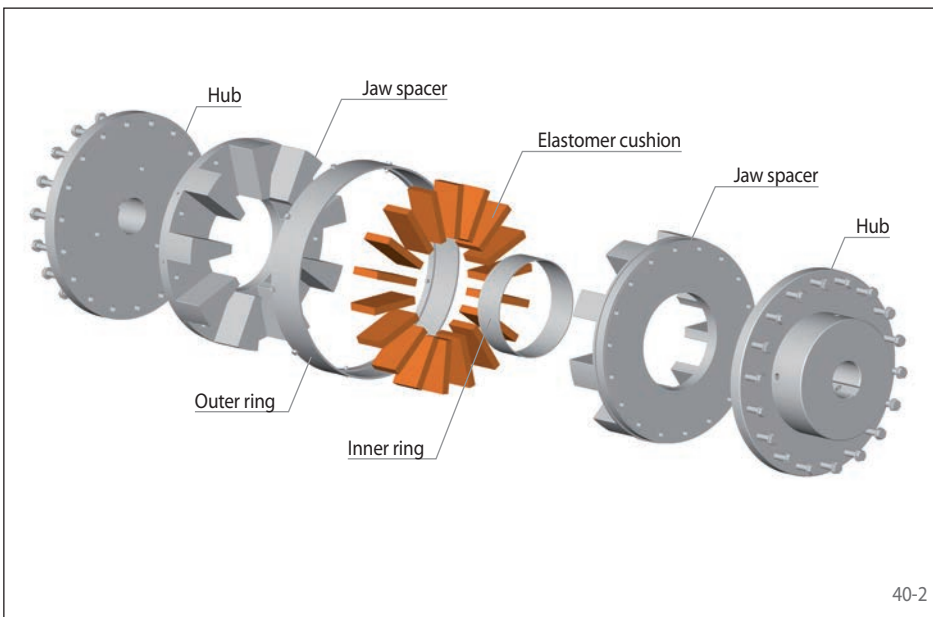


Jaw Couplings REK ... DQO

elastic for dynamic applications
with radially mountable elastomer cushions



40-1



40-2



NBR 92 Shore-A

PU 92 Shore-A

HTrans

Elastomer cushions

40-3

Features

- Nominal torques up to 169 000 Nm
- Compensation of axial, radial and angular misalignments
- Adsorbs vibrations
- Progressive torsion spring properties due to primarily pressurised elastomer cushions
- Fail-safe in the event of the failure of the elastomer cushions
- Maintenance free, no lubrication necessary
- Elastomer cushions radially replaceable without moving the drive
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Piston pumps and piston compressors, diesel motors, gas motors, heavy duty applications

Order example

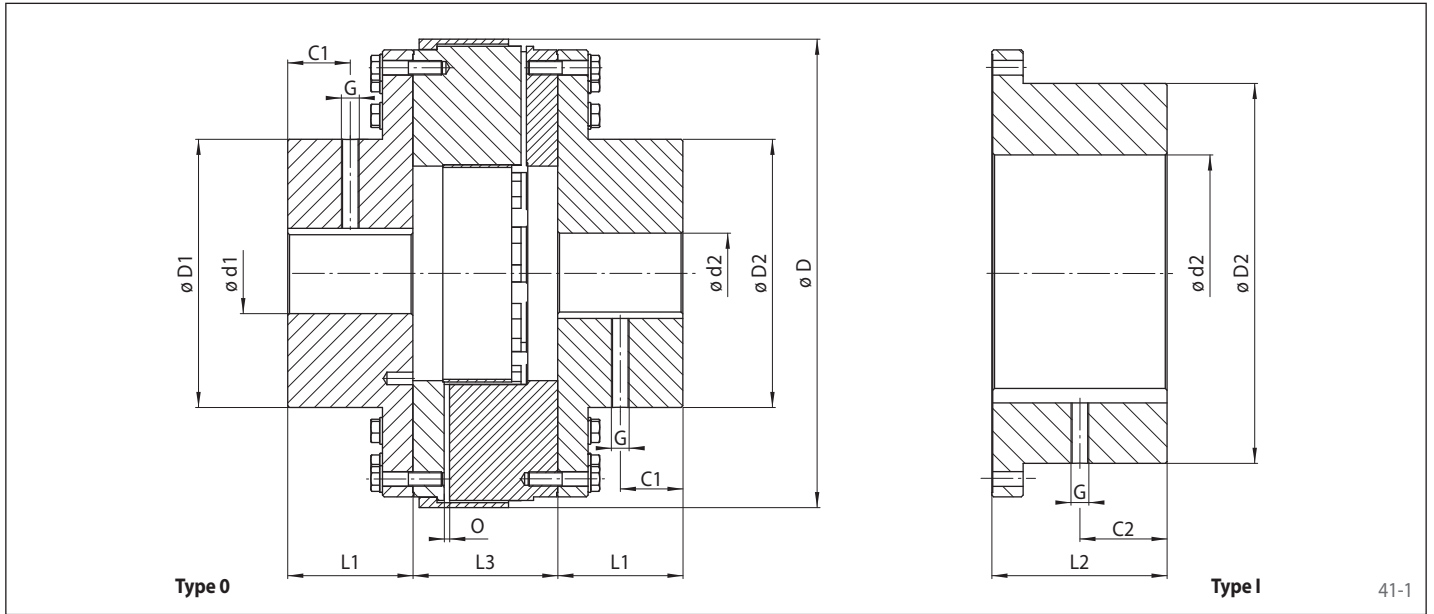
	Code
Coupling design	REK
Coupling size	0075
Type	DQO
Material of the hub*:	
• Cast iron	GJL
• Nodular cast iron	GJS
Hub 1, type:	
• 0, standard	0
• I, extended, increased max. bore	1
Hub 1, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter d1	050
Hub 2, type:	
• 0, standard	0
• I, extended, increased max. bore	1
Hub 2, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter d2	080
Elastomer cushions:	
• NBR 92 Shore-A	NB92
• PU 92 Shore-A	PU92
• HTrans	HT00

REK 0075 DQO-GJL-0FB050-0FB080-NB92

* See opposite table for availability

Jaw Couplings REK ... DQO

elastic for dynamic applications
with radially mountable elastomer cushions



Coupling size	Material of hub		Max. speed n_{max}		Permissible misalignments		
	Cast iron	Nodular cast iron	Cast iron min^{-1}	Nodular cast iron min^{-1}	Axial mm	Radial mm	Angular °
0075	x	x	2257	3385	± 0,375	0,1	0,25
0090	x	x	2047	3071	± 0,375		
0100	x	x	1880	2819	± 0,375		
0125	-	x	-	2544	± 0,375		
0140	-	x	-	2205	± 0,375		
0160	-	x	-	2150	± 0,75		
0180	-	x	-	1932	± 0,75		
0190	-	x	-	1693	± 0,75		
0215	-	x	-	1495	± 0,75		
0260	-	x	-	1354	± 0,75		

Coupling size	Min. bore		Max. bore		D mm	Hub type 0			Hub type I			L3 mm	O mm	Weight with max. bore kg
	Hub type 0 d1 mm	Hub type I d2 mm	Hub type 0 d1 mm	Hub type I d2 mm		D1 mm	C1 mm	L1 mm	D2 mm	C2 mm	L2 mm			
0075	30	60	80	105	266	131	34,0	68	170	42,5	85	100	3	53,3
0090	35	60	85	115	292	138	38,0	76	180	47,5	95	110	3	68,3
0100	40	70	100	130	317	162	42,0	84	210	52,5	105	117	3	97,9
0125	50	85	120	155	349	195	47,5	95	248	60,0	120	126	3	102,2
0140	60	85	140	185	400	220	50,0	100	294	65,0	130	134	3	145,1
0160	70	90	145	190	412	230	55,0	110	305	70,0	140	133	6	152,8
0180	85	100	170	225	461	275	65,0	130	360	85,0	170	142	6	197,0
0190	90	100	190	265	524	300	70,0	140	425	97,5	195	162	6	287,7
0215	100	120	215	295	600	345	77,5	155	470	105,0	210	196	6	456,0
0260	110	170	265	340	667	420	95,0	190	545	120,0	240	216	6	667,6

For finish bores, please specify diameter d1 and d2. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1.
The weight refers to a combination of hub type 0 and hub type I with max. possible bore diameter respectively.
Upon request: Varying DBSEs (L3)
For vertical installation, please contact RINGSPANN.
See following pages for performance data.

Elastomer cushions



Elastomer cushion NBR 92 Shore-A

Material: Nitrile rubber
 Hardness: 92 ±5 Shore-A
 Temperature range: -40 °C to +100 °C
 Colour: black

Elastomer cushion 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}	Nominal power at 100 min^{-1} P_{K100}	Max. torque T_{Kmax}	Alternating torque T_{kW}
	Nm	kW	Nm	Nm
0075	5300	56	10600	1060
0090	7100	75	14200	1420
0100	9900	104	19800	1980
0125	-	-	-	-
0140	-	-	-	-
0160	-	-	-	-
0180	-	-	-	-
0190	-	-	-	-
0215	-	-	-	-
0260	-	-	-	-

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque T_{Kmax}	Alternating torque T_{kW}
	Nm	kW	Nm	Nm
0075	8000	84	16000	1600
0090	10600	112	21200	2120
0100	14800	156	29600	2960
0125	21200	223	42400	4240
0140	28800	302	57600	5760
0160	34100	358	68200	6820
0180	50000	527	100000	10000
0190	70000	738	140000	14000
0215	-	-	-	-
0260	-	-	-	-

Elastomer cushions



Elastomer cushion HTrans

Material: Polyurethane
 Hardness: 55 ±2 Shore-D
 Temperature range: -30 °C to +120 °C
 Colour: white

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque T_{Kmax}	Alternating torque T_{KW}
	Nm	kW	Nm	Nm
0075	13 300	140	26 600	2 660
0090	17 800	187	35 600	3 560
0100	24 800	260	49 600	4 960
0125	35 500	372	71 000	7 100
0140	47 900	502	95 800	9 580
0160	57 000	597	114 000	11 400
0180	83 500	877	167 000	16 700
0190	117 000	1 230	234 000	23 400
0215	146 000	1 530	292 000	29 200
0260	169 000	1 770	338 000	33 800

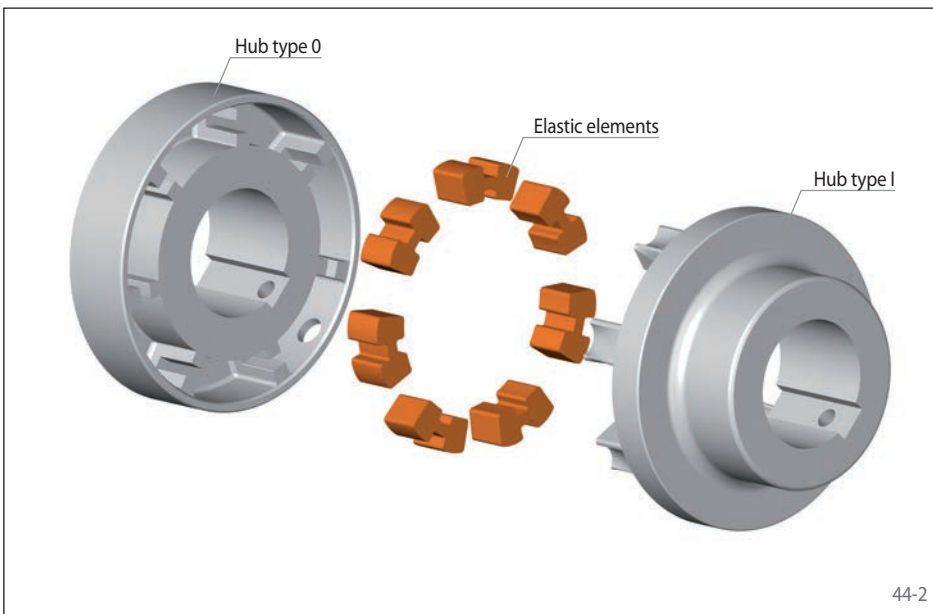
Jaw Couplings REK ... DGO

elastic for dynamic applications
with enclosed elastic elements



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
- Maintenance free, no lubrication necessary
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Pump drives, ventilator drives, crane trolleys



Order example

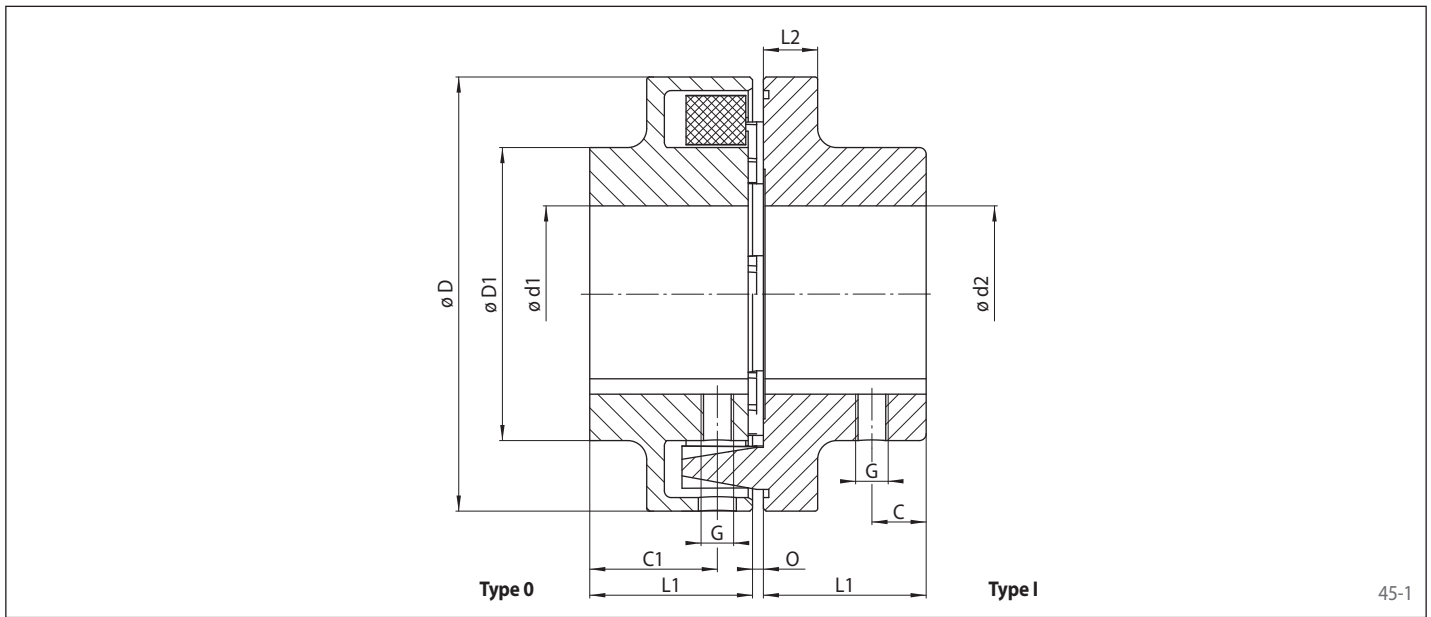
Order example	Code
Coupling design	REK
Coupling size	0024
Type	DGO
Material of the hub: • Cast iron	GJL
Hub 1, type: • 0, elastomer part	0
Hub 1, design: • finish bored with keyway • roughbored	FB VA
Bore diameter d1	020
Hub 2, type: • I, jaws	1
Hub 2, design: • finish bored with keyway • roughbored	FB VA
Bore diameter d2	024
Elastic elements: • NBR 75 Shore-A • PU 92 Shore-A • HTrans	NB75 PU92 HT00

REK 0024 DGO-GJL-0FB020-1FB024-NB75



Jaw Couplings REK ... DGO

elastic for dynamic applications
with enclosed elastic elements



45-1

Coupling size	Max. speed n_{max} min ⁻¹	Moment of inertia with max. bore J_k kgm ²	Min. bore		Max. bore $d1 / d2$ mm	D mm	D1 mm	C mm	C1 mm	L1 mm	L2 mm	O mm	Permissible misalignments			Weight with max. bore kg
			d1 mm	d2 mm									Axial mm	Radial mm	Angular °	
0024	7 000	0,0003	8	8	24	68	46	8	10	20	8	2 - 4	± 1,5	0,4	1	0,63
0028	6 000	0,0012	13	8	30	80	68	12	18	30	10	2 - 4				1,51
0042	5 500	0,0027	13	13	42	95	76	15	21	35	12	2 - 4				2,6
0048	5 300	0,0055	13	13	48	110	86	16	25	40	14	2 - 4				3,9
0055	5 100	0,0107	13	13	55	125	100	22	33	50	18	2 - 4				6,2
0060	4 900	0,0140	13	13	60	140	100	20	38	55	20	2 - 4				6,9
0065	4 250	0,0250	13	13	65	160	108	25	39	60	20	2 - 6				9,4
0075	3 800	0,0450	23	13	75	180	125	33	48	70	20	2 - 6				14,0
0080	3 400	0,0800	25	25	85	200	140	38	57	80	24	2 - 6				20,0
0090	3 000	0,1350	35	35	90	225	150	48	65	90	18	2 - 6				24,5
0100	2 750	0,2300	44	44	100	250	165	58	70	100	18	3 - 8	34,0			

For finish bores, please specify diameter d1 and d2. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1.
For vertical installation, please contact RINGSPANN.
See following pages for performance data.

Elastic elements



46-1



46-2

Elastic element NBR 75 Shore-A

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

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}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \text{ max}}$	Alternating torque T_{KW}	Torsional stiffness $C_{T \text{ dyn}}$ $\text{Nm/rad} \times 10^3$		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0024	34	0,36	102	5	3,0	1,1	0,4
0028	60	0,63	180	9	8,0	2,7	1,1
0042	100	1,1	300	15	12,0	4,1	1,7
0048	160	1,7	480	24	19,0	6,8	2,7
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

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \text{ max}}$	Alternating torque T_{KW}	Torsional stiffness $C_{T \text{ dyn}}$ $\text{Nm/rad} \times 10^3$		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0024	51	0,54	153	8	2,0	1,6	1,4
0028	90	0,95	270	14	5,0	4,0	3,4
0042	150	1,65	450	23	7,0	6,1	5,2
0048	240	2,55	720	36	12,0	10,0	8,6
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 $T_{K \text{ max}}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0024	85	0,90	255	13	5	7,8	2,676
0028	150	1,58	450	23	12	18,9	6,478
0042	250	2,75	750	38	19	29,0	9,925
0048	400	4,25	1 200	60	31	47,4	16,244
0055	600	6,25	1 800	90	47	49,7	45,314
0060	900	9,50	2 700	135	69	73,0	25,000
0065	1 400	14,75	4 200	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	1 050	817	652,0	491,000

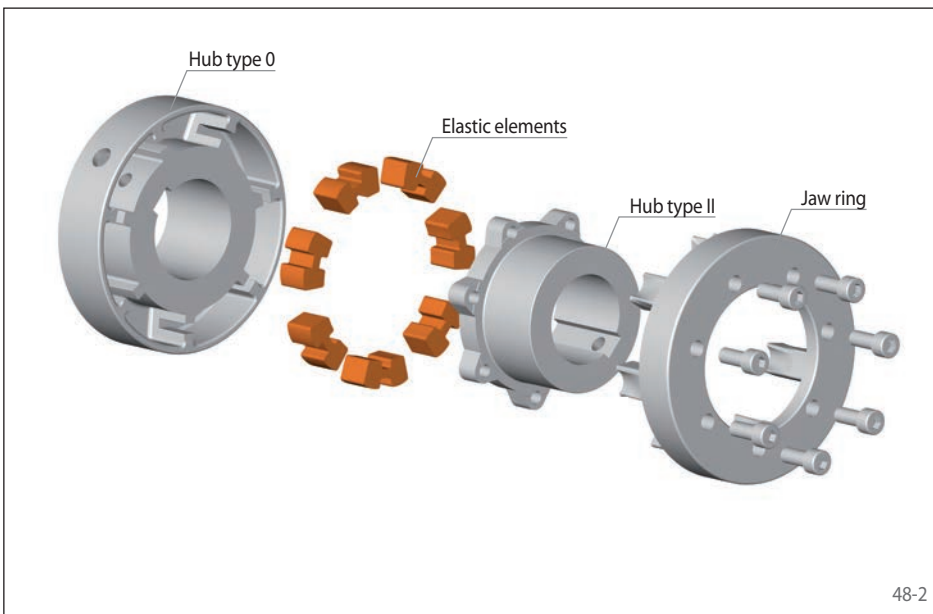
Jaw Couplings REK ... DHO

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



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
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Pump drives, ventilator drives, crane trolleys



Order example

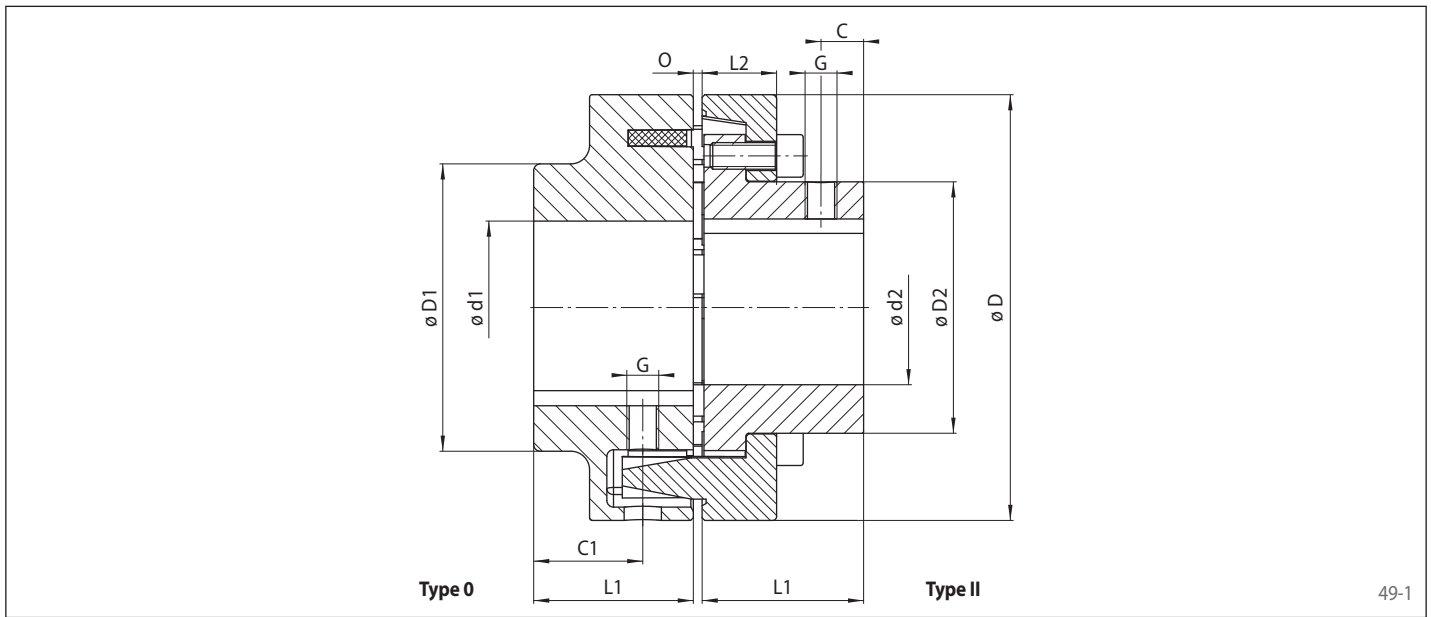
Order example	Code
Coupling design	REK
Coupling size	0048
Type	DHO
Material of the hub: • Cast iron	GJL
Hub 1, type: • 0, elastomer part	0
Hub 1, design: • finish bored with keyway • roughbored	FB VA
Bore diameter d1	040
Hub 2, type: • II, two-part, hub with jaw ring	2
Hub 2, design: • finish bored with keyway • roughbored	FB VA
Bore diameter d2	048
Elastic elements: • NBR 75 Shore-A • PU 92 Shore-A • HTrans	NB75 PU92 HT00

REK 0048 DHO-GJL-0FB040-2FB048-NB75



Jaw Couplings REK ... DHO

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



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Coupling size	Max. speed n_{max} min ⁻¹	Moment of inertia with max. bore J_k kgm ²	Min. bore d1/d2 mm	Max. bore		D mm	D1 mm	D2 mm	C mm	C1 mm	L1 mm	L2 mm	O mm	Permissible misalignments			Weight with max. bore kg
				d1 mm	d2 mm									Axial mm	Radial mm	Angular °	
0048	5300	0,0047	13	48	38	110	86	62	10	25	40	20	2-4	± 1,5	0,4	1	3,5
0055	5100	0,0095	13	55	45	125	100	75	14	33	50	23	2-4				5,6
0060	4900	0,0150	13	60	50	140	100	82	14	38	55	28	2-4				7,0
0065	4250	0,0280	13	65	58	160	108	95	16	39	60	28	2-6				9,8
0075	3800	0,0490	23	75	65	180	125	108	20	48	70	30	2-6				14,2
0080	3400	0,0850	25	85	75	200	140	122	24	57	80	32	2-6				19,8
0090	3000	0,1500	35	90	85	225	150	138	26	65	90	38	2-6				27,0
0100	2750	0,2500	44	100	95	250	165	155	29	70	100	42	3-8				37,0

For finish bores, please specify diameter d1 and d2. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1.
For vertical installation, please contact RINGSPANN.
See following pages for performance data.

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

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 $T_{K \text{ max}}$ Nm	Alter-nating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0048	160	1,70	480	24	19,0	6,8	2,7
0055	240	2,50	720	36	28,8	10,4	4,2
0060	360	3,80	1 080	54	42,0	15,0	6,0
0065	560	5,90	1 680	84	77,0	28,0	11,0
0075	880	9,20	2 640	132	145,5	58,1	26,9
0080	1 340	14,00	4 020	201	228,0	91,0	42,0
0090	2 000	21,00	6 000	300	341,8	122,0	63,0
0100	2 800	29,00	8 400	420	472,0	169,0	87,0

Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \text{ max}}$ Nm	Alter-nating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0048	240	2,55	720	36	12,0	10,0	8,6
0055	360	3,75	1 080	54	18,3	15,3	13,2
0060	540	5,70	1 620	81	27,0	22,0	19,0
0065	840	8,85	2 520	126	50,0	41,0	35,0
0075	1 320	13,80	3 960	198	99,2	71,5	54,0
0080	2 010	21,00	6 030	302	155,0	112,0	84,0
0090	3 000	31,50	9 000	450	230,4	182,1	134,4
0100	4 200	43,50	12 600	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

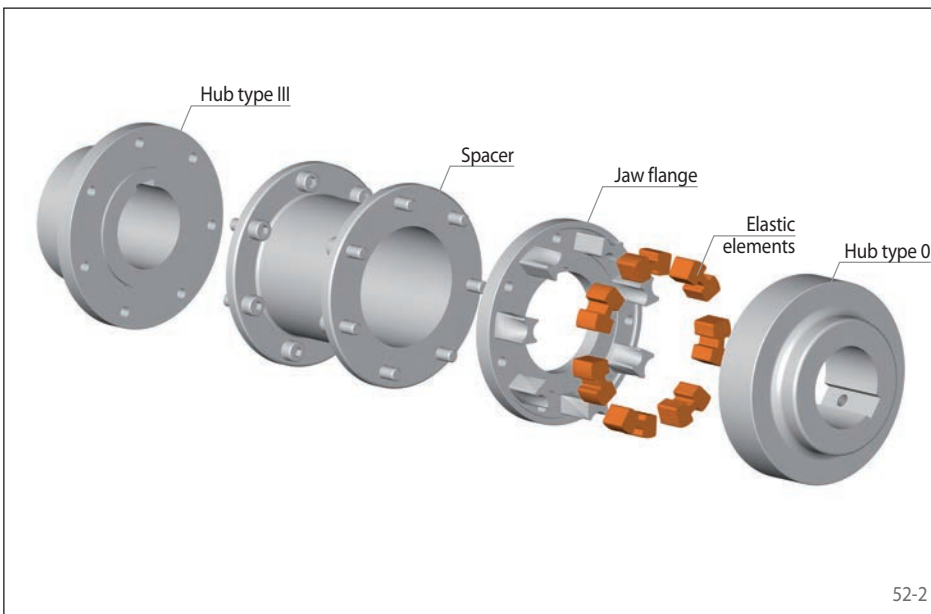
Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque $T_{K \text{ max}}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0048	400	4,25	1 200	60	31	47,4	16,244
0055	600	6,25	1 800	90	47	49,7	45,314
0060	900	9,50	2 700	135	69	73,0	25,000
0065	1 400	14,75	4 200	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	1 050	817	652,0	491,000

Jaw Couplings REK ... DGZ

elastic for dynamic applications
with enclosed elastic elements and spacer



52-1



52-2



NBR 75 Shore-A

PU 92 Shore-A

HTrans

Elastic elements

52-3

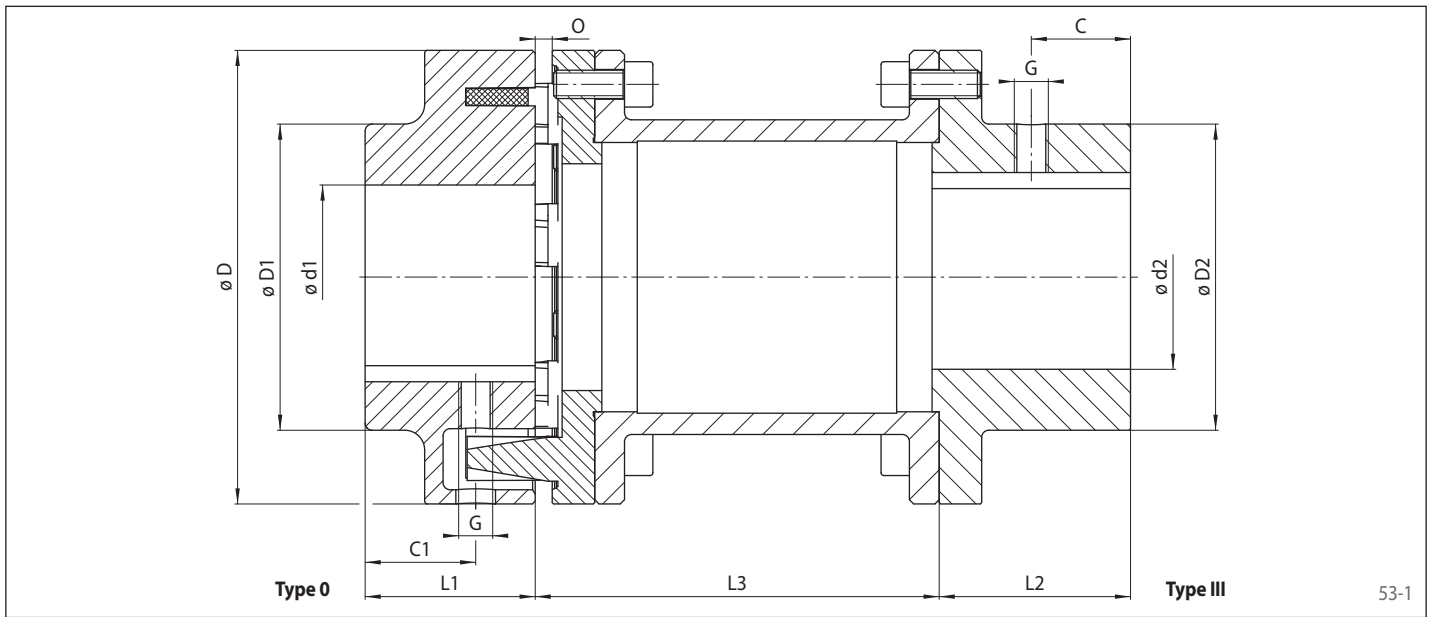
Features

- 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
- Easy separation of the drivetrain through disassembly of the coupling spacer
- Maintenance free, no lubrication necessary
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Pump drives, ventilator drives, crane trolleys

Order example

Order example	Code
Coupling design	REK
Coupling size	0028
Type	DGZ
Material of the hub: • Cast iron	GJL
Hub 1, type: • 0, elastomer part	0
Hub 1, design: • finish bored with keyway • roughbored	FB VA
Bore diameter d1	025
Hub 2, type: • III, flange part	3
Hub 2, design: • finish bored with keyway • roughbored	FB VA
Bore diameter d2	032
Elastic elements: • NBR 75 Shore-A • PU 92 Shore-A • HTrans	NB75 PU92 HT00
DBSE (L3)	0140
↓	
REK 0028 DGZ-GJL-0FB025-3FB032-NB75-0140	

elastic for dynamic applications
with enclosed elastic elements and spacer



Coupling size	Max. speed n_{max} min ⁻¹	Moment of inertia with max. bore J_k kgm ²	Min. bore		Max. bore $d1 / d2$ mm	D mm	D1 mm	D2 mm	C mm	C1 mm	L1 mm	L2 mm	L3 mm	O mm	Permissible misalignments			Weight with max. bore kg
			d1 mm	d2 mm											Axial mm	Radial mm	Angular °	
0028	6000	0,0014 0,0015	13	8	30/32	80	68	55	12	20	30	45	100 140	5	± 1,5	0,4	1	2,8 2,9
0042	5500	0,0028 0,0031	13	13	42	95	76	70	15	20	35	45	100 140	5				3,9 4,2
0048	5300	0,0056 0,0060 0,0064	13	13	48	110	86	80	16	25	40	50	100 140 180	5				5,8 6,2 6,6
0055	5100	0,0099 0,0100 0,0110	13	13	55	125	100	90	22	25	50	50	100 140 180	5				8,2 8,7 9,2
0060	4900	0,0190 0,0200	13	13	60	140	100	100	20	32,5	55	65	140 180	5				11,8 12,3
0065	4250	0,0320 0,0340	13	13	65	160	108	108	25	35	60	70	140 180	6				15,2 16,0
0075	3800	0,0540 0,0580	23	23	75	180	125	125	33	40	70	80	140 180	6				21,0 21,9
0080	3400	0,1000 0,1050 0,1100	25	25	85	200	140	140	38	45	80	90	180 200 250	6				30,3 30,9 32,1
0090	3000	0,1600 0,1700 0,1800	35	35	90	225	150	150	48	55	90	100	180 200 250	6				39,0 39,7 41,5
0100	2750	0,2800 0,3000	44	44	100	250	165	165	58	61	100	110	200 250	8				54,7 56,5

For finish bores, please specify diameter d1 and d2. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1.
Upon request: Hub type III in extended design; Spacers for varying DBSEs (L3)
For vertical installation, please contact RINGSPANN.
See following pages for performance data.

Elastic elements



54-1



54-2

Elastic element NBR 75 Shore-A

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

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}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \max}$	Alternating torque T_{KW}	Torsional stiffness $C_{T \text{ dyn}}$ $\text{Nm/rad} \times 10^3$		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0028	60	0,63	180	9	8,0	2,7	1,1
0042	100	1,10	300	15	12,0	4,1	1,7
0048	160	1,70	480	24	19,0	6,8	2,7
0055	240	2,50	720	36	28,8	10,4	4,2
0060	360	3,80	1080	54	42,0	15,0	6,0
0065	560	5,90	1680	84	77,0	28,0	11,0
0075	880	9,20	2640	132	145,5	58,1	26,9
0080	1340	14,00	4020	201	228,0	91,0	42,0
0090	2000	21,00	6000	300	341,8	122,0	63,0
0100	2800	29,00	8400	420	472,0	169,0	87,0

Coupling size	Nominal torque T_{KN}	Nominal power at 100 min^{-1} P_{K100}	Max. torque $T_{K \max}$	Alternating torque T_{KW}	Torsional stiffness $C_{T \text{ dyn}}$ $\text{Nm/rad} \times 10^3$		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0028	90	0,95	270	14	5,0	4,0	3,4
0042	150	1,65	450	23	7,0	6,1	5,2
0048	240	2,55	720	36	12,0	10,0	8,6
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 $T_{K \text{ max}}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					1,0 T_{KN}	0,5 T_{KN}	0,25 T_{KN}
0028	150	1,58	450	23	12	18,9	6,478
0042	250	2,75	750	38	19	29,0	9,925
0048	400	4,25	1 200	60	31	47,4	16,244
0055	600	6,25	1 800	90	47	49,7	45,314
0060	900	9,50	2 700	135	69	73,0	25,000
0065	1 400	14,75	4 200	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	1 050	817	652,0	491,000

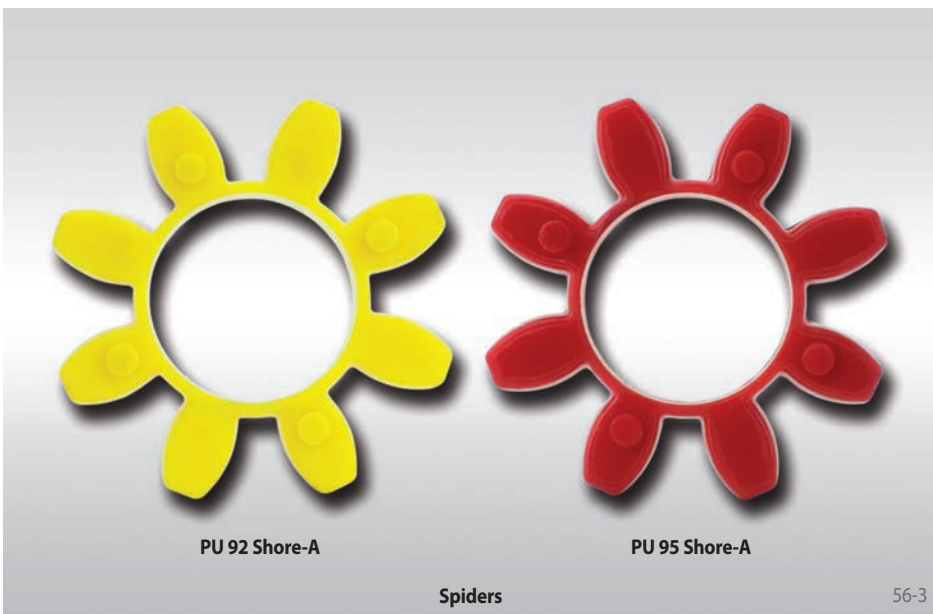
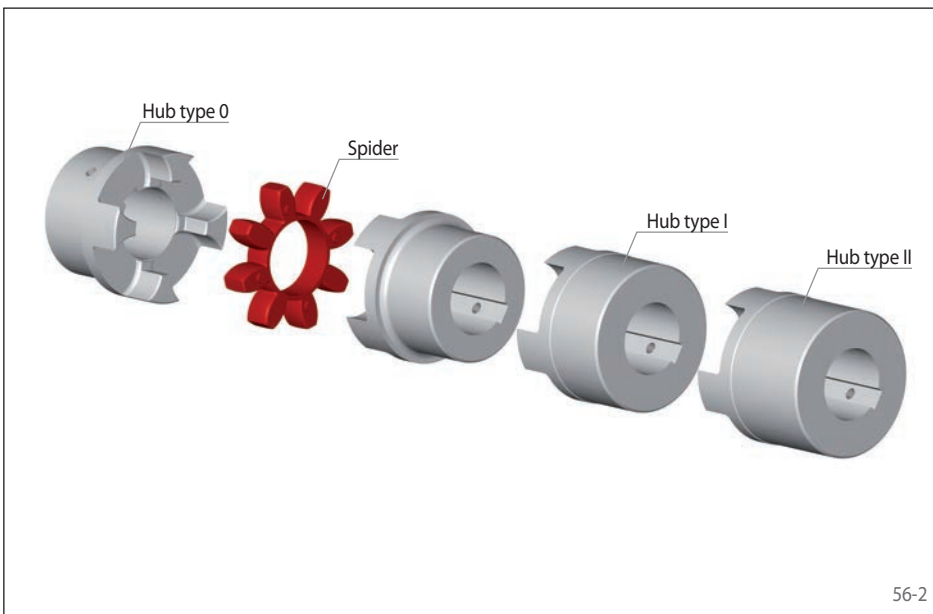
Jaw Couplings REK ... DCO

elastic for dynamic applications
with curved jaws



Features

- Compensation of axial, radial and angular misalignments
- Adsorbs vibrations
- Progressive torsion spring properties due to primarily pressurised spiders
- Symmetrical design allows for high running speeds without additional balancing
- Fail-safe in the event of the failure of the spider
- Maintenance free, no lubrication necessary
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Pump drives, ventilator drives, crane trolleys, machine tools, conveyor belts



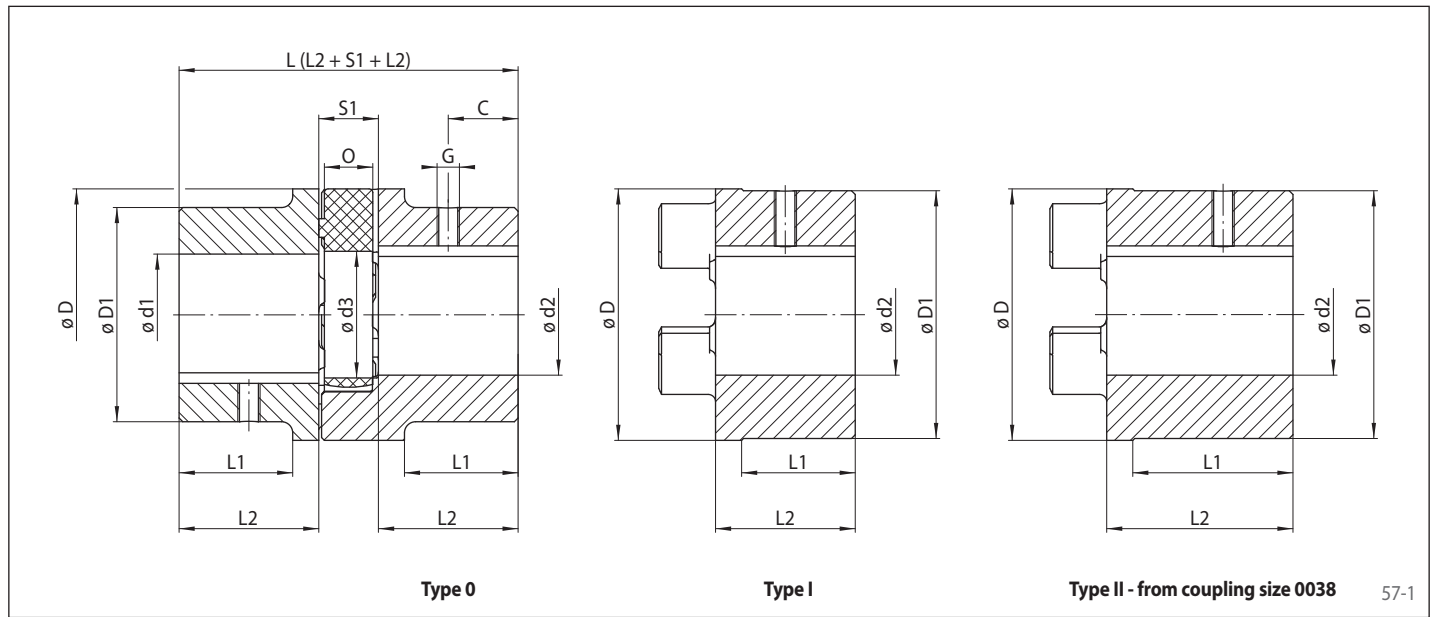
Order example

Order example	Code
Coupling design	REK
Coupling size	0019
Type	DCO
Material of the hub*:	
• Steel	STA
• Cast iron	GJL
• Aluminum	ALU
Hub 1, type:	
• 0, standard	0
• I, increased max. bore	1
• II, extended, increased max. bore (from size 0038)	2
Hub 1, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter d1	019
Hub 2, type:	
• 0, standard	0
• I, increased max. bore	1
• II, extended, increased max. bore (from size 0038)	2
Hub 2, design:	
• finish bored with keyway	FB
• roughbored	VA
Bore diameter d2	019
Spiders:	
• PU 92 Shore-A	PU92
• PU 95 Shore-A	PU95

REK 0019 DCO-GJL-0FB019-0FB019-PU92

* See opposite table for availability

elastic for dynamic applications
with curved jaws



Coupling size	Material of hub			Max. speed n_{max}			Permissible misalignments		
	Steel STA	Cast iron GJL	Aluminum ALU	Steel min^{-1}	Cast iron min^{-1}	Aluminum min^{-1}	Axial mm	Radial mm	Angular °
0019	x	-	x	18650	-	19000	1,6	0,15	0,8
0024	x	-	x	13650	-	14000	1,8	0,20	0,8
0028	x	-	x	11600	-	11800	2,0	0,20	0,8
0038	x	x	-	9500	7100	-	2,2	0,25	0,9
0042	x	x	-	8000	6000	-	2,3	0,30	0,9
0048	x	x	-	7200	5600	-	3,0	0,35	1,0
0055	x	x	-	6350	4750	-	3,0	0,35	1,0
0065	x	x	-	5650	4250	-	3,5	0,40	1,0
0075	x	x	-	4750	3550	-	3,5	0,45	1,1
0090	x	x	-	3800	2800	-	4,5	0,50	1,1

Coupling size	Bore d1/d2						d3	D	D1		C		L1		L2		O	S1
	Hub type								Hub type		Hub type		Hub type		Hub type			
	0		I		II				0	I+II	0+I	II	0+I	II	0+I	II		
min. mm	max. mm	min. mm	max. mm	min. mm	max. mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
0019	6	19	19	24	-	-	18	41	32	41	12,5	-	20	-	25	-	12	16
0024	9	24	22	28	-	-	27	56	40	56	15,0	-	24	-	30	-	14	18
0028	10	28	28	38	-	-	30	66	48	66	17,5	-	28	-	35	-	15	20
0038	12	40	38	48	12	48	38	80	66	78	22,5	35,0	37	62	45	70	18	24
0042	14	45	42	55	14	55	46	95	75	94	25,0	37,5	40	65	50	75	20	26
0048	15	52	48	62	15	62	51	105	85	104	28,0	40,0	45	69	56	80	21	28
0055	20	60	55	74	20	74	60	120	98	118	32,5	45,0	52	77	65	90	22	30
0065	22	70	65	80	22	80	68	135	115	133	37,5	50,0	61	86	75	100	26	35
0075	30	80	75	95	30	95	80	160	135	158	42,5	55,0	69	84	85	110	30	40
0090	40	97	90	110	40	110	100	200	160	198	50,0	62,5	81	106	100	125	34	45

For finish bores, please specify diameter d1 and d2. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1. See following pages for weights, moments of inertia and performance data.

Weights and moments of inertia

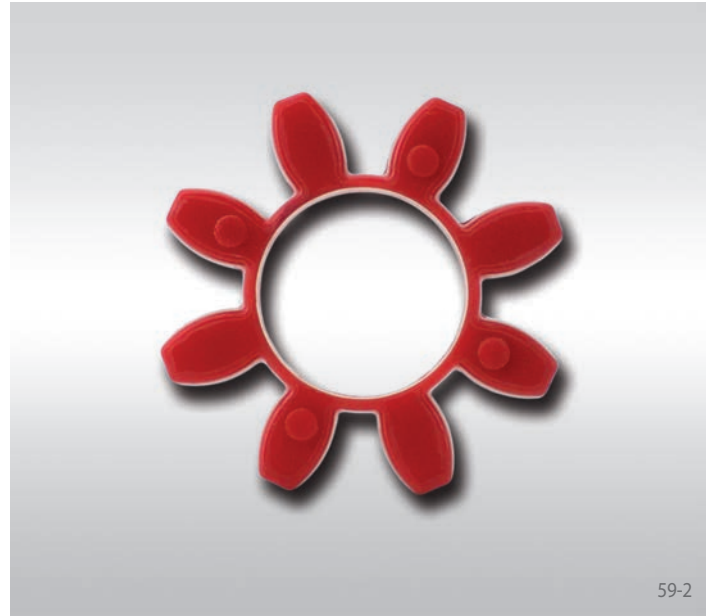
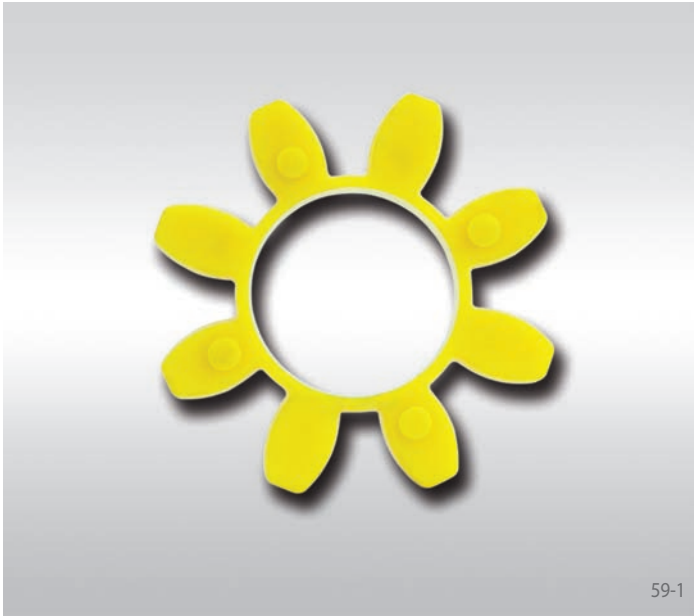
Weights in kg with max. bore diameter

Coupling size	Steel			Cast iron			Aluminum		
	Hub type			Hub type			Hub type		
	0	I	II	0	I	II	0	I	II
0019	0,14	0,18	0,26	-	-	-	0,05	0,07	-
0024	0,29	0,37	0,61	-	-	-	0,12	0,16	-
0028	0,45	0,64	1,07	-	-	-	0,19	0,25	-
0038	1,00	1,27	1,90	1,0	1,2	1,8	-	-	-
0042	1,81	1,84	2,76	1,6	1,8	2,3	-	-	-
0048	2,43	2,74	3,80	2,2	2,6	3,1	-	-	-
0055	3,70	3,93	5,23	3,3	3,7	5,1	-	-	-
0065	4,50	5,85	7,58	5,0	5,7	7,3	-	-	-
0075	7,18	9,06	11,50	7,9	9,0	10,5	-	-	-
0090	12,5	17,00	21,15	13,6	18,2	22,3	-	-	-

Moments of inertia [$10^{-3} \times \text{kgm}^2$] with max. bore diameter

Coupling size	Steel			Cast iron			Aluminum		
	Hub type			Hub type			Hub type		
	0	I	II	0	I	II	0	I	II
0019	0,04	0,05	0,07	-	-	-	0,011	0,021	-
0024	0,16	0,21	0,35	-	-	-	0,045	0,085	-
0028	0,34	0,48	0,80	-	-	-	0,100	0,210	-
0038	0,98	1,40	0,03	0,93	1,23	1,86	-	-	-
0042	2,50	2,55	3,82	2,05	2,95	4,27	-	-	-
0048	4,10	5,20	7,21	3,10	4,80	6,70	-	-	-
0055	8,20	10,00	10,00	6,15	8,65	11,85	-	-	-
0065	10,00	20,00	30,00	12,25	13,90	18,15	-	-	-
0075	30,00	40,00	50,00	27,00	30,70	35,75	-	-	-
0090	70,00	120,00	150,00	69,00	91,50	112,50	-	-	-

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 $T_{K \text{ max}}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					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
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	1 220	160	26,0	19,3	13,9
0075	1 220	12,8	2 500	326	54,4	40,4	29,0
0090	2 290	24,0	4 700	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 $T_{K \text{ max}}$ Nm	Alternating torque T_{KW} Nm	Torsional stiffness $C_{T \text{ dyn}}$ Nm/rad x 10^3		
					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
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	1 300	169	53,9	36,4	25,3
0065	890	9,4	1 780	232	69,3	47,6	33,3
0075	1 830	19,2	3 640	474	84,6	58,9	41,4
0090	3 430	36,0	6 800	889	150,9	118,5	85,5

Selection of IEC standard motors

Frame size	A.C. motor 50 Hz		Motor power n = 3000 min ⁻¹ 2-pole			REK ... DCO	Motor power n = 1500 min ⁻¹ 4-pole			REK ... DCO	Motor power n = 1000 min ⁻¹ 6-pole			REK ... DCO	Motor power n = 750 min ⁻¹ 8-pole			REK ... DCO
	Shaft end d x l		Power P _{AN}	Torque T _{AN}	Coupling size		Power P _{AN}	Torque T _{AN}	Coupling size		Power P _{AN}	Torque T _{AN}	Coupling size		Power P _{AN}	Torque T _{AN}	Coupling size	
	2-pole	4, 6, 8 pole																
56	9 x 20		0,09 0,12	0,32 0,41	0019 Hub type 0	0,06 0,09	0,43 0,64	0019 Hub type 0	0,037 0,045	0,43 0,52	0019 Hub type 0	-	-	-				
63	11 x 23		0,18 0,25	0,62 0,86		0,12 0,18	0,88 1,3		0,06 0,09	0,7 1,1		-	-	-				
71	14 x 30		0,37 0,55	1,3 1,9		0,25 0,37	1,8 2,5		0,18 0,25	2 2,8		0,09 0,12	1,4 1,8	0019 Hub type 0				
80	19 x 40		0,75 1,1	2,5 3,7		0,55 0,75	3,7 5,1		0,37 0,55	3,9 5,8		0,18 0,25	2,5 3,5	0019 Hub type 0				
90S	24 x 50		1,5	5	0019 Hub type I	1,1	7,5	0019 Hub type I	0,75	8	0019 Hub type I	0,37	5,3	0019 Hub type I				
90L			2,2	7,4		1,5	10		1,1	12		0,55	7,9					
100L	28 x 60		3	9,8	0024 Hub type I	2,2 3	15 20	0024 Hub type I	1,5	15	0024 Hub type I	0,75 1,1	11 16	0024 Hub type I				
112M			4	13		4	27		2,2	22		1,5	21					
132S	38 x 80		5,5 7,5	18 25	0028 Hub type I	5,5	36	0028 Hub type I	3	30	0028 Hub type I	2,2	30	0028 Hub type I				
132M			-	-		7,5	49		4 5,5	40 55		3	40					
160M	42 x 110		11 15	36 49	0038 Hub type I (II)	11	72	0038 Hub type I (II)	7,5	75	0038 Hub type I (II)	4 5,5	54 74	0038 Hub type I (II)				
160L			18,5	60		15	98		11	109		7,5	100					
180M	48 x 110		22	71	0042 Hub type I (II)	18,5	121	0042 Hub type I (II)	-	-	0042 Hub type I (II)	-	-	0042 Hub type I (II)				
180L			-	-		22	144		15	148		11	145					
200L	55 x 110		30 37	97 120	0042 Hub type I (II)	30	196	0042 Hub type I (II)	18,5 22	181 215	0042 Hub type I (II)	15	198	0042 Hub type I (II)				
225S	55 x 110	60 x 140	-	-		37	240		0048 Hub type I (II)	-		-	0048 Hub type I (II)		18,5	244	0048 Hub type I (II)	
225M			45	140	45	292	30	293		22	290							
250M	60 x 140	65 x 140	55	177	0048 Hub type I (II)	55	356	0055 Hub type I (II)	37	361	0055 Hub type I (II)	30	392	0055 Hub type I (II)				
280S	75 x 140		75	241	0055 Hub type I (II)	75	484	0065 Hub type I (II)	45	438	0065 Hub type I (II)	37	483	0065 Hub type I (II)				
280M			90	289		90	581		55	535		45	587					
315S	65 x 140		110	353	0065 Hub type I (II)	110	707	0075 Hub type 0	75	727	0075 Hub type 0	55	712	0075 Hub type 0				
315M			80 x 170	132		423	132		849	90		873	75		971			
315L				160 200		513 641	160 200		1030 1290	110 132		1070 1280	90 110		1170 1420			
355L	75 x 140	95 x 170	250 315	802 1010	0075 Hub type I (II)	250 315	1600 2020	0090 Hub type 0	160 200 250	1550 1930 2410	0090 Hub type 0	132 160 200	1710 2070 2580	0090 Hub type 0				
400	80 x 170	110 x 210	355 400	1140 1280	0090 Hub type I (II)	355 400	2280 2570	0090 Hub type I (II)	315	3040	0090 Hub type I (II)	250	3220	0090 Hub type I (II)				

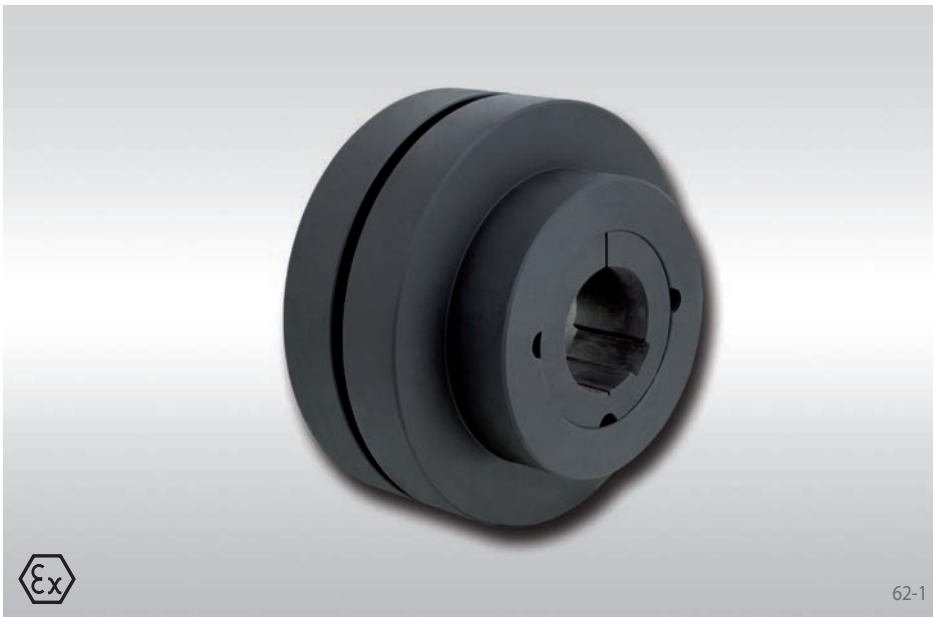
During selection, the nominal torque of the coupling at +30 °C was factored in with a start-up factor SZ of 1 and a co-efficient of impact SA/SL of 1. Detailed selection in accordance with the technical information on page 64 et seq.

Standard bores

Coupling size	Material	Hub type	Bore d							
			mm	mm	mm	mm	mm	mm	mm	mm
0019	STA	0	9	11	14	15	18	19	-	-
		I	20	24	-	-	-	-	-	-
	ALU	0	9	11	14	15	18	19	-	-
		I	20	24	-	-	-	-	-	-
0024	STA	0	11	14	15	18	19	20	22	24
		I	28	-	-	-	-	-	-	-
	ALU	0	11	14	15	18	19	20	22	24
		I	28	-	-	-	-	-	-	-
0028	STA	0	14	15	18	19	20	22	24	-
		I	28	32	38	-	-	-	-	-
	ALU	0	14	15	18	19	20	22	24	-
		I	28	32	38	-	-	-	-	-
0038	STA	0	20	24	28	32	38	-	-	-
		I	42	48	-	-	-	-	-	-
	GJL	0	18	19	20	22	24	28	32	38
		I	42	48	-	-	-	-	-	-
0042	STA	0	28	32	38	40	42	-	-	-
		I	48	55	-	-	-	-	-	-
	GJL	0	20	22	24	28	32	38	40	42
		I	48	55	-	-	-	-	-	-
0048	STA	0	32	38	42	48	-	-	-	-
		I	55	60	-	-	-	-	-	-
	GJL	0	24	28	32	38	42	48	-	-
		I	55	60	-	-	-	-	-	-
0055	STA	0	32	38	42	48	55	-	-	-
		I	60	65	-	-	-	-	-	-
	GJL	0	28	32	38	42	48	55	-	-
		I	60	65	-	-	-	-	-	-
0065	STA	0	48	55	60	65	-	-	-	-
		I	75	80	-	-	-	-	-	-
	GJL	0	32	38	42	48	55	60	65	-
		I	75	80	-	-	-	-	-	-
0075	STA	0	48	55	60	65	75	-	-	-
		I	80	85	-	-	-	-	-	-
	GJL	0	42	48	55	60	65	75	-	-
		I	80	-	-	-	-	-	-	-
0090	STA	0	65	75	80	90	-	-	-	-
		I	100	110	-	-	-	-	-	-
	GJL	0	48	55	60	65	75	80	90	-
		I	95	110	-	-	-	-	-	-

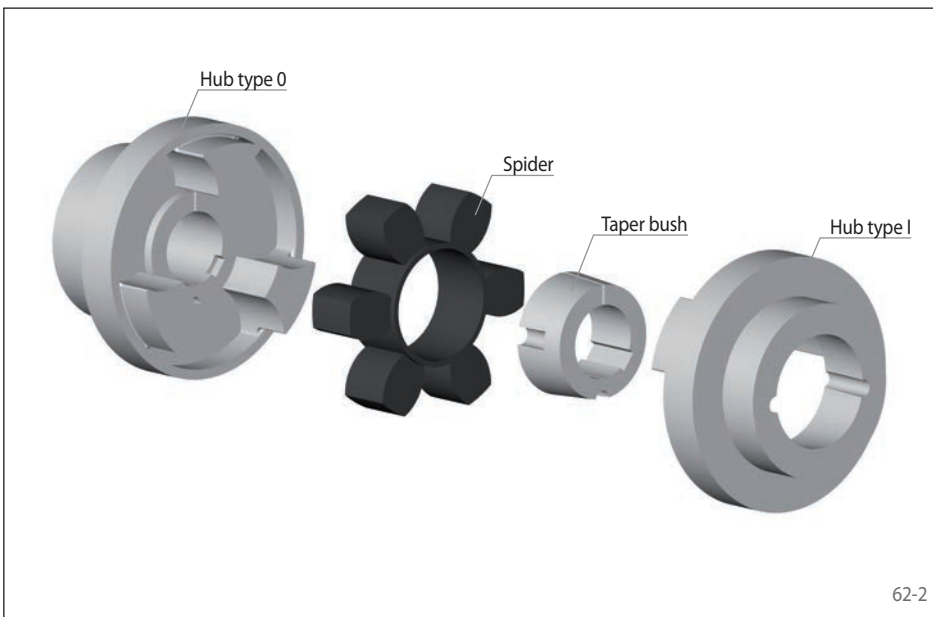
Jaw Couplings REK ... ECO

elastic for standard applications
with curved jaws



Features

- Compensation of axial, radial and angular misalignments
- Adsorbs vibrations
- Progressive torsion spring properties due to primarily pressurised spiders
- Fail-safe in the event of the failure of the spider
- Maintenance free, no lubrication necessary
- Declaration of conformity in accordance with ATEX 2014/34/EU possible
- Typical application: Pump drives, ventilator drives, crane trolleys, machine tools, conveyor belts

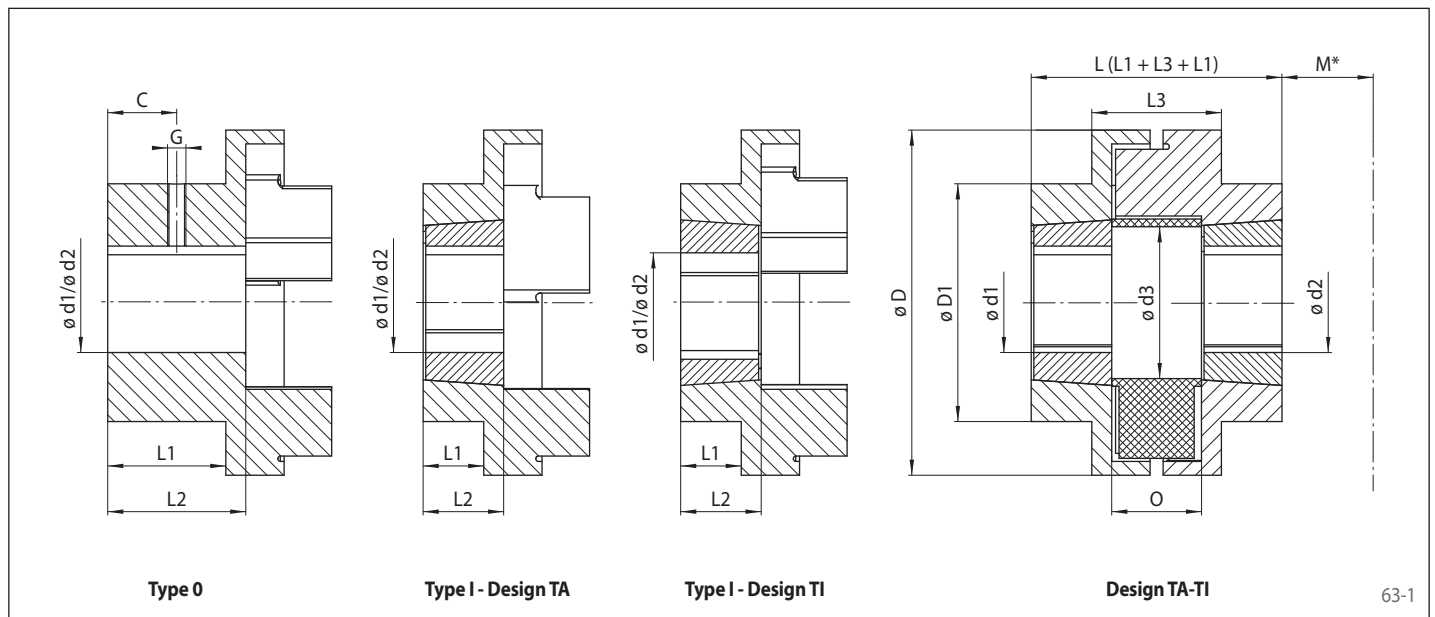


Order example

Order example	Code
Coupling design	REK
Coupling size	0070
Type	ECO
Material of the hub:	GJL
• Cast iron	
Hub 1, type:	
• 0, standard	0
• I, shortened for taper bush	1
Hub 1, design:	
• roughbored	VA
• finish bored with keyway	FB
• finish bored with taper bush, mounting outside	TA
• finish bored with taper bush, mounting inside	TI
Bore diameter d1	025
Hub 2, type:	
• 0, standard	0
• I, shortened for taper bush	1
Hub 2, design:	
• roughbored	VA
• finish bored with keyway	FB
• finish bored with taper bush, mounting outside	TA
• finish bored with taper bush, mounting inside	TI
Bore diameter d2	032
Spider:	
NBR 80 Shore-A	NB80

REK 0070 ECO-GJL-0FB025-1FB032-NB80

elastic for standard applications
with curved jaws



Coupling size	Nominal torque T_{KN} Nm	Nominal power at 100 min^{-1} P_{K100} kW	Max. torque T_{Kmax} Nm	Max. speed n_{max} min^{-1}	Torsional stiffness C_W Nm/rad	Moment of inertia J_k kgm^2	Permissible misalignments		
							Axial mm	Radial mm	Angular $^\circ$
0070	31	0,33	72	8300	584,42	0,0003	+0,20	0,3	1
0090	80	0,84	180	6740	1461,04	0,0010	+0,49	0,3	
0110	160	1,68	360	5110	2750,20	0,0030	+0,61	0,3	
0130	315	3,30	720	4400	4812,85	0,0060	+0,79	0,4	
0150	600	6,28	1500	3820	10084,06	0,0100	+0,92	0,4	
0180	950	9,95	2350	3180	13750,99	0,0220	+1,09	0,4	
0230	2000	20,94	5000	2540	19251,38	0,0650	+1,32	0,5	
0280	3150	32,98	7200	2080	55003,95	0,1910	+1,70	0,5	

Moment of inertia refer to the design with taper bush with medium bore diameter.

Coupling size	Hub type 0 - Standard					Hub type I - Design TA and TI					D	D1	d3	L3	M*	O	Weight kg
	Bore d1 / d2		C	L1	L2	Taper bush size	Bore d1 / d2		L1	L2							
	min. mm	max. mm					min. mm	max. mm									
0070	10	32	13,0	21,0	26	1008	10	25	19,0	24,0	69	60	31	28,0	29	17,5	1,1
0090	10	42	16,0	26,0	32	1108	10	28	18,0	24,0	85	65	32	34,5	29	22,5	1,0
0110	10	55	22,5	37,0	45	1610	14	42	19,0	27,0	112	100	45	45,0	38	29,0	5,0
0130	20	60	27,5	46,0	55	1610	14	42	17,5	26,5	130	105	50	54,0	38	36,0	8,0
0150	20	70	30,0	50,0	60	2012	14	50	24,0	34,0	150	115	62	60,0	42	40,0	11,7
0180	30	80	35,0	58,0	70	2517	16	60	35,0	47,0	180	125	77	73,0	48	49,0	18,2
0230	40	100	45,0	77,0	90	3020	24	75	39,5	52,5	225	155	99	84,5	55	58,5	35,0
0280	50	115	52,5	88,5	105	3535	35	90	74,0	90,5	275	185	118	107,5	67	74,5	66,5

For finish bores, please specify diameter d1 and d2. Tolerance of finish bores H7. Keyways in accordance with DIN 6885, sheet 1.

The weight refer to the design with taper bush with medium bore diameter.

See page 67 for dimensions of taper bushes.

For vertical installation, please contact RINGSPANN.

* Minimum distance to install and disassemble the taper bush.

Elastomer element	Material	Hardness	Temperature range $^\circ\text{C}$	Colour
NBR 80 Shore-A	Nitrile rubber	80 \pm 5 Shore-A	-40 to +100	black