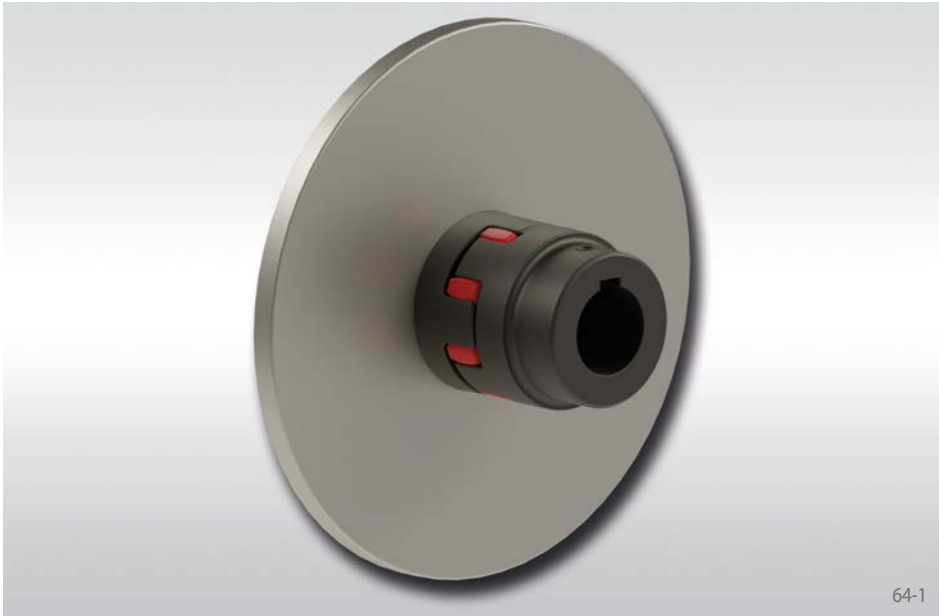


Jaw Couplings REK ... DCS

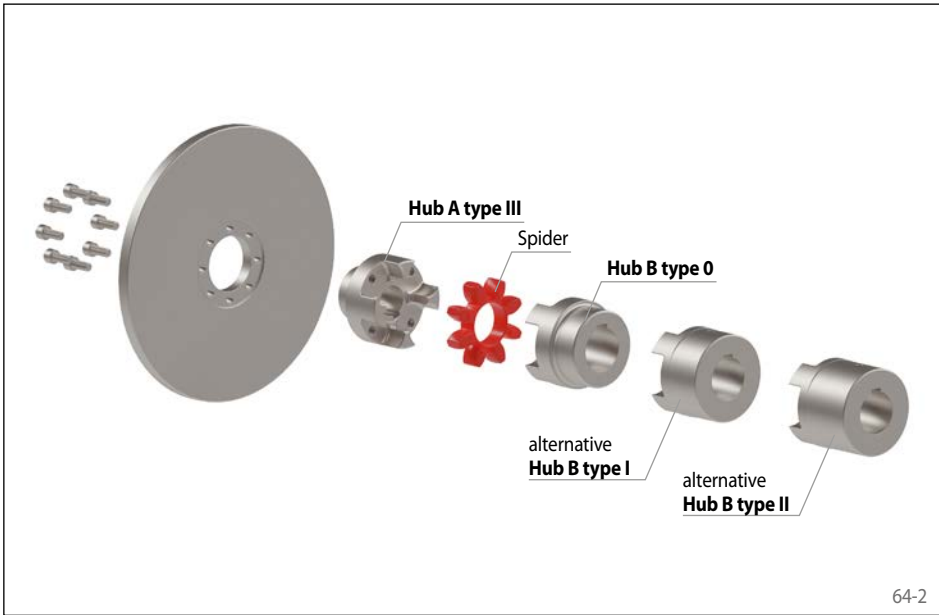
elastic for dynamic applications
with curved jaws and brake disc



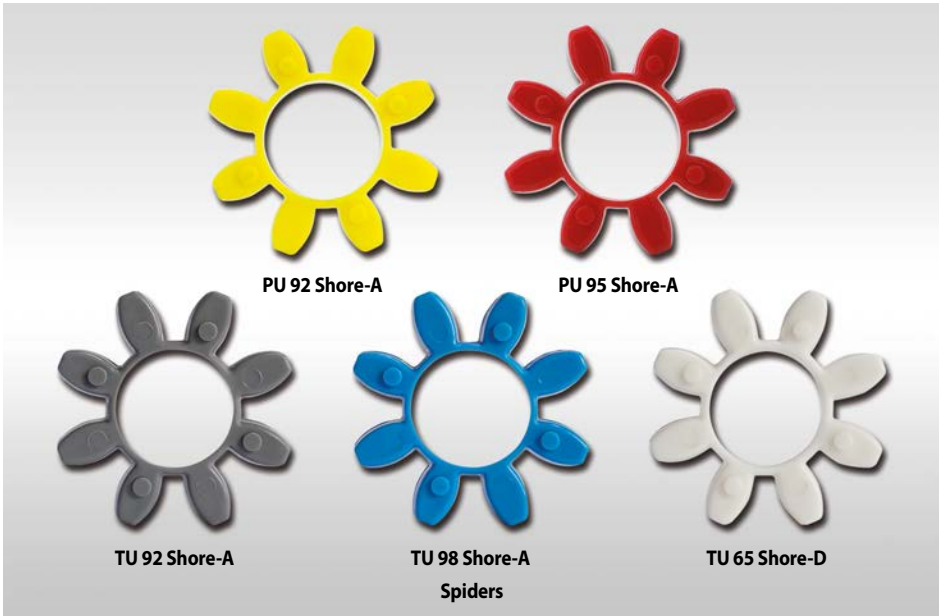
64-1

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



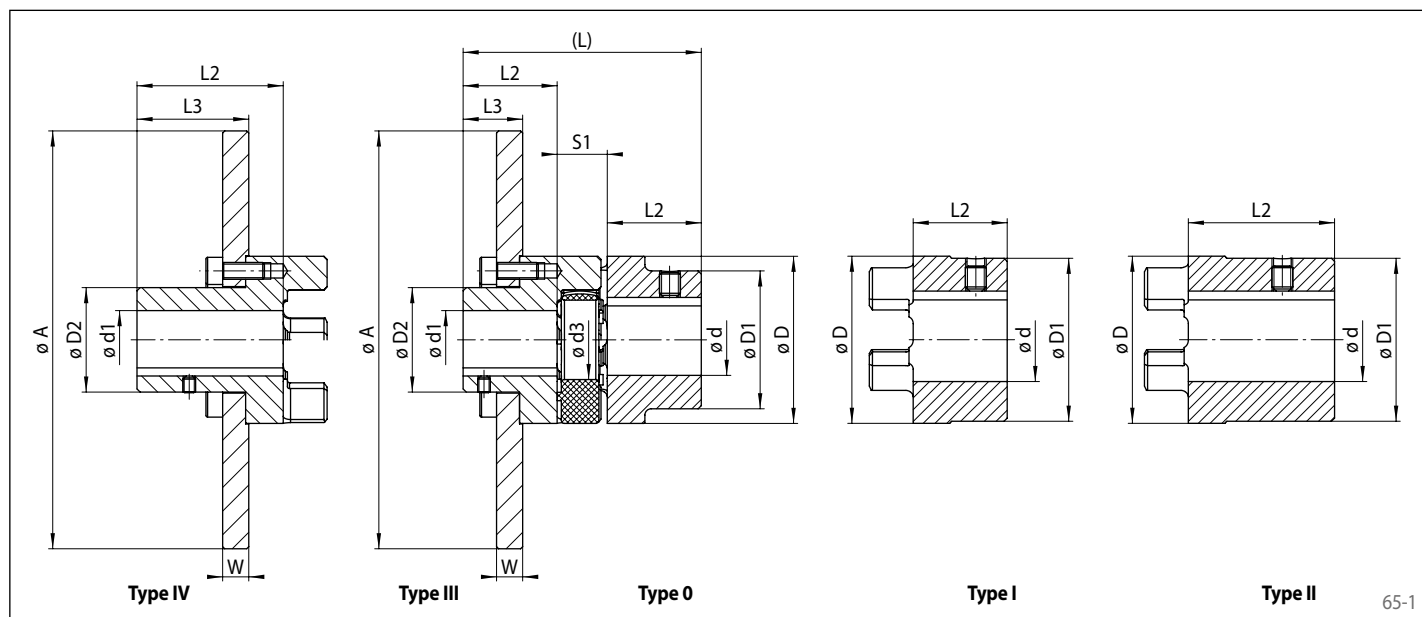
64-2



Order example

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



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 0 / I / III mm	Hub type II + IV mm	Hub type III mm	Hub type IV mm		Axial mm	Radial mm	Angular °
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

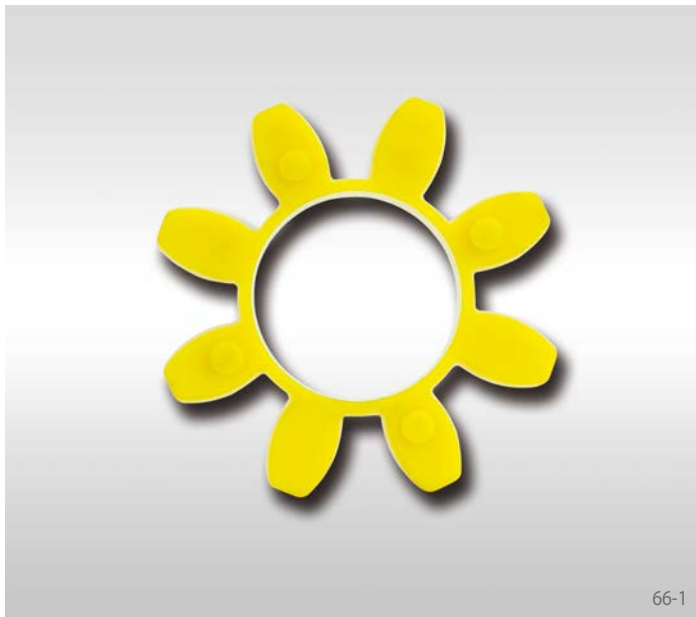
* Design of the hub in steel

Brake discs and ordering code

Material	ø A x 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	S0BA	S0BA	S0BA				
	250 x 20	7300			S0BC*				
	315 x 16	5700		S0DB	S0DB	S0DB	S0DB	S0DB	
	315 x 20	5700				S0DC*			
	355 x 30	5100					S0EE*		
	400 x 16	4500			S0FB	S0FB	S0FB	S0FB	S0FB
	400 x 30	4500					S0FE	S0FE	S0FE
	450 x 30	4000						S0HE	S0HE
	500 x 16	3600				S0IB	S0IB	S0IB	S0IB
	500 x 30	3600						S0IE	S0IE
	560 x 30	3200							S0KE*
	630 x 20	2900					S0LC	S0LC	S0LC
	710 x 20	2600					S0MC	S0MC	S0MC
	800 x 25	2300							S0ND*
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		
	355 x 12,5	5100		G0EA	G0EA	G0EA	G0EA	G0EA	
	430 x 12,5	4200				G0GA	G0GA	G0GA	G0GA
	520 x 12,5	3500				G0JA	G0JA	G0JA	G0JA
	630 x 25	2900						G0LD	G0LD
	710 x 25	2600						G0MD	G0MD
	800 x 25	2300							G0ND

* Brake disc sizes on request

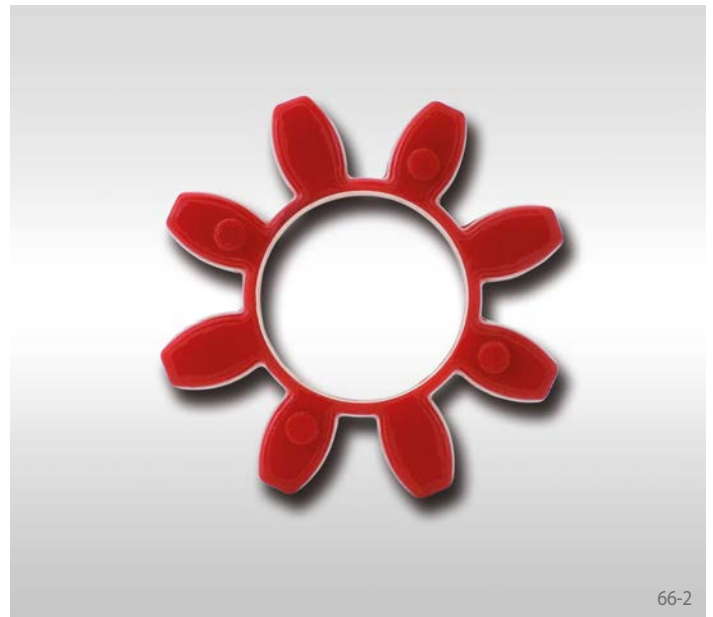
Spiders



66-1

Spider PU 92 Shore-A

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



66-2

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}	
0038	181	1,9	372	48	10,2	6,7	4,6	0,9
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	

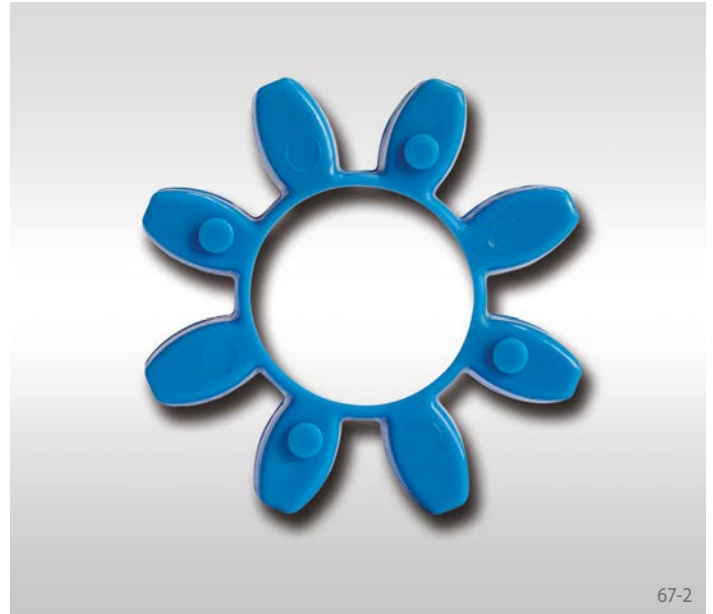
Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \max}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3			Relative damping ψ at 0,5 T_{KN}
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}	
0038	310	3,2	610	81,0	24,0	16,2	10,6	0,9
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



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 $T_{K \max}$ 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}	
0038	181	1,9	372	48	9,80	6,42	4,59	0,9
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 $T_{K \max}$ 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}	
0038	332	3,5	664	83,00	30,89	22,41	15,54	0,9
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



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 $T_{K \max}$ 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}	
0038	402	4,2	804	100,50	38,14	22,41	15,54	1,0
0042	560	5,9	1 120	140,00	60,36	45,49	29,75	
0048	667	7,0	1 334	166,75	71,04	53,54	35,01	
0055	834	8,7	1 668	208,50	92,27	69,54	45,47	
0065	1 155	12,1	2 310	288,75	141,08	102,45	59,79	
0075	2 380	24,9	4 760	595,00	294,43	213,82	124,77	
0090	4 514	47,3	9 028	1 128,50	550,50	338,37	183,26	