



Cross section of KTR products

Couplings

Torque Limiters

Clamping Elements

Made for Motion



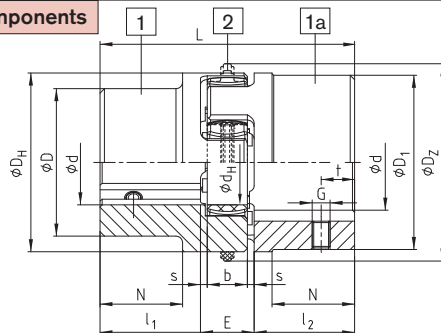
www.ktr.com

ROTEX® Type 001



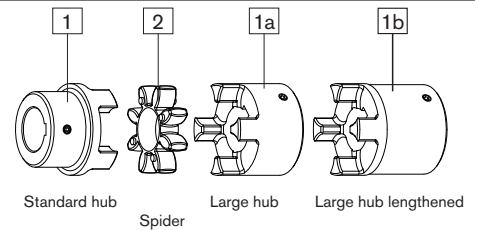
- Torsionally flexible, maintenance-free
- Damping vibrations
- Fail-safe, axial plug-in
- High variation of components/individual adaptation possible
- Finish bore according to ISO fit H7, feather keyway according to DIN 6885 sheet 1 - JS9
- Approved according to EC Standard 94/9/EC (without aluminium AL-D)
- Mounting instructions under www.ktr.com

Components



Spider
as hardness 92 Sh-A
and 95/98 Sh-A
standard from size
14 - 100 and 64 Sh-D
size 14 - 180

**elements DZ (double
tooth elements)**
as hardness 92 Sh-A
and 95 Sh-A
standard from size 110 -
180



NEW

ROTEX® Type 001

Size	Component	Spider (part 2) ¹⁾ Rated torque [Nm]			Material/max. bore diameter Ød _{max} [mm]				Dimensions general [mm]							
		92 Sh A	95/98 Sh A	64 Sh D ²⁾	Al-D	EN-GJL-250	EN-GJL-400-15	Steel	Sintered Steel	L	l ₁ ; l ₂	E	s	D _H ³⁾	D; D ₁ ³⁾	D _Z
14	1a	7,5	12,5	16	16 ⁴⁾			16	14	35	11	13	1,5	30	30	—
	1b									50	18,5					
19	1				19					66	25			41	32	
	1a	10	17	21	24			25	24	90	37	16	2,0	(40)	41 (40)	—
24	1b									118	50			56	56 (55)	—
	1				24					90	35			66	48	
28	1a	35	60	75	28			35		140	60	20	2,5	(65)	66 (65)	—
	1b															
38	1					40		48		114	45			80	66 (70)	
	1a	190	325	405		48		48		164	70	24	3,0		78 (80)	—
42	1b															
	1				45			55		126	50			95	75 (85)	
48	1a	265	450	560		55		55		176	75	26	3,0		94 (95)	—
	1b															
55	1				52			62		140	56				85 (95)	
	1a	310	525	655		62		62		188	80	28	3,5	105	104 (105)	—
65	1b															
	1				60			74		160	65				98 (110)	
75	1a	410	685	825		74		74		210	90	30	4,0	120	118 (120)	—
	1b															
90	1				70			80		185	75			135	115	
	1a	625	940	1175		80		80		235	100	35	4,5	135	135	—
100	1b															
	1				80			95		210	85			160	135	
110	1a	1280	1920	2400						260	110	40	5,0	160	160	—
	1b															
125	1				97			110		245	100	45	5,5	200	160	
	1a	2400	3600	4500						295	125			200	200	218
140	1b															
	1									270	110	50	6,0	225	180	246
160	1a	3300	4950	6285		115				295	120	55	6,5	255	200	276
	1b															
180	1									340	140	60	7,0	290	230	315
	1a	4800	7200	9000		125				375	155	65	7,5	320	255	345
	1b															
	1									425	175	75	9,0	370	290	400
	1a	12800	19200	24000		185				475	195	85	10,5	420	325	450
	1b															

¹⁾ Maximum torque of the coupling T_{Kmax} = rated torque of the coupling T_{KNom} x 2.
³⁾ Values for steel hubs and sintered steel hubs in brackets

²⁾ 64 Sh D spider not with Al-D/EN-GJL-250 hubs
⁴⁾ Material Al-H

Further types: A-H, CF, DKM, ZS-DKM-H

Standard ROTOX® also made from stainless steel, for example for the food-processing industry

Order form:

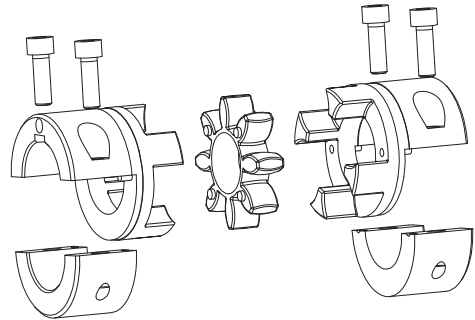
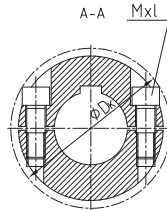
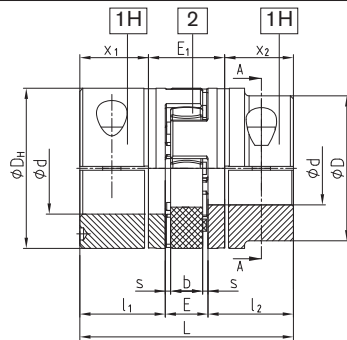
ROTEX® -38	St	92	1	—	Ø 45	1	—	Ø 25
Coupling size	Material	Spider hardness Shore A]	Hub design		Finish bore	Hub design		Finish bore

ROTEX® Type A-H



- Assembly/disassembly by means of 4 screws only
- Exchange of spider with no need to shift the driving and driven side (motor and pump)
- Finish bore according to ISO fit H7, feather keyway according to DIN 6885 sheet 1 - JS9
- Approved according to EC Standard 94/9/EC (type 7.8 shell clamping hub without feather key according to category 3)
- Mounting instructions under www.ktr.com

Components



ROTEX® Type A-H

Size	Component	Finish bore Ød _{max.} [mm]	Dimension [mm]										Cyl. screw DIN EN ISO 4762 - 12.9	
			L	l ₁ ; l ₂	E	b	s	D _H	D	D _{K1}	x ₁ /x ₂	E ₁	MxL	T _A [Nm]
19	1H	20	66	25	16	12	2,0	40	-	46	17,5	31	M6x16	14
24	1H	28	78	30	18	14	2,0	55	-	57,5	22,5	33	M6x20	14
28	1H	38	90	35	20	15	2,5	65	-	73	25,5	39	M8x25	35
38	1H	45	114	45	24	18	3,0	80	-	83,5	35,5	43	M8x30	35
42	1H	55	126	50	26	20	3,0	95	85	97	39	48	M10x30	69
48	1H	60	140	56	28	21	3,5	105	95	108,5	45	50	M12x35	120
55	1H	70	160	65	30	22	4,0	120	110	122	50	60	M12x40	120
65	1H	80	185	75	35	26	4,5	135	115	132,5	60	65	M12x40	120
75	1H	90	210	85	40	30	5,0	160	135	158	67,5	75	M16x50	295
90	1H	110	245	100	45	34	5,5	200	160	197	81,5	82	M20x60	580
100 ¹⁾	1H	110	270	110	50	38	6,0	225	180	185,5	84	102	M16x50	295
110 ¹⁾	1H	120	295	120	55	42	6,5	255	200	208	90	119	M20x60	580
125 ¹⁾	1H	140	340	140	60	46	7,0	290	230	242,5	105	130	M24x70	1000

Further types



ROTEX® SBAN
Shaft coupling with disk for
braking caliper



ROTEX® CF
Compact design
Connection flange/shaft

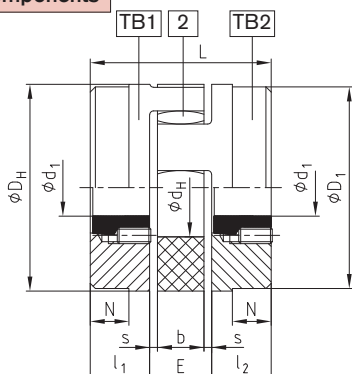


ROTEX® DKM
Compensating for extremely high
misalignments, Easy assembly
Small shaft distance dimension



ROTEX® ZR
to bridge very big shaft distances, shaft distance
dimension as per customer's details

Components



ROTEX® type No. 001 with taper clamping bush

Size	Taper clamping bush	Dimensions [mm]										Fixing screw for taper bush			
		$l_1; l_2$	E	s	b	L	N	D_H	D_1	d_H	Size [Inch]	Length [mm]	Number		
28	1108	23	20	2,5	15	66	—	65	65	30	1/4" ^a	13	2	5,7	
38	1108	23	24	3,0	18	70	15	80	78	38	1/4" ^a	13	2	5,7	
42	1610	26	26	3,0	20	78	16	95	94	46	3/8" ^a	16	2	20	
48	1615	39	28	3,5	21	106	28	105	104	51	3/8" ^a	16	2	20	
55	2012	33	30	4,0	22	96	20	120	118	60	7/16" ^a	22	2	31	
75	2517	52	40	5,0	30	144	36	160	135	80	1/2" ^a	25	2	49	
	3020	52	40	5,0	30	144	36	160	135	80	5/8" ^a	32	2	92	

• Only available for design TB 2

• 1. BSW thread

Coupling type TB 1/1; TB 2/2; TB 1/2 possible

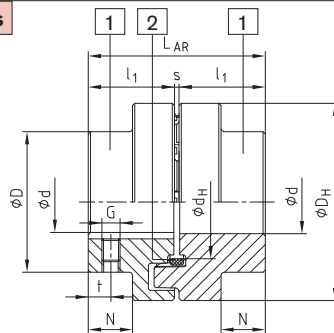
• Please order our separate dimension sheet (M 373054).

POLY-NORM® Type AR and ADR

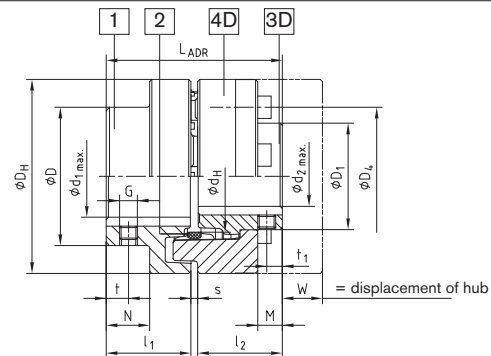


- Torsionally flexible, reduces vibrations
- Failsafe
- Maintenance-free
- Very short design
- Axial plug-in
- According to DIN 740
- Approved according to EC Standard 94/9/EC (Explosion Certificate ATEX 95)
- Detailed mounting instructions and further information available at www.ktr.com

Components



Type AR (2-part design)



Type ADR (3-part design), Elastomer ring to be replaced while being assembled

POLY-NORM® Type AR and ADR

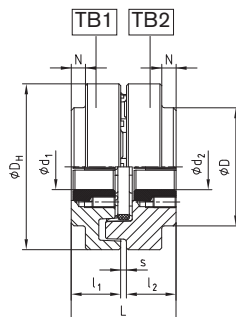
Size	Elastomer ring (part 2) Torque		Finish bore		Dimensions [mm]													
					General										Thread for setscrew			
	T _{KN}	T _{Kmax}	d ₁ max.	d ₂ max.	L _{AR}	L _{ADR}	l ₁ ; l ₂	s	D _H	d _H	D	D ₄	D ₁	N	G	t	t ₁	T _A [Nm]
28	40	80	28	—	59	—	28	3	69	36,5	46	36,5	—	12	M5	7	—	2
32	60	120	32	—	68	—	32	4	78	41,5	53	41,5	—	14	M8	7	—	10
38	90	180	38	32	80	80	38	4	87	50	62	50	48	19,5	M8	10	7	10
42	150	300	42	35	88	88	42	4	96	55,5	69	55,5	54	20	M8	10	7	10
48	220	440	48	42	101	101	48	5	106	64	78	64	62	24	M8	15	7	10
55	300	600	55	48	115	115	55	5	118	73	90	73	72	29	M8	14	14	10
60	410	820	60	55	125	125	60	5	129	81	97	81	80	33	M8	15	15	10
65	550	1100	65	60	135	135	65	5	140	86	105	86	86	36	M10	20	20	17
75	850	1700	75	65	155	155	75	5	158	100	123	100	98	42,5	M10	20	20	17
85	1350	2700	85	75	175	175	85	5	182	116	139	116	112	48,5	M10	25	25	17
90	2000	4000	90	85	185	185	90	5	200	128	148	128	122	49	M12	25	25	40
100	2900	5800	100	90	206	206	100	6	224	143	165	143	136	55	M12	25	25	40
110	3900	7800	50-110	100	226	226	110	6	250	158	185	158	150	60	M16	30	30	80
125	5500	11000	55-125	110	256	256	125	6	280	178	210	178	168	70	M16	35	35	80
140	7200	14400	65-140	55-130	286	286	140	6	315	216	235	216	195	76,5	M20	35	35	140
160	10000	20000	75-160	65-150	326	326	160	6	350	246	265	246	225	94,5	M20	45	45	140
180	13400	26800	75-180	65-170	366	366	180	6	400	290	300	290	255	111,5	M20	50	50	140

¹⁾ Standard material perbunan (NBR) 78 Shore A, size 140 - 180 double tooth elastomers

²⁾ Bore H7 with keyway DIN 6885 sheet 1 [JS9] and threads for setscrews on the feather keyway.

³⁾ Refer to medium bore

Components



POLY-NORM® with taper clamping sleeve

Size	Taper clamping sleeve	Dimensions [mm]		Fixing screws ¹⁾ for taper sleeve				Size	Taper clamping sleeve	Dimensions [mm]		Fixing screws ¹⁾ for taper sleeve			
		max. d ₁ ; d ₂	l ₁ ; l ₂	Größe [Zoll]	Länge [mm]	SW [mm]	T _A [Nm]			max. d ₁ ; d ₂	l ₁ ; l ₂	Größe [Zoll]	Länge [mm]	SW [mm]	T _A [Nm]
32	1108	25	25,5	1/4"	13	3	5,7	85	2517	60	46,5	1/2"	25	6	49
48	1610	40	30,0	3/8"	16	5	20	90	3020	75	52,0	5/8"	32	8	92
60	2012	50	42,5	7/16"	16	5	20	100	3535	90	98,0	1/2"	38	10	115
75	2517	60	52,5	1/2"	25	6	49	125	4040	100	111,5	5/8"	45	12	172

Coupling design
Combination possible

TB 1 Cam-sided screwing
Please ask for our separate data sheet M407045

TB 2 Verschraubung bundseitig

¹⁾ 2 fixing screws except for 3535/4040 3 fixing screws.

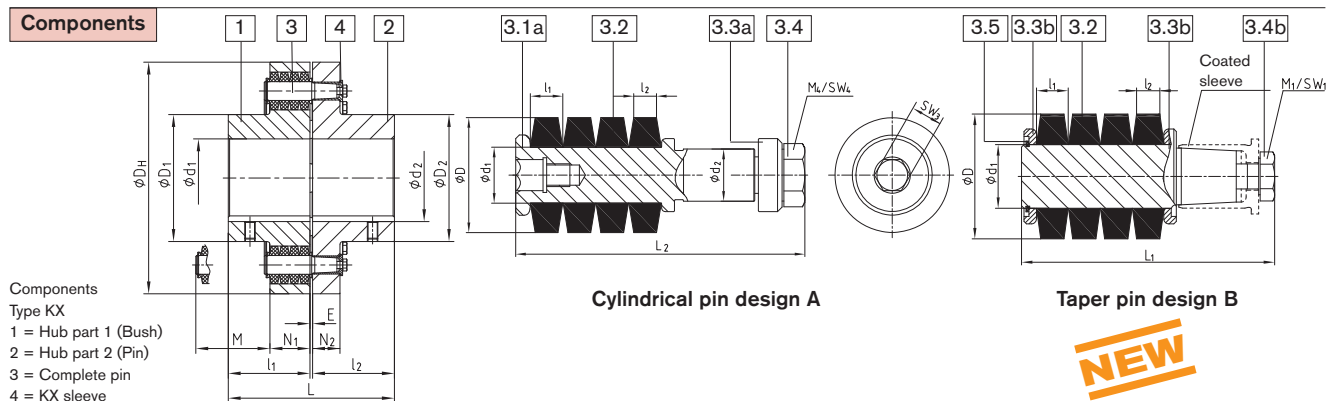
Order form:

POLY-NORM® 65	AR	Ø38	Ø30
Coupling size	Type	Finish bore	Finish bore

REVOLEX® KX



- Torsionally flexible, maintenance free
- Vibration-reducing
- Radial assembly/disassembly
- Axial plug-in, failsafe
- All-side machining → good dynamical features
- Short design
- Protected surfaces
- Elastomers made of NBR
- Standard hub material EN-GJL-250, (EN-GJS-400-15 or steel on request)
- Approved according to EC Standard 94/9/EC (Explosion Certificate ATEX 95)



REVOLEX® KX																	
Size	Torques ¹⁾ [Nm]		max. speed ²⁾ [rpm]	Finish bore [min. - max.]		Dimensions [mm]										Moment of inertia ³⁾ [kgm²]	Approx. weight ³⁾ [kg]
	T _{KN}	T _{Kmax.}		d ₁	d ₂	L	l ₁ :l ₂	E	D _H	D ₁	D ₂	N ₁	N ₂	M*			
KX 105	6485	12970	2000	34-110	34-125	237	117	3	330	180	202	56	30	15	0,771	61,5	
KX 120	10080	20160	1800	50-125	50-145	270	132	6	370	206	232	76	46	40	1,611	96,3	
KX 135	14030	28060	1600	70-140	70-150	300	147	6	419	230	240	76	46	30	2,685	123	
KX 150	17960	35920	1450	82-160		336	165	6	457	256	260	76	46	10	3,887	162	
KX 170	26360	52720	1250	95-180		382	188	6	533	292	292	92	63	35	9,165	273	
KX 190	36160	72320	1100	110-205		428	211	6	597	330	330	92	63	10	14,765	360	
KX 215	48160	96320	1000	125-230		480	237	6	660	368	368	92	63	0	22,771	465	
KX 240	65740	131480	900	140-250		534	264	6	737	407	407	122	76	25	43,484	695	
KX 265	91480	182960	800	160-285		590	292	6	826	457	457	122	76	0	70,143	910	
KX 280	123530	247060	720	180-315		628	311	6	927	508	508	122	76	0	112,637	1183	
KX 305	152840	305680	675	180-330		654	324	6	991	533	533	122	76	0	146,974	1369	
KX 330	188470	376940	625	200-355		666	330	6	1067	572	572	122	76	0	198,005	1598	
KX 355	230110	460220	575	225-380		718	356	6	1156	610	610	122	76	0	293,894	2069	
KX 370	302500	605000	535	225-450		770	382	6	1250	720	720	122	76	4	433,554	2629	

Technical data pin																	
Size	Pin			Component 3.2			Component 3.1a / 3.1b					Component 3.4/3.4b				Screw tightening torque T _A [Nm]	
	Size	Number		Elastomer ring NBR 80 Shore A			Pin					Screw DIN EN ISO 4017					
		KX	KX-D	D	l ₁	l ₂	d ₁	d ₂	L ₁	L ₂	SW ₃	M ₁	SW ₁	M ₄	SW ₄	A	B
KX 105	3	12	16	50,0	12,7	9,0	25,40	25,40	101	116	17	M10	16	M16	24	290	67
KX 120	4	10	14														
KX 135	4	12	16	63,0	17,8	12,5	30,60	28,57	147,5	158,5	17	M12	18	M20	30	560	115
KX 150	4	14	18														
KX 170	5	10	14														
KX 190	5	12	16	85,5	22,9	15,2	43,20	41,30	190	205	17	M16	24	M24	36	970	290
KX 215	5	14	18														
KX 240	6	10	14														
KX 265	6	12	16														
KX 280	6	14	18														
KX 305	6	16	20	113,7	30,5	20,3	58,40	57,20	242	255	17	M24	36	M27	41	1450	970
KX 330	6	18	24														
KX 355	6	20	26														
KX 370	6	24	30														

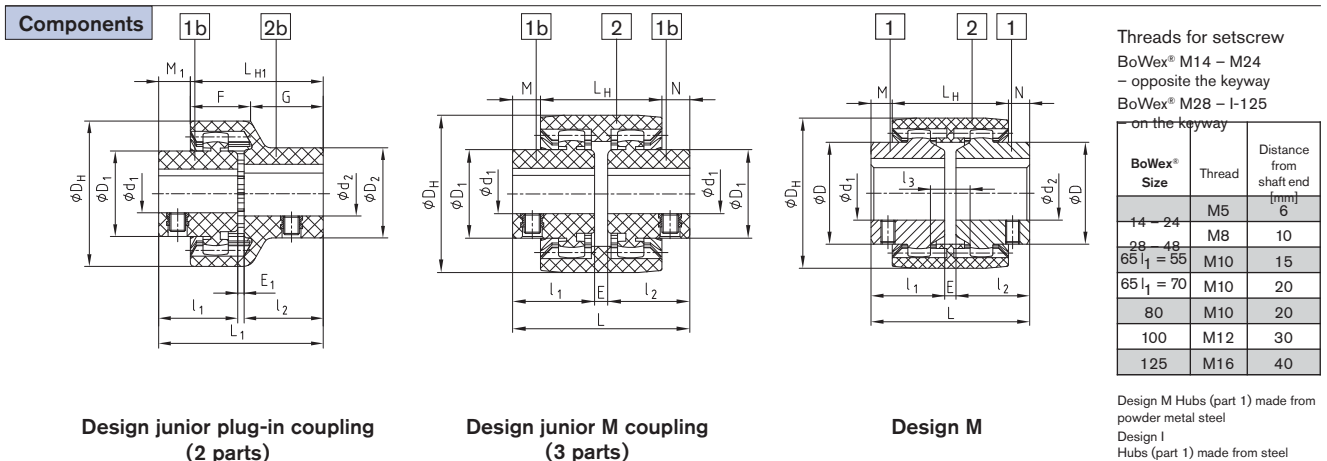
* Drop-out center dimension ¹⁾ Standard material NBR 80 Shore A ²⁾ Higher speeds on request ³⁾ Relating to max. bore
 Finish bore according to ISO fit H7, feather keyway according to DIN 6885 sheet 1 - JS9.

Order form:	REVOLEX® KX 170	Teil 1 Ø120	Teil 2 Ø150
	Coupling type/size	Finish bore Bush	Finish bore Pin

BoWex® Type junior Steckkupplung, type junior M, type M and type M...C



- Curved-tooth gear coupling plug-in design (2 parts) and double cardanic curved-tooth gear coupling junior M (3 parts) from nylon, type M from steel
- Maintenance-free, operating range - 25 °C to + 100 °C
- Compensating for shaft misalignment, Axial plug-in – easy assembly
- Finish bore for standard shafts including keyway acc. to DIN 6885 sh. 1 and thread for setscrews, bore tolerances junior - 0,1 to + 0,05, feather key + 0,08, H7 fit and keyway tolerance JS9 only with steel/ powder metal steel
- ☒ Type M...C with carbon fiber reinforced PA up to size M-65C, low backlash, higher torques and approved according to EC Standard 94/9/EC (Explosion Certificate ATEX 95)



Technical data BoWex® junior																			
Size	Torque [Nm]		Finish bore				Dimensions [mm]												
	T _{KN}	T _{Kmax.}	Hub part 1b d ₁	D ₁	Plug-in sleeve part 2b d ₂	D ₂	D _H	l ₁ ; l ₂	E ₁	L ₁	L _{H1}	M ₁	F	G	E	L	L _H	M; N	max. speed [rpm]
BoWex® junior 14	5	10	∅ 6, ∅ 7, ∅ 8, ∅ 9	22	∅ 8	22	40	23	2	48	40	8	18,5	21,5	4	50	37	6,5	6000
BoWex® junior M-14			∅ 10, ∅ 11	25	∅ 10, ∅ 11	25													
			∅ 12, ∅ 14	26	∅ 12, ∅ 14	26													
BoWex® junior 19	8	16	∅ 12, ∅ 14	27	∅ 14, ∅ 15	29	47	25	2	52	42	10	19,0	23,0	4	54	37	8,5	6000
BoWex® junior M-19			∅ 16	30															
			∅ 19	32	∅ 19	35													
BoWex® junior 24	12	24	∅ 10, ∅ 11, ∅ 12	26	∅ 16, ∅ 14	32	53	26	2	54	45	9	21,5	23,5	4	56	41	7,5	6000
BoWex® junior M-24			∅ 14, ∅ 15, ∅ 16	32															
			∅ 18, ∅ 19, ∅ 20	36	∅ 19, ∅ 20	36													
			∅ 24	38	∅ 24	40													

Technical data BoWex® M and BoWex® Bauart M...C																
Size Ex		Torque [Nm] Type M		Torque [Nm] Type M...C		Pilot bored	Finish bore d ₁ ; d ₂ max.	Dimensions [mm]							Leng- thened l ₁ , l ₂ max.	max. speed [rpm]
		T _{KN}	T _{Kmax.}	T _{KN}	T _{Kmax.}			l ₁ ; l ₂	E	L	L _H	M; N	D	D _H		
M-14	M-14C	10	30	15	45	–	15	23	4	50	37	6,5	25	40	40	14000
M-19	M-19C	16	48	24	72	–	20	25	4	54	37	8,5	32	47	40	11800
M-24	M-24C	20	60	30	90	–	24	26	4	56	41	7,5	36	53	50	10600
M-28	M-28C	45	135	70	210	–	28	40	4	84	46	19	44	65	55	8500
M-32	M-32C	60	180	90	270	–	32	40	4	84	48	18	50	75	55	7500
M-38	M-38C	80	240	120	360	–	38	40	4	84	48	18	58	83	60	6700
M-42		100	300			–	42	42	4	88	50	19	65	92	60	6000
M-48	M-48C	140	420	200	600	–	48	50	4	104	50	27	68	95	60	5600
M-65	M-65C	380	1140	560	1680	26, 70 lg.	65	55	4	114	68	23	96	132	70	4000
I-80		700	2100			31	80	90	6	186	93	46,5	124	175	–	3150
I-100		1200	3600			35	100	110	8	228	102	63	152	210	–	3000
I-125		2500	7500			45	125	140	10	290	134	78	192	270	–	2120

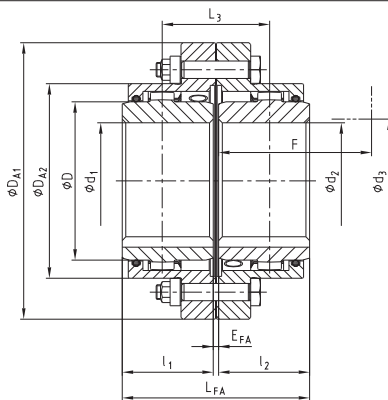
Order form:

BoWex® M-28	d ₁ ∅ 20	d ₂ ∅ 28
Size and type of coupling	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)	Finish bore H7 keyway to DIN 6885 sheet 1 (JS9)

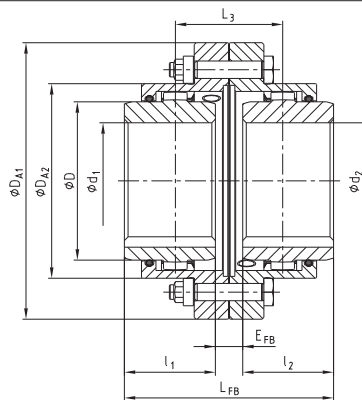
GEAREX Type FA, type FB and type FAB



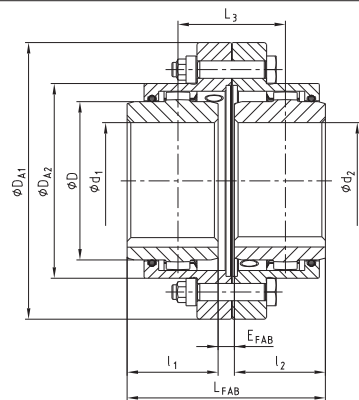
- Double-cardanic crowned gear coupling
- To be used on all applications in general engineering
- Compensating for shaft misalignment axial – radial – angular
- Available with finish bore to ISO, feather key according to DIN 6885 sheet 1, taper and inch bores
- For horizontal assembly
- Higher torques to be realized by special materials
- Approved according to EC Standard 94/9/EC (Explosion Certificate ATEX 95)



Type FA



Type FB



Type FAB

GEAREX Type FA, FB and FAB

Size	Max. finish bore	Dimensions													Grease ²⁾ feeding [dm³]
		[mm]													
	d ₁ ; d ₂	l ₁ ; l ₂	E _{FA}	E _{FB}	E _{FAB}	L _{FA}	L _{FB}	L _{FAB}	L ₃	D	D _{A1}	D _{A2}	F ¹⁾	d ₃ ¹⁾	
10	50	43	3	21	12	89	107	98	55	67	111	84	74	52	0,02
15	64	50	3	15	9	103	115	109	59	87	152	107	84	68	0,04
20	80	62	3	31	17	127	155	141	79	108	178	129,5	104	85	0,08
25	98	76	5	29	17	157	181	169	93	130	213	156	123	110	0,12
30	112	90	5	33	19	185	213	199	109	153	240	181	148	130	0,18
35	133	105	6	40	21,5	216	250	233	128	180	280	211	172	150	0,22
40	158	120	6	42	24	246	282	264	144	214	318	249,5	192	175	0,35
45	172	135	8	50	29	278	320	299	164	233	347	274	216	190	0,45
50	192	150	8	56	32	308	356	332	182	260	390	307	241	220	0,70
55	210	175	8	70	39	358	420	389	214	283	425,5	332,5	275	250	0,90
60	232	190	8	84	46	388	464	426	236	312	457	364	316	265	1,15
70	276	220	10	76	43	450	516	483	263	371	527	423,5	360	300	1,50

Technical data

Size	Torque [Nm]		Max. speed [rpm]	Weight with max. bore-Ø [kg]			Massmoment of inertia J with max. bore-Ø [kgm ²]	Dowel screws (10.9)		
	T _{KN}	T _{Kmax.}		Sleeve	Hub	Total		z	M	T _A [Nm]
10	930	1860	8500	0,748	0,553	2,73	0,00436	6	M6	15
15	2000	4000	7700	1,878	1,119	6,38	0,01894	8	M8	36
20	3500	7000	6900	2,602	2,089	9,94	0,04000	6	M10	72
25	6500	13000	6200	4,432	3,564	16,83	0,09749	6	M12	125
30	10000	20000	5800	5,829	6,184	25,21	0,18080	8	M12	125
35	17000	34000	5100	9,705	9,868	41,25	0,41419	8	M14	200
40	28500	57000	4500	11,883	16,065	58,14	0,75535	8	M14	200
45	37000	74000	4000	15,724	21,419	77,08	1,17590	10	M14	200
50	51000	102000	3750	25,661	29,594	114,40	2,24991	8	M18	430
55	65000	130000	3550	31,522	40,304	150,41	3,45102	14	M18	430
60	85000	170000	3400	32,822	52,960	177,44	4,16734	14	M18	430
70	135000	270000	3200	43,521	85,768	268,20	9,32429	16	M20	610

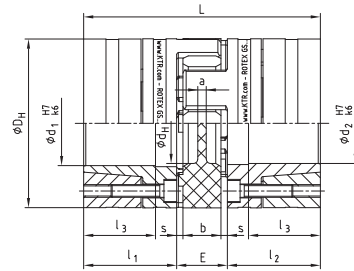
¹⁾ Required space to align the coupling or replace the sealing ring, respectively.

²⁾ Grease feeding for each coupling half

Order form:

GEAREX FA 10	d ₁ Ø 50	d ₂ Ø 50
Size and type of coupling	Finish bore keyway DIN 6885 sheet 1	Finish bore keyway DIN 6885 sheet 1

ROTEX® GS Clamping ring hubs light



Tack thread
M₁ between
clamping
screws

- Backlash-free shaft coupling with integrated clamping system
- Low weight and low mass moment of inertia due to a design fully made from aluminium
- High smoothness of running, application up to a peripheral speed of 40 m/s
- For more detailed assembly instructions and other details please look at www.ktr.com

NEW NEW	Size	Torque [Nm] ¹⁾				Dimensions [mm]										Clamping screws				Weight per hub with max. bore [kg]	Mass moment of inertia per hub with max. bore [kg m ²]	
		92 Sh A		98 Sh A		D _H ²⁾	d _H	L	l ₁ ; l ₂	l ₃	E	b	s	a	M	number z	T _A [Nm]	M ₁				
		T _{KN}	T _{Kmax}	T _{KN}	T _{Kmax}																	
3) Hub material – Aluminium (Al-H) Clamping ring material – Aluminium (Al-H)																						
	14	7,5	15	12,5	25	30	10,5	50	18,5	13,5	13	10	1,5	2,0	M3	4	1,34	3	M4	0,032	0,04 x 10 ⁻⁴	
	19	10	20	17	34	40	18	66	25	18	16	12	2,0	3,0	M4	6	3	M4	0,077	0,19 x 10 ⁻⁴		
	24	35	70	60	120	55	27	78	30	22	18	14	2,0	3,0	M5	4	6	M5	0,162	0,78 x 10 ⁻⁴		
	28	95	190	160	320	65	30	90	35	27	20	15	2,5	4,0	M5	8	6	M5	0,240	1,70 x 10 ⁻⁴		
	38	190	380	325	650	80	38	114	45	35	24	18	3,0	4,0	M6	8	10	M6	0,490	5,17 x 10 ⁻⁴		
	42	265	530	450	900	95	46	126	50	35	26	20	3,0	4,0	M8	4	25	M8	0,772	11,17 x 10 ⁻⁴		
	48	310	620	525	1050	105	51	140	56	41	28	21	3,5	4,0	M10	4	49	M10	1,066	18,81 x 10 ⁻⁴		
Bore d ₁ /d ₂ and the corresponding transmittable friction torques T _R of clamping ring hub in [Nm] ¹⁾																						
NEW NEW	Size	Ø6	Ø10	Ø11	Ø14	Ø15	Ø16	Ø19	Ø20	Ø24	Ø25	Ø28	Ø30	Ø32	Ø35	Ø38	Ø40	Ø42	Ø45	Ø48	Ø50	Ø55
	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	

¹⁾ Please note coupling selection on our company catalogue ²⁾ ØD_H + 2 mm with high speeds for expansion of spider

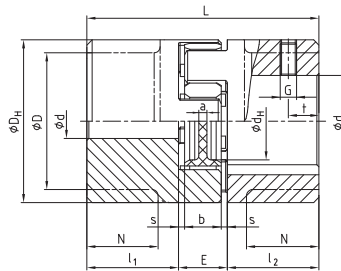
³⁾ In case of using the spider 64 Sh D-GS resp. short dimensioning we recommend the application of clamping ring hubs made of steel.

The transmittable torques of the clamping connection consider the max. clearance with shaft fit k6 / bore H7. With bigger clearance the torque is reduced.

As shaft material – steel or spheroidal iron with a yield point of approx. 250 N/mm² or more can be used.

For the stiffness calculation of the shaft/hollow shaft see KTR standard 45510 at our homepage www.ktr.com.

ROTEX® GS Backlash-free shaft coupling



- Servo coupling for CNC axes of positioning and main spindle drives for machine tools
- Axial plug-in - easy blind assembly;
- Small dimensions – low flywheel mass
- Available with feather key or various systems which are frictionally engaged, e. g. clamping hub
- For more detailed assembly instructions and other details please look at www.ktr.com

⁴⁾ Figures for 95 Sh A - GS

⁵⁾ Ø > 20 = 2 x clamping screw M4

Design

1.0 with keyway and thread

1.1 without keyway with thread

Clamping hub:
Design up to size 14 standard:
2.0 single cut without keyway
2.1 single cut with keyway

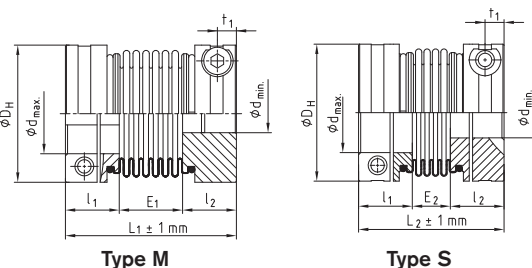
Clamping hub
Design from size 19 standard
2.5 two cuts without keyway
2.6 two cuts with keyway

* Use of DIN 84 screw, tightening torque T_A not defined (slotted screw)

Size	Torque [Nm]		Finish bore		Dimensions [mm]												Set screw		Clamping screw			
	98 Sh A-GS		Hub designs		D	D _H	d _H	L	l ₁ , l ₂	N	E	b	s	a	G	t	M ₁	t ₁	D _K ⁶⁾	T _A		
	T _{KN}	T _{Kmax}	1.x	2.x																		
			d _{max}	d _{max.}																		
Hub material – Aluminium (Al-H)																						
5	0,9	1,7	–	5	–	10	–	15	5	–	5	4	0,5	4,0	M2	2,5	M1,2	2,5	11,4	–*		
7	2	4	7	7	–	14	–	22	7	–	8	6	1,0	6,0	M3	3,5	M2,0	3,5	16,5	0,37		
9	5	10	10	11	–	20	7,2	30	10	–	10	8	1,0	1,5	M4	5,0	M2,5	5,0	23,4	0,76		
12	9	18	12	12	–	25	8,5	34	11	–	12	10	1,0	3,5	M4	5,0	M3	5,0	27,5	1,34		
14	12,5	25	15	16	–	30	10,5	35	11	–	13	10	1,5	2,0	M4	5,0	M3	5,0	32,2	1,34		
19	17	34	24	24 ²⁾	–	40	18	66	25	–	16	12	2,0	3,0	M5	10	M6	12,0	46	10,5		
24	60	120	28	28	–	55	27	78	30	–	18	14	2,0	3,0	M5	10	M6	10,5	57	10,5		
28	160	320	38	38	–	65	30	90	35	–	20	15	2,5	4,0	M8	15	M6	11,5	73	25		
38	325	650	45	45	–	80	28	114	45	–	24	18	3,0	4,0	M8	15	M6	15,5	83	25		
Hub material – Steel (St-H)																						
42	450	900	55	48	85	95	46	126	50	28	26	20	3,0	4,0	M8	20	M10	18	94	69		
48	525	1050	62	55	95	105	51	140	56	32	28	21	3,5	4,0	M8	20	M12	21	105	120		
55	685	1370	74	65	110	120	60	160	65	37	30	22	4,0	4,5	M10	20	M12	26	120	120		
65	940 ⁴⁾	1880 ⁴⁾	80	70	115	135	68	185	75	47	35	26	4,5	4,5	M10	20	M12	33	124	120		
75	1920 ⁴⁾	3840 ⁴⁾	95	80	135	160	80	210	85	53	40	30	5,0	5,0	M10	25	M16	36	147,5	295		

Finish bore according to ISO fit H7, feather keyway according to DIN 6885 sheet 1 - JS9

TOOLFLEX® Metall bellow-type coupling



- Backlash-free, torsionally stiff
- Suitable for high temperatures due to flanged insert connection (max. 200 °C)
- Good resistance to corrosion due to bellow made from stainless steel and aluminium clamping hubs
- Also available as TOOLFLEX® miniature coupling
- For more detailed assembly instructions and other details please look at www.ktr.com

TOOLFLEX® Type M and type S

Size	Dimensions [mm]											
	Finish bore		General						Clamping screw			
	d _{min.}	d _{max.}	L ₁	L ₂	I ₁ , I ₂	E ₁	E ₂	D _H	M ₁	D _K ⁽¹⁾	t ₁	T _A [Nm]
16	5	16	49	45	17	15	11	32	M4	35,0	5	2,9
20	8	20	62	55	21,5	19	12	40	M5	43,5	6	6
30	10	30	72	63	23	26	17	55	M6	58,0	7	10
38	14	38	81	69	25,5	30	18	65	M8	72,6	9	25
42	14	42	95	84	30	35	24	70	M8	76,1	9	25
45	14	45	103	86,5	32	39	22,5	83	M10	89,0	11	49
55 ⁴⁾	15	55	125	111	40	45	31	100	M12	106,0	14	120

Technical data

Size	Torque [Nm] T _{KN}	Speed [rpm] n ⁴⁾	Type M/S								Perm. displacements						Type M/S	
			Moment of inertia ⁵⁾ [x 10 ⁻⁶ kgm ²]		Torsional stiffness [Nm/rad]		Axial spring stiffness [N/mm]		Radial spring stiffness [N/mm]		Bauart M/S						Mass ³⁾ [x 10 ⁻³ kg]	
											Axial [mm]		Radial [mm]		Angular [°]			
16	5	14900	10	9	3050	4500	29	43	92	138	±0,5	±0,3	0,20	0,15	1,5	1,0	61	61
20	15	11950	32	30	6600	9600	42	63	126	189	±0,6	±0,4	0,20	0,15	1,5	1,0	144	121
30	35	8700	123	114	14800	17800	65	97	155	233	±0,8	±0,5	0,25	0,20	2,0	1,5	306	243
38	65	7350	262	245	24900	37400	72	108	212	318	±0,8	±0,6	0,25	0,20	2,0	1,5	448	351
42	95	6820	427	396	36500	54700	80	120	333	499	±0,8	±0,6	0,25	0,20	2,0	1,5	520	485
45	150	5750	1020	931	64000	95800	88	132	492	738	±1,0	±0,9	0,30	0,25	2,0	1,5	1125	824
55 ⁴⁾	340	4800	5118	4996	96100	144100	107	160	598	894	±1,0	±1,0	0,30	0,25	2,0	1,5	3300	3213

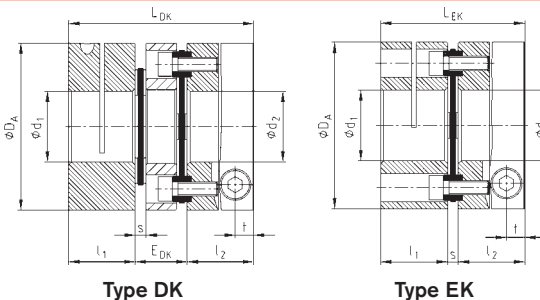
¹⁾ Biggest outside diameter due to screw head

³⁾ Details referring to the overall coupling with max. bore

²⁾ with v = 25 m/s

⁴⁾ Hubs from steel welded to the bellow

RADEX®-NC Servo laminae coupling



- Backlash-free torque transmission
- Higher torsional stiffness
- Backlash-free shaft-hub-connection
- Low mass moment of inertia
- High speeds
- Operating temperatures up to 200 °C
- Compact design
- For more detailed assembly instructions and other details please look at www.ktr.com

RADEX-NC Bauart DK und Bauart EK

Size	Dimensions [mm]								Clamping screw		Mass moment of inertia	
	max. d ₁ , d ₂	D _A	I ₁ , I ₂	L _{DK}	E _{DK}	L _{EK}	s	t	M	T _A [Nm]	DK [kgm ²]	EK [kgm ²]
5	10	26	12	34	10	26,5	2,5	3,5	M2,5	0,8	0,000004	0,000003
10	15	35	16	44	12	35	3	5,0	M4	3	0,000014	0,00001
15	20	47	21	55	13	45	3	6,8	M6	10	0,000054	0,00004
20	25	59	24	67	19	52	4	6,5	M6	10	0,00019	0,00015
25	35	70	32	88	24	69	5	9,0	M8	25	0,00046	0,00035
35	40	84	35	98	28	77	7	10,5	M10	49	0,0010	0,0008
42	55	104	40	116	36	91	11	10,5	M10	69	0,0075	0,0062

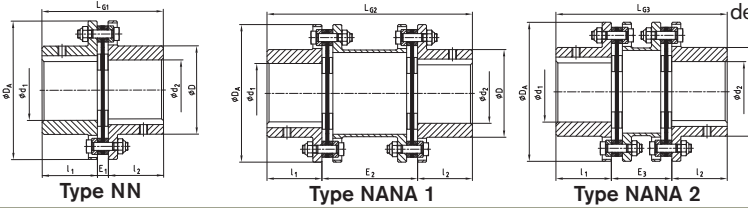
Technical data

Size	T _{KN} [Nm]	T _K max. [Nm]	Max. speed [rpm]	Torsion. stiffness [Nm/rad]		Displacement type DK			Displacement type EK		
						Radial [mm]	Axial [mm]	Angular [°]	Radial [mm]	Axial [mm]	Angular [°]
				Type EK	Type DK						
5	2,5	5	25000	2400	1200	0,10	0,4	1	–	0,2	1
10	7,5	15	20000	5600	2800	0,14	0,8	1	–	0,4	1
15	20	40	16000	12000	6000	0,16	1,0	1	–	0,5	1
20	30	60	12000	30000	15000	0,25	1,2	1	–	0,6	1
25	60	120	10000	60000	30000	0,30	1,6	1	–	0,8	1
35	100	200	9000	72000	36000	0,40	2,0	1	–	1,0	1
42	180	360	7000	120000	60000	0,50	2,8	1	–	1,4	1

RADEX®-N Steel laminae coupling

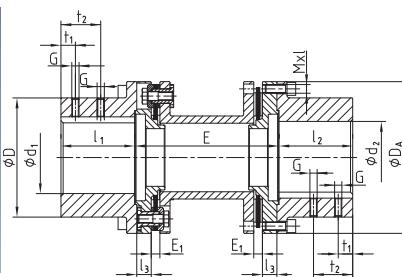


- Backlash-free and maintenance-free steel coupling
- Temperature-resistant up to 280°C
- Compensating for high misalignments with low restoring forces
- Laminae are made from stainless spring steel
- Shaft distance dimensions up to 6 m possible
- For more detailed assembly instructions and details please look at www.ktr.com



RADEX®-N Type NN, Type NANA 1 and Type NANA 2													
Size	Torque [Nm]			max. Finish boe [mm]		Dimensions [mm]							
	T _{KN}	T _{Kmax.}	T _{KW}	d ₁ , d ₂		D	D _A	l ₁ , l ₂	L _{G1}	E ₁	L _{G2}	E ₂	L _{G3} , E ₃
20	15	30	5	20		32	56	20	45	5	100	60	—
25	30	60	10	25		40	68	25	56	6	110	60	—
35	60	120	20	35		54	82	40	86	6	150	70	—
38	120	240	40	38		58	94	45	98	8	170	80	—
42	180	360	60	42		68	104	45	100	10	170	80	—
50	330	660	110	50		78	126	55	121	11	206	96	—
60	690	1380	230	60		88	138	55	121	11	206	96	170
70	1100	2200	370	70		102	156	65	141	11	246	116	200
80	1500	3000	500	80		117	179	75	164	14	286	136	233
85	2400	4800	800	85		123	191	80	175	15	300	140	246
90	4500	9000	1500	90		132	210	80	175	15	300	140	251
105	5100	10200	1700	105		147	225	90	200	20	340	160	281
115	9000	18000	3000	115		163	265	100	223	23	370	170	309
135	12000	24000	4000	135		184	305	135	297	27	520	250	—
138	23000	46000	11500	135		180	300	135	293	23	acc. to customer's request		—
158	33000	66000	16500	150		195	325	150	327	27			—
168	45000	90000	22500	165		225	350	165	361	31			—
208	70000	140000	35000	200		275	420	200	437	37			—
248	120000	240000	60000	240		320	500	240	524	44			—
288	200000	400000	100000	280		383	567	280	612	52	—		—
338	280000	560000	140000	330		445	660	330	718	58			—

RIGIFLEX® -N Steel laminae coupling



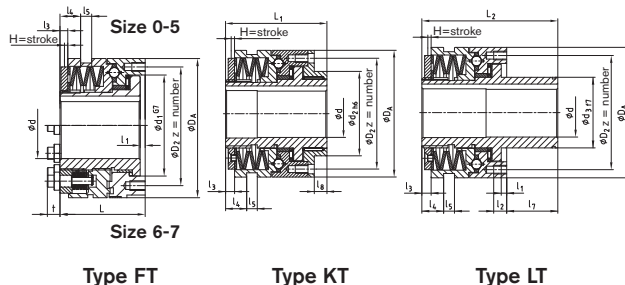
Type A

- Series for pump drives
- Spacers are supplied assembled by the manufacturer
- Coupling in accordance with API 610, API 671 optionally
- High balancing quality due to accurate machining (AGMA Class 9)
- For more detailed assembly instructions and other details please look at www.ktr.com

RIGIFLEX®-N Type A																			
Size	Torque [Nm]			max. Finish bore d ₁ /d ₂	Dimensions [mm]													Cyl. screws DIN EN ISO 4762 Mxl T _A	
	T _{KN}	T _{Kmax.}	T _{KW}		D	D _A	l ₁ /l ₂	l ₃	G	t ₁	t ₂	E ₁	E ¹⁾						
50	240	480	120	50	70	95	50	12	M6	10	-	9	100	140	-	-	-	M6x22	14
65	450	900	225	65	100	126	63	12	M8	20	-	10	100	140	180	-	-	M6x20	14
75	940	1880	470	75	105	138	62,5	12	M8	20	-	10	100	140	180	-	-	M8x20	35
85	1700	3400	850	85	120	156	72,5	15	M10	20	-	12	-	140	180	200	250	M8x25	35
110	2700	5400	1350	110	152	191	87	18	M10	25	-	12	-	140	180	200	250	M10x30	69
120	4500	9000	2250	120	165	213	102	20	M12	25	-	12	-	-	180	200	250	M12x30	120
140	9000	18000	4500	140	200	265	126	25	M12	30	-	15	-	-	-	200	250	M16x40	295
160	13000	26000	6500	160	230	305	145	31	M20	50	-	15	-	-	-	-	250	M16x50	295
168	23000	46000	11500	165	230	305	155	31	M16	30	70	17	acc. to customer's request					M20x50	490
198	30000	60000	15000	190	260	330	185	32	M16	40	90	24						M20x50	490
218	42500	85000	21500	210	285	370	205	32	M20	50	110	26						M20x50	490
258	70000	140000	35000	250	350	440	245	38	M20	70	130	31						M24x60	840
308	115000	230000	57500	300	400	515	294	43	M24	70	130	36						M27x70	1250
348	180000	360000	90000	340	460	590	333	55	M24	95	175	45	—					M30x120	1700
408	280000	560000	140000	400	530	675	392,5	58,5	M24	95	175	50						M36x100	2800

¹⁾ Other shaft distances available on request

KTR-SI Safety system



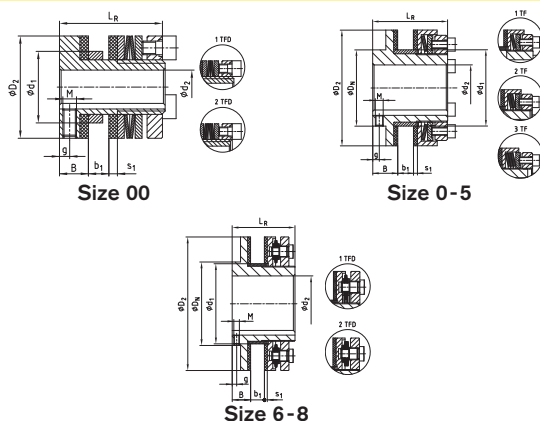
- Standard KTR-SI safety clutch suitable up to 8200 Nm
- Available as a ratchet, synchronous and failsafe design
- Furthermore available as a free switching design (no residual torque)
- For direct mounting of customers' components
- For more detailed assembly instructions and other details please look at www.ktr.com

KTR-SI																						
Size	Bore d		Dimensions [mm]																H = stroke			
	Pilot	Max.	d ₁	D ₂	D _A	d ₂	d ₃	l ₁	l ₂	l ₃	l ₄	l ₅	l ₇	l ₈	L	L ₁	L ₂	z	DK	SR	SGR	FR
0	7	20	41	48	55	38	28	4	6,5	3	7,5	9	27,5	8	38,5	51	66	6xM5	1,4	1,2	0,6	1,6
1	10	25	60	70	82	50	38	4	8	6	11,5	9	33	10	52	70	85	6xM5	2,3	1,8	0,8	2,3
2	14	35	78	89	100	60	52	5	10	5	12	9	39	12	61	78	100	6xM6	2,4	2,0	1,1	3,0
3	18	45	90,5	105	120	80	65	5	12	8,5	21	10	47	12	78	96	125	6xM8	2,7	2,2	1,2	3,5
4	24	55	105	125	146	100	78	6,5	15	11	27	9	52,5	16	100	124,5	152,5	6xM10 ¹⁾	3,7	2,5	1,2	3,8
5	30	65	120,5	155	176	120	90	6,5	17	12	33	9	57,5	18	113,5	140	171	6xM12 ¹⁾	4,6	3,0	1,6	4,5
6	40	80	136	160	200	130	108	7	20	14	39	9	64	20	119	150	183	6xM12 ¹⁾	5,0	3,5	2,5	–
7	50	100	168	200	240	160	135	8	25	15	46	9	72	25	141	175	213	6xM16 ¹⁾	5,5	4,0	2,7	–
Technical data																						
Size	Disk spring layers design DK				Disk spring layers design SR and SGR								Weight with max. bore [kg]									
	T1	T2	T3	T4	T1	T2	T3	T4														
0	2,5 - 5	5 - 20	–	20 - 40	5 - 10	10 - 40	–	–	0,41													
1	6 - 12	12 - 25	25 - 55	55 - 100	12 - 25	25 - 50	50 - 100	–	1,30													
2	12 - 25	25 - 50	50 - 120	120 - 200	25 - 50	50 - 100	100 - 200	–	2,27													
3	25 - 50	50 - 100	100 - 250	200 - 450	50 - 100	100 - 200	200 - 450	–	3,88													
4	50 - 100	100 - 200	200 - 500	500 - 1000	100 - 200	200 - 400	400 - 800	800 - 2000	8,34													
5	85 - 250	230 - 600	300 - 1000	600 - 2000	170 - 450	350 - 900	600 - 1800	1200 - 3400	13,51													
6	180 - 480	360 - 960	720 - 1950	1600 - 3300	300 - 750	600 - 1500	1200 - 3000	2900 - 5800	21,0													
7	250 - 520	500 - 1050	1000 - 2100	2000 - 3600	550 - 1100	1100 - 2200	2200 - 4400	3000 - 8200	37,0													

¹⁾ Type T4, SR and SGR: tightening torques according to 12.9

²⁾ Size 6: dimension t = 15 mm, Size 7: dimension t = 21 mm

RUFLEX® Torque limiter



- Torque limiter with high capacity due to high-quality materials
- Overload protection up to 6800 Nm
- High capacity of wear for a long service life
- Surfaces zinc-coated and yellow passivated
- For more detailed assembly instructions and other details please look at www.ktr.com

RUFLEX®																
Size	Max. speed [rpm]	Torque [Nm]			Dimensions [mm]											
		1TF	2TF	3TF	Bore d ₂		D ₂	D _N	d ₁	B	Driving component b ₁		s ₁	L _B	Setscrew	
					Pilot.	max.					min.	max.			g	M
00	10000	0,5-3	1-5	—	—	10	30	30	21	8,5	2	6	2,5	31	3	M4
0	8500	2-10	4-20	—	—	20	45	45	35	8,5	2	6	2,5	33	3	M4
01	6600	5-35	10-70	—	—	22	58	40	40	16	3	8	3	45	4	M5
1	5600	20-75	40-150	130-200	—	25	68	45	44	17	3	10	3	52	5	M5
2	4300	25-140	50-280	250-400	—	35	88	58	58	19	4	12	3	57	5	M6
3	3300	50-300	100-600	550-800	—	45	115	75	72	21	5	15	4	68	5	M6
4	2700	90-600	180-1200	1100-1600	—	55	140	90	85	23	6	18	4	78	5	M8
5	2200	400-800	800-1600	1400-2100	—	65	170	102	98	29	8	20	5	92	8	M8
6	1900	300-1200	600-2400	—	38	80	200	120	116	31	8	23	5	102	8	M8
7	1600	600-2200	1200-4400	—	45	100	240	150	144	33	8	25	5	113	8	M10
8	1300	900-3400	1800-6800	—	58	120	285	180	170	35	8	25	5	115	8	M10

-
- Technical drawing of a shaft-hub assembly showing dimensions for fit and geometry. The drawing includes the following labels:
- ϕd_1 : Outer diameter of the shaft.
 - ϕd : Diameter of the shaft at the fit location.
 - ϕd_w : Diameter of the shaft at the transition zone.
 - ϕD : Outer diameter of the hub.
 - B_1 : Length of the shaft section.
 - B_2 : Length of the hub section.
 - B_3 : Length of the transition zone.
 - B : Total length of the assembly.
 - Σ : Sum of the fit allowances.

Technical drawing of a shaft-hub assembly. The drawing shows a shaft of diameter ϕd passing through a hub of outer diameter ϕD . The total length of the hub is B , and the length of the shaft within the hub is B_1 . The shaft has a keyway, and the hub has a corresponding key. The drawing is a cross-section view.

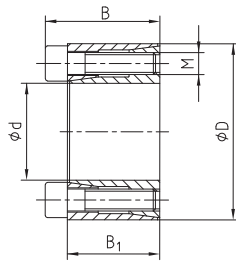
Technical drawing of a shaft-hub assembly. The drawing shows a shaft of diameter ϕd passing through a hub of outer diameter ϕD . The total width of the hub is B . The width of the shaft within the hub is B_1 . The width of the hub flange is B_2 . The drawing is a cross-section view.

KTR 131																	
Type d x D	B	B ₁	B ₂	SW	T _A [Nm]	T [Nm]	F _{ax} [kN]	P _N [Nm/rf]	Type d x D	B	B ₁	B ₂	SW	T _A [Nm]	T [Nm]	F _{ax} [kN]	P _N [Nm/rf]
5x12	19	15	9	14	10	10,1	4,0	119	18x30	36	27	17	36	161	223	24,8	145
6x12	19	15	9	14	10	12,1	4,0	119	19x30	36	27	17	36	161	235	24,8	145
8x14	22	17	11	17	17	23,4	5,8	121	20x30	36	27	17	36	161	248	24,8	145
10x18	24	19	12	22	35	48,6	9,7	127	22x38	41	30	20	46	250	349	31,8	122
12x20	24	19	12	22	44	65,3	10,9	128	24x38	41	30	20	46	250	381	31,8	122
14x24	28	22	15	27	65	93	13,3	107	25x38	41	30	20	46	250	397	31,8	122
15x24	28	22	15	27	65	99	13,3	107	30x42	44	33	23	50	355	605	40,4	123
16x24	28	22	15	27	65	106	13,3	107	32x50	51	38	28	55	490	764	47,8	112
									35x50	51	38	28	55	490	836	47,8	112

CLAMPEX® Shaft-hub-connection

KTR 105 self-centering

Compact internal clamping set
with short periods of assembly
and disassembly



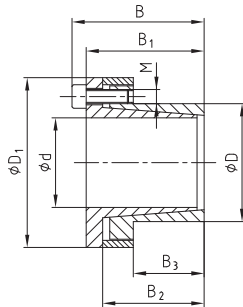
All dimensions in mm

¹⁾ These are the maximum screw tightening torques. They can be reduced to max. 40% of the aforementioned figures with T, F_{ax} and P_N being reduced proportionally.

KTR 105															
Type d x D	B	B ₁	M	T _A ¹⁾ [Nm]	T [Nm]	F _{ax} [kN]	P _N [Nmm]	Type d x D	B	B ₁	M	T _A ¹⁾ [Nm]	T [Nm]	F _{ax} [kN]	P _N [Nmm]
5x16	13,5	11	M2,5	1,2	6	3	61	17x35	25	21	M4	4,9	85	10	54
6x16	13,5	11	M2,5	1,2	8	3	61	18x35	25	21	M4	4,9	90	10	54
6,35x16	13,5	11	M2,5	1,2	8	3	61	19x35	25	21	M4	4,9	95	10	54
7x17	13,5	11	M2,5	1,2	9	3	58	20x38	26	21	M5	10	164	16	82
8x18	13,5	11	M2,5	1,2	10	3	54	22x40	26	21	M5	10	180	16	78
9x20	15,5	13	M2,5	1,2	16	3	54	24x47	32	26	M6	17	278	23	75
9,53x20	15,5	13	M2,5	1,2	16	3	54	25x47	32	26	M6	17	289	23	75
10x20	15,5	13	M2,5	1,2	17	3	54	28x50	32	26	M6	17	486	35	105
11x22	15,5	13	M2,5	1,2	19	3	50	30x55	32	26	M6	17	520	35	96
12x22	15,5	13	M2,5	1,2	21	3	50	32x55	32	26	M6	17	555	35	96
14x26	20	17	M3	2,2	40	6	52	35x60	37	31	M6	17	810	46	101
15x28	20	17	M3	2,2	43	6	48	38x65	37	31	M6	17	879	46	93
16x32	21	17	M4	4,9	80	10	74	40x65	37	31	M6	17	925	46	93
								48x80	44	36	M8	41	2052	85	119
								50x80	44	36	M8	41	2137	85	119

KTR 250 self-centering

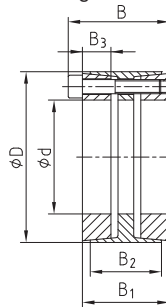
Clamping set suitable for hubs with a
small wall thickness



Available as a standard from type 6 x 14 to 130 x 165

KTR 400 self-centering

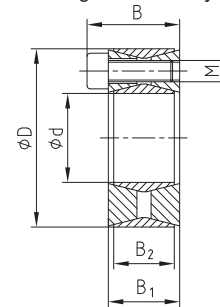
Clamping set suitable for
high loads



Available as a standard from type 24x50 to 400x495

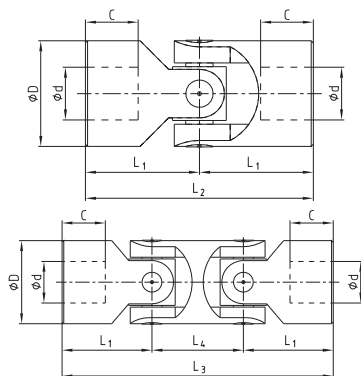
KTR 100 not self-centering

no axial shifting of the hub
during the assembly



Available as a standard from type 18x47 to 400x495

KTR Precision joints



- Type G and H precision single joint
- Type GD and HD precision double joint
- Maximum articulation angle 45° for each joint
- Type G and GD: up to max. 1000 min⁻¹
- bearings designed as plain bearings
- Type H and HD: up to max. 4000 min⁻¹
- bearings designed as needle bearings, maintenance-free
- high dynamic load - small bearing clearance
- Available with finish bore H7 - on request with keyway, hexagon bore (SW) or square bore (Q)
- Other types on request (extendable, with quick locking, stainless steel)

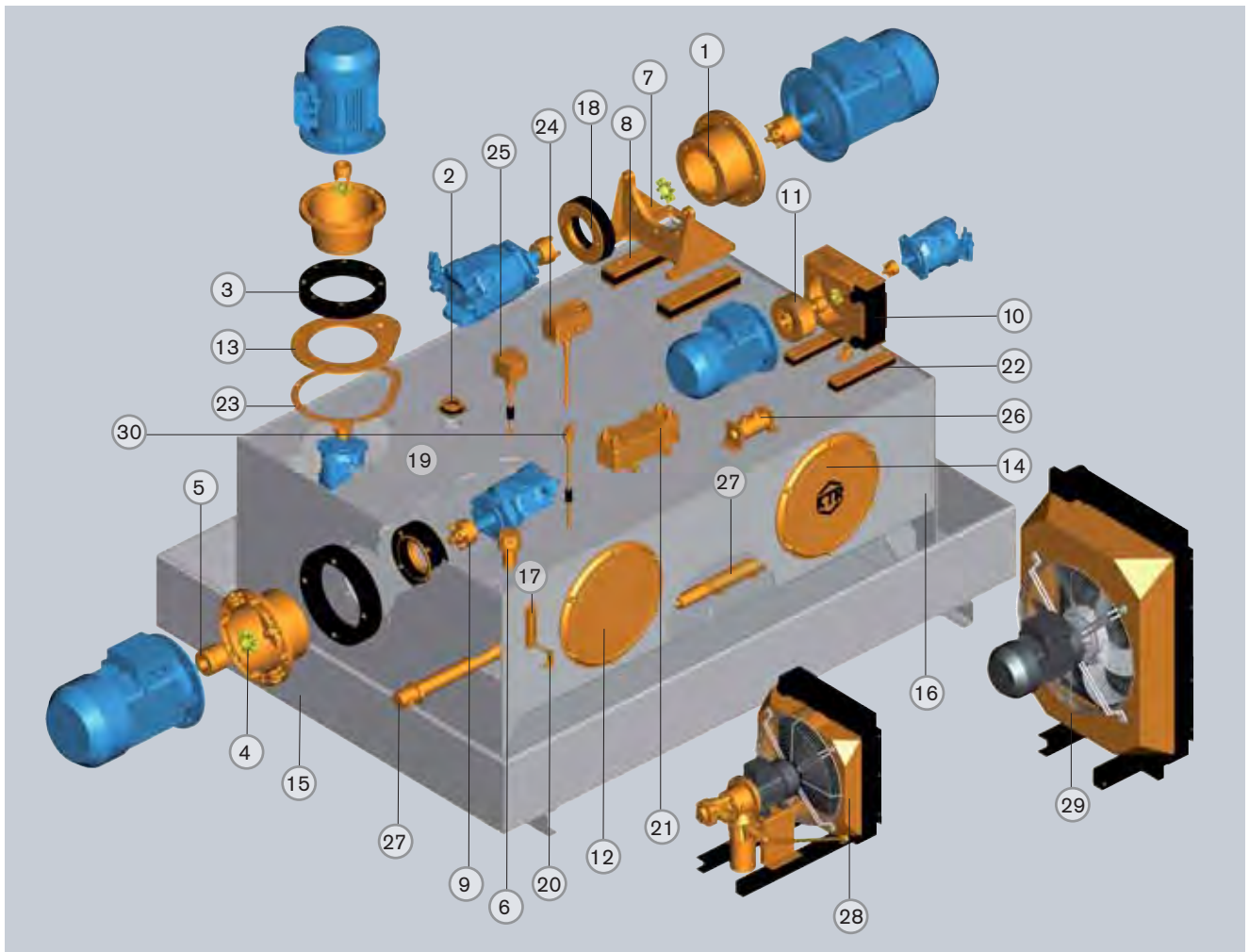
KTR Precision joints																		
Bauarten und Größe								d	D	L ₂	L ₁	C	L ₄	L ₃	a	b	Q	SW
Size	Type	DIN description to G	DIN description to H	Type	DIN description to GD	DIN description to HD		[H7]							[JS9]		[H8]	[H8]
01	G	-	E6 x 16-G	GD	-	D6 x 16-G	-	6	16	34	17	8	22	56	2	7,0	6	6
02	G	-	E8 x 16-G	GD	-	D8 x 16-G	-	8	16	40	20	11	22	62	2	9,0	8	8
03	G	H	E10 x 22-G	GD	HD	D10 x 22-G	D10 x 22-W	10	22	48	24	12	26	74	3	11,4	10	10
04	G	H	E12 x 25-G	GD	HD	D12 x 25-G	D12 x 25-W	12	25	56	28	13	30	86	4	13,8	12	12
05	G	H	E14 x 28-G	GD	HD	D14 x 28-G	D14 x 28-W	14	28	60	30	13	36	96	5	16,3	14	14
1	G	h	E16 x 32-G	GD	HD	D16 x 32-G	D16 x 32-W	16	32	68	34	16	36	104	5	18,3	16	16
2	G	H	E18 x 36-G	GD	HD	D18 x 36-G	D18 x 36-W	18	36	74	37	17	40	114	6	20,8	18	18
3	G	H	E20 x 42-G	GD	HD	D20 x 42-G	D20 x 42-W	20	42	82	41	18	46	128	6	22,8	20	20
4	G	H	E22 x 45-G	GD	HD	D22 x 45-G	D22 x 45-W	22	45	95	47,5	22	50	145	6	24,8	22	22
5	G	H	E25 x 50-G	GD	HD	D25 x 50-G	D25 x 50-W	25	50	108	54	26	55	163	8	28,3	25	25
6	G1	H1	E30 x 58-G	GD1	HD1	D30 x 58-G	D30 x 58-W	30	58	122	61	29	68	190	8	33,3	30	30
6	G	H	E32 x 58-G	GD	HD	D32 x 58-G	D32 x 58-W	32	58	130	65	33	68	198	10	35,3	30	30
7	G	H	E35 x 70-G	GD	HD	D35 x 70-G	D35 x 70-W	35	70	140	70	35	72	212	10	38,3	-	-
8	G	H	E40 x 80-G	GD	HD	D40 x 80-G	D40 x 80-W	40	80	160	80	40	85	245	12	43,3	-	-
9	G	H	E50 x 95-G	GD	HD	D50 x 95-G	D50 x 95-W	50	95	190	95	50	100	290	14	53,8	-	-

Overview Hydraulik Components

KTR offers a wide range of components for stationary hydraulics in mechanical engineering, plant engineering and construction of vehicles. There is a wide choice of products from KTR thus reducing the number of suppliers you need to transact with. We can provide you with a vast range of products by means of one-stop-shopping, including bellhousings and cooling systems. In addition to a range of standard products we can supply you with special sizes and customised designs; following your dimensions; in a word – KTR.

KTR hydraulic components provide for highest power in a tiny space. The same applies for our delivery times and prices: less is more. We do

not make any compromises regarding quality, long service life and variety. That is why our standard product range covers almost every demand and application:



- | | |
|---|--|
| 1 Bellhousing type PK/PL | 16 Steel tanks type BSK/BNK/BEK |
| 2 Elastic flange | 17 Oil-level indicator type KO |
| 3 Damping ring design DT | 18 Damping ring type D |
| 4 ROTEX® spider | 19 Machining of tank according to customer specification |
| 5 ROTEX® coupling hub, motor side | 20 Temperature switch type TS |
| 6 Filler breather (with ventilation filter) | 21 PHE-Plate heat exchanger |
| 7 Foot flange type PTFS (VDMA 24 561 part 1) | 22 Damping rod design DSK for PIK |
| 8 Damping rod design DSFS for foot flange type PTFS | 23 Gasket type DZ for additional flange type ZO |
| 9 ROTEX® coupling hub, pump side | 24 Industrial controller IR |
| 10 Bellhousing PIK with integrated oil cooler | 25 IRDN Digital industrial control with level switch |
| 11 Fan for PIK | 26 Horizontally mounted cooler TAK |
| 12 Standard cleaning cover | 27 Tank heaters |
| 13 Additional flange type ZO | 28 OPC Cooling-pump-unit with hydraulic pump filter |
| 14 Cleaning cover with logo according to customer specification | 29 OAC-Oil/air coller |
| 15 Oil sump pan | 30 Level-temperatur-switch NVT |

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