

Jaw Couplings REK ... DHO

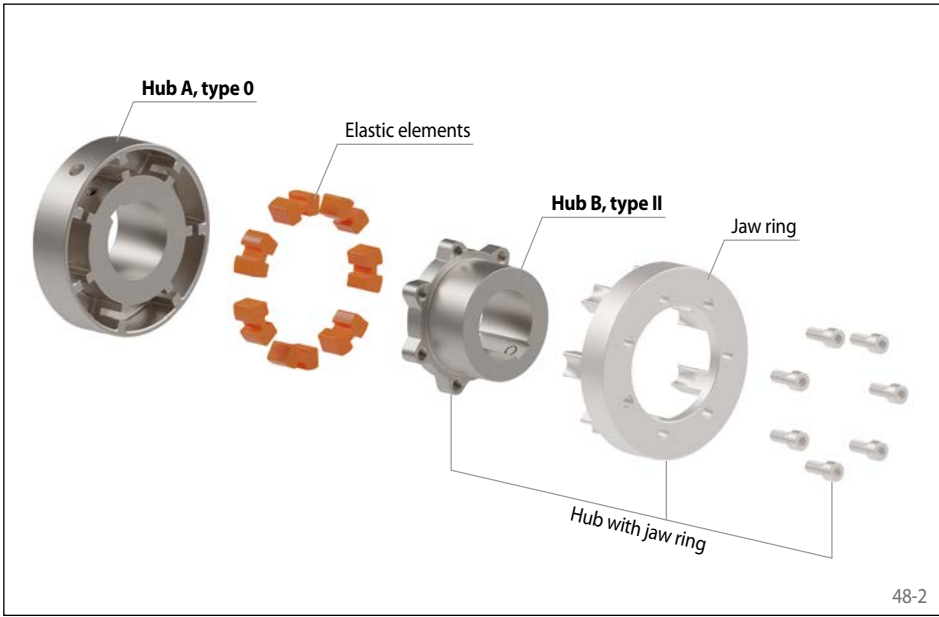
elastic for dynamic applications
with enclosed elastic elements and two piece hub



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Features

- Compensation of axial, radial and angular misalignments
- Adsorbs vibrations
- Progressive torsion spring properties due to primarily pressurised elastic elements
- Fail-safe in the event of the failure of the elastic elements
- Easy replacement of elastic elements without disassembly of the coupling halves
- Maintenance free, no lubrication necessary
- Elastic elements can be replaced without moving the drive
- Complies with ATEX 2014/34/EU
- Typical applications: Pump drives, ventilator drives, crane trolleys



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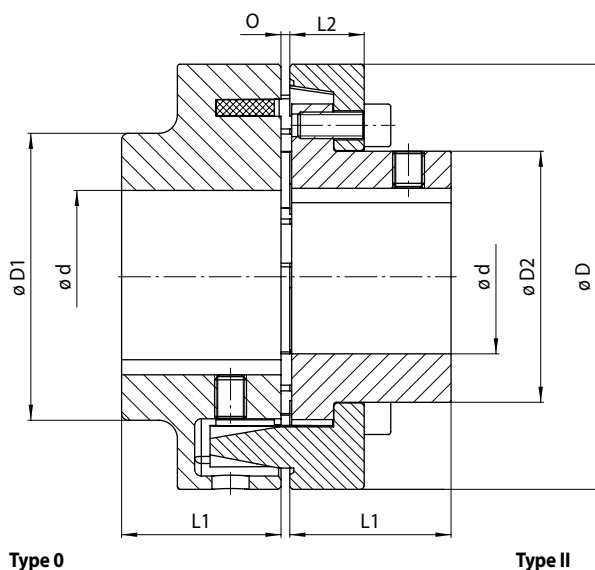
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Order example

	Code
Coupling design	REK
Coupling size	0048
Type	DHO
Material of the hub: • Cast iron	GJL
Hub A, type: • 0, elastomer part	0
Hub A, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub A	040
Hub B, type: • II, two-part, hub with jaw ring	2
Hub B, design: • finish bored with keyway • roughbored	FB VA
Bore diameter hub B	038
Elastic elements: • NBR 75 Shore-A • PU 92 Shore-A • HTrans	NB75 PU92 HT00

REK 0048 DHO-GJL-0FB040-2FB038-NB75

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Coupling size	Max. speed $n_{\max}$ min^{-1}	Moment of inertia with max. bore J_k kgm^2	Pilot bore d^* mm	Min. bore d^* mm	Max. bore d^*		D mm	D1 mm	D2 mm	L1 mm	L2 mm	O mm	Permissible misalignments			Weight with max. bore kg
					Hub type 0 mm	Hub type II mm							Axial mm	Radial mm	Angular °	
0048	5300	0,0047	13	14	48	38	110	86	62	40	20	2 - 4	$\pm 1,5$	0,4	1	3,5
0055	5100	0,0095	13	14	55	45	125	100	75	50	23	2 - 4				5,6
0060	4900	0,0150	13	14	60	50	140	100	82	55	28	2 - 4				7,0
0065	4250	0,0280	13	14	65	58	160	108	95	60	28	2 - 6				9,8
0075	3800	0,0490	23	24	75	65	180	125	108	70	30	2 - 6				14,2
0080	3400	0,0850	25	26	85	75	200	140	122	80	32	2 - 6				19,8
0090	3000	0,1500	35	36	90	85	225	150	138	90	38	2 - 6				27,0
0100	2750	0,2500	44	45	100	95	250	165	155	100	42	3 - 8				37,0

For finish bores, please specify bore diameter hub A and hub B. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1. Keyway tolerance JS9.

For vertical installation, please contact RINGSPANN.

See following pages for performance data.

* Bores also available in inch size, see page 73.

Elastic elements



Elastic element NBR 75 Shore-A

Material: Nitrile rubber
 Hardness: 75 ±5 Shore-A
 Temperature range: -40 °C to +100 °C
 Colour: black

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}	
0048	160	1,7	480	24	19,0	6,8	2,7	2,2
0055	240	2,5	720	36	28,8	10,4	4,2	
0060	360	3,8	1080	54	42,0	15,0	6,0	
0065	560	5,9	1680	84	77,0	28,0	11,0	
0075	880	9,2	2640	132	145,5	58,1	26,9	
0080	1340	14	4020	201	228,0	91,0	42,0	
0090	2000	21	6000	300	341,8	122,0	63,0	
0100	2800	29	8400	420	472,0	169,0	87,0	



Elastic element PU 92 Shore-A

Material: Polyurethane
 Hardness: 92 ±5 Shore-A
 Temperature range: -30 °C to +80 °C
 Colour: orange

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}	
0048	240	2,55	720	36	12,0	10,0	8,6	1,7
0055	360	3,75	1080	54	18,3	15,3	13,2	
0060	540	5,70	1620	81	27,0	22,0	19,0	
0065	840	8,85	2520	126	50,0	41,0	35,0	
0075	1320	13,80	3960	198	99,2	71,5	54,0	
0080	2010	21,00	6030	302	155,0	112,0	84,0	
0090	3000	31,50	9000	450	230,4	182,1	134,4	
0100	4200	43,50	12600	630	318,0	252,0	186,0	

Elastic elements



Elastic element HTrans

Material: Polyurethane
 Hardness: 55 ±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}	
0048	400	4,25	1200	60	31	47,4	16,244	0,8
0055	600	6,25	1800	90	47	49,7	45,314	
0060	900	9,50	2700	135	69	73,0	25,000	
0065	1 400	14,75	4200	210	127	133,6	66,560	
0075	2 200	23,00	6 600	330	248	167,0	130,000	
0080	3 350	35,00	10 050	503	388	261,0	203,000	
0090	5 000	52,50	15 000	750	591	472,0	355,000	
0100	7 000	72,50	21 000	1050	817	652,0	491,000	