33.5	82.9	M10	0.8	0.90	128	1200	80	0.2	0.5	1.5	6900
		102							84	0.85	0.95	75	400	50	0.25	0.8	2	
150	150	91	82	14-44	28	11	33.5	82.9	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	0.8	2	
200	200	101	90	16-47	31	13	38	90.8	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	
300	300	105	110	20-60	40	13	38	110	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	
500	500	112	122	25-70	42	15	42	122	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	

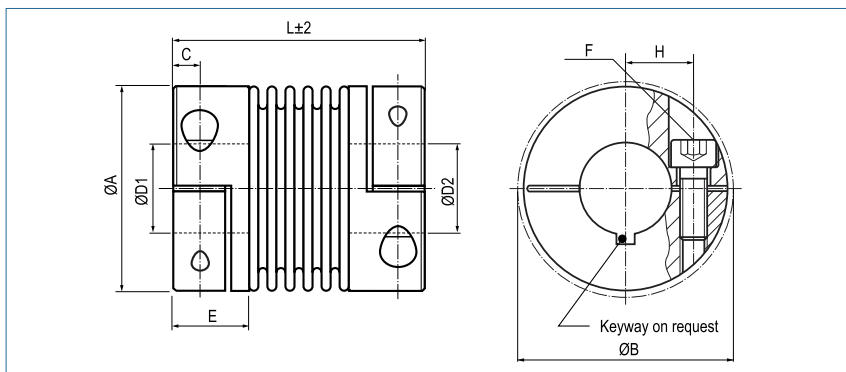


Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885

Metal Bellows Coupling compact

with Collet Clamps

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4C / 60 - 67 - 12 - 32 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data								
		L	Ø A	D1/D2	H	C	E	B	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed min-1
		Length	Outer Ø	Bore Sizes (H7) min~max					Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	58	45	10-25.4	17	5.5	17.5	47.4	M5	0.07	0.03	20	205	50	0.2	0.5	1.5	12800
		66							8	0.12	0.04	15	82	36	0.25	0.5	2	12800
30	30	58	56	10-32	20	7.3	21	56.4	M6	0.26	0.13	38	720	50	0.15	0.6	1.5	10300
		66		30#					15	0.27	0.14	28	225	28	0.25	1	2	10300
60	60	67	66	12-35	24	8.6	24	66.2	M8	0.38	0.28	75	1150	90	0.15	0.6	1.5	8700
		77							40	0.42	0.31	50	340	50	0.25	1	2	8700
80	80	78	82	12-44	28	9.8	27	82.9	M10	0.70	0.78	128	1200	80	0.2	0.5	1.5	6900
		89							84	0.76	0.85	75	400	50	0.25	0.8	2	6900
150	150	78	82	14-44	28	9.8	27	82.9	M10	0.73	0.82	155	2020	145	0.2	0.5	1.5	6900
		89							84	0.80	0.89	105	595	85	0.25	0.8	2	6900
200	200	83	90	16-47	31	10.8	29	90.8	M12	0.89	1.19	175	2500	145	0.2	0.5	1.5	6400
		94							125	0.95	1.27	120	460	82	0.25	0.8	2	6400
300	300	94	110	20-60	40	11.8	32.5	110	M12	1.37	2.74	502	6300	280	0.2	0.5	1.5	6000
		105							145	1.43	2.86	285	1400	145	0.25	0.8	2	6000
500	500	100	122	25-70	42	13.3	36	122	M12	1.81	4.45	690	7790	100	0.2	0.5	1.5	5000
		111							145	1.91	4.69	320	970	85	0.25	1	2	5000

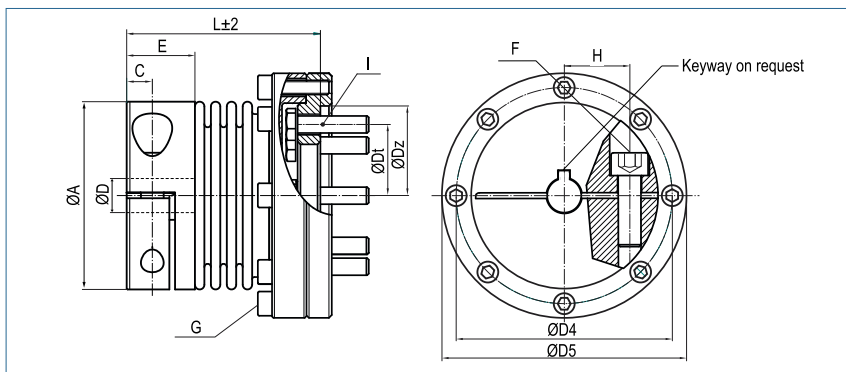


Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Metal Bellows Coupling

with adapting flange

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4F / 150 - 79 - 30 - 63**

Type / Size

Length
LØD
(H7)

Dt

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data								
		L	Ø A	D1	H	C	E	D4	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Size (H7) min~max					Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	63	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
		71							8	0.52	0.16	15	82	36	0.25	0.5	2	
30	30	61	56	10-32	20	7.3	21	65	M6	0.70	0.20	38	720	50	0.15	0.6	1.5	10300
		69		30#					15	0.72	0.21	28	225	28	0.25	1.0	2	
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
		78							40	1.05	0.68	50	340	50	0.25	1.0	2	
150	150	79	82	14-44	28	9.8	27	94	M10	1.65	1.30	155	2020	145	0.2	0.5	1.5	6900
		90							84	1.75	1.37	105	595	85	0.25	0.8	2	
300	300	90	110	30-60	40	11.8	32.5	120	M12	2.90	5.50	502	6300	280	0.2	0.5	1.5	6000
		101							145	3.00	5.62	285	1400	145	0.25	0.8	2	
500	500	100	122	35-70	42	13.3	36	142	M12	4.55	9.00	690	7790	100	0.2	0.5	1.5	5000
		111							145	4.70	9.15	320	970	85	0.25	1	2	
1400	1400	140	157	50-80	55	22.5	55	171	2xM20 470	10.50	45	1270	700	275	0.2	0.8	1.8	5000



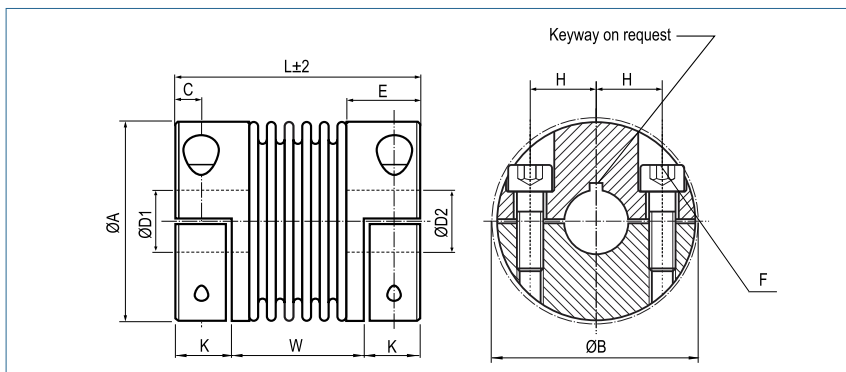
Material	bellows - stainless steel collet clamps - to Size 500: high-tensile aluminium collet clamps - Size 1400: Steel flanges - steel
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C -30 °C ~ 250 °C (Size 1400)
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Size	Dimensions (mm)				
	G	D5	Dt	Dz	I
	Screw (ISO4762) / TA (Nm)		PCD	H7	Screw (ISO4017) / TA (Nm)
18	8 x M4 / 4.5Nm	63.5	31.5	40	8 x M5 / 7.6Nm
30	8 x M5 / 8Nm	74	40	50	8 x M6 / 13.2Nm
60	8 x M5 / 8Nm	86	50	63	8 x M6 / 13.2Nm
150	8 x M6 / 15Nm	104	63	80	12 x M6 / 13.2Nm
300	12 x M6 / 15Nm	132	80	100	12 x M8 / 31.8Nm
500	12 x M8 / 40Nm	155	100	130	12 x M10 / 63Nm
1400	16 x M8 / 40Nm	184	125	160	12 x M10 / 63Nm

Metal Bellows Coupling

with split hubs

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4H / 60 - 83 - 20 - 20 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)										Technical Data								
		L	Ø A	D1/D2	H	C	E	W	K	B	F	Mass (kg)	Moment of Inertia J	Spring Stiffness			Misalignment			max. speed (min-1)
		Length (±2)	Outer Ø	Bore Sizes (H7) min~max							Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	agular ΔKw (°)	
18	18	63	45	10-25.4	17	5.5	19.5	37	13	47.4	M5	0.1	0.04	20	205	50	0.2	0.5	1.5	12800
		71						45			8	0.15	0.05	15	82	36	0.25	0.5	2	12800
30	30	69	56	10-32	20	7.5	27	35	17	56.4	M6	0.3	0.14	38	720	50	0.15	0.6	1.5	10300
		77		30#				43			15	0.32	0.15	28	225	28	0.25	1	2	10300
60	60	83	66	12-35	23	9.5	31	41	21	66.2	M8	0.5	0.28	75	1150	90	0.15	0.6	1.5	8700
		93						51			40	0.6	0.29	50	340	50	0.25	1	2	8700
80	80	94	82	12-44	28	11	36	47	23.5	82.9	M10	0.9	0.65	128	1200	80	0.2	0.5	1.5	6900
		106						59			84	0.95	0.67	75	400	50	0.25	0.8	2	6900
150	150	95	82	14-44	28	11	36	48	23.5	82.9	M10	0.9	0.82	155	2020	145	0.2	0.5	1.5	6900
		107						60			84	0.95	0.86	105	595	85	0.25	0.8	2	6900
200	200	105	90	16-47	31	12.5	41	51	27	90.8	M12	1.3	2.2	175	2500	145	0.2	0.5	1.5	6400
		117						63			125	1.35	2.7	120	460	82	0.25	0.8	2	6400
300	300	111	110	20-60	40	13	41	55	28	110	M12	1.8	4.2	502	6300	280	0.2	0.5	1.5	6000
		125						69			145	1.85	5.2	285	1400	145	0.25	0.8	2	6000
500	500	133	122	25-70	42	15	51	62	35.5	122	M12	2.50	8.6	690	7790	100	0.2	0.5	1.5	5000
		146						75			145	2.51	9.3	320	970	85	0.25	1	2	5000
800	800	168	157	40-80	55	22.5	66.5	77	45.5	168	M20 400	14.8	57.65	1270	700	275	0.2	0.8	1.8	5000
1400	1400	168	157	50-80	55	22.5	66.5	77	45.5	168	M20 400	15.3	58.70	1270	700	275	0.2	0.8	1.8	5000

**Material**

bellows - stainless steel
hub - to size 500: aluminium
hub - from size 800: steel

Hub

bore tolerance: H7

Temperature Range

-30 °C ~ 120 °C
size 800/1400: -30 °C ~ 250 °C

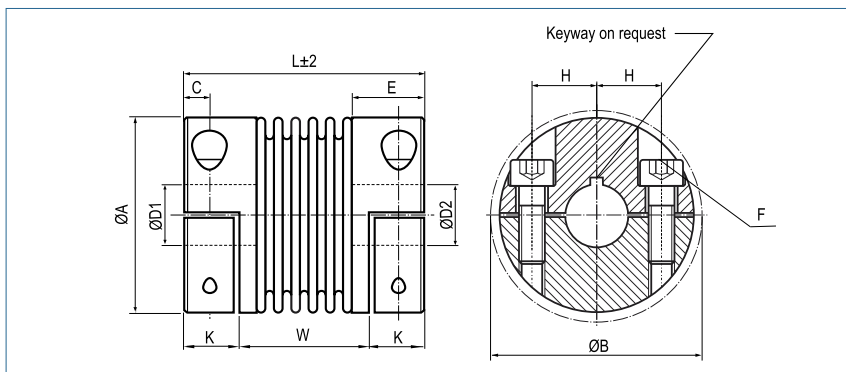
Keyway

optional acc. DIN 6885
biggest bore marked with a #

Metal Bellows Coupling

with split hubs, compact

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4HC / 60 - 67 - 20 - 20 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)										Technical Data								
		L	Ø A	D1/D2	H	C	E	W	K	B	F	Mass (kg)	Moment of Inertia J	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Sizes (H7) min~max							Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	58	45	10-25.4	17	5.5	17.5	36	11	47.4	M5	0.07	0.03	20	205	50	0.2	0.5	1.5	12800
		66						44			8	0.12	0.04	15	82	36	0.25	0.5	2	12800
30	30	58	56	10-32	20	7.3	21	31	13.5	56.4	M6	0.26	0.13	38	720	50	0.15	0.6	1.5	10300
		66		30#				39			15	0.27	0.14	28	225	28	0.25	1	2	10300
60	60	67	66	12-35	23	8.6	24	33	17	66.2	M8	0.38	0.28	75	1150	90	0.15	0.6	1.5	8700
		77						43			40	0.42	0.31	50	340	50	0.25	1	2	8700
80	80	78	82	12-44	28	9.8	27	42	18	82.9	M10	0.70	0.78	128	1200	80	0.2	0.5	1.5	6900
		89						53			84	0.76	0.85	75	400	50	0.25	0.8	2	6900
150	150	78	82	14-44	28	9.8	27	42	18	82.9	M10	0.73	0.82	155	2020	145	0.2	0.5	1.5	6900
		89						53			84	0.80	0.89	105	595	85	0.25	0.8	2	6900
200	200	83	90	16-47	31	10.8	29	43	20	90.8	M12	0.89	1.19	175	2500	145	0.2	0.5	1.5	6400
		94						54			125	0.95	1.27	120	460	82	0.25	0.8	2	6400
300	300	94	110	20-60	40	11.8	32.5	50	22	110	M12	1.37	2.74	502	6300	280	0.2	0.5	1.5	6000
		105						61			145	1.43	2.86	285	1400	145	0.25	0.8	2	6000
500	500	100	122	25-70	42	13.3	36	48	26	122	M12	1.81	4.45	690	7790	100	0.2	0.5	1.5	5000
		111						59			145	1.91	4.69	320	970	85	0.25	1	2	5000

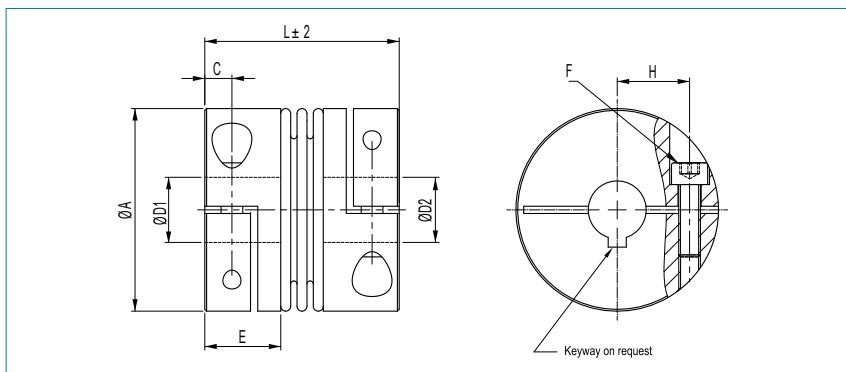


Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a #

Metal Bellows Coupling

with collet clamps

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4K / 400 - 75 - 44 - 40 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)							Technical Data								
		L	Ø A	D1/D2	H	C	E	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max speed (min-1)
		Length	Outer Ø	Bore Sizes (H7) min~max				Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
40	40	46	45	10-25.4	17	5.5	17.5	M5 8	0.07	0.04	35	3350	97	0.05	0.5	0.5	12800
80	80	55	56	12-32 30#	20	7.3	21	M6 15	0.26	0.14	53	6436	165	0.05	0.5	0.5	10300
200	200	60	66	16-35	23	8.6	23	M8 40	0.38	0.28	138*	12442	287	0.1	1	0.5	8700
400	400	75	82	32-44	28	9.8	27	M10 84	0.70	0.82	176	6815	338	0.1	1	0.5	6900
650	650	78	90	37-47	31	10.8	29	M12 125	0.89	1.19	230	7910	386	0.1	1.5	1	6400
1000	1000	89	110	42-60	40	11.8	32,5	M12 145	1.37	2.74	579	29096	756	0.1	1.5	1	6000
1500	1500	96	122	50-70	42	13.3	36	M12 145	1.81	4.45	693	20694	639	0.1	1.5	1	5000

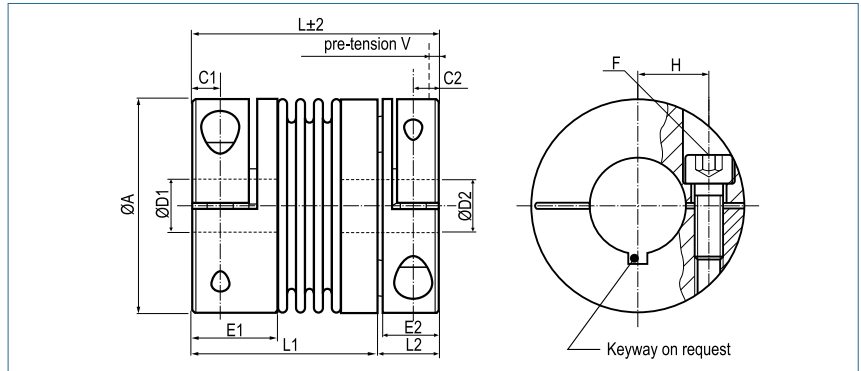
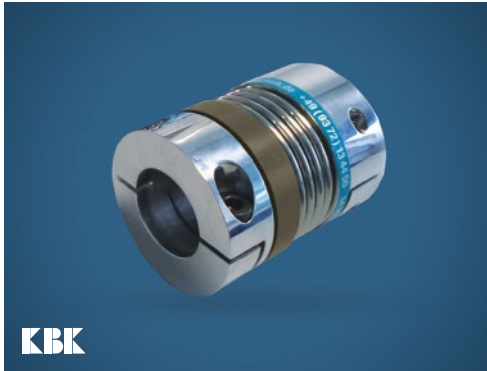


Material	bellows - stainless steel hub - aluminium
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C
Keyway	optional acc. DIN 6885 biggest bore marked with a # *2-convolution bellows

Metal Bellows Coupling

axial pluggable, with collet clamps

optional
laserwelded
optional full stainless
steel version

**Order Code****KB4P / 150 - 95 - 44 - 28 - D - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Plug System

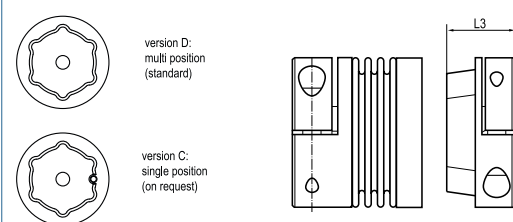
Options

Size	Torque TKN (Nm)	Dimensions (mm)										Technical Data								
		L	Ø A	D1/D2	H	C1	C2	E1	E2	B	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Sizes (H7) min-max							Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	62	45	10-24	17	5.5	5.5	17.5	12	47.4	M5	0.14	0.05	20	205	50	0.2	0.5	1.5	12800
		70									8	0.19	0.06	15	82	36	0.25	0.5	2	
30	30	73	56	10-30	20	7.5	7.3	24.5	17	56.4	M6	0.29	0.14	38	720	50	0.15	0.6	1.5	10300
		81									15	0.31	0.15	28	225	28	0.25	1.0	2	
60	60	85	66	12-35	23	10	8.6	29	21	66	M8	0.47	0.33	75	1150	90	0.15	0.6	1.5	8700
		95									40	0.57	0.36	50	340	50	0.25	1.0	2	
80	80	95	82	12-44	28	11	9.8	33.5	21.5	82.9	M10	0.81	0.89	128	1200	80	0.2	0.5	1.5	6900
		106									84	0.90	0.99	75	400	50	0.25	0.8	2	
150	150	95	82	14-44	28	11	9.8	33.5	21.5	82.9	M10	0.91	1.08	155	2020	145	0.2	0.5	1.5	6900
		106									84	1.00	1.18	105	595	85	0.25	0.8	2	
200	200	105	90	16-47	31	13	10.8	38	24	90.8	M12	1.16	1.47	175	2500	145	0.2	0.5	1.5	6400
		117									125	1.26	1.67	120	460	82	0.25	0.8	2	
300	300	114	110	20-60	40	13	10.8	38	27	110	M12	1.68	3.33	502	6300	280	0.2	0.5	1.5	6000
		125									145	1.78	3.53	285	1400	145	0.25	0.8	2	
500	500	136	122	25-70	42	15	13.3	42	42	122	M12	2.50	6.21	690	7790	100	0.2	0.5	1.5	5000
		147									145	2.60	6.41	320	970	85	0.25	1.0	2	



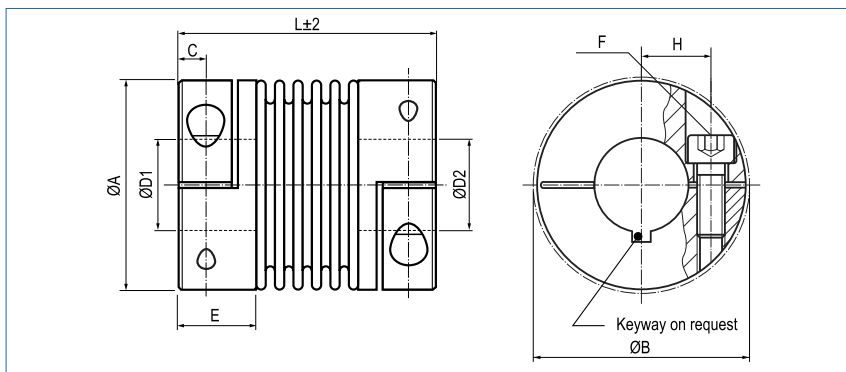
Material	bellows – stainless steel hub - high-tensile aluminium
Hub	bore tolerance: H7
Keyway	optional acc. DIN 6885
Temperature Range	-30 °C ~ 120 °C

Size	Dimensions (mm)			
	L1	L2	L3	V
18	48	14	22	0.5-1.0
	56			
30	54	19	31	0.5-1.0
	62			
60	62	23	35	0.5-1.5
	72			
80	71.5	23.5	37.5	0.5-1.5
	82.5			
150	71.5	23.5	37.5	0.5-1.5
	82.5			
200	79	26	42	0.5-1.5
	91			
300	85	29	47	0.5-1.5
	96			
500	92	44	66	0.5-2.0
	103			



Metal Bellows Coupling

with stainless steel collet clamps

optional
laserwelded**Order Code****KB4 / 60****-****89****-****12****-****32****-****VA/VAW**

Type / Size

Length
LØD1
(H7)ØD2
(H7)Stainless Steel
glued / laserwelded

Size	Torque TKN (Nm)	Dimensions (mm)								Technical Data								
		L	Ø A	D1/D2	H	C	E	B	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max speed min-1
		Length	Outer Ø	Bore Sizes (H7) min~max					Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	63	45	10-25.4	17	5.5	19.5	47.4	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
30	30	65	56	10-32	20	7.5	24.5	56.4	M6	0.83	0.41	38	720	50	0.15	0.6	1.5	10300
		73		#30					15	0.89	0.44	28	225	28	0.25	1	2	10300
60	60	79	66	12-35	23	10	29	66	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
80	80	91	82	14-44	28	11	33.5	82.9	M10	2.3	2	128	1200	80	0.2	0.5	1.5	6900
		102							84	2.4	2.1	75	400	50	0.25	0.8	2	6900
150	150	91	82	19-44	28	11	33.5	82.9	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	0.8	2	6900
200	200	101	90	22-47	31	13	38	90.8	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
300	300	105	110	30-60	40	13	38	110	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
500	500	112	122	35-70	42	15	42	122	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

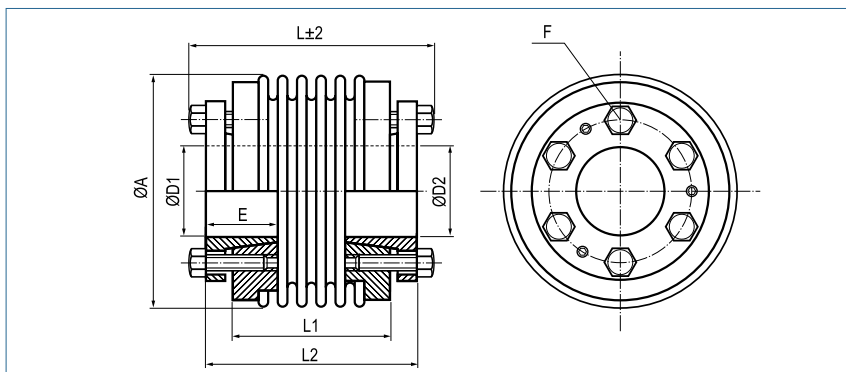
**Material**bellows - stainless steel
hub - stainless steel**Hub**

bore tolerance: H7

Temperature RangeVA -30 °C ~ 120 °C (glued)
VAW -30 °C ~ 250 °C (laserwelded)**Keyway**optional acc. DIN 6885
biggest bore marked with a #

Metal Bellows Coupling

with inner conical hubs

optional
laserwelded
optional full stainless
steel versionoptional chem.
nickel-plated**Order Code****KB5 / 60 - 73 - 20 - 25 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

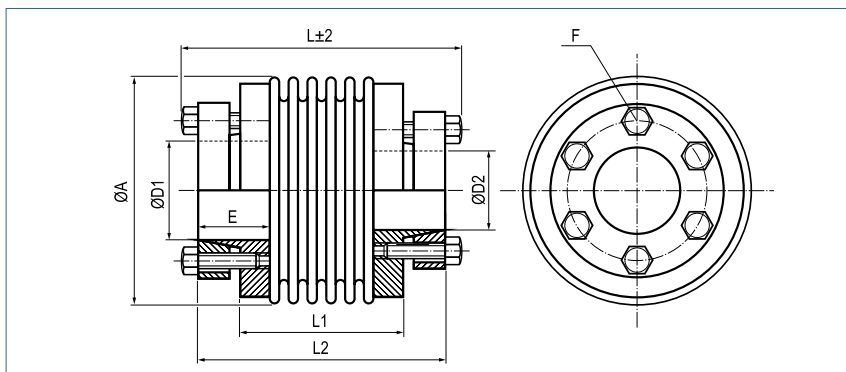
Size	Torque TKN (Nm)	Dimensions (mm)							Technical Data								
		L	Ø A	D1/D2	E	L1	L2	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length (±2)	Outer Ø	Bore Sizes (H7) min~max	Hub- length			Screw (ISO4017) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
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	
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	
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	
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	0,8	2	
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	0,8	2	
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	
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	
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	
800	800	170	157	50-70	60	110	150	6xM16 45	9.05	24.05	760	500	185	0.2	0.8	1.8	3700
1400	1400	170	157	50-70	60	110	150	6xM16 80	9.15	24.2	1270	700	275	0.2	0.8	1.8	3700
3000	3000	206	157	55-85	60	150	190	6xM12 85	9.43	25.7	2810	29450	1300	0.2	0.8	1.5	2800
5000	5000	206	208	60-90	80	146	186	6xM16 210	19.9	96.7	4810	4915	505	0.2	0.8	1.5	2800



Material	bellows – stainless steel hub - steel
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C

Metal Bellows Coupling

with outer conical hubs

optional
laserwelded
optional full stainless
steel versionoptional chem.
nickel-plated**Order Code****KB6 / 60 - 78 - 20 - 32 - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)							Technical Data								
		L	Ø A	D1/D2	E	L1	L2	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Sizes (H7) min-max	Hub- length			Screw (ISO4017) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
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	
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	
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	
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	0.8	2	
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	0.8	2	
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	
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	
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	
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
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
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
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
hub - steel

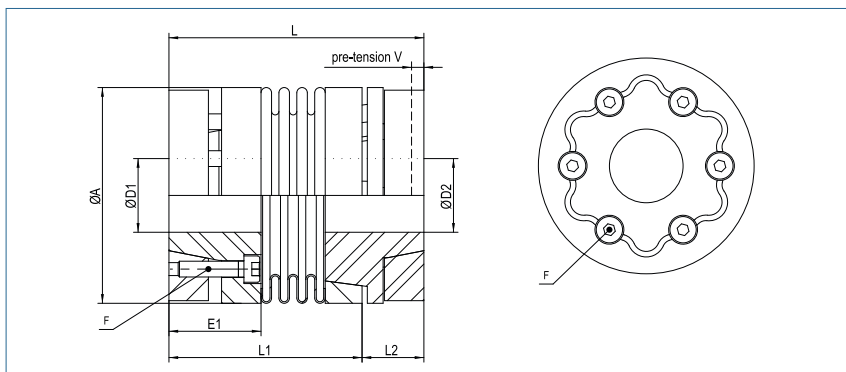
Hub bore tolerance: H7

Temperature Range -30 °C ~ 120 °C

Metal Bellows Coupling

axial pluggable, with outer conical hubs

optional
laserwelded
optional full stainless
steel version

**Order Code****KB6P / 60 - 79 - 20 - 15 - D - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(H7)

Plug System

Options

Size	Torque TKN (Nm)	Dimensions (mm)						Technical Data								
		L	Ø A	D1	D2	E1	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Size (H7) min-max	Bore Size (H7) min-max		Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	67	45	8-14	10-22	20.5	M4	0.4	0.1	20	205	50	0.2	0.5	1.5	12800
		75					4.3	0.45	0.11	15	82	36	0.25	0.5	2	
30	30	68	56	10-24	10-24	22	M5	0.48	0.16	38	720	50	0.15	0.6	1.5	10300
		76					6.5	0.5	0.18	28	225	28	0.25	1.0	2	
60	60	79	66	12-32	12-32	24	M5	0.88	0.38	75	1150	90	0.15	0.6	1.5	8700
		89					8	0.98	0.41	50	340	50	0.25	1.0	2	
150	150	97	82	15-40	15-40	35	M6	1.6	1.8	155	2020	145	0.2	0.5	1.5	6900
		108					12	1.69	1.85	105	595	85	0.25	0.8	2	
300	300	113	110	24-56	24-56	35	M8	2.28	4.05	502	6300	280	0.2	0.5	1.5	6000
		125					30	2.38	4.25	285	1400	145	0.25	0.8	2	
500	500	133	122	30-60	30-60	40	M8	3.8	7.55	690	7790	100	0.2	0.5	1.5	5000
		144					32	3.9	7.75	320	970	85	0.25	1.0	2	

**Material**

bellows - stainless steel
hubs - aluminium
outer conical hub - steel

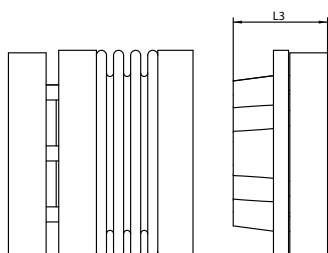
Hub

bore tolerance: H7

Temperature Range

-30 °C ~ 120 °C

Size	Dimensions (mm)			
	L1	L2	L3	V
18	52	15	22	0.5-1.0
	60			
30	51.5	16.5	31	0.5-1.0
	59.5			
60	57	22	35	0.5-1.5
	67			
150	73	24	37.5	0.5-1.5
	84			
300	82	31	48	0.5-1.5
	93			
500	90	43	64	0.5-2.0
	101			

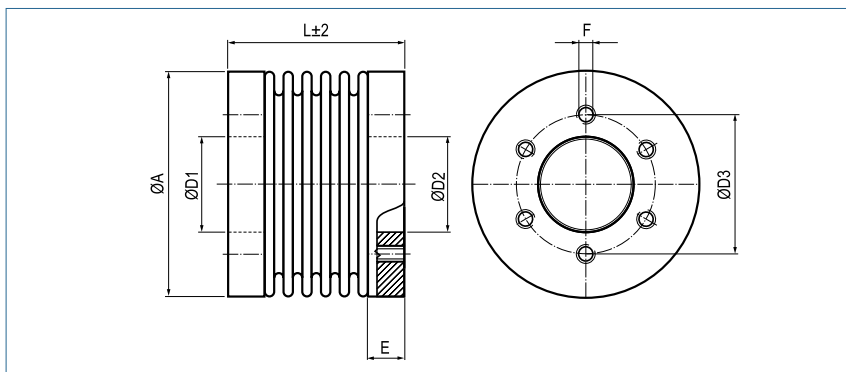
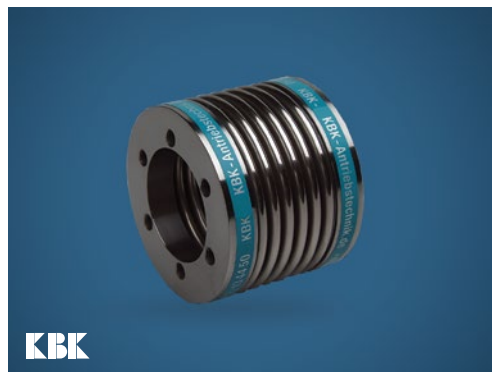
version D:
multi position
(standard)version C:
single position
(on request)

Metal Bellows Coupling

for flange mounting

optional
laserwelded
optional full stainless
steel version

optional chem.
nickel-plated

**Order Code****KB7 / 60 - 41 - 38 - (S)**

Type / Size

Length
LØD1/ØD2
(H7)

Options

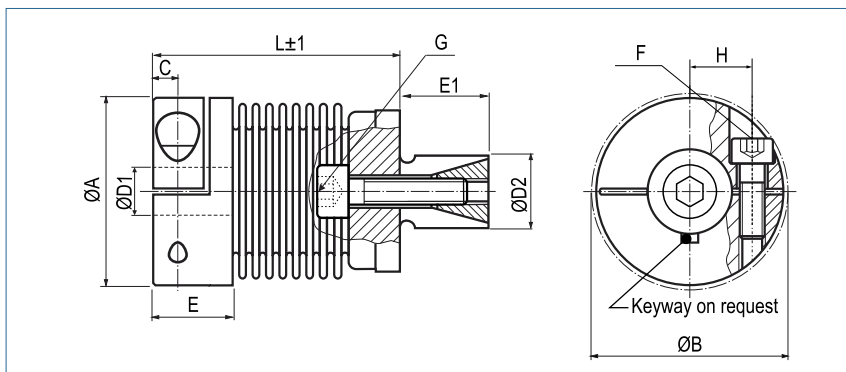
Size	Torque TKN (Nm)	Dimensions (mm)						Technical Data								
		L	Ø A	Ø D1/D2	Ø D3	E	F	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Sizes (H7) min~max			Thread 6x			torsional CT 10° (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
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	
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	
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	
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	
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	
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	
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	
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	
800	800	131	157	85	110	23	M16	3.55	15	760	500	185	0.2	0.8	1.8	3700
1400	1400	131	157	85	110	23	M16	3.55	15	1270	700	275	0.2	0.8	1.8	3700
3000	3000	131	157	85	110	23	M16	3.70	16	2810	2945	305	0.2	0.8	1.5	2800
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 hub - steel
Hub	bore tolerance: H7
Temperature Range	-30 °C ~ 120 °C

Metal Bellows Coupling

with expanding clamps

optional
laserwelded
optional full stainless
steel versionoptional chem.
nickel-plated**Order Code****KB8 / 30****-****53****-****15****-****20****-****S**

Type / Size

Length
LØD1
(H7)ØD2
(f7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)										Technical Data								
		L	Ø A	D1	D2	H	C	E	E1	B	F/G	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Size (H7) min~max	(f7) min~max						Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nmrad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	45	45	10-25.4	13-25	17	5.5	17.5	20	47.4	M5	0.14	0.04	20	205	50	0.2	0.5	1.5	12800
		52									8	0.15	0.05	15	82	35	0.25	0.5	2	12800
30	30	53	56	10-32	14-30	20	7.5	24.5	25	56.4	M6	0.30	0.15	38	720	50	0.15	0.6	1.5	10300
		61		#30							15	0.31	0.16	28	225	28	0.25	1.0	2	10300
60	60	62	66	12-35	23-38	23	10	29	27	66	M8	0.40	0.28	75	1150	90	0.15	0.6	1.5	8700
		72									40	0.42	0.31	50	340	50	0.25	1.0	2	8700
150	150	71	82	14-44	26-42	28	11	33.5	32	82.9	M10	0.80	0.90	155	2020	145	0.2	0.5	1.5	6900
		83									84	0.85	0.95	105	595	85	0.25	0.5	2	6900
300	300	84	110	20-60	38-60	39	13	38	45	110	M12	1.62	3.28	502	6300	280	0.2	0.5	1.5	6000
		98									145	1.66	3.37	285	1400	145	0.25	0.8	2	6000

**Material**bellows – stainless steel
collet clamps - aluminium
expanding clamps - steel**Hub and Hollow Shaft**

bore tolerance: H7

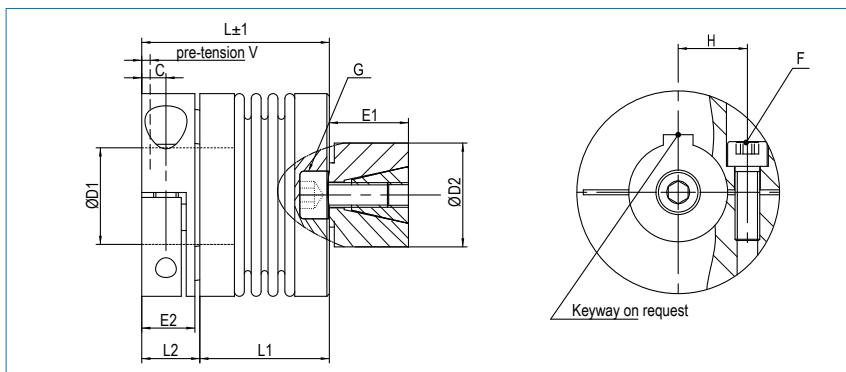
Keywayoptional acc. DIN 6885
biggest bore marked with a #**Temperature Range**

-30 °C ~ 120 °C

Metal Bellows Coupling

axial pluggable, with expanding clamps

optional
laserwelded
optional full stainless
steel version

**Order Code****KB8P / 60 - 78 - 15 - 30 - D - (S)**

Type / Size

Length
LØD1
(H7)ØD2
(f7)

Plug System

Options

Size	Torque TKN (Nm)	Dimensions (mm)									Technical Data								
		L	Ø A	D1	D2	H	C	E2	E1	F/G	Mass (kg)	Moment of Inertia J (g m²)	Spring Stiffness			Misalignment			max. speed (min-1)
		Length	Outer Ø	Bore Size (H7) min-max	(f7) min-max					Screw (ISO4762) TA (Nm)			torsional CT 10³ (Nm/rad)	radial CR (N/mm)	axial CA (N/mm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)	
18	18	52	45	10-24	13-25	17	5.5	12	20	M5	0.18	0.04	20	205	50	0.2	0.5	1.5	12800
		60								8	0.19	0.05	15	82	36	0.25	0.5	2	12800
30	30	59.5	56	10 32	14-30	20	7.3	17	25	M6	0.33	0.15	38	720	50	0.15	0.6	1.5	10300
		67.5		#30						15	0.34	0.16	28	225	28	0.25	1.0	2	10300
60	60	68	66	12-35	23-38	23	8.6	21	27	M8	0.49	0.28	75	1150	90	0.15	0.6	1.5	8700
		78								40	0.51	0.31	50	340	50	0.25	1.0	2	8700
150	150	75	82	14-44	26-42	28	9.8	21.5	32	M10	0.87	0.90	155	2020	145	0.2	0.5	1.5	6900
		87								84	0.92	0.95	105	595	85	0.25	0.8	2	6900
300	300	93	110	20-60	38-60	39	10.8	27	45	M12	1.87	3.28	502	6300	280	0.2	0.5	1.5	6000
		107								145	1.91	3.37	285	1400	145	0.25	0.8	2	6000

**Material**

bellows - stainless steel
collet clamps - aluminium
expanding clamps - steel

Hub

bore tolerance: H7

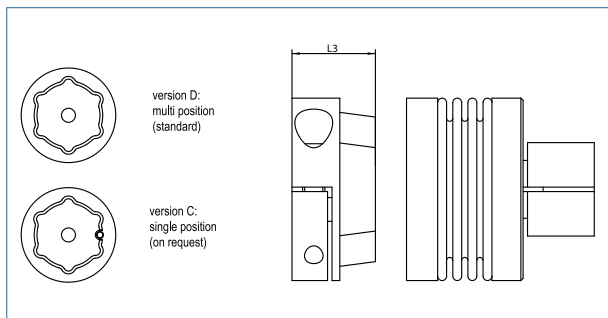
Temperature Range

-30 °C ~ 120 °C

Keyway

optional acc. DIN 6885
biggest bore marked with a #

Size	Dimensions (mm)			
	L1	L2	L3	V
18	33.5	14	22	0.5-1.0
	40.5			
30	40.5	19	31	0.5-1.0
	48.5			
60	45	23	35	0.5-1.5
	55			
150	51.5	23.5	37.5	0.5-1.5
	63.5			
300	64	29	47	0.5-1.5
	78			



SERVO INSERT COUPLINGS

KBE1 | 5 ~ 48

Servo Insert Coupling
with set screws



P. 32

KBE2 | 5 ~ 19

Servo Insert Coupling
with collet clamps



P. 33

KBE2 | 24 ~ 48

Servo Insert Coupling
with collet clamps



P. 34

KBE2C | 7 ~ 48

Servo Insert Coupling
with collet clamps, compact



P. 35

KBE2H | 14 ~ 48

Servo Insert Coupling
with split hubs



P. 36

KBE2HC | 14 ~ 48

Servo Insert Coupling
with split hubs



P. 37

KBE2D | 7 ~ 38

Servo Insert Coupling
doublecardanic with collet clamps



P. 38

KBE3 | 14 ~ 48

Servo Insert Coupling
with outer conical hubs



P. 39

KBE3C | 14 ~ 48

Servo Insert Coupling
with outer conical hubs, compact



P. 40

KBE4 | 14 ~ 38

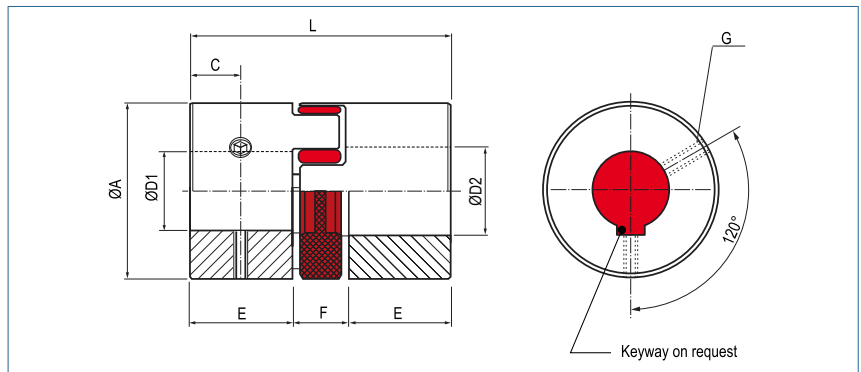
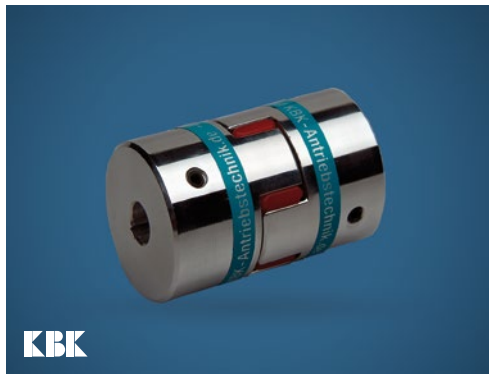
Servo Insert Coupling
with expanding clamps



P. 41

Servo Insert Coupling

with set screws

optional full
stainless steel
version

Order Code

KBE1 - 14 - 10 - 12 - 98Sh

Type

Size

ØD1
(H7)ØD2
(H1)Shore-
hardness

Size	Dimensions (mm)							Technical Data			
	Ø A Outer Ø	L Length	Ø D1-D2 Bore Sizes (H7) min-max	E	F	C	F Screw (ISO4029) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m²)	Torque (Nm)
5	10	15	2 - 6	5	5	2.5	1 x M3 0.5	47500	2.62	0.0000216	0.5
7	14	22	4 - 7	7	8	3.5	2 x M3 1.3	34000	6.5	0.00018	1.2
9	20	30	6 - 9	10	10	5	2 x M3 1.3	24000	22	0.00105	3
14	30	35	6 - 16	11	13	5	1 x M4 3	16000	45	0.006	12.5
19	40	66	10 - 24	25	16	10	1 x M5 6	12000	187	0.040	17
24	55	78	16 - 28	30	18	10	1 x M5 6	8500	420	0.171	60
28	65	90	20 - 38	35	20	15	1 x M6 11	7200	577	0.368	160
38	80	114	20 - 45	45	24	15	1 x M8 25	6000	1200	1125	325
42	95	126	20 - 55	50	26	20	1 x M8 25	4800	1850	16103	450
48	105	140	20 - 60	56	28	20	1 x M8 25	4300	2562	4124	525



Material

hub - aluminium

spider element - polyurethane

Hub

bore tolerance: H7

Keyway

optional acc. DIN 6885

Shore-hardness

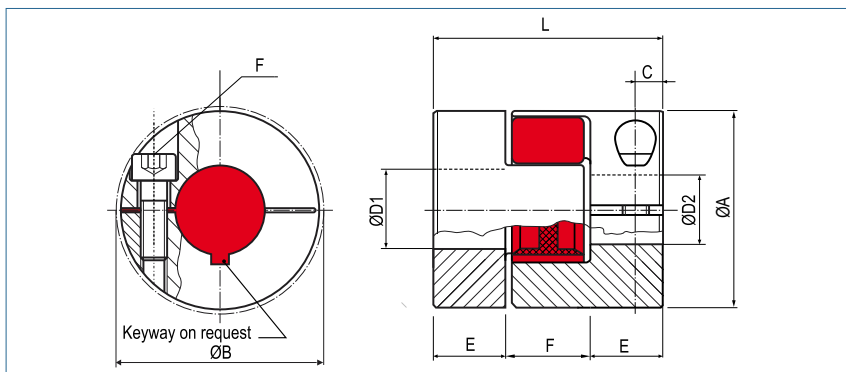
to size 9: 92 Sh A (yellow)

from size 14: 98 Sh A (red)

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

with collet clamps

optional full
stainless steel
version

Order Code

KBE2 - 14 - 10 - 12 - 98Sh

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)								Technical Data			
	ØA	L	Ø D1-D2	E	F	C	B	F	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m ²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min-max					Screw (ISO4762) TA (Nm)				
5	10	15	2 - 5	5	5	2.5	11.4	M1.6 0.25	38000	2.52	0.000036	0.5
7	14	22	4 - 7	7	8	3.5	15	M2 0.43	27000	7	0.000195	1.2
9	20	30	4 - 11	10	10	5	23.4	M2.5 0.85	19000	18.52	0.00107	3
14	30	35	4 - 16	11	13	5	32.2	M3 2	13000	59	0.00381	12.5
19	40	66	10 - 22/24*	25	16	12	47	M6 15	10000	183	0.0404	17

Transmittable torque (Nm) depending on shaft diameter (mm)																					
Size	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5	06	0.6	0.7	0.8																	
7			1.3	1.4	1.5	1.6															
9			2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.2											
14			7.7	8.0	8.3	8.6	8.9	9.2	9.4	9.7	10	10.3	10.6	10.9	11.2						
19									44	45	47	48	49	50	51	52	54	55	56	57	58



Material

hub - aluminium

Hub

spider element - polyurethane

bore tolerance: H7

Keyway

optional acc. DIN 6885

Shore-hardness

bis size 9: 92 Sh A (yellow)

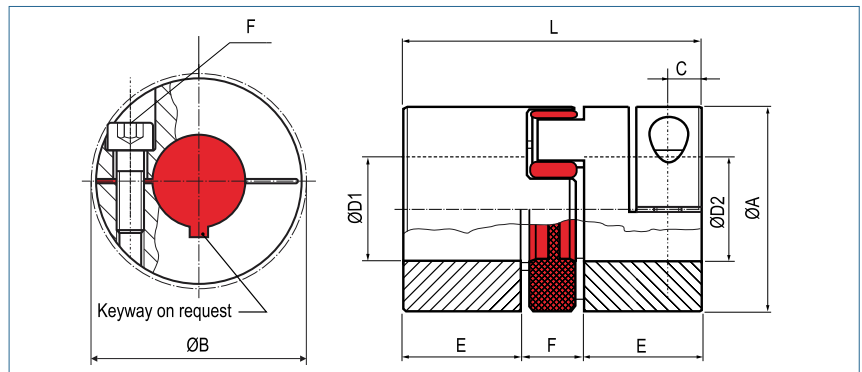
ab size 14: 98 Sh A (red)

* Hubs for bores > 22H7 to 24H7 will be supplied with 2 x M4 screws.

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

with collet clamps

optional full
stainless steel
version

Order Code

KBE2 - 38 - 20 - 40 - 98Sh

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)								Technical Data			
	ØA	L	Ø D1-D2	E	F	C	B	F	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min-max					Screw (ISO4762) TA (Nm)				
24	55	78	15 - 32	30	18	12	56.4	M6 15	7000	394	0.175	60
28	65	90	19 - 37	35	20	15	72.6	M8 40	6000	624	0.377	160
38	80	114	20 - 48	45	24	20	83.3	M8 40	5000	1230	1.139	325
42	95	126	25 - 50	50	26	20	95	M10 84	4000	1960	2.505	450
48	105	140	25 - 57	56	28	22	105	M12 145	3750	2690	4.175	525

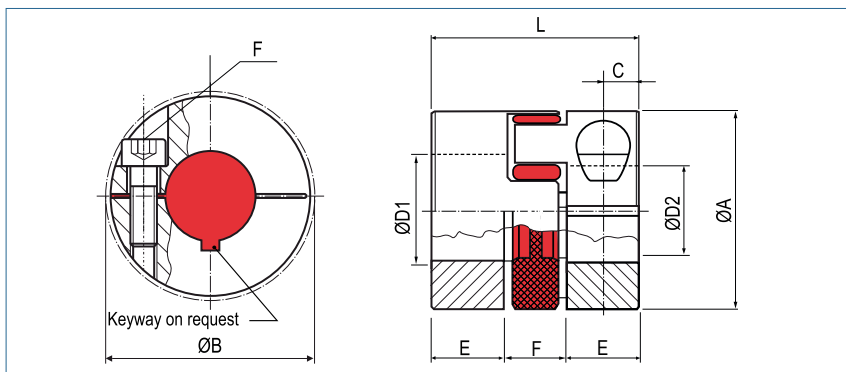
Transmittable torque (Nm) depending on shaft diameter (mm)																												
Size	15	16	19	20	22	24	25	28	30	32	35	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
24	64	65	69	70	72	74	76	79	81	84																		
28			114	116	119	123	124	130	133	137	142																	
38				135	138	142	144	149	152	156	161	166	168	169	171	173	175	176	178									
42							294	304	310	317	327	337	340	343	347	350	353	357	360	363	367	370	373	376				
48							476	491	500	510	524	539	544	548	553	558	563	568	572	577	582	587	592	596	601	606	611	616



Material	hub - aluminium spider element - polyurethane
Hub	bore tolerance: H7
Keyway	optional acc. DIN 6885
Shore-hardness	98 Sh A (red)
Further spider elements and technical data are available on page 42.	

Servo Insert Coupling

with collet clamps, compact

optional full
stainless steel
version

Order Code

KBE2C**- 38****- 20****- 40****- 98Sh**

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)								Technical Data			
	Ø A Outer Ø	L Length	Ø D1-D2 Bore Sizes (H7) min-max	E	F	C	B	G Screw (ISO4762) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling)	Torque (Nm)
7	14	18	3 - 7	5	8	2.5	16.6	M2 0.43	27000	6	0.00018	1.2
9	20	24	4 - 11	7	10	3.5	21.3	M2.5 0.85	19000	15	0.00085	3
14	30	32	4 - 16	9.5	13	5	30.5	M4 4.5	13000	45	0.0166	12.5
19	40	50	8 - 21	17	16	8.5	45.7	M6 15	10000	139	0.0311	17
24	55	58	10 - 32	20	18	10	56.4	M6 15	7000	271	0.119	60
28	65	62	14 - 37	21	20	11	72.6	M8 40	6000	429	0.254	160
38	80	86	15 - 48	31	24	15	83.3	M10 84	5000	888	0.828	325
42	95	94	20 - 50	34	26	17.5	97.6	M12 145	4000	1425	1.866	450
48	105	110	20 - 57	47.5	28	23	105	M12 145	3750	2019	3.221	525

Transmittable torque (Nm) depending on shaft diameter (mm)

Size	3	4	6	8	10	12	14	15	16	18	19	20	24	25	28	30	32	35	38	40	42	45	48	50	55
7	1.2	1.3	1.5																						
9		2.3	2.5	2.8	3.0																				
14			14	14.7	15.7	16.7	17.7	18.3	18.8																
19				42	44	47	49	50	51	54	55	56													
24					58	61	63	64	65	67	69	70	74	76	79	81	84								
28							105	107	109	112	114	116	123	124	130	133	137	142	147						
38								241	244	251	254	258	271	274	284	291	297	307	317	324	330	340	350		
42													452	457	471	481	491	505	519	529	539	553	568	577	
48													471	476	491	500	510	524	539	548	558	572	587	596	620



Material

hub - aluminium

spider element - polyurethane

Hub

bore tolerance: H7

Keyway

optional acc. DIN 6885

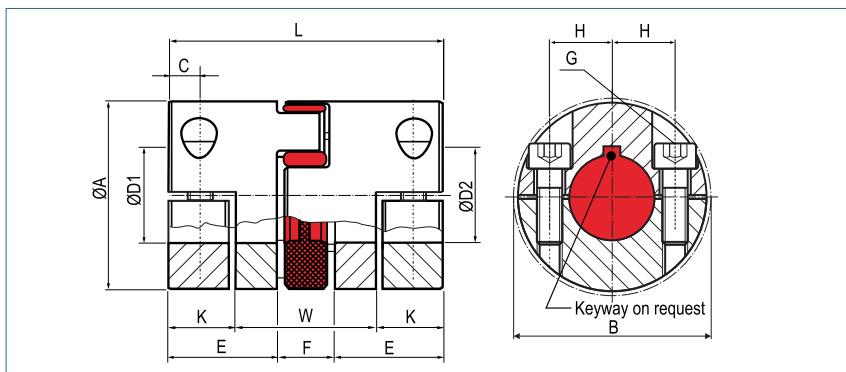
Shore-hardness

98 Sh A (red)

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

with split hubs

optional full
stainless steel
version

Order Code

KBE2H - 19 - 10 - 12 - 98Sh

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)										Technical Data				
	Ø A	L	Ø D1/D2	E	W	F	C	B	H	K	G Screw (ISO4762) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min~max												
14	30	35	4 - 16	11	19	13	5.0	35	10.5	8	M4 5	13000	50	0,007	12.5
19	40	66	8 - 21	25	27	16	8.0	46	14.5	19.5	M6 15	10000	182	0,042	17
24	55	78	10 - 32	30	34	18	10.5	57.5	20	22.0	M6 15	7000	391	0,171	60
28	65	90	14 - 37	35	40	20	11.5	73	25	25.0	M8 40	6000	643	0,402	160
38	80	114	18 - 48	45	48	24	15.5	83.5	30	33.0	M8 40	5000	1167	1,096	325
42	95	126	22 - 50	50	53	26	18.0	93.5	32	36.5	M10 84	4000	1943	2,522	450
48	105	140	22 - 57	56	61	28	18.5	105	36	39.5	M12 145	3750	2592	4,076	525

Transmittable torque (Nm) depending on shaft diameter (mm)																											
Size	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	10.3	15.5	20.7	25.8	28.4	36.1	38.7	41.3																			
19			47	59	65	83	89	95	107	113	119																
24				59	65	83	89	95	107	113	119	130	142	148	166	178	190										
28						123	132	141	159	167	176	194	211	220	247	264	282	308									
38									159	167	176	194	211	220	247	264	282	308	335	352	370	396	405	423			
42												370	404	420	471	505	538	589	639	673	706	757	774	807	841		
48												539	588	612	686	735	784	857	931	980	1029	1102	1127	1176	1225	1347	



Material

hub - aluminium

spider element - polyurethane

Hub

bore tolerance: H7

Keyway

optional acc. DIN 6885

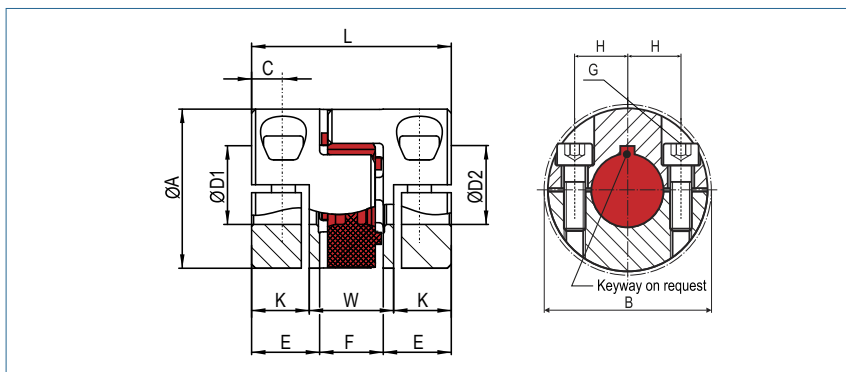
Shore-hardness

98 Sh A (red)

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

with split hubs

optional full
stainless steel
version

Order Code

KBE2HC - 19 - 10 - 12 - 98Sh

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)											Technical Data			
	Ø A	L	Ø D1/D2	E	W	F	K	C	B	H	G	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min-max								Screw (ISO4762) TA (Nm)				
14	30	32	4 - 16	9.5	16.4	13	7.8	4,5	35	10.5	M4 4.5	13000	47	0.006	12.5
19	40	50	8 - 21	17	21	16	14.5	8.0	46	14.5	M6 15	10000	79	0.019	17
24	55	58	10 - 32	20	26	18	16	8	57.5	20	M6 15	7000	280	0.121	60
28	65	62	14 - 37	21	28	20	17	9	73	25	M8 40	6000	421	0.266	160
38	80	86	18 - 48	31	38	24	24	12	83.5	30	M8 40	5000	840	0.790	325
42	95	94	22 - 50	34.5	44	25	25	12,5	93.5	32	M10 84	4000	1416	1.832	450
48	105	110	22 - 57	41	50	28	30	14	105	36	M12 145	3750	1956	3.101	525

Transmittable torque (Nm) depending on shaft diameter (mm)																											
Size	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	10.3	15.5	20.7	25.8	28.4	36.1	38.7	41.3																			
19			47	59	65	83	89	95	107	113	119																
24				59	65	83	89	95	107	113	119	130	142	148	166	178	190										
28						123	132	141	159	167	176	194	211	220	247	264	282	308	335								
38									159	167	176	194	211	220	247	264	282	308	335	352	370	396	405	423			
42												370	404	420	471	505	538	589	639	673	706	757	774	807	841		
48												539	588	612	686	735	784	857	931	980	1029	1102	1127	1176	1225	1347	



Material

hub - aluminium

spider element - polyurethane

Hub

bore tolerance: H7

Keyway

optional acc. DIN 6885

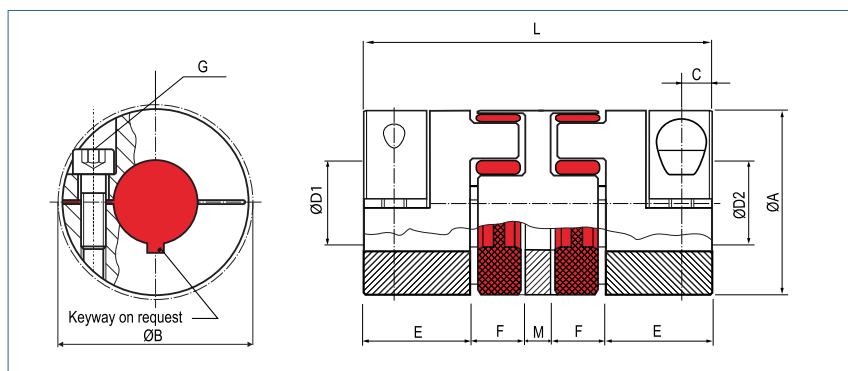
Shore-hardness

98 Sh A (red)

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

doublecardanic with collet clamps

optional full
stainless steel
version

Order Code

KBE2D - 14 - 10 - 12 - 98Sh

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)									Technical Data			
	ØA	L	Ø D1-D2	E	F	C	B	G	M	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m ²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min~max					Screw (ISO4762) TA (Nm)					
7	14	34	4 - 7	7	8	3.5	15	M2 0.43	4	27000	5	0002	1.2
9	20	45	4 - 11	10	10	5	23.4	M2.5 0.85	5	19000	32	0.002	3
14	30	56	4 - 16	11	13	5	32.2	M3 2	8	13000	77	0.010	12.5
19	40	92	10 - 22/24*	25	16	12	45.7	M6 15	10	10000	232	0.056	17
24	55	112	15 - 32	30	18	14	56.6	M6 15	16	7000	534	0.188	60
28	65	128	19 - 37	35	20	15	70.2	M8 40	18	6000	844	0.507	160
38	80	158	20 - 48	45	24	20	82.5	M8 40	20	5000	1580	1.489	325

Transmittable torque (Nm) depending on shaft diameter (mm)																									
Size	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
7	1.3	1.4	1.5	1.6																					
9	2.3	2.4	2.5	2.7	2.8	2.9	3.0	3.2																	
14	7.7	8.0	8.3	8.6	8.9	9.2	9.4	9.7	10	10.6	10.9	11.2													
19							44	45	47	49	50	51	55	56	58										
24											64	65	69	70	72	74	76	79	81	84					
28													114	116	119	123	124	130	133	137	142				
38														135	138	142	144	149	152	156	161	166	169	173	178



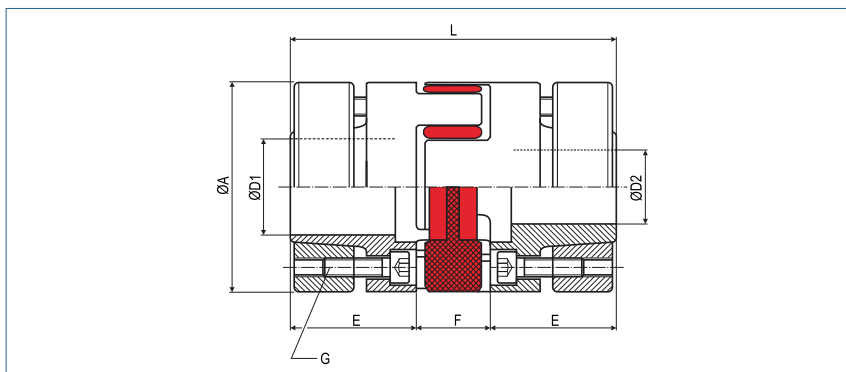
Material	hub - aluminium spider element - polyurethane
Hub	bore tolerance: H7
Keyway	optional acc. DIN 6885
Shore-hardness	to size 9: 92 Sh A (yellow) from size 14: 98 Sh A (red)

* Hubs for bores > 22H7 to 24H7 will be supplied with 2 x M4 screws.
Further spider elements and technical rates are available on page 42.

Servo Insert Coupling

with outer conical hubs

optional full
stainless steel
version



Order Code

KBE3 - 48 - 40 - 35 - 98Sh

Type

Size

ØD1
(H7)

ØD2
(H7)

Shore-
hardness

Size	Dimensions (mm)						Technical Data			
	Ø A	L	Ø D1-D2	E	F	G	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min~max			Screw (ISO4762) TA (Nm)				
14	30	50	6 - 14	18.5	13	M3 1.34	25000	105	0.014	12.5
19	40	66	10 - 20	25	16	M4 2.9	19000	277	0.066	17
24	55	78	15 - 28	30	18	M5 6	14000	612	0.282	60
28	65	90	19 - 38	35	20	M5 6	12000	937	0.650	160
38	80	114	20 - 45	45	24	M6 10	10000	1961	2.005	325
42	95	126	28 - 50	50	26	M8 35	8000	3069	4.322	450
48	105	140	35 - 60	56	28	M8 35	7000	3855	6.851	525

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



Material

hub - aluminium
outer conical hub - Steel
spider element - polyurethane

Hub

bore tolerance: H7

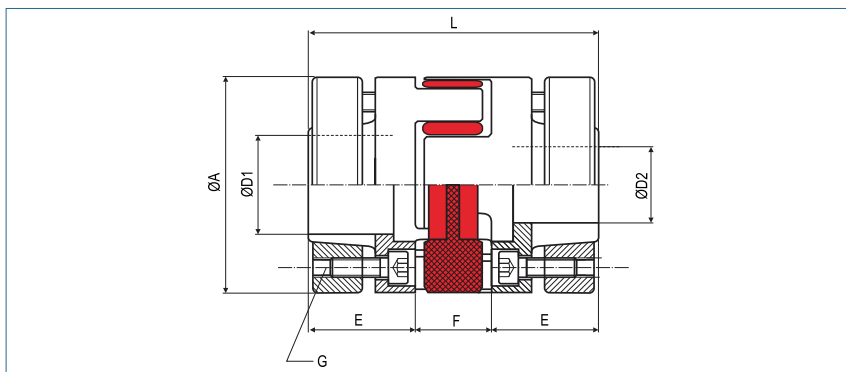
Shore-hardness

98 Sh A (red)

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

with outer conical hubs, compact

optional full
stainless steel
version**Order Code****KBE3C - 48 - 40 - 35 - 98Sh**

Type

Size

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)						Technical Data			
	Ø A	L	Ø D1-D2	E	F	G	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m ²)	Torque (Nm)
	Outer Ø	Length	Bore Sizes (H7) min-max			Screw (ISO4762) TA (Nm)				
14	30	42	6 - 14	14.5	13	M3 1.34	25000	91	0.012	12.5
19	40	56	10 - 20	20	16	M4 3	19000	252	0.063	17
24	55	64	14 - 28	23	18	M5 6	14000	492	0.236	60
28	65	76	19 - 38	28	20	M5 6	12000	776	0.535	160
38	80	96	20 - 45	36	24	M6 10	10000	1639	1.686	325
42	95	103	28 - 50	38.5	26	M8 35	8000	2612	3.621	450
48	105	110	30 - 55	41	28	M8 35	7000	3105	5.465	525

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

**Material**

hub - aluminium

outer conical hub - steel

spider element - polyurethane

Hub

bore tolerance: H7

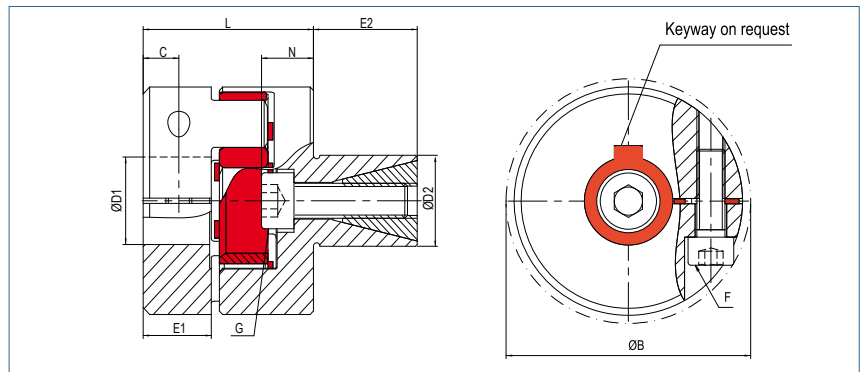
Shore-hardness

98 Sh A (red)

Further spider elements and technical data are available on page 42.

Servo Insert Coupling

with expanding clamps

optional full
stainless steel
version

Order Code

KBE4 - 38 - 40 - 35 - 98Sh

Type

Size

ØD1
(H7)ØD2
(h7)Shore-
hardness

Size	Dimensions (mm)											Technical Data			
	ØA Outer Ø	L	Ø D1 Bore Size (H7) min~max	Ø D2 (h7) min~max	E1	E2	N	C	B	F Screw (ISO4762) TA (Nm)	G Screw (ISO4762) TA (Nm)	max. speed upm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m²)	Torque (Nm)
14	30	28	4 - 16	13 - 25	11	20	7	5	32.2	M3 2	M5 9	20000	98	0.010	12.5
19	40	40	10 - 22/24*	14 - 30	17	25	10	9	45.7	M6 15	M6 15	19000	240	0.042	17
24	55	46	12 - 32	23 - 36	20	27	11	10	56.4	M6 15	M8 40	14000	463	0.158	60
28	65	51	19 - 37	26 - 42	21	32	16	11	72.6	M8 40	M10 84	11500	799	0.375	160
38	80	68	20 - 48	38 - 60	31	45	20	15	83.3	M8 40	M12 145	9500	1754	1.213	325

Transmittable torque (Nm) depending on shaft diameter (mm)																							
Size	4	6	8	9	10	11	12	14	15	16	18	19	20	24	25	28	30	32	35	38	40	42	45
14	7.7	8.3	8.9	9.2	9.4	9.7	10	10.6	10.9	11.2													
19					44	45	47	49	50	51	54	55	56										
24							61	63	64	65	67	69	70	74	76	79	81	84					
28												114	116	123	124	130	133	137	142				
38													135	142	144	149	152	156	161	166	169	173	178

**Material**

hub - aluminium
expanding clamps - steel
spider element - polyurethane

Hub

bore tolerance: H7

Keyway

optional acc. DIN 6885

Shore-hardness

98 Sh A (red)

* Hubs for bores > 22H7 to 24H7 will be supplied with 2 x M4 screws.

Further spider elements and technical data are available on page 42.

Spider Elements for Couplings Type KBE

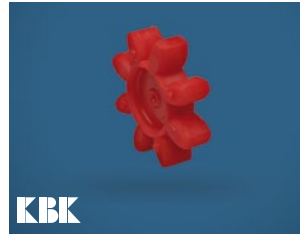
Type KBE series



80 ShoreA
operating temperature:
-50 to +80
peak temperature: -60 to +120



92 ShoreA
operating temperature:
-30 to +90
peak temperature: -50 bis +120



98 ShoreA
operating temperature:
- 30 to +90
peak temperature: -40 bis +120



64 ShoreD
operating temperature:
-20 to +110
peak temperature: -30 bis +120

Size	Hardness	Torque [Nm]		Torsional Stiffness Static [Nm/rad]	Torsional Stiffness Dynamic [Nm/rad]	Spring Stiffness radial [N/mm]	Misalignment			max. Bore [mm]
		TK nom.	TK max				axial [mm]	radial [mm]	angular [Grad]	
5	92 ShA	0.5	0.6	5.16	16	154	+0.4 / -0.2	0.06	1.0°	3
7	80 ShA	0.7	1.4	8.6	26	114	+0.6 / -0.3	0.15	1.1°	3
	92 ShA	1.2	2.4	14.3	43	219	+0.6 / -0.3	0.10	1.0°	
	98 ShA	2	4	22.9	69	421	+0.6 / -0.3	0.10	1.0°	
	64 ShD	2.4	4.8	34.3	103	630	+0.6 / -0.3	0.04	0.8°	
9	80 ShA	1.8	3.6	17.2	52	125	+0.8 / -0.4	0.2	1.1°	7
	92 ShA	3	6	31.5	95	262	+0.8 / -0.4	0.15	1.0°	
	98 ShA	5	10	51.6	155	518	+0.8 / -0.4	0.1	0.9°	
	64 ShD	6	12	74.6	224	739	+0.8 / -0.4	0.05	0.8°	
12	80 ShA	3	6	84.3	252	274	+0.9 / -0.4	0.20	1.1°	8
	92 ShA	5	10	160.4	482	470	+0.9 / -0.4	0.14	1.0°	
	98 ShA	9	18	240.7	718	846	+0.9 / -0.4	0.08	0.9°	
	64 ShD	12	24	327.9	982	1198	+0.9 / -0.4	0.05	0.8°	
14	80 ShA	4	8	60.2	180	153	+1.0 / -0.5	0.21	1.1°	10
	92 ShA	7.5	15	114.6	344	336	+1.0 / -0.5	0.15	1.0°	
	98 ShA	12.5	25	171.9	513	654	+1.0 / -0.5	0.09	0.9°	
	64 ShD	16	32	234.2	702	856	+1.0 / -0.5	0.06	0.8°	
19	80 ShA	6	12	618	1065	582	+1.2 / -0.5	0.15	1.1°	18
	92 ShA	12	24	1090	1815	1120	+1.2 / -0.5	0.10	1.0°	
	98 ShA	21	42	1512	2540	2010	+1.2 / -0.5	0.06	0.9°	
	64 ShD	26	52	2560	3810	2930	+1.2 / -0.5	0.04	0.8°	
24	80 ShA	17	34	860	1390	840	+1.4 / -0.5	0.2	1.0°	27
	92 ShA	35	70	2300	5130	1900	+1.4 / -0.5	0.15	1.0°	
	98 ShA	60	120	3700	8130	2940	+1.4 / -0.5	0.11	0.9°	
	64 ShD	75	150	5030	11500	4200	+1.4 / -0.5	0.08	0.8°	
28	80 ShA	46	92	1370	2350	990	+1.5 / -0.7	0.2	1.3°	30
	92 ShA	95	190	4080	6745	1780	+1.5 / -0.7	0.15	1.0°	
	98 ShA	160	320	6410	9920	3200	+1.5 / -0.7	0.11	0.9°	
	64 ShD	200	400	10260	20177	4348	+1.5 / -0.7	0.08	0.8°	
38	92 ShA	190	380	6525	12000	2350	+ 1.8 / -0.7	0.17	1.0°	38
	98 ShA	325	650	11800	21850	4400	+1.8 / -0.7	0.12	0.9°	
	64 ShD	405	810	26300	40335	6474	+1.8 / -0.7	0.09	0.8°	
42	92 ShA	265	530	10870	20500	4100	+ 2.0 / -1.0	0.19	1.0°	46
	98 ShA	450	900	21594	37692	5940	+2.0 / -1.0	0.14	0.9°	
	64 ShD	560	1120	36860	71400	7590	+2.0 / -1.0	0.10	0.8°	
48	92 ShA	310	620	12968	22800	4500	+2.1 / -1.0	0.23	1.0°	51
	98 ShA	525	1050	25759	49400	6820	+2.1 / -1.0	0.16	0.9°	
	64 ShD	655	1310	57630	102800	9000	+ 2.1 / -1.0	0.11	0.8°	

CARDAN COUPLINGS

KBGK | 18 ~ 100

Linear Coupling
with threads



P. 44

KBGK-T | 18 ~ 100

Cardan Coupling
with collet clamps



P. 45

LINE SHAFTS

DRE | 14 ~ 48

Line Shaft
split hubs and servo inserts



P. 46

DRB | 4.5 ~ 500

Line Shaft
with split hubs and metal bellows



P. 47

RIGID SHAFT COUPLINGS

KBST

Rigid Shaft Coupling
single slit



P. 48

KBST - VA

Rigid Shaft Coupling
single slit, in stainless steel



P. 49

KBST - G

Rigid Shaft Coupling
split



P. 50

KBST - G - VA

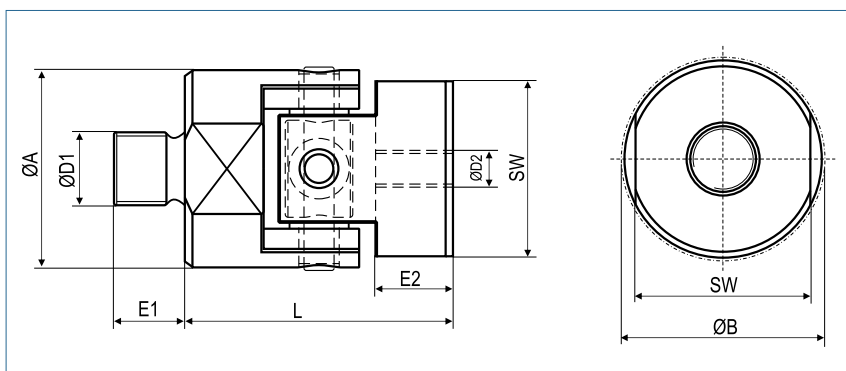
Rigid Shaft Coupling
split, in stainless steel



P. 51

Cardan Coupling

Linear Coupling with threads

optional full
stainless steel**Order Code****KBGK / 27 - M5 - M6**

Type / Size

Thread
Ø D1Thread
Ø D2

Size	axial force F_{KA} (N)	Dimensions (mm)					Technical Data					
		L	Ø A	SW	E2	B	Mass (kg)	Moment of Inertia J (kg mm ²)	Spring Stiffness axial CA (N/mm)	Misalignment		max. speed rpm
		Length	Outer Ø	wrench Size	max. thread depth					radial ΔKr (mm)	angular ΔKw (°)	
18	200	24	18	16	5.5	19	0.013	0.52	8500	1	6	10000
27	800	36	27	24	10.5	30	0.046	4.25	14800	1	6	7500
35	1000	37	35	32	11	39	0.082	12.37	19000	1.5	6	6000
56	4000	60	56	50	15	61	0.31	121	33000	2	6	3750
75	7500	75	74.5	65	25	80	0.87	594	42800	2	6	2850
100	13000	78	100	90	27	106	1.83	2194	62000	2.5	6	2100

Size	Hub Style	Thread Size (transmittable axial force in N)													
		M3	M4	M5	M6	M8	M10	M12	M16	M20	M24	M30	M36	M42	M48
18	Thread D1	510	670	857	1017	1380									
	Thread Length E1	5	6	8	8	10									
	Thread D2	634	1105	1788	2531	4631									
27	Thread D1		670	857	1017	1380	1740								
	Thread Length E1		6	8	8	10	12								
	Thread D2	634	1105	1788	2531	4631	7313								
35	Thread D1					1380	1740	1970	2710						
	Thread Length E1					10	12	15	20						
	Thread D2			1788	2531	4631	7313	10603	9800						
56	Thread D1							1970	2710	3386	4064	5142			
	Thread Length E1							15	20	25	30	36			
	Thread D2					4631	7313	10603	9800	15400	22140	35344			
75	Thread D1									3386	4064	5142	6218		
	Thread Length E1									25	30	36	40		
	Thread D2						7313	10603	9800	15400	22140	35344	51390		
100	Thread D1											5142	6218	7296	8374
	Thread Length E1											36	40	48	55
	Thread D2							10603	9800	15400	22140	35344	51390	70484	92625

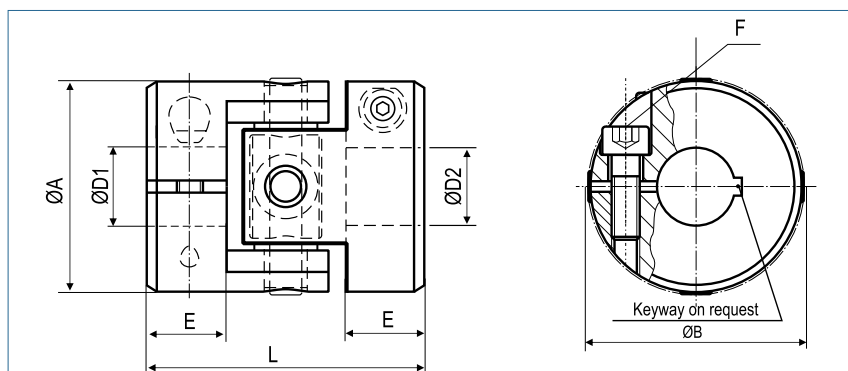
**Material**

inner ring - aluminium
hub - aluminium
pin - steel

Temperature Range -100 °C ~ 250 °C

Cardan Coupling

with collet clamps

optional full
stainless steel**Order Code****KBGK-T / 27 - 6 - 10**

Type / Size

ØD1
(H7)ØD2
(H/)

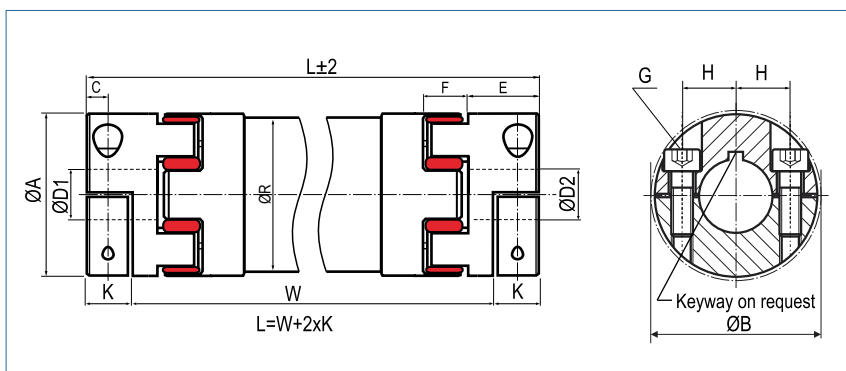
Size	Torque T_{KN} (Nm)	Torque T_{kmax} (Nm)	Dimensions (mm)						Technical Data					
			L Length	Ø A Outer Ø	D1/D2 Bore Sizes (H7)	B	E Hub- Length	F Screw (ISO 4762) TA (Nm)	Mass (kg)	Moment of Inertia J (kg mm ²)	Torsional Stiffness CT (Nm/rad)	Misalignment		max. speed rpm
18	2	3	24	18	3-10	19	5.5	M2 0.54	0.011	0.526	458	0.6	6	10000
27	5	10	36	27	4-14	30	10.5	M3 1.9	0.040	4.30	802	1	6	7500
35	10	18	37	35	5-20	39	11	M4 4.6	0.069	12.19	1701	1.5	6	6000
56	35	100	53	56	8-32	61	15	M6 15.7	0.278	124	20630	2	6	3750
75	100	250	83	74.5	10-41	80	25	M8 38	0.76	609	51575	2	6	2850
100	250	580	97	100	20-55	106	27	M12 130	1.60	2246	85943	2.5	6	2100

18	Bore Size	3	4	5	6	7	8	9	10			
	Torque (Nm)	1.9	2	2.2	2.3	2.4	2.5	2.6	2.8			
27	Bore Size	4	5	6	7	8	9	10	11	12	13	14
	Torque (Nm)	6.9	7.2	7.4	7.7	8	8.3	8.6	8.9	9.2	9.4	9.7
35	Bore Size	5	6	7	8	9	10	12	14	16	18	20
	Torque (Nm)	16	16.4	16.9	17.4	18	18.5	19.5	20.5	21.6	22.6	23.6
56	Bore Size	8	10	12	14	16	18	20	22	24	28	32
	Torque (Nm)	57	59	61	64	66	69	72	73	76	80	85
75	Bore Size	10	12	14	16	18	20	24	28	32	36	40
	Torque (Nm)	143	147	151	156	160	164	173	181	190	199	207
100	Bore Size	20	22	24	26	28	30	35	40	45	50	55
	Torque (Nm)	475	485	495	505	515	525	550	575	600	625	650

**Material**inner ring - aluminium
hub - aluminium
pin - steel**Temperature Range** -100 °C ~ 250 °C

Line Shaft

with split hubs and servo inserts

optional
laserwelded
optional full stainless
steel versionoptional
with carbon tube

Order Code

DRE / 19 - 2000 - 10 - 16 - 98Sh

Type / Size

Length

ØD1
(H7)ØD2
(H7)Shore-
hardness

Size	Dimensions (mm)												Technical Data			
	Ø D1/D2		Ø A	E	K	F	L		R	B	C	H	G (ISO4762)	TKN (Nm)	TKmax (Nm)	CT/m (Nm/rad)
	Bore Sizes (H7)															
	min	max					min	max								
14	4	16	30	11	8	13	102	3000	30	34	5	10.5	M4 5	12.5	25	500
19	8	21	40	25	19.5	16	133	3000	35	46	8.0	14.5	M6 15	17	34	1770
24	10	32	55	30	22.0	18	157	3000	50	57.5	10.5	20	M6 15	60	120	6400
28	14	37	65	35	25.0	20	181	3000	60	73	11.5	25	M8 40	160	320	11400
38	18	48	80	45	33.0	24	229	3000	75	83.5	15.5	30	M8 40	325	650	23000
42	22	50	95	50	36.5	26	253	3000	100	93.5	18.0	32	M10 84	450	900	194000
48	22	57	105	56	39.5	28	281	3000	100	105	18.5	36	M12 145	525	1050	194000

	Transmittable torque (Nm) depending on shaft diameter (mm)																									
Size	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	10.3	15.5	20.7	25.8	28.4	36.1	38.7	41.3																		
19			47	59	65	83	89	95	107	113	119															
24				59	65	83	89	95	107	113	119	130	142	148	166	178	190									
28						123	132	141	159	167	176	194	211	220	247	264	282	308	335							
38									159	167	176	194	211	220	247	264	282	308	335	352	370	396				
42												370	404	420	471	505	538	589	639	673	706	757	774	807	841	
48												539	588	612	686	735	784	857	931	980	1029	1102	1127	1176	1225	1347



Material

hub: aluminium
spider element: polyurethane 98 Sh A (red)
tube: aluminium

Hub

bore tolerance: H7

Keyway

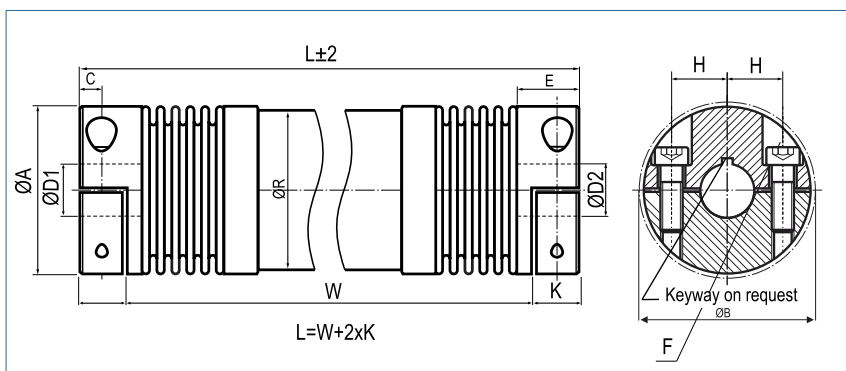
optional acc. DIN 6885

Longer versions up to 6m on request!

Information about permissible misalignments and maximum speeds
are available in our assembly - instructions.

Line Shaft

with split hubs and metal bellows

optional
laserwelded
optional full stainless
steel versionoptional
with carbon tube

Order Code

DRB / 60 - 2000 - 15 - 20 - (S)

Type / Size

Length

ØD1
(H7)ØD2
(H7)

Options

Size	Torque TKN (Nm)	Dimensions (mm)											Technical Data	
		L		Ø A	D1/D2	H	C	E	K	F	R	B	Spring Stiffness	
		min	max	Outer Ø	Bore Sizes (H7)					Screw (ISO4762) TA (Nm)	Tube Ø	Ø	Torsion Bellows C _t 10 ³ (Nm/rad)	Torsion Shaft C _t 10 ³ (Nm/rad)
4.5	4.5	68	3000	32.5	6-16	12	5	14	8.5	M4 35	30	34	3.2	0.5
10	10	82	3000	40.5	6-25	15.5	5	14	9	M4 45	35	41.5	4.1	1.8
18	18	108	3000	45	10-25.4	17	5.5	19.5	13	M5 8	35	47.4	10	1.8
30	30	111	3500	56	10-30	20	7.5	27	17	M6 15	50	56.4	19	6.5
60	60	135	4000	66	12-35	23	9.5	31	21	M8 40	60	66	37.5	11.5
150	150	154	4000	82	14-44	28	11	36	23.5	M10 84	75	82.9	77.5	23
200	200	169	4000	90	16-48	31	12.5	41	27	M12 125	90	90.8	87.5	73
300	300	179	4000	110	20-60	40	13	43	28	M12 145	100	110	251	194
500	500	215	4000	122	25-65	42	15	51	35.5	M12 145	100	122	345	194



Material bellows - stainless steel
hub - aluminium
tube - aluminium

Keyway optional acc. DIN 6885

Temperature Range -30 °C ~ 120°C

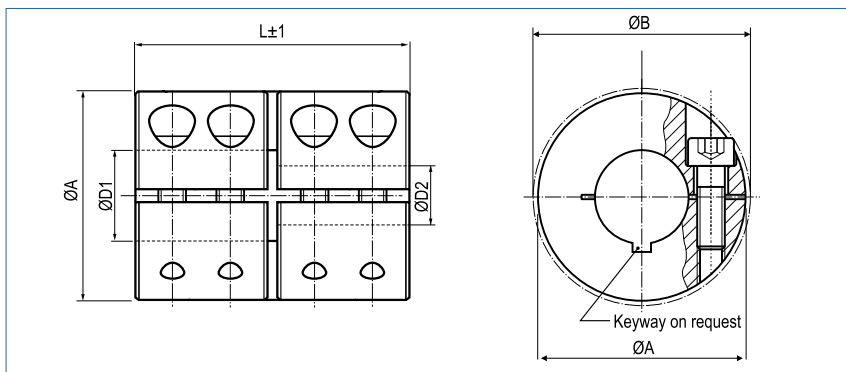
Longer versions up to 6m on request!

Bellows fail protect system is automatically integrated.

Information about permissible misalignments and maximum speeds are available in our assembly - instructions.

Rigid Shaft Coupling

single slit



Order Code for Standard Coupling

KBST - 50

Type

Size

This coupling will automatically be supplied with unique bore 50H7.

Order Code for Coupling with different Bore Diameters

KBST - 50 - 45 - 48

Type

Size

D1

D2

This coupling will be supplied with the dimensions of type KBST-50 but with a bore combination 45H7 - 48H7.

Rigid shaft coupling - Steel blackened									
Size	Torque Steel Nm	Dimensions					Screw (ISO4762)	Tightening Torque Screws Nm	Mass g
		Standard Bore D1 / D2 H7	different Bores min-max	A mm	B mm	L mm			
6	30	6	5-7	18	21.2	30	M3x8	2	47
8	50	8	5-12	24	26.8	35	M3x10	3	102
10	100	10	5-15	29	32.7	45	M4x12	4.5	185
12	100	12	5-15	29	32.7	45	M4x12	4.5	180
14	190	14	10-17	34	39.1	50	M5x16	9	272
15	190	15	10-17	34	39.1	50	M5x16	9	266
16	190	16	10-17	34	39.1	50	M5x16	9	261
20	350	20	10-24	42	48.2	65	M6x16	15	518
25	390	25	10-26	45	50.8	75	M6x16	15	623
30	475	30	20-32	53	58.1	83	M6x18	15	920
35	1100	35	20-40	67	74.1	95	M8x25	40	1880
40	1325	40	30-50	77	83.4	108	M8x25	40	2710
50	2250	50	40-52	85	93.2	124	M10x25	84	3520

Transmittable torque (Nm) depending on shaft diameter (mm)																									
Size	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	44	46	48	50		
6	18	19																							
8	25	26	29	31	33																				
10	51	53	57	61	65	69																			
12	51	53	57	61	65	69																			
14				109	116	122	129																		
15				109	116	122	129																		
16				109	116	122	129																		
20				195	205	214	223	233	242	251	261														
25				209	219	228	237	247	256	265	275	284													
30									284	293	303	312	321	330	340										
35									582	599	616	632	649	666	682	699	716	732	749						
40														749	765	782	799	815	832	865	882	899	915		
50																			1400	1453	1479	1506	1532		

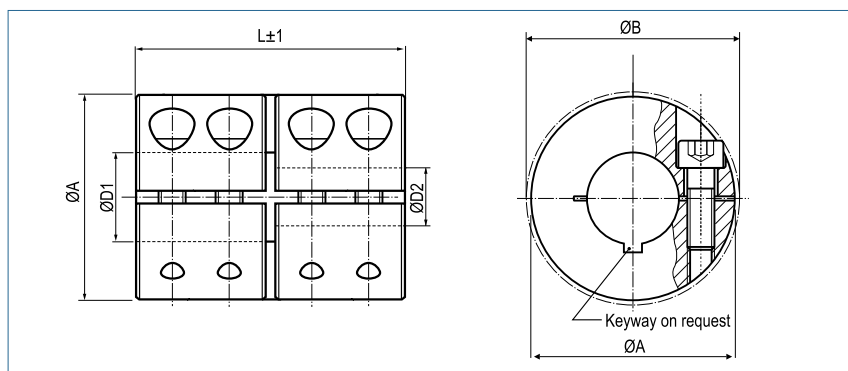


Keyways

according DIN 6885/1 are only possible in unique bore diameters.

Rigid Shaft Coupling

single slit in stainless steel



Order Code for Standard Coupling

KBST-VA - 50

Type

Size

This coupling will automatically be supplied with unique bore 50H7.

Order Code for Coupling with different Bore Diameters

KBST-VA - 50 - 45 - 48

Type

Size

D1

D2

This coupling will be supplied with the dimensions of type KBST-50 but with a bore combination 45H7 - 48H7.

Rigid shaft coupling - Stainless Steel									
Size	Torque Stainless Steel Nm	Dimensions					Screw (ISO4762)	Tightening Torque Screws Nm	Mass g
		Standard Bore D1 / D2 H7	different Bores min~max	A mm	B mm	L mm			
6	25	6	5-7	18	21.2	30	M3x8	1.6	47
8	40	8	5-12	24	26.8	35	M3x10	1.6	102
10	90	10	5-15	29	32.7	45	M4x12	3.9	185
12	90	12	5-15	29	32.7	45	M4x12	3.9	180
14	160	14	10-17	34	39.1	50	M5x16	7.6	272
15	160	15	10-17	34	39.1	50	M5x16	7.6	266
16	160	16	10-17	34	39.1	50	M5x16	7.6	261
20	300	20	10-24	42	48.2	65	M6x16	13.2	518
25	325	25	10-26	45	50.8	75	M6x16	13.2	623
30	400	30	20-32	53	58.1	83	M6x18	13.2	920
35	925	35	20-40	67	74.1	95	M8x25	32	1880
40	1100	40	30-50	77	83.4	108	M8x25	32	2710
50	1875	50	40-52	85	93.2	124	M10x25	63	3520

Transmittable torque (Nm) depending on shaft diameter (mm)																					
Size	5	6	8	10	12	14	18	20	24	26	28	30	32	38	40	42	44	46	48	50	52
6	15	16																			
8	21	22	23	25	27																
10	44	45	49	52	56	59															
12	44	45	49	52	56	59															
14				93	98	104															
15				93	98	104															
16				93	98	104															
20				167	175	183	199	207	223												
25				179	187	195	211	219	235	243											
30								243	259	267	274	282	290								
35								510	539	553	568	582	597	641	655						
40												655	670	713	728	743	757	772	786	801	
50															1226	1250	1273	1296	1319	1342	1365

Keyways

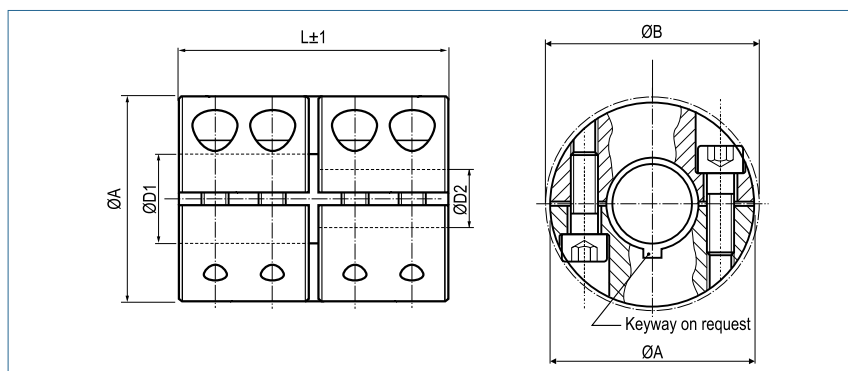
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poss

**Keyways**

according DIN 6885/1 are only possible in unique bore diameters.

Rigid Shaft Coupling

split



Order Code for Standard Coupling

KBST-G - 50

Type

Size

This coupling will automatically be supplied with unique bore 50H7.

Order Code for Coupling with different Bore Diameters

KBST-G - 50 - 45 - 48

Type

Size

D1

D2

This coupling will be supplied with the dimensions of type KBST-50 but with a bore combination 45H7 - 48H7.

Rigid Shaft Coupling split - Steel blackened									
Size	Torque Steel Nm	Dimensions - Dimensions					Screws (ISO4762)	Tightening Torque Screws Nm	Mass g
		Standard Bore D1 / D2 H7	different Bores min-max	A mm	B mm	L mm			
6	30	6	5-7	18	21.2	30	M3x8	2	47
8	50	8	5-12	24	26.8	35	M3x10	3	102
10	100	10	5-15	29	32.7	45	M4x12	4.5	185
12	100	12	5-15	29	32.7	45	M4x12	4.5	180
14	190	14	10-17	34	39.1	50	M5x16	9	272
15	190	15	10-17	34	39.1	50	M5x16	9	266
16	190	16	10-17	34	39.1	50	M5x16	9	261
20	350	20	10-24	42	48.2	65	M6x16	15	518
25	390	25	10-26	45	50.8	75	M6x16	15	623
30	475	30	20-32	53	58.1	83	M6x18	15	920
35	1100	35	20-40	67	74.1	95	M8x25	40	1880
40	1325	40	30-50	77	83.4	108	M8x25	40	2710
50	2250	50	40-52	85	93.2	124	M10x25	84	3520

Transmittable torque (Nm) depending on shaft diameter (mm)																					
Size	5	6	8	10	12	14	16	18	20	22	26	28	30	32	34	38	42	44	48	50	52
6	29	35																			
8	29	35	47	58	70																
10	52	62	83	103	124	145															
12	52	62	83	103	124	145															
14				168	202	235	269														
15				168	202	235	269														
16				168	202	235	269														
20				237	284	332	379	427	474	521											
25				237	284	332	379	427	474	521	616										
30									474	521	616	664	711	758							
35									847	932	1102	1186	1271	1356	1441	1610					
40													1271	1356	1441	1610	1780	1864	2034	2119	
50																	2825	2960	3229	3363	3498

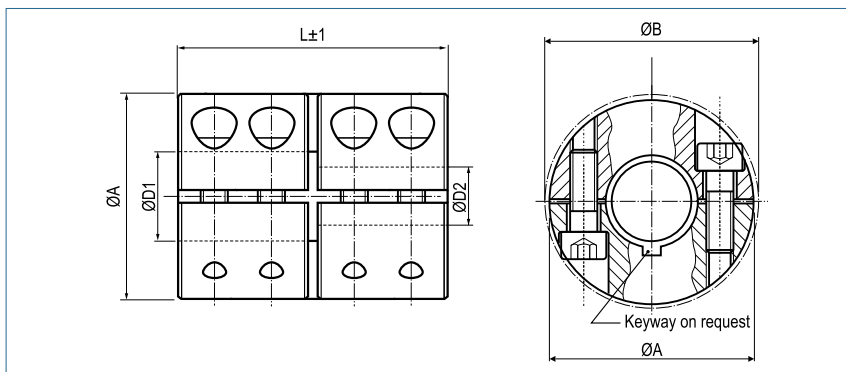


Keyways

according DIN 6885/1 are possible for all bore combinations.

Rigid Shaft Coupling

split, in stainless steel



Order Code for Standard Coupling

KBST-G-VA - 50

Type

Size

This coupling will automatically be supplied with unique bore 50H7.

Order Code for Coupling with different Bore Diameters

KBST-G-VA - 50 - 45 - 48

Type

Size

D1

D2

This coupling will be supplied with the dimensions of type KBST-50 but with a bore combination 45H7 - 48H7.

KBST - G - VA Rigid Shaft Coupling split - Stainless Steel

Size	Torque Stainless Steel Nm	Dimensions					Screws (ISO4762)	Tightening Torque Screws Nm	Mass g
		Standard Bore D1 / D2 H7	different Bores min-max	A mm	B mm	L mm			
6	25	6	5-7	18	21.2	30	M3x8	1.6	47
8	40	8	5-12	24	26.8	35	M3x 10	1.6	102
10	90	10	5-15	29	32.7	45	M4x 12	3.9	185
12	90	12	5-15	29	32.7	45	M4x 12	3.9	180
14	160	14	10-17	34	39.1	50	M5x 16	7.6	272
15	160	15	10-17	34	39.1	50	M5x 16	7.6	266
16	160	16	10-17	34	39.1	50	M5x 16	7.6	261
20	300	20	10-24	42	48.2	65	M6x 16	13.2	518
25	325	25	10-26	45	50.8	75	M6x 16	13.2	623
30	400	30	20-32	53	58.1	83	M6x 18	13.2	920
35	925	35	20-40	67	74.1	95	M8x 25	32	1880
40	1100	40	30-50	77	83.4	108	M8x 25	32	2710
50	1875	50	40-52	85	93.2	124	M10x 25	63	3520

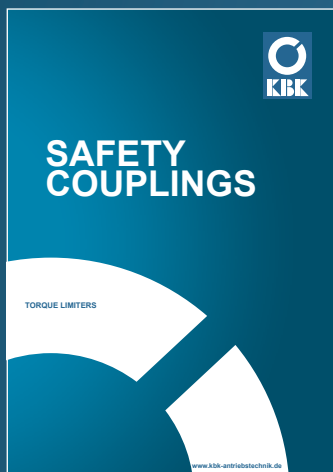
Transmittable torque (Nm) depending on shaft diameter (mm)

Size	5	6	12	14	16	18	20	22	24	28	30	32	34	36	38	40	44	46	50	52
6	24	29																		
8	24	29	57																	
10	44	53	106	124																
12	44	53	106	124																
14			172	200	229															
15			172	200	229															
16			172	200	229															
20			243	284	324	365	405	446	486											
25			243	284	324	365	405	446	486											
30							405	446	486	567	608	648								
35							742	816	890	1038	1112	1186	1261	1335	1409	1483				
40											1112	1186	1261	1335	1409	1483	1631	1706	1854	
50																2357	2593	2711	2946	3064

**Keyways**

according DIN 6885/1 are possible for all bore combinations.

Please contact us for our catalogues
for **SAFETY COUPLINGS** and
SHAFT HUB CONNECTIONS



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02/2019