

Possible systems with safety couplings



Single Position

C

When exceeding the adjusted overload torque, the coupling will disengage. After eliminating the malfunction, the coupling will re-engage automatically. This can only happen at a certain position within 360° which can be noticed on the markings of the adjusting ring and the flange.

Note: Engagement is only possible at low speed.



Multi Position

D

When exceeding the adjusted overload torque, the coupling will disengage. After eliminating the malfunction, the coupling will re-engage automatically at the next successive ball points. Thus the safety coupling is immediately ready for use.

Note: Engagement is only possible at low speed.

Up to size 30 the angle of engagement is 45°.
From size 60 the angle of engagement is 60°.
Further angles of engagement upon request.



Full Disengagement

F

When exceeding the adjusted overload torque, the coupling will disengage. The driving and driven side are permanently torque-free separated from each other. After eliminating the malfunction, the coupling can be re-engaged by applying axial pressure on the pressure ring. It might be necessary to slightly rotate the driving and driven side towards each other.

Note: Engagement is only possible at standstill



Failsafe System

G

When the preset overload torque has been reached, the coupling will disengage and after a few angle degrees it will be mechanically locked. The response of the safety coupling is detected by using a limit switch and the torque flow will be stopped.

Safety Couplings with elastomer inserts

KBK|EPP -14 ~ 42

Safety Coupling
with two keyways



P. 38

KBK|EPK -14 ~ 42

Safety Coupling
with keyway and collet clamp



P. 39

KBK|EPI -14 ~ 42

Safety Coupling
with keyway and inner cone



P. 40

KBK|EPA -14 ~ 42

Safety Coupling
with keyway and outer cone



P. 41

KBK|EKP -14 ~ 42

Safety Coupling
with collet clamp and keyway



P. 42

KBK|EKK -14 ~ 42

Safety Coupling
with two collet clamps



P. 43

KBK|EKI -14 ~ 42

Safety Coupling
with collet clamp and inner cone



P. 44

KBK|EKA -14 ~ 42

Safety Coupling
with collet clamp and outer cone



P. 45

KBK|EHH -14 ~ 42

Safety Coupling
with split hubs



P. 46

KBK|EAP -14 ~ 42

Safety Coupling
with outer cone and keyway



P. 47

KBK|EAK -14 ~ 42

Safety Coupling
with outer cone and collet clamp



P. 48

KBK|EAI -14 ~ 42

Safety Coupling
with outer cone and inner cone



P. 49

Safety Couplings with elastomer inserts

KBK|EAA -14 ~ 42

Safety Coupling
with two outer cones

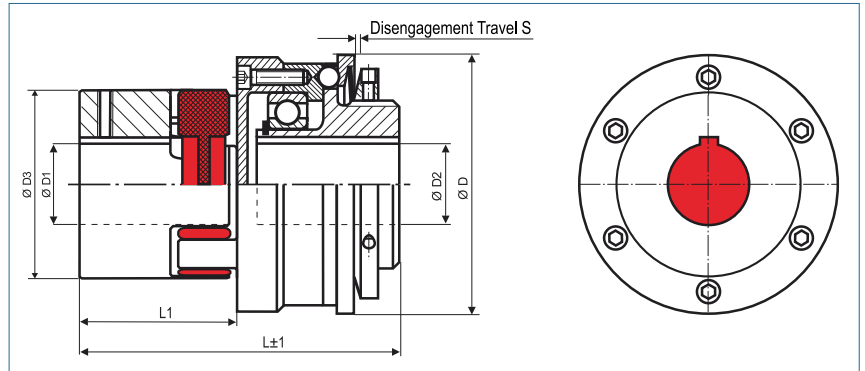


P. 50

Safety Coupling

with two keyways

optional
nickel-plated version
optional full stainless
steel version



Order Code **KBK/EPP - 24 - 98.5 - N16H7 - N15H7 - 20Nm - C or D - 2**

Type	Size	Length	ØD1 (H7)	ØD2 (H7)	Disengagement Torque	Torque Range
						C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)							Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max			1 TKN (Nm)					2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)	
-14	49	55	6-16	6-12	30	24	0.7	11690	0.19	0.5	12.5	3-7	5-10	0.09	+1.0 -0.5	0.9
-19	64	81	10-24	10-16	40	41	1.2	8950	0.63	2.6	17	5-15	10-30	0.06	+1.2 -0.5	0.9
-24	79	98.5	16-28	15-24	55	50	1.2	7630	1.1	6.8	60	12-35	20-60	0.10	+1.4 -0.5	0.9
-28	94	121	20-38	19-29	65	59	2	6030	2	17	160	50-130	65-150	0.11	+1.5 -0.7	0.9
-38	119	134	20-45	20-42	80	67	2	4980	3.8	57	325	60-200	150-300	0.12	+1.8 -0.7	0.9
-42	129	157	20-55	20-50	95	76	2	4440	7.9	140	450	80-250	200-500	0.14	+2.0 -1.0	0.9

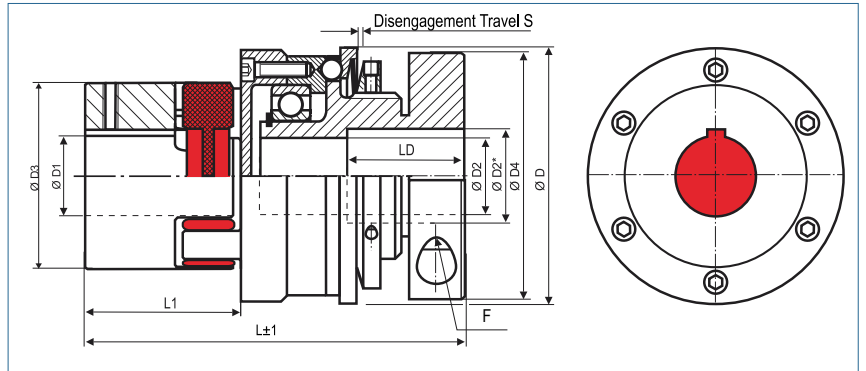
+ **Material** hubs: aluminium
 spider element: polyurethane 98 Sh A (red)

Temperature Range -30 °C ~ 90 °C

Safety Coupling

with keyway and collet clamp

optional
nickel-plated version
optional full stainless
steel version



Order Code **KBK/EPK - 24 - 126.5 - N16H7 - 14H7 - 20Nm - C or D - 2**

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range
 C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)									Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	Ø D4	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max			Screw ISO4762 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	65	6-16	6-16	30	40.5	M4 5.1	24	0.7	11690	0.22	0.5	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	100	10-24	10-20 14#	40	56	M6 15	41	1.2	8950	0.77	3.2	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
-24	79	126.5	16-28	12-28 21#	55	66	M8 36	50	1.2	7630	1.34	8.2	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
-28	94	142	20-38	14-35 27#	65	82	M10 72	59	2	6030	3	26	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
-38	119	160	20-45	30-50 41#	80	110	M12 125	67	2	4980	5.7	86	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
-42	129	195	20-55	35-56 46#	95	122	M12 125	76	2	4440	10.5	186	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9

+ **Bores** > Ø D2 and ≤ D2* only over LD

Material hubs: aluminium
spider element: polyurethane 98 Sh A (red)

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

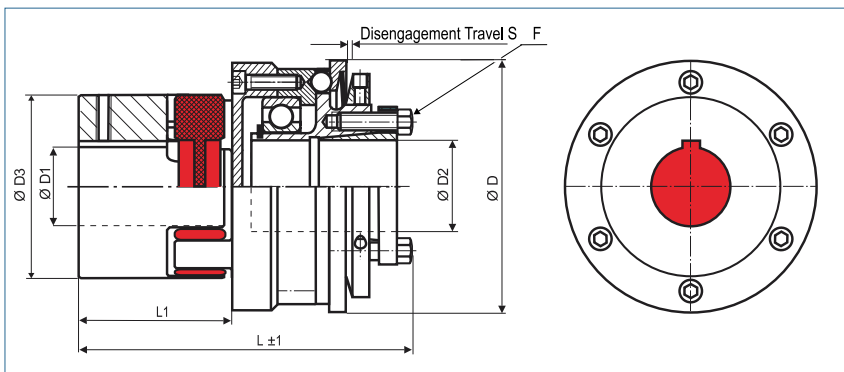
Temperature Range -30 °C ~ 90 °C

Size	14	19	24	28	38	42
D2*	20	26	31	38	57	62
LD	20	28	38	34	42	56

Safety Coupling

with keyway and inner cone

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EPI - 24 - 111.5 - N16H7 - 15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range

C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)									Technical Data							
	ØD	L	Ø D1	Ø D2	Ø D3	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min-max	Bore Size (H7) min-max		Screw ISO4017 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	65	6-16	6-14 10#	30	M3 2.1	24	0.7	11690	0.22	0.5	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	93	10-24	12-20 14#	40	M5 6	41	1.2	8950	0.72	2.9	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
-24	79	111.5	16-28	15-25 18#	55	M6 8.5	50	1.2	7630	1.3	7.9	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
-28	94	135	20-38	20-35 27#	65	M6 14	59	2	6030	2.28	20	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
-38	119	151	20-45	25-50 41#	80	M8 20	67	2	4980	4.6	69	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
-42	129	175	20-55	35-55 45#	95	M8 26	76	2	4440	8.75	156	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9

Material inner cone: steel
 hubs: aluminium
 spider element: polyurethane 98 Sh A (red)

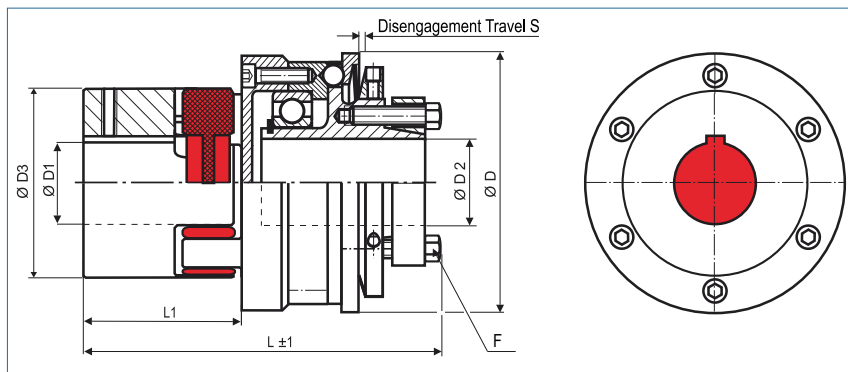
Keyway optional acc. DIN 6885
 biggest bore marked with a #

Temperature Range -30 °C ~ 90 °C

Safety Coupling

with keyway and outer cone

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EPA - 24 - 119.5 - N16H7 - 15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range
 C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)								Technical Data								
	ØD	L	ØD1	ØD2	ØD3	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) von ~bis		Screw ISO4017 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	67	6-16	5-14 10*	30	M3 2.1	24	0.7	11690	0.22	0.5	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	96	10-24	12-20 14*	40	M5 5.9	41	1.2	8950	0.71	2.9	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
-24	79	119.5	16-28	15-30 22*	55	M5 8.7	50	1.2	7630	1.29	7.9	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
-28	94	144	20-38	20-35 27*	65	M6 15	59	2	6030	2.3	20.4	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
-38	119	160	20-45	25-50 41*	80	M8 25	67	2	4980	4.5	67.3	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
-42	129	189	20-55	35-55 45*	95	M8 36	76	2	4440	8.8	156.1	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9

Material outer cone: steel
 hubs: aluminium
 spider element: polyurethane 98 Sh A (red)

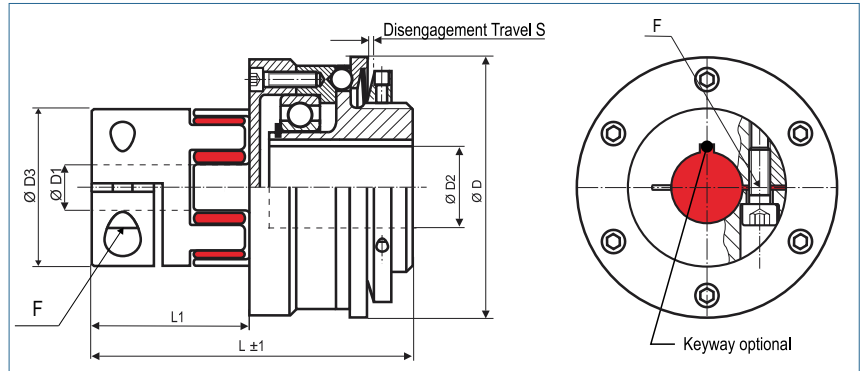
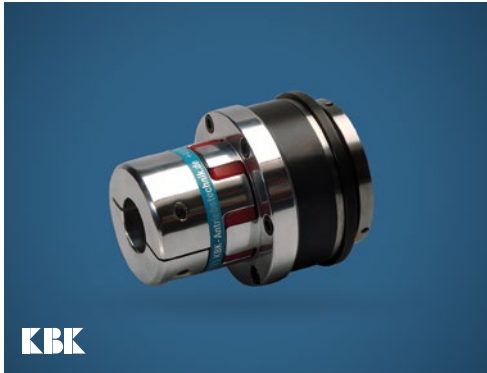
Keyway optional acc. DIN 6885
 biggest bore marked with a #

Temperature Range -30 °C ~ 90 °C

Safety Coupling

with collet clamp and keyway

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EKP - 24 - 98.5 - 16H7 - N15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range
 C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)								Technical Data								
	ØD	L	ØD1	ØD2	ØD3	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max		Screw (ISO4762) TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	55	4-16	6-12	30	M3 1.4	24	0.7	11690	0.21	0.5	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	81	10-22	10-16	40	M6/11	41	1.2	8950	0.65	2.7	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
		M6/11				33											
-24	79	98.5	15-32	15-24	55	M6/11	50	1.2	7630	1.24	7.6	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
		M6/11				40											
-28	94	121	19-38	19-29	65	M8/25	59	2	6030	2.1	18	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
		M8/25				45											
-38	119	134	20-45	20-42	80	M8/25	67	2	4980	3.8	57	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
		M10/49				53											
-42	129	157	28-45	20-50	95	M10	76	2	4440	5.9	104	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9
						70											

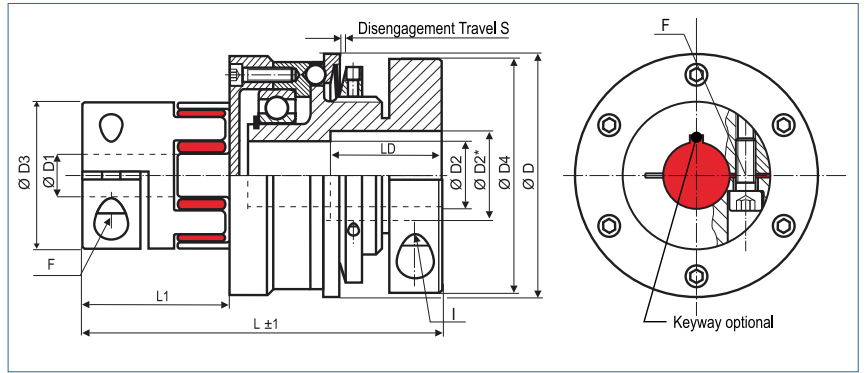


Material	collet clamp: aluminium spider element: polyurethane 98 Sh A (red)
Hub Style	size 14 and 19: single slit** size 24, 28, 38 and 42: double slit ** short lengths are automatically with single slits
Keyway	optional acc. DIN 6885
Temperature Range	-30 °C ~ 90 °C

Safety Coupling

with two collet clamps

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EKK - 24 - 126.5 - 16H7 - 14H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range

C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)										Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	Ø D4	F	I	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min-max	Bore Size (H7) min-max			Screw ISO4762 TA (Nm)	Screw ISO4762 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	65	4-16	6-16 11#	30	40.5	M3 1.4	M4 5.1	24	0.7	11690	0.24	0.6	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	100	10-22	10-20	40	56	M6/11	M6	41	1.2	8950	0.79	3.2	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
		92		14#			15	33											
-24	79	126.5	15-32	12-28	55	66	M6/11	M8	50	1.2	7630	1.46	8.9	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
		116.5		21#			36	40											
-28	94	142	19-38	14-35	65	82	M8/25	M10	59	2	6030	3.1	27	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
		128		27#			72	45											
-38	119	160	20-45	30-50	80	110	M8/25	M12	67	2	4980	5.7	86	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
		146		41#			125	59											
-42	129	195	28-45	35-56	95	122	M10	M12	76	2	4440	8.5	150	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9
							46#	70	125										



Bores > Ø D2 and ≤ D2* only over LD

Material collet clamp: aluminium
spider element: polyurethane 98 Sh A (red)

Hub Style size 14 and 19: single slit**
size 24, 28, 38 and 42: double slit
** short lengths are automatically with single slits

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

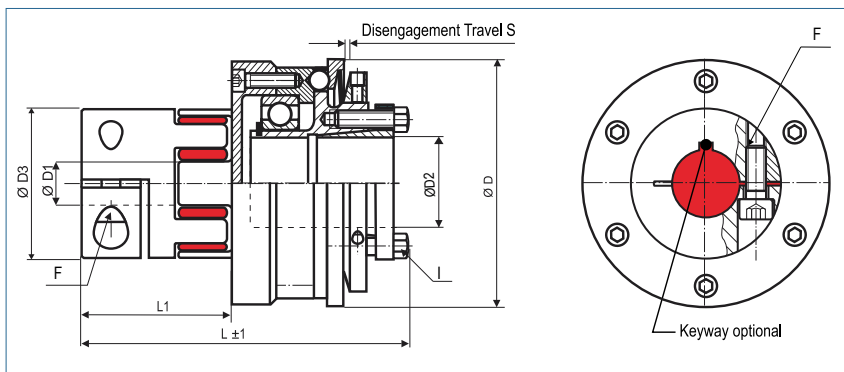
Temperature Range -30 °C ~ 90 °C

Size	14	19	24	28	38	42
D2*	20	26	31	38	57	62
LD	20	28	38	34	42	56

Safety Coupling

with collet clamp and inner cone

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EKI - 24 - 111.5 - 16H7 - 15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range
 C = Single Position D = Multi Position Engagement

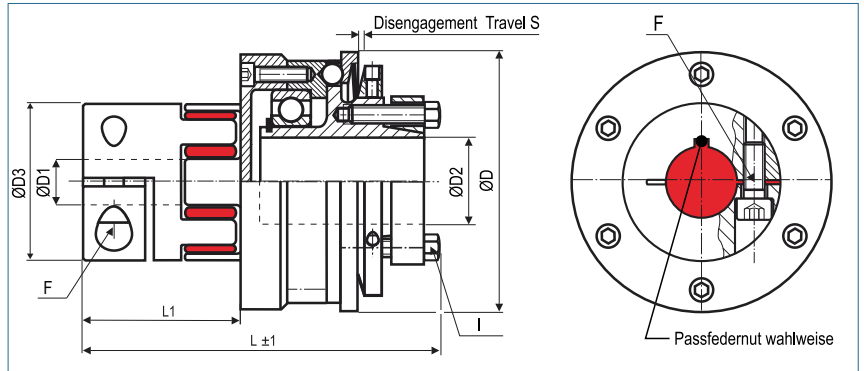
Size	Dimensions (mm)									Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	F	I	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max		Screw ISO4762 TA (Nm)	Screw ISO4017 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	65	4-16	6-14 10#	30	M3 1.4	M3 2.1	24	0.7	11690	0.24	0.6	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	93	10-22	12-20	40	M6/11	M5	41	1.2	8950	0.74	3.0	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
		85		14#		6	33											
-24	79	111.5	15-32	15-25	55	M6/11	M6	50	1.2	7630	1.42	8.7	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
		101.5		18#		8.5	40											
-28	94	135	19-38	20-35	65	M8/25	M6	59	2	6030	2.4	21	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
		121		27#		14	45											
-38	119	151	20-45	25-50	80	M8/25	M8	67	2	4980	4.6	69	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
		137		41#		20	53											
-42	129	175	28-45	35-55	95	M10	M8	76	2	4440	6.7	120	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9
						45#	70	26										

Material	inner cone: steel collet clamp: aluminium spider element: polyurethane 98 Sh A (red)
Hub Style	size 14 and 19: single slit** size 24, 28, 38, 42: double slit ** short lengths are automatically with single slits
Keyway	optional acc. DIN 6885 biggest bore marked with a #
Temperature Range	-30 °C ~ 90 °C

Safety Coupling

with collet clamp and outer cone

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EKA - 24 - 119.5 - 16H7 - 14H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range

C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)									Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	F	I	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max		Screw ISO4762 TA (Nm)	Screw ISO4017 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	67	4-16	5-14 10#	30	M3 1.4	M3 2.1	24	0.7	11690	0.24	0.6	12.5	3 - 7	5 - 10	0.09	+1.0 -0.5	0.9
-19	64	96	10-22	12-20	40	M6/11	M5	41	1.2	8950	0.73	3.0	17	5 - 15	10 - 30	0.06	+1.2 -0.5	0.9
		88		14#		M6/11	5.9	33										
-24	79	119.5	15-30	15-32	55	M6/11	M5	50	1.2	7630	1.41	8.6	60	12 - 35	20 - 60	0.10	+1.4 -0.5	0.9
		109.5		22#		M6/11	8.7	40										
-28	94	144	19-38	20-35	65	M8/25	M6	59	2	6030	2.4	21	160	50 - 130	65 - 150	0.11	+1.5 -0.7	0.9
		130		27#		M8/25	15	45										
-38	119	160	20-45	25-50	80	M8/25	M8	67	2	4980	4.5	67	325	60 - 200	150 - 300	0.12	+1.8 -0.7	0.9
		146		41#		M10/49	25	53										
-42	129	189	28-45	35-55	95	M10	M8	76	2	4440	6.8	120	450	80 - 250	200 - 500	0.14	+2.0 -1.0	0.9
				45#		70	36											

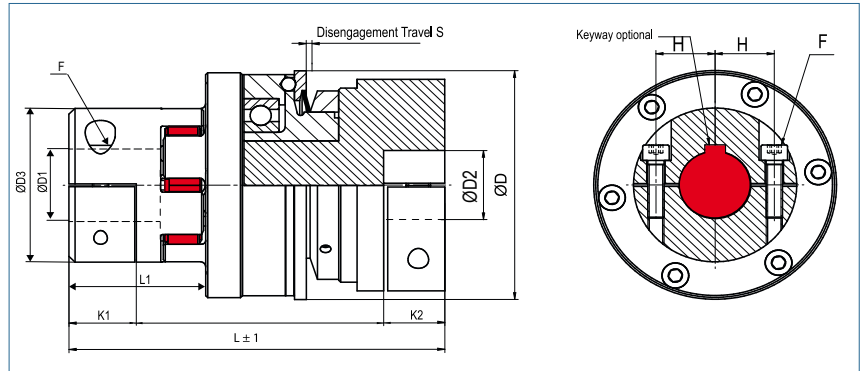


Material	outer cone: steel collet clamp: aluminium spider element: polyurethane 98 Sh A (red)
Hub Style	size 14 and 19: single slit** size 24, 28, 38, 42: double slit ** short lengths are automatically with single slits
Keyway	optional acc. DIN 6885 biggest bore marked with a #
Temperature Range	-30 °C ~ 90 °C

Safety Coupling

with split hubs

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EHH - 24 - 136 - 20H7 - 30H7 - 20Nm - C or D - 1

Type Size Length $\varnothing D1$ (H7) $\varnothing D2$ (H7) Disengagement Torque Torque Range

C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)											Technical Data								
	$\varnothing D$	L	$\varnothing D1$	$\varnothing D2$	$\varnothing D3$	$\frac{K1}{K2}$	F	I	L1	S	W	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer \varnothing	Length	Bore Size (H7) min-max	Bore Size (H7) min-max			Screw (ISO4762) TA (Nm)	Screw (ISO4762) TA (Nm)								1 TKN (Nm)	2 TKN (Nm)	radial ΔKr (mm)	axial ΔKa (mm)	angular ΔKw (°)
-14	49	73	4-14	6-25	30	8	M4	M4	24	0.7	56	11690	0,39	1,2	12,5	3 - 7	5 - 10	0.09	+1.0	0.9
						9	5	4,5											-0.5	
-19	64	112	8-20	10-32	40	19	M6	M6	40	1.2	75	8950	0,98	4,3	17	5 - 15	10 - 30	0.06	+1.2	0.9
				30*		17	10	15											-0.5	
-24	79	136	10-28	12-35	55	22	M6	M8	50	1.2	92	7630	1,84	12,2	60	12 - 35	20 - 60	0.10	+1.4	0.9
						22	10	40											-0.5	
-28	94	160	14-38	12-44	65	25	M8	M10	59	2	110	6030	2,94	28,8	160	50 - 130	65 - 150	0.11	+1.5	0.9
						24	25	72											-0,7	
-38	119	185	18-45	30-50	80	33	M8	M12	67	2	122	4980	5,8	92	325	60 - 200	150 - 300	0.12	+1.8	0.9
						30	25	125											-0,7	
-42	129	215	22-50	25-65	95	36	M10	M12	76	2	143	4440	9,47	190	450	80 - 250	200 - 500	0.14	+2.0	0.9
						35	49	125											-1.0	



Material collet clamp: aluminium
spider element: polyurethane 98 Sh A (red)

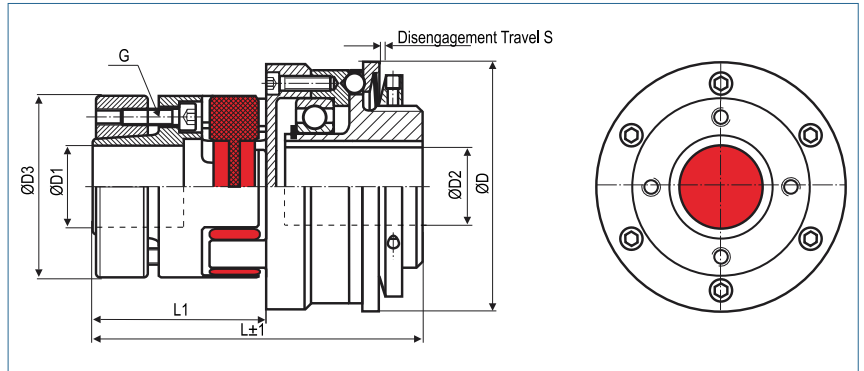
Keyway optional acc. DIN 6885
biggest bore marked with a #

Temperature Range -30 °C ~ 120 °C

Safety Coupling

with outer cone and keyway

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EAP - 24 - 98.5 - 16H7 - N15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range
 C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)								Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	G	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max		Screw ISO4762 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	63	6-14	6-13	30	M3	32	0.7	11690	0.26	0.6	12.5	3 - 7	5 - 10	0.09	+1.0	0.9
		58	10#			1.34	27						-0.5				
-19	64	81	10-19	10-16	40	M4	41	1.2	8950	0.71	2.9	17	5 - 15	10 - 30	0.06	+1.2	0.9
		76	13#			2.9	36						-0.5				
-24	79	98.5	15-28	15-24	55	M5	50	1.2	7630	1.45	8.9	60	12 - 35	20 - 60	0.10	+1.4	0.9
		91.5	18#			6	43						-0.5				
-28	94	121	19-38	19-29	65	M5	59	2	6030	2.4	21	160	50 - 130	65 - 150	0.11	+1.5	0.9
		114	30#			6	52						-0.7				
-38	119	135	20-45	20-42	80	M6	67	2	4980	4.6	69	325	60 - 200	150 - 300	0.12	+1.8	0.9
		126	37#			10	58						-0.7				
-42	129	157	28-50	20-50	95	M8	76	2	4440	8.9	158	450	80 - 250	200 - 500	0.14	+2.0	0.9
		145.5	41#			35	64						-1.0				



Material collet clamp: aluminium
 outer cone: steel
 spider element: polyurethane 98 Sh A (red)

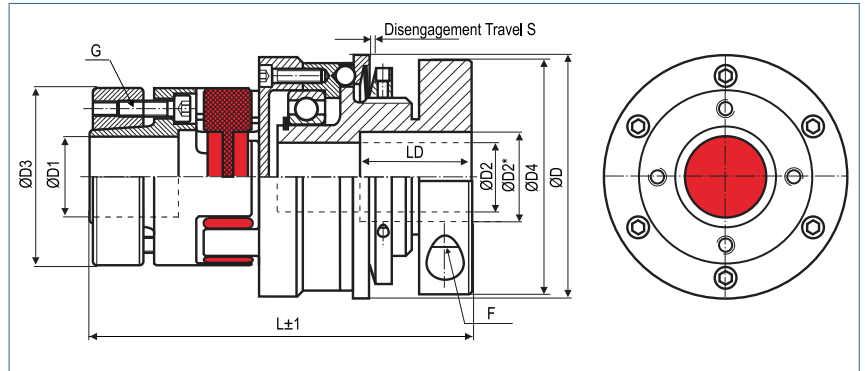
Keyway optional acc. DIN 6885
 biggest bore marked with a #

Temperature Range -30 °C ~ 90 °C

Safety Coupling

with outer cone and collet clamp

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EAK - 24 - 126.5 - 16H7 - 14H7 - 20Nm - C or D - 2

Type	Size	Length	ØD1 (H7)	ØD2 (H7)	Disengagement Torque	Torque Range
						C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)										Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	Ø D4	G	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min-max	Bore Size (H7) min-max			Screw ISO4762 TA (Nm)	Screw ISO4762 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	73	6-14	6-16	30	40.5	M3	M4	32	0.7	11690	0.29	0.7	12.5	3 - 7	5 - 10	0.09	+1.0	0.9
		68	10#	11#			1.34	5	27						-0.5				
-19	64	100	10-19	10-20	40	56	M4	M6	41	1.2	8950	0.85	3.5	17	5 - 15	10 - 30	0.06	+1.2	0.9
		95	13#	14#			2.9	15	36						-0.5				
-24	79	126.5	15-25	12-28	55	66	M5	M8	50	1.2	7630	1.67	10.2	60	12 - 35	20 - 60	0.10	+1.4	0.9
		119.5	18#	21#			6	36	43						-0.5				
-28	94	142	19-38	14-35	65	82	M5	M10	59	2	6030	3.4	30	160	50 - 130	65 - 150	0.11	+1.5	0.9
		135	30#	27#			6	72	52						-0.7				
-38	119	160	20-45	30-50	80	110	M6	M12	67	2	4980	6.5	98	325	60 - 200	150 - 300	0.12	+1.8	0.9
		151	37#	41#			10	125	58						-0.7				
-42	129	195	28-50	35-56	95	122	M8	M12	76	2	4440	11.5	204	450	80 - 250	200 - 500	0.14	+2.0	0.9
		183	41#	46#			35	125	64						-1.0				

Bore > Ø D2 and ≤ D2* only over LD

Material collet clamp: aluminium
outer cone: steel
spider element: polyurethane 98 Sh A (red)

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

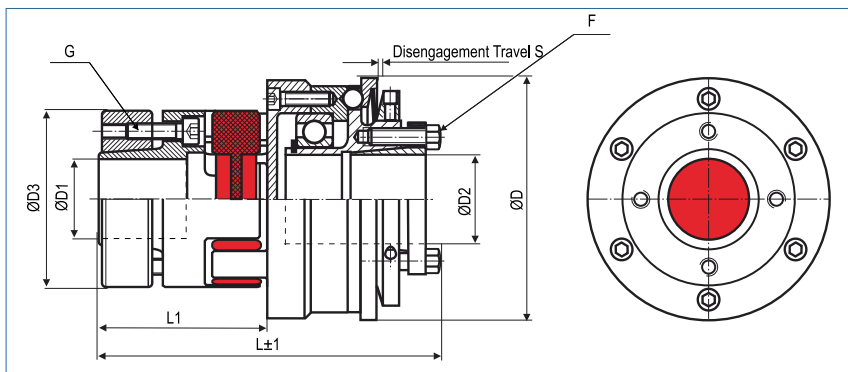
Temperature Range -30 °C ~ 90 °C

Size	14	19	24	28	38	42
D2*	20	26	31	38	57	62
LD	20	28	38	34	42	56

Safety Coupling

with outer cone and inner cone

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EAI - 24 - 111.5 - 16H7 - 15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range

C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)									Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	G	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min-max	Bore Size (H7) min-max		Screw ISO4762 TA (Nm)	Screw ISO4017 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	73	6-14	6-14	30	M3	M3	32	0.7	11690	0.29	0.7	12.5	3 - 7	5 - 10	0.09	+1.0	0.9
		68	10#	10#		1.34	2.1	27	-0.5									
-19	64	93	10-19	12-20	40	M4	M5	41	1.2	8950	0.80	3.3	17	5 - 15	10 - 30	0.06	+1.2	0.9
		88	13#	14#		2.9	6	36	-0.5									
-24	79	111.5	15-25	15-25	55	M5	M6	50	1.2	7630	1.63	10	60	12 - 35	20 - 60	0.10	+1.4	0.9
		104.5	18#	18#		6	8.5	43	-0.5									
-28	94	135	19-38	20-35	65	M5	M6	59	2	6030	2.7	24	160	50 - 130	65 - 150	0.11	+1.5	0.9
		128	30#	27#		6	14	52	-0.7									
-38	119	152	20-45	25-45	80	M6	M8	67	2	4980	5.4	81	325	60 - 200	150 - 300	0.12	+1.8	0.9
		143	37#	37#		10	20	58	-0.7									
-42	129	175	28-50	35-55	95	M8	M8	76	2	4440	9.7	173	450	80 - 250	200 - 500	0.14	+2.0	0.9
		163.5	42#	45#		35	26	64	-1.0									

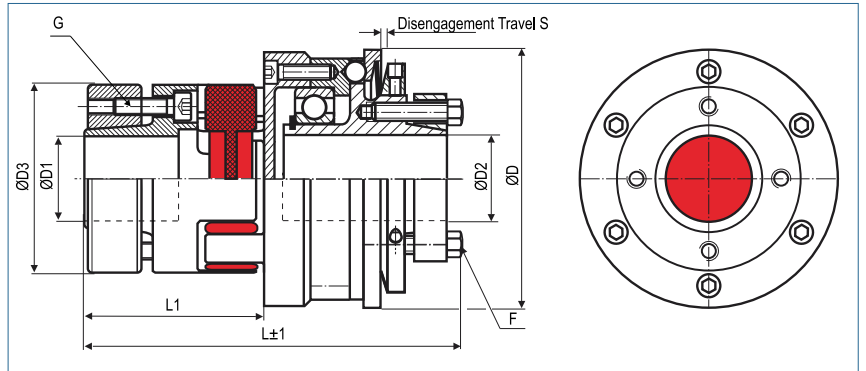


Material	inner cone: steel collet clamp: aluminium outer cone: steel spider element: polyurethane 98 Sh A (red)
Keyway	optional acc. DIN 6885 biggest bore marked with a #
Temperature Range	-30 °C ~ 90 °C

Safety Coupling

with two outer cones

optional
nickel-plated version
optional full stainless
steel version



Order Code

KBK/EAA - 24 - 119.5 - 16H7 - 15H7 - 20Nm - C or D - 2

Type Size Length ØD1 (H7) ØD2 (H7) Disengagement Torque Torque Range
 C = Single Position D = Multi Position Engagement

Size	Dimensions (mm)									Technical Data								
	ØD	L	Ø D1	Ø D2	Ø D3	G	F	L1	S	max. speed (1/min)	Mass (kg)	Moment of Inertia J (kg cm ²)	Torque 98 Sh TKN (Nm)	Torque Range		Misalignment		
	Outer Ø	Length	Bore Size (H7) min~max	Bore Size (H7) min~max		Screw ISO4762 TA (Nm)	Screw ISO4017 TA (Nm)							1 TKN (Nm)	2 TKN (Nm)	radial Δ Kr (mm)	axial Δ Ka (mm)	angular Δ Kw (°)
-14	49	75	6-14	5-14	30	M3	M3	32	0.7	11690	0.29	0.7	12.5	3 - 7	5 - 10	0.09	+1.0	0.9
		70	10#	10#		1.34	2.1	27						-0.5				
-19	64	96	10-19	12-20	40	M4	M5	41	1.2	8950	0.79	3.2	17	5 - 15	10 - 30	0.06	+1.2	0.9
		91	13#	14#		2.9	6	36						-0.5				
-24	79	119.5	15-25	15-30	55	M5	M5	50	1.2	7630	1.62	9.9	60	12 - 35	20 - 60	0.10	+1.4	0.9
		112.5	18#	24#		6	8.7	43						-0.5				
-28	94	143.5	19-38	20-35	65	M5	M6	59	2	6030	2.8	24	160	50 - 130	65 - 150	0.11	+1.5	0.9
		136.5	30#	27#		6	15	52						-0.7				
-38	119	160	20-45	25-50	80	M6	M8	67	2	4980	5.3	79	325	60 - 200	150 - 300	0.12	+1.8	0.9
		151	37#	42#		10	25	58						-0.7				
-42	129	189	28-50	35-55	95	M8	M8	76	2	4440	9.8	174	450	80 - 250	200 - 500	0.14	+2.0	0.9
		177.5	42#	45#		35	36	64						-1.0				

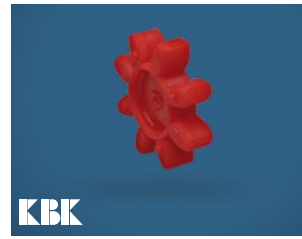
Material outer cone: steel
 outer cone: steel
 spider element: polyurethane 98 Sh A (red)

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

Temperature Range -30 °C ~ 90 °C

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 to +120

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

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