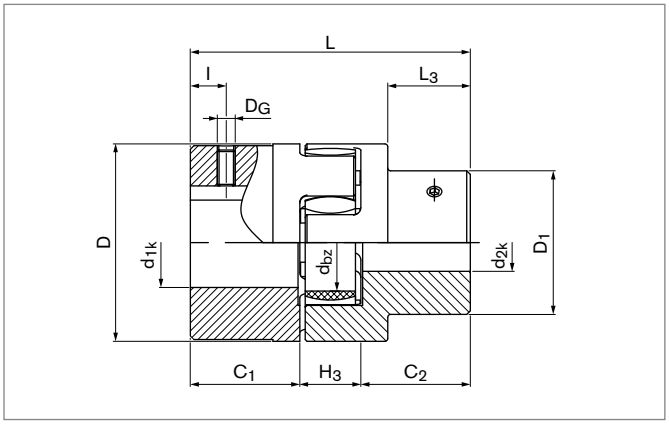
Elastomer Jaw Couplings

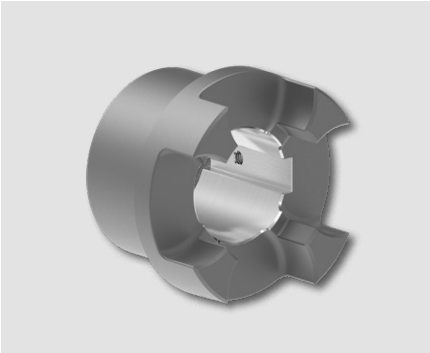
RINGFEDER® ECE 6518

Type with Freely Combinable Cast Iron Hubs and Elastomer Spiders of Various Hardnesses

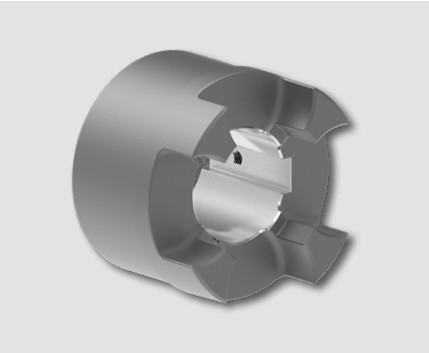




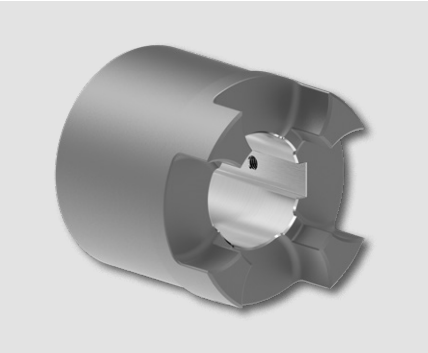
Hub Designs



Hub Design 1



Hub Design 1a



Hub Design 1b

Size	Hub Design	d_{1kmin}-d_{1kmax}	d_{2kmin}-d_{2kmax}	D	C_1	C_2	D_1	H_3	l	L	L_3
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
38	1	12 - 40	12 - 40	80	45	45	66	24	22,5	114	37
38	1a	12 - 48	12 - 48	80	45	45	78	24	22,5	114	37
38	1b	12 - 48	12 - 48	80	70	70	78	24	35	164	62
42	1	14 - 45	14 - 45	95	50	50	75	26	25	126	40
42	1a	14 - 55	14 - 55	95	50	50	94	26	25	126	40
42	1b	14 - 55	14 - 55	95	75	75	94	26	37,5	176	65
48	1	15 - 52	15 - 52	105	56	56	85	28	28	140	45
48	1a	15 - 62	15 - 62	105	56	56	104	28	28	140	45
48	1b	15 - 62	15 - 62	105	80	80	104	28	40	188	69
55	1	20 - 60	20 - 60	120	65	65	98	30	32,5	160	52
55	1a	20 - 74	20 - 74	120	65	65	118	30	32,5	160	52
55	1b	20 - 74	20 - 74	120	90	90	118	30	45	210	77

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Elastomer Jaw Couplings RINGFEDER® ECE 6518

Size	Hub Design	d_{1kmin}-d_{1kmax}	d_{2kmin}-d_{2kmax}	D	C_1	C_2	D_1	H_3	I	L	L_3
		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
65	1	22 - 70	22 - 70	135	75	75	115	35	37,5	185	61
65	1a	22 - 80	22 - 80	135	75	75	133	35	37,5	185	61
65	1b	22 - 80	22 - 80	135	100	100	133	35	50	235	86
75	1	30 - 80	30 - 80	160	85	85	135	40	42,5	210	69
75	1a	30 - 95	30 - 95	160	85	85	158	40	42,5	210	69
75	1b	30 - 95	30 - 95	160	85	85	158	40	55	260	84
90	1	40 - 97	40 - 97	200	100	100	160	45	50	245	81
90	1a	40 - 110	40 - 110	200	100	100	198	45	50	245	81
90	1b	40 - 110	40 - 110	200	125	125	198	45	62,5	295	106

Size	Hub Design	T_{KN} 1)	d_{bZ}	D_G	T_A	Gw
		Nm	mm	mm	Nm	kg
38	1	190	38	5	2	2,00
38	1a	190	38	5	2	2,40
38	1b	190	38	5	2	3,6
42	1	265	46	5	2	3,20
42	1a	265	46	5	2	3,8
42	1b	265	46	5	2	5,50
48	1	310	51	5	2	4,96
48	1a	310	51	5	2	5,45
48	1b	310	51	5	2	7,51
55	1	410	60	5	2	6,6
55	1a	410	60	5	2	7,50
55	1b	410	60	5	2	10,20
65	1	940	68	5	2	10,10
65	1a	940	68	5	2	11,50
65	1b	940	68	5	2	15,00
75	1	1920	80	6	6	16,00
75	1a	1920	80	6	6	18,20
75	1b	1920	80	6	6	21,20
90	1	3550	100	10	17	27,50
90	1a	3550	100	10	17	36,30
90	1b	3550	100	10	17	44,80

1) T_{KN} is specified for corresponding standard elastomer spider.
Coupling sizes 38-55: Yellow elastomer spider (92 SH A). Coupling sizes 65-90: Red elastomer spider (98 SH A).

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Elastomer Jaw Couplings RINGFEDER® ECE 6518

Technical Data of Elastomer Spiders

Size	Hardness	n_{max}	T_{KN}	T_{KW}	T_{Kmax}	ψ	C_{Tdyn} at 1*T_{KN}	C_{Tdyn} at 0,5*T_{KN}	C_{Tdyn} at 0,25*T_{KN}	d_{bZ}	ΔK_a at n = 1500 1/min	ΔK_r at n = 1500 1/min	ΔK_w at n = 1500 1/min	ϕ at T_{Kmax}
		1/min	Nm	Nm	Nm		10^3 Nm/rad	10^3 Nm/rad	10^3 Nm/rad	mm	mm	mm	degrees	degrees
38	64 SH D	8300	405	105	810	0,75	38,14	22,41	15,54	38	-0,7 +1,8	0,21	0,9	3,6
38	92 SH A	8300	190	49	380	0,8	9,8	6,42	4,59	38	-0,7 +1,8	0,28	1	5
38	98 SH A	8300	325	85	650	0,8	30,89	22,41	15,54	38	-0,7 +1,8	0,28	1	5
42	64 SH D	7000	560	146	1120	0,75	60,4	45,5	29,8	46	-1 +2	0,23	0,9	3,6
42	92 SH A	7000	265	69	530	0,8	15,4	10,4	7,4	46	-1 +2	0,32	1	5
42	98 SH A	7000	450	117	900	0,8	45,5	33,2	23,0	46	-1 +2	0,32	1	5
48	64 SH D	6350	655	170	1310	0,75	71,0	53,5	35,0	51	-1 +2,1	0,25	1	3,6
48	92 SH A	6350	310	81	620	0,8	17,8	12,0	8,6	51	-1 +2,1	0,36	1,1	5
48	98 SH A	6350	525	137	1050	0,8	52,3	38,1	26,4	51	-1 +2,1	0,36	1,1	5
55	64 SH D	5550	825	215	1650	0,75	92,3	69,5	45,5	60	-1 +2,2	0,27	1	3,6
55	92 SH A	5550	410	107	820	0,8	24,5	16,5	11,8	60	-1 +2,2	0,38	1,1	5
55	98 SH A	5550	685	178	1370	0,8	70,6	51,4	35,6	60	-1 +2,2	0,38	1,1	5
65	64 SH D	4950	1175	306	2350	0,75	141,1	102,5	59,8	68	-1 +2,6	0,3	1,1	3,6
65	92 SH A	4950	590	160	1220	0,8	40,4	27,8	19,8	68	-1 +2,6	0,42	1,2	5
65	98 SH A	4950	940	244	1880	0,8	100,7	73,7	51,0	68	-1 +2,6	0,42	1,2	5
75	64 SH D	4150	2400	624	4800	0,75	294,4	213,8	124,8	80	-1,5 +3	0,34	1,1	3,6
75	92 SH A	4150	1220	326	2500	0,8	84,6	58,1	41,4	80	-1,5 +3	0,48	1,2	5
75	98 SH A	4150	1920	499	3840	0,8	209,6	153,5	106,3	80	-1,5 +3	0,48	1,2	5
90	64 SH D	3300	4500	1128	9000	0,75	550,5	338,4	183,3	100	-1,5 +3,4	0,36	1,1	3,6
90	92 SH A	3300	2350	610	4700	0,8	158,7	109,1	77,7	100	-1,5 +3,4	0,5	1,2	5
90	98 SH A	3300	3550	880	7100	0,8	413,4	273,0	134,2	100	-1,5 +3,4	0,5	1,2	5

T_{KN} = Nominal torque of coupling given in Nm
Continuous torque which can be transmitted throughout the entire speed range, taking into consideration operational factors such as ambient temperatures and torsional stiffness.

T_{Kmax} = Maximum torque of coupling given in Nm
Torque which can be transmitted as dynamic load ≥10^5 times or 5 x 10^4 as alternating load, respectively, during the entire operating life of the coupling, taking into account the operating factors.

T_{KW} = Alternating torque of coupling given in Nm
Amplitude of the permissible continuous torque fluctuation with max. f = 10 Hz and a basic load up to T_{KN}.

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Elastomer Jaw Couplings RINGFEDER® ECE 6518

Explanations

$d_{1k,2kmin}$	= Min. bore diameter with keyway acc. to DIN 6885-1	D_G	= Thread	ΔK_a at n = 1500 1/min	= Max. permissible axial misalignment at n = 1500 1/min
$d_{1k,2kmax}$	= Max. bore diameter with keyway acc. to DIN 6885-1	T_A	= Max. tightening torque of the clamping screws	ΔK_r at n = 1500 1/min	= Max. permissible radial misalignment at n = 1500 1/min
D	= Max. outer diameter	Gw	= Weight	ΔK_w at n = 1500 1/min	= Max. permissible angular misalignment at n = 1500 1/min
C_1	= Guided length in hub bore d_1	n_{max}	= Max. rotational speed	Φ at T_{Kmax}	= Torsional angle at T_{Kmax}
C_2	= Guided length in hub bore d_2	T_{KW}	= Transmissible torque for changing direction of rotation		
D_1	= Outer diameter hub	T_{Kmax}	= Max. transmissible torque		
H_3	= Length of damping component	ψ	= Relative damping		
l	= Distance between center screw hole and hub end	C_{Tdyn} at $1*T_{KN}$	= Dynamic torsional stiffness at $1*T_{KN}$		
L	= Totel length	C_{Tdyn} at $0,5*T_{KN}$	= Dynamic torsional stiffness at $0,5*T_{KN}$		
L_3	= Section length	C_{Tdyn} at $0,25*T_{KN}$	= Dynamic torsional stiffness at $0,25*T_{KN}$		
T_{KN}	= Transmissible torque at given T_A				
d_{bz}	= Inner diameter elastomer spider				

Technical Information

- All dimensions are in millimeters, unless otherwise specified.
- Hubs made of cast iron, elastomer spiders made of polyurethane.
- Shaft tolerance to be within fit tolerance: g6, h7.
- For coupling sizes 38-55, as standard with yellow elastomer spider (92 SH A). For coupling sizes 65-90, as standard with red elastomer spider (98 SH A).
- Different hub designs can be combined. Hubs optionally available without bore.
- Available are: Complete couplings, single hubs, single elastomer spiders.
- The values given for max. permissible axial, angular and radial shaft misalignment may not occur simultaneously.

Ordering example

Series	Type	Size	Design Hub 1	Bore diameter d_{1k}	Design Hub 2	Bore diameter d_{2k}	Elastomer Spider Hardness
ECE	6518	65	1	35	1	38	98 SH A

Further information on
RINGFEDER® ECE 6518
on **www.ringfeder.com**

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