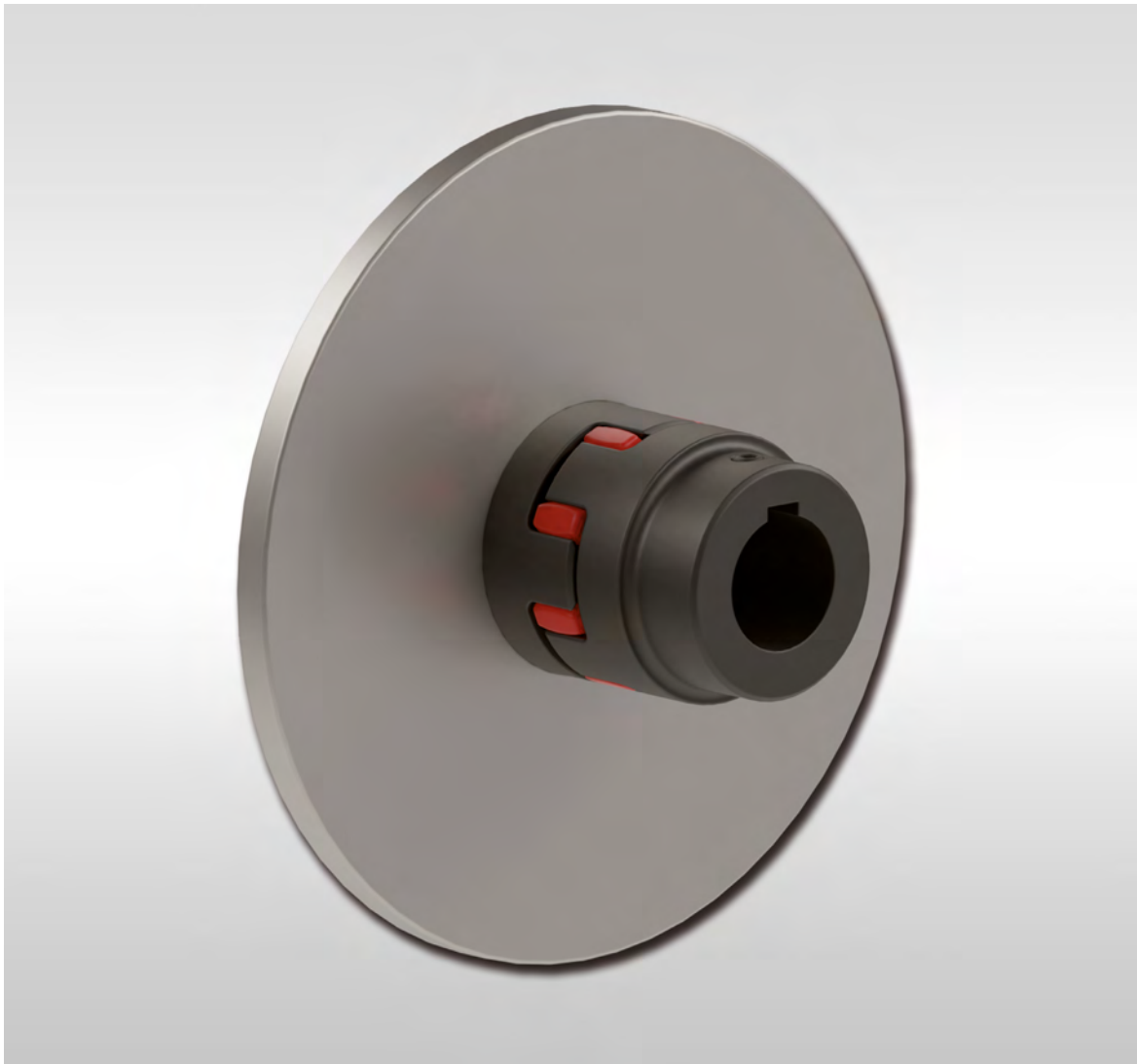


Jaw Couplings REK ... DCS

elastic for dynamic applications
with curved jaws and brake disc



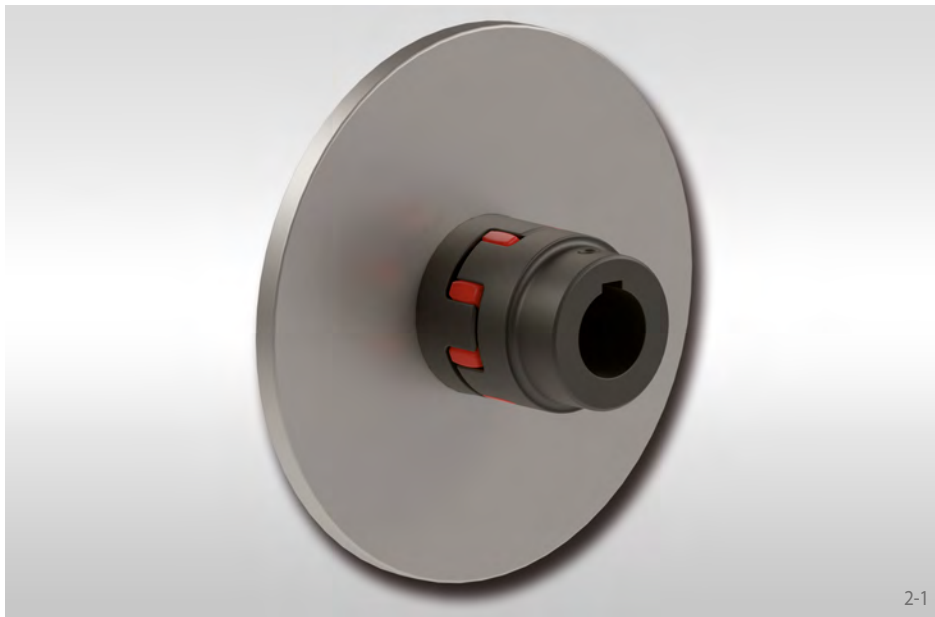
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Jaw Couplings REK ... DCS

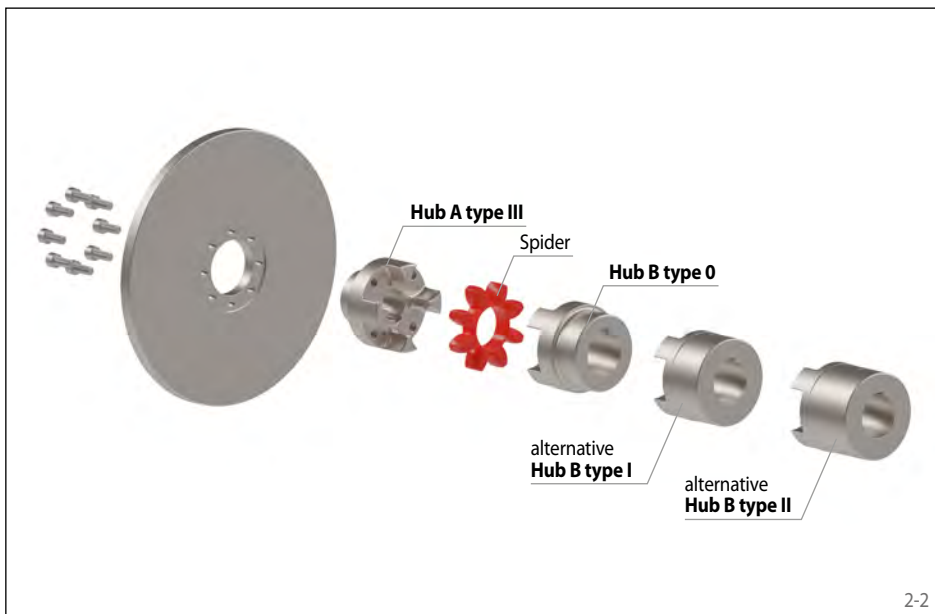
elastic for dynamic applications
with curved jaws and brake disc



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Features

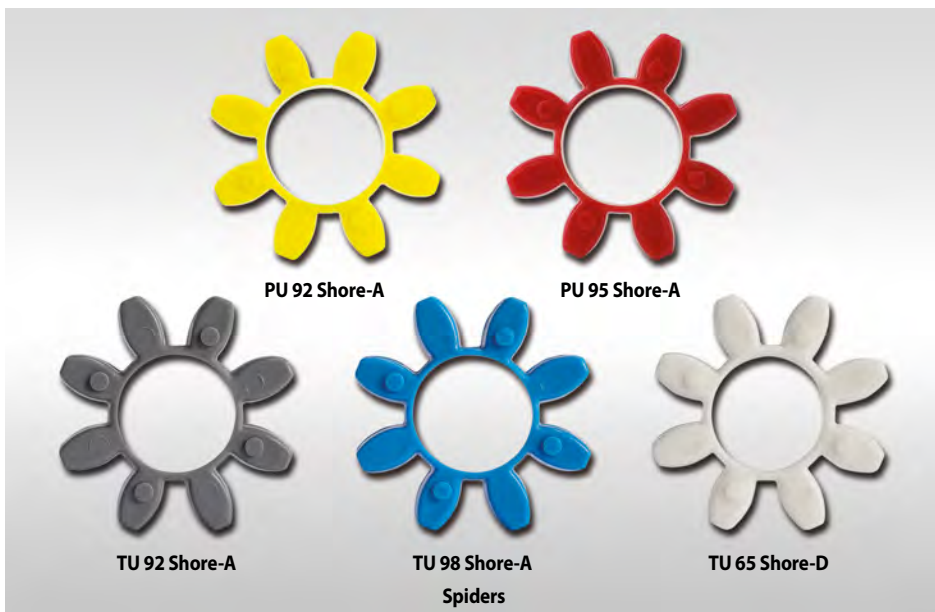
- Compensation of axial, radial and angular misalignments
- Coupling and brake discs matched to RINGSPANN brake systems
- Adsorbs vibrations
- Fail-safe in the event of the failure of the spider
- Maintenance free, no lubrication necessary
- Blind assembly possible
- Symmetrical design allows for high running speeds without additional balancing
- Typical application: Ventilator drives, crane trolleys, machine tools, conveyor belts



2-2

Order example

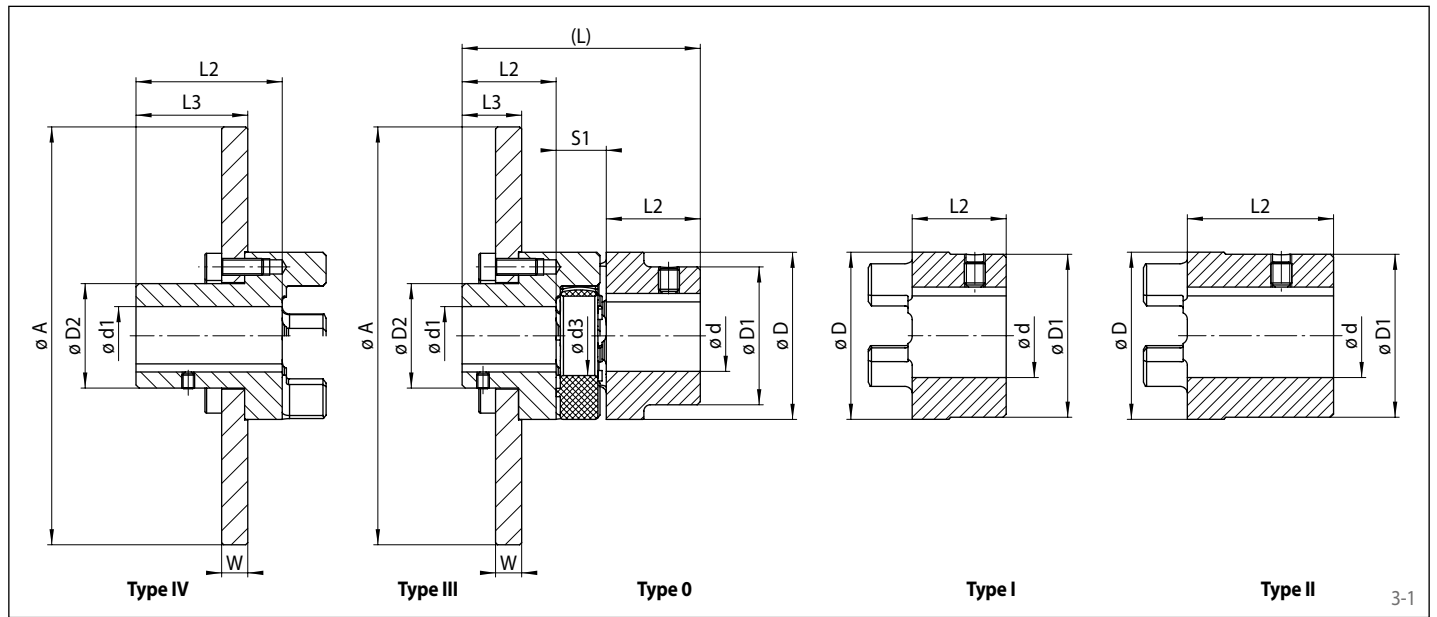
Order example	Code
Coupling design	REK
Coupling size	0038
Type	DCS
Material of the hub:	STA
• Steel	
Hub A, type:	
• III, with brake disc, standard	3
• IV, with brake disc, extended	4
Hub A, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter hub A	028
Hub B, type:	
• 0, standard	0
• I, increased max. bore	1
• II, extended, increased max. bore	2
Hub B, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter hub B	028
Spiders:	
• PU 92 Shore-A	PU92
• PU 95 Shore-A	PU95
• TU 92 Shore-A	TU92
• TU 98 Shore-A	TU98
• TU 65 Shore-D	TU65
Brake disc size and material*:	S0AA
Steel, 200 x 12,5 mm	



REK 0038 DCS-STA-3FB028-0FB028-PU92-S0AA

* see table "Brake discs and ordering code"

elastic for dynamic applications
with curved jaws and brake disc



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Coupling size*	Max. speed n_{max} min ⁻¹	Pilot bore d/d1 mm	Min. bore d/d1 mm	Max. bore d Hub type 0, I + II mm	Max. bore d1 Hub type III + IV (with brake disc) mm	d3 mm	D mm	D1		D2 mm	L2		L3		S1 min. mm	Permissible misalignments		
								Hub type 0 mm	Hub type I + II mm		Hub type III + IV mm	Hub type 0 / I / III mm	Hub type II + IV mm	Hub type III mm		Hub type IV mm	Axial mm	Radial mm
0038	9500	10	12	48	34	38	80	66	78	50	45	70	39,5	64,5	24	2,2	0,25	0,9
0042	8000	12	14	55	42	46	95	75	94	60	50	75	42,5	67,5	26	2,3	0,30	0,9
0048	7200	13	15	62	48	51	105	85	104	68	56	80	47,5	71,5	28	3,0	0,35	1,0
0055	6350	18	20	74	55	60	120	98	118	78	65	90	53,5	79,5	30	3,0	0,35	1,0
0065	5650	20	22	80	65	68	135	115	133	92	75	100	62,5	87,5	35	3,5	0,40	1,0
0075	4750	28	30	95	75	80	160	135	158	106	85	110	70,5	85,5	40	3,5	0,45	1,1
0090	3800	38	40	110	100	100	200	160	198	140	100	125	82,5	102,5	45	4,5	0,50	1,1

* Design of the hub in steel

Brake discs and ordering code

Material	$\phi A \times W$ mm	Max. speed n_{max} min ⁻¹	Coupling size															
			0038	0042	0048	0055	0065	0075	0090									
Steel	200 x 12,5	9100	S0AA															
	250 x 12,5	7300	SOBA	SOBA	SOBA													
	250 x 20	7300			SOBC*													
	315 x 16	5700		SODB	SODB	SODB	SODB	SODB	SODB	SODB								
	315 x 20	5700				SODC*												
	355 x 30	5100					SOEE*											
	400 x 16	4500			SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB	SOFB
	400 x 30	4500					SOFE											
	450 x 30	4000					SOHE											
	500 x 16	3600				SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB	SOIB
	500 x 30	3600					SOIE											
	560 x 30	3200																SOKE*
	630 x 20	2900									SOIC	SOIC	SOIC	SOIC	SOIC	SOIC	SOIC	SOIC
	710 x 20	2600									SOMC	SOMC	SOMC	SOMC	SOMC	SOMC	SOMC	SOMC
800 x 25	2300																SOND*	
Nodular cast iron GGG 50	200 x 12,5	9100	G0AA															
	250 x 12,5	7300	G0BA	G0BA	G0BA													
	300 x 12,5	6000		G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA	G0CA
	355 x 12,5	5100		G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA	G0EA
	430 x 12,5	4200				G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA	G0GA
	520 x 12,5	3500				G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA	G0JA
	630 x 25	2900																GOLD
	710 x 25	2600																GOLD
800 x 25	2300																GOND	

* Brake disc sizes on request

Spiders



Spider PU 92 Shore-A

Material: Polyurethane
 Hardness: 92 ±2 Shore-A
 Temperature range: -30 °C to +80 °C
 Colour: yellow

Spider PU 95 Shore-A

Material: Polyurethane
 Hardness: 95 ±2 Shore-A
 Temperature range: -30 °C to +90 °C
 Colour: red

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \max}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0019	9,6	0,1	19	2,5	0,5	0,4	0,2	0,9
0024	33	0,3	69	8,9	2,0	1,3	0,9	
0028	91	1,0	186	24	5,1	3,4	2,3	
0038	181	1,9	372	48	10,2	6,7	4,6	
0042	253	2,6	510	67	14,4	9,4	6,5	
0048	296	3,1	600	79	16,6	10,9	7,5	
0055	392	4,1	800	105	22,9	15,0	10,4	
0065	590	6,3	1220	160	26,0	19,3	13,9	
0075	1220	12,8	2500	326	54,4	40,4	29,0	
0090	2290	24,0	4700	610	86,7	64,0	47,0	

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \max}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0019	16	0,2	32	4,2	1,3	0,9	0,6	0,9
0024	57	0,6	114	15,2	4,8	3,2	2,1	
0028	153	1,6	304	40,0	12,1	8,2	5,4	
0038	310	3,2	610	81,0	24,0	16,2	10,6	
0042	430	4,5	850	111	33,9	22,9	12,3	
0048	500	5,2	990	130	39,2	26,4	16,9	
0055	650	6,8	1300	169	53,9	36,4	25,3	
0065	890	9,4	1780	232	69,3	47,6	33,3	
0075	1830	19,2	3640	474	84,6	58,9	41,4	
0090	3430	36,0	6800	889	150,9	118,5	85,5	

Spiders



5-1



5-2

Spider TU 92 Shore-A

Material: Polyurethane
 Hardness: 92 ±2 Shore-A
 Temperature range: -30 °C to +120 °C
 Colour: grey

Spider TU 98 Shore-A

Material: Polyurethane
 Hardness: 98 ±2 Shore-A
 Temperature range: -30 °C to +120 °C
 Colour: blue

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque T_{Kmax} Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0019	9,6	0,1	19	2,5	0,52	0,34	0,24	0,9
0024	33	0,3	69	8,9	1,96	1,29	0,92	
0028	91	1	186	24	4,95	3,24	2,32	
0038	181	1,9	372	48	9,80	6,42	4,59	
0042	253	2,6	510	67	15,41	10,37	7,39	
0048	296	3,1	600	79	17,82	11,99	8,55	
0055	392	4,1	800	105	24,51	16,50	11,76	
0065	590	6,2	1220	160	40,37	27,75	19,75	
0075	1220	12,8	2500	326	84,55	58,11	41,36	
0090	2290	24	4700	610	158,74	109,11	77,65	

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque T_{Kmax} Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0019	18	0,2	36	4,50	1,59	1,16	0,80	0,9
0024	62	0,6	124	15,50	6,24	4,53	3,14	
0028	167	1,7	334	41,75	15,32	11,12	7,71	
0038	332	3,5	664	83,00	30,89	22,41	15,54	
0042	477	5,0	954	119,25	45,49	33,16	22,98	
0048	525	5,5	1050	131,25	52,25	38,09	26,39	
0055	694	7,3	1388	173,50	70,55	51,44	35,64	
0065	973	10,2	1946	243,25	100,65	73,71	51,04	
0075	1980	20,7	3960	495,00	209,61	153,50	106,29	
0090	3523	36,9	7046	880,75	413,38	272,95	134,19	

Spiders



6-1

Spider TU 65 Shore-D

Material: Polyurethane

Hardness: 65 ±2 Shore-D

Temperature range: -30 °C to +120 °C

Colour: white

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque T_{Kmax} Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0019	21	0,2	42	5,25	1,99	1,37	0,98	1,0
0024	76	0,8	152	19,00	7,92	5,45	3,91	
0028	198	2,1	396	49,50	18,88	12,98	9,31	
0038	402	4,2	804	100,50	38,14	22,41	15,54	
0042	560	5,9	1120	140,00	60,36	45,49	29,75	
0048	667	7,0	1334	166,75	71,04	53,54	35,01	
0055	834	8,7	1668	208,50	92,27	69,54	45,47	
0065	1155	12,1	2310	288,75	141,08	102,45	59,79	
0075	2380	24,9	4760	595,00	294,43	213,82	124,77	
0090	4514	47,3	9028	1128,50	550,50	338,37	183,26	

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