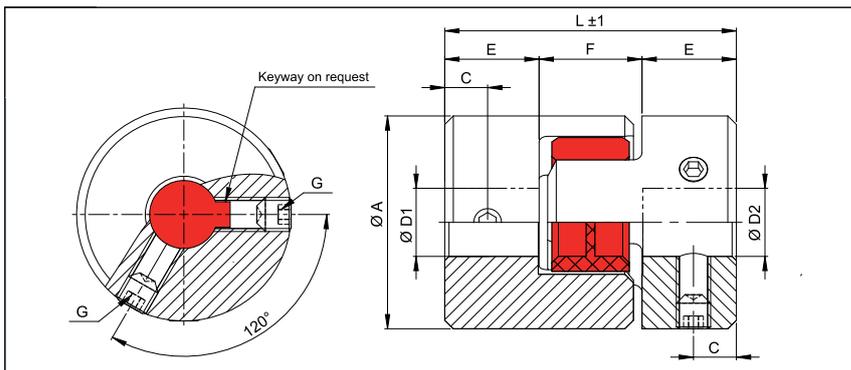


Servo Insert Coupling
with set screws

optional full
stainless steel
version

KBE1



Order Code

KBE1 - 14 - 10 - 12 - 98Sh

Type Size ØD1 (H7) ØD2 (H1) Shore-hardness

Size	Dimensions (mm)							Technical Data			Torque (Nm)			
	Ø A Outer Ø	L Length	Ø D1-D2 Bore Sizes (H7) min-max	E	F	C	G Screw (ISO4029) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m ²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
5	10	15	2-6	5	5	2.5	1xM3 0.5	47500	2.62	0.0000216	x	x	0.5	x
7	14	22	4-7	7	8	3.5	2xM3 1.3	34000	6.5	0.00018	2.4	2	1.2	0.7
9	20	30	6-14	10	10	5	2xM3 1.3	24000	22	0.00105	6	5	3	1.8
12	25	34	6-12	11	12	5	1xM4 3	19500	33	0.00309	12	9	5	3
14	30	35	6 - 16	11	13	5	1xM4 3	16000	45	0.006	16	12.5	7.5	4
19	40	66	10-24	25	16	10	1xM5 6	12000	187	0.040	26	21	12	6
24	55	78	16-28	30	18	10	1xM5 6	8500	420	0.171	75	60	35	17
28	65	90	20-38	35	20	15	1xM6 11	7200	577	0.368	200	160	95	46
38	80	114	20-45	45	24	15	1xM8 25	6000	1200	1125	405	325	190	x
42	95	126	20-55	50	26	20	1xM8 25	4800	1850	16103	560	450	265	x
48	105	140	20-60	56	28	20	1xM8 25	4300	2562	4124	655	525	310	x
55	120	160	20-65	65	30	26	1xM10 84	4000	3280	7.663	825	685	410	x

Material

hub - aluminium

Hub

spider element - polyurethane
bore tolerance: H7

Keyway

optional acc. DIN 6885

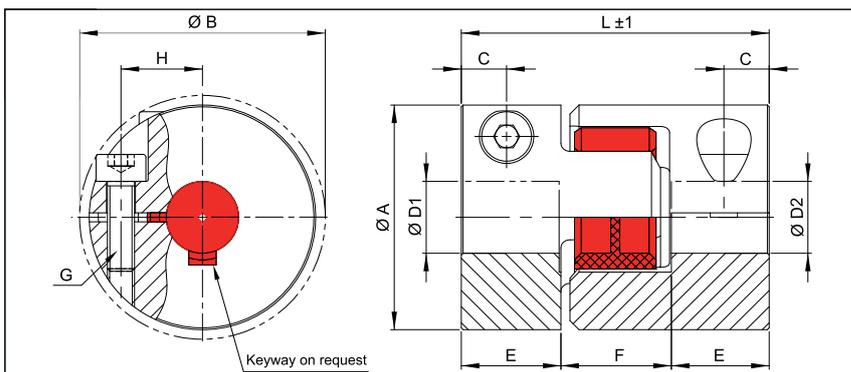
Further spider elements and technical data are available on page 44 and 45.

All series are available with loose-fit spiders (see page 45).

Servo Insert Coupling
with collet clamps

optional full
stainless steel
version

KBE2



Order Code	KBE2	-	38	-	20	-	40	-	98Sh
	Type		Size		ØD1 (H7)		ØD2 (H7)		Shore-hardness

Size	Dimensions (mm)									Technical Data			Torque (Nm)			
	ØA Outer Ø	L Length	Ø D1-D2 Bore Sizes (H7) min-max	E	F	H	C	Ø B	G Screw (ISO4762) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m ²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
24	55	78	15-32	30	18	20	12	56.4	M6 15	7000	394	0.175	75	60	35	17
28	65	90	19-37	35	20	23.5	15	72.6	M8 40	6000	624	0.377	200	160	95	46
38	80	114	20-48	45	24	29	20	83.3	M8 40	5000	1230	1.139	405	325	190	x
42	95	126	25-50	50	26	32	20	95	M10 84	4000	1960	2.505	560	450	265	x
48	105	140	25-62	56	28	38	22	105	M12 145	3750	2690	4.175	655	525	310	x
55	120	160	25-74	65	30	45	20	122.8	M12 145	3500	3333	7.545	825	685	410	x

Size	Transmittable torque (Nm) depending on shaft diameter (mm)																												
	15	16	19	20	22	24	25	28	30	32	35	38	39	40	42	44	45	46	48	50	52	54	56	58	60	62	65	70	74
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	173	176	178												
42							294	304	310	317	327	337	340	343	350	357	360	363	370	376									
48							476	491	500	510	524	539	544	548	558	568	572	577	587	596	606	616							
55							529	544	553	563	577	592	596	601	611	620	625	630	640	649	659	669	678	688	697	707	722	746	765

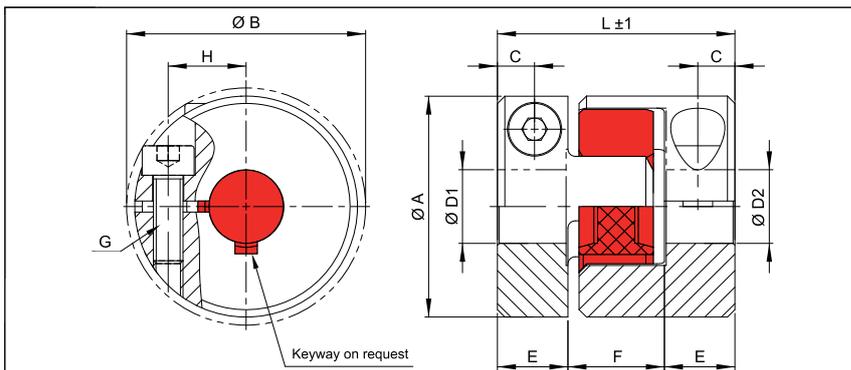
Material	hub - aluminium spider element - polyurethane
Hub	bore tolerance: H7
Keyway	optional acc. DIN 6885

Further spider elements and technical data are available on page 44 and 45.
All series are available with loose-fit spiders (see page 45).

Servo Insert Coupling compact

optional full stainless steel version

KBE2C



Order Code

KBE2C - 38 - 20 - 40 - 98Sh

Type Size ØD1 (H7) ØD2 (H7) Shore-hardness

Size	Dimensions (mm)									Technical Data			Torque (Nm)			
	Ø A	L	Ø D1-D2	E	F	H	C	Ø B	G	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
	Outer Ø	Length	Bore Sizes (H7) min-max						Screw (ISO4762) TA (Nm)							
7	14	18	3-7	5	8	x	2.5	16.7	M2 0.43	27000	6	0.00018	2.4	2	1.2	0.7
9	20	24	4-11	7	10	x	3.5	22.3	M2.5 0.85	19000	15	0.00085	6	5	3	1.8
12	25	26	4-12	7	12	x	3.5	27.3	M3 2	16000	23	0.00220	12	9	5	3
14	30	32	4-16	9.5	13	10.5	5	32.5	M4 4.5	13000	45	0.0166	16	12.5	7.5	4
19	40	50	8-21	17	16	14.5	8.5	46.3	M6 15	10000	139	0.0311	26	21	12	6
24	55	58	10-32	20	18	20	10	56.6	M6 15	7000	271	0.119	75	60	35	17
28	65	62	14-38	21	20	25	11	72.8	M8 40	6000	429	0.254	200	160	95	46
38	80	86	15-48	31	24	30	15	86.8	M8 84	5000	888	0.828	405	325	190	x
42	95	94	20-50	34	26	32	17.5	98.4	M10 145	4000	1425	1.866	560	450	265	x
48	105	110	20-62	41	28	36	23	107.4	M12 145	3750	2019	3.221	655	525	310	x

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																					
12			6.6	6.9	7.4	8.0	8.6																			
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													433	452	457	471	481	491	505	519	529	539	553	568	577	
48													452	471	476	491	500	510	524	539	548	558	572	587	596	620

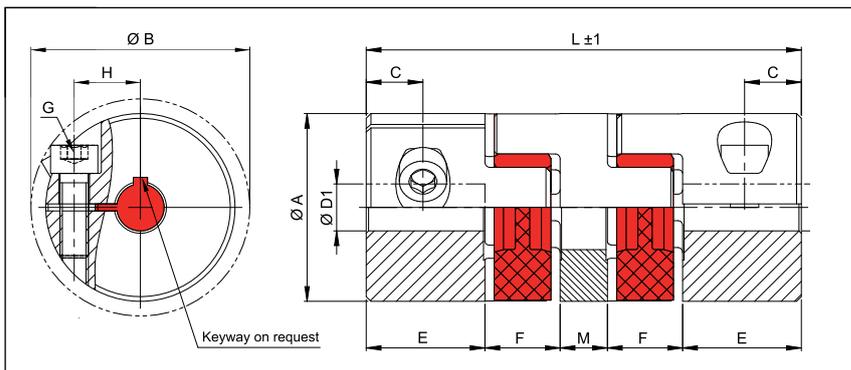
Material hub - aluminium
 spider element - polyurethane
Hub bore tolerance: H7
Keyway optional acc. DIN 6885

* Hubs for bores > 21H7 to 25H7 will be supplied with M5 screws.
 Further spider elements and technical data are available on page 44 and 45.
 All series are available with loose-fit spiders (see page 45).

Servo Insert Coupling
doublecardanic with collet clamps

optional full
stainless steel
version

KBE2D



Order Code

KBE2D - 14 - 10 - 12 - 98Sh

Type Size ØD1 (H7) ØD2 (H7) Shore-hardness

Size	Dimensions (mm)										Technical Data			Torque (Nm)			
	ØA Outer Ø	L Length	Ø D1-D2 Bore Sizes (H7) min-max	E	F	H	C1/C2	Ø B	G Screw (ISO4762) TA (Nm)	M	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m ²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
7	14	34	4-7	7	7.5	5	4	16.5	M2 0.43	5	27000	5	0002	2.4	2	1.2	0.7
9	20	45	4-11	10	10	7	5	22.5	M2.5 0.85	5	19000	32	0.002	6	5	3	1.8
12	25	52	4-12	11	12	9	5	27.5	M3 2	6	16000	51	0.00459	12	9	5	3
14	30	56	4-16	11	13	11.5	5.5	33	M3 2	8	13000	77	0.010	16	12.5	7.5	4
19	40	92	10-23/25*	25	16	14/16*	8.5/10	46.3	M6/M4* 15	10	10000	232	0.056	26	21	12	6
24	55	112	15-32	30	18	20	12	56.6	M6 15	16	7000	534	0.188	75	60	35	17
28	65	128	19-38	35	20	23.5	13	70.2	M8 40	18	6000	844	0.507	200	160	95	46
38	80	158	20-48	45	24	29	16	82.5	M8 40	20	5000	1580	1.489	405	325	190	x
42	95	174	25-50	50.5	26.5	32	18	95	M10 84	20	4000	2270	3.144	560	450	265	x
48	105	192	25-62	56	28	38	21	107.4	M12 145	24	3000	2970	5.117	655	525	310	x

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																	
12	6.3	6.6	6.9	7.2	7.4	7.7	8.0	8.3	8.6																
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
42																	294	304	310	317	327	337	343	350	360
48																	476	497	500	510	524	539	548	558	572

Material Hub hub - aluminium
 spider element - polyurethane
 bore tolerance: H7
Keyway optional acc. DIN 6885

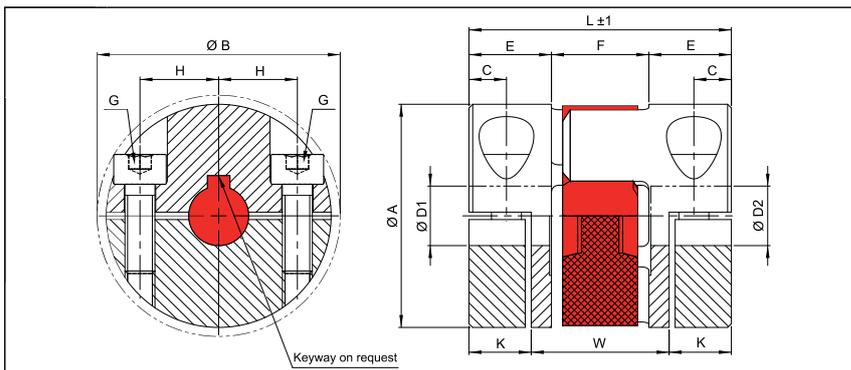
* Hubs for bores > 22H7 to 24H7 will be supplied with 2 x M4 screws.

Further spider elements and technical rates are available on page 44 and 45. All series are available with loose-fit spiders (see page 45).

Servo Insert Coupling
with split hubs

optional full
stainless steel
version

KBE2H



Order Code

KBE2H - 19 - 10 - 12 - 98Sh

Type Size $\varnothing D1$ (H7) $\varnothing D2$ (H7) Shore-hardness

Size	Dimensions (mm)										Technical Data				Torque (Nm)			
	$\varnothing A$ Outer \varnothing	L Length	$\varnothing D1/D2$ Bore Sizes (H7) min~max	E	W	F	H	C	$\varnothing B$	K	G Screw (ISO4762) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia J (per coupling) (g m ²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
9	20	30	4-11	10	14	10	7	5	23.5	8	M2.5 0.85	19000	20	0.00121	6	5	3	1.8
12	25	34	4-12	11	18	12	9	5	27.2	8	M3 2	16000	36	0.00354	12	9	5	3
14	30	35	4-16	11	19	13	10.5	5.0	35	8	M4 5	13000	50	0.007	16	12.5	7.5	4
19	40	66	8-25	25	27	16	14.5	8.0	46	19.5	M6 15	10000	182	0.042	26	21	12	6
24	55	78	10-32	30	34	18	20	10.5	57.5	22.0	M6 15	7000	391	0.171	75	60	35	17
28	65	90	14-37	35	40	20	25	11.5	73	25.0	M8 40	6000	643	0.402	200	160	95	46
38	80	114	18-48	45	48	24	29	15.5	83.5	33.0	M8 40	5000	1167	1.096	405	325	190	x
42	95	126	22-50	50	53	26	32	18.0	93.5	36.5	M10 84	4000	1943	2.522	560	450	265	x
48	105	140	22-57	56	61	28	36	18.5	105	39.5	M12 145	3750	2592	4.076	655	525	310	x
55	120	160	25-74	65	70	30	45	26	122.8	45	M12 145	3500	3260	7.349	825	685	410	x

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

Size	4	6	8	10	14	15	16	18	20	22	24	25	28	30	32	35	38	40	42	45	48	50	55	58	60	65	70	74
9	3	4	6	7																								
12	6	9	12	15	21	22	24																					
14	11	16	21	26	37	39	42																					
19			47	59	83	89	95	107	119																			
24				59	83	89	95	107	119	130	142	148	166	178	190													
28					123	132	141	159	176	194	211	220	247	264	282	308												
38								159	176	194	211	220	247	264	282	308	335	352	370	396	423							
42										370	404	420	471	505	538	589	639	673	706	757	807	841						
48											539	588	612	686	735	784	857	931	980	1029	1102	1176	1225	1347				
55												612	686	735	784	857	931	980	1029	1102	1176	1225	1347	1421	1470	1592	1715	1813

Material

hub - aluminium
spider element - polyurethane

Hub

bore tolerance: H7

Keyway

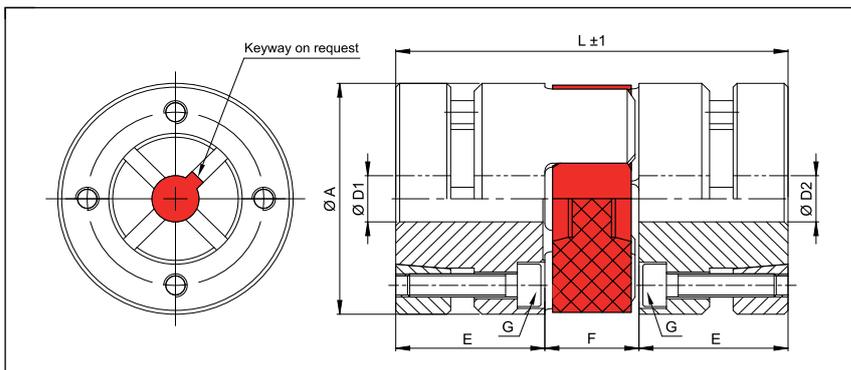
optional acc. DIN 6885

Further spider elements and technical data are available on page 44 and 45.
All series are available with loose-fit spiders (see page 45).

Servo Insert Coupling with outer conical hubs

optional full stainless steel version

KBE3



Order Code

KBE3 - 48 - 40 - 35 - 98Sh

Type Size ØD1 (H7) ØD2 (H7) Shore-hardness

Size	Dimensions (mm)						Technical Data			Torque (Nm)			
	Ø A Outer Ø	L Length	Ø D1-D2 Bore Sizes (H7) min-max	E	F	G Screw (ISO4762) TA (Nm)	max. speed rpm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
14	30	50	5-14 #12	19	12	M3 1.34	25000	105	0.014	16	12.5	7.5	4
19	40	66	10-20 #17	25	16	M4 2.9	19000	277	0.066	26	21	12	6
24	55	78	15-30 #25	30	18	M5 6	14000	612	0.282	75	60	35	17
28	65	90	19-38 #34	35	20	M5 6	12000	937	0.650	200	160	95	46
38	80	114	20-45 #40	45	24	M6 10	10000	1961	2.005	405	325	190	x
42	95	126	28-50 #43	50.5	25	M8 35	8000	3069	4.322	560	450	265	x
48	105	140	35-60 #54	56.5	27	M8 35	7000	3855	6.851	655	525	310	x
55	120	160	40-70 #60	65	30	M10 84	5000	4145	10.252	825	685	410	x

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	60	65	70
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			
55																1262	1325	1422	1464	1582	1630	1975	1994	2352

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

Hub bore tolerance: H7

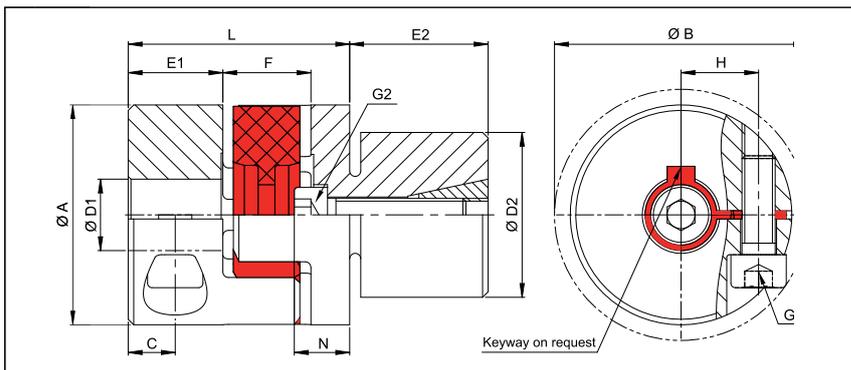
Keyway optional acc. DIN 6885
 biggest bore marked with a #

Further spider elements and technical data are available on page 44 and 45.
 All series are available with loose-fit spiders (see page 45).

Servo Insert Coupling with expanding clamps

optional full stainless steel version

KBE4



Order Code

KBE4 - 38 - 40 - 35 - 98Sh

Type Size ØD1 (H7) ØD2 (h7) Shore-hardness

Size	Dimensions (mm)											Technical Data			Torque (Nm)			
	ØA	L	Ø D1	Ø D2	E1	E2	N	C	B	G1	G2	max. speed upm. (1/min)	Mass (per coupling) (g)	Moment of Inertia (per coupling) J (g m ²)	64 ShoreD (green)	98 ShoreA (red)	92 ShoreA (yellow)	80 ShoreA (blue)
	Outer Ø	Length	Bore Size (H7) min-max	(h7) min-max						Screw (ISO4762) TA (Nm)	Screw (ISO4762) TA (Nm)							
12	25	26	4-12	10-16	11	12	4	5	27.5	M3	M4	27000	58	0.010	12	9	5	3
14	30	28	4-16	13-25	11	20	7	5	32.2	M3 2	M5 9	20000	98	0.010	16	12.5	7.5	4
19	40	40	10-22/24*	14-30	17	25	10	9	47	M6 15	M6 15	19000	240	0.042	26	21	12	6
24	55	46	12-32	23-36	20	27	11	10	56.4	M6 15	M8 40	14000	463	0.158	75	60	35	17
28	65	51	19-37	26-42	21	32	16	11	72.6	M8 40	M10 84	11500	799	0.375	200	160	95	46
38	80	68	20-48	38-60	31	45	20	15	83.3	M8 40	M12 145	9500	1754	1.213	405	325	190	x
42	95	92.5	25-50	42-80	51	55	21	18	95	M10 84	M16 310	6031	3966	4.180	560	450	265	x
48	105	102	25-62	42-90	55	60	24.5	20	105	M12 145	M16 310	5457	5392	7030	655	525	310	x

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	
12	6.6	6.9	7.4	8.0	8.6																			
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	
42															294	304	310	317	327	337	343	350	360	
48															476	491	500	510	524	539	548	558	572	

Material hub - aluminium
 expanding clamps - steel
 spider element - polyurethane

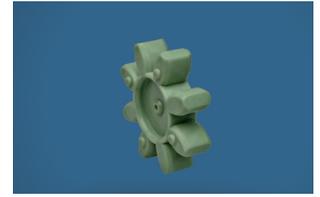
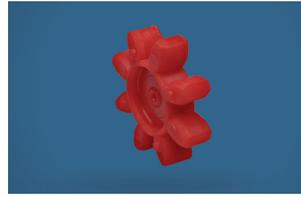
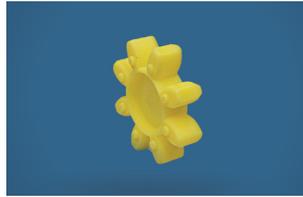
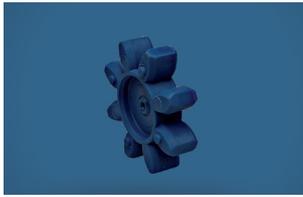
Hub bore tolerance: H7

Keyway optional acc. DIN 6885

* Hubs for bores > 22H7 to 24H7 will be supplied with M5 screws.

Further spider elements and technical data are available on page 44 and 45. All series are available with loose-fit spiders (see page 45).

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

Order Code

ZK19 - 98Sh

Type / Size

Shore-
hardness

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	80 ShA	0.3	0.6	3.15	10	82	+0.4/ -0.2	0.12	1.1°	3
	92 ShA	0.5	1.0	5.16	16	154	+0.4 / -0.2	0.06	1.0°	
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°	
55	92 ShA	410	820	15482	21375	2980	+ 2.2 / -1.0	0.24	1.0°	58
	98 ShA	685	1370	42117	61550	6686	+ 2.2 / -1.0	0.17	0.9°	
	64 ShD	825	1650	105730	130200	9248	+ 2.2 / -1.0	0.12	0.8°	