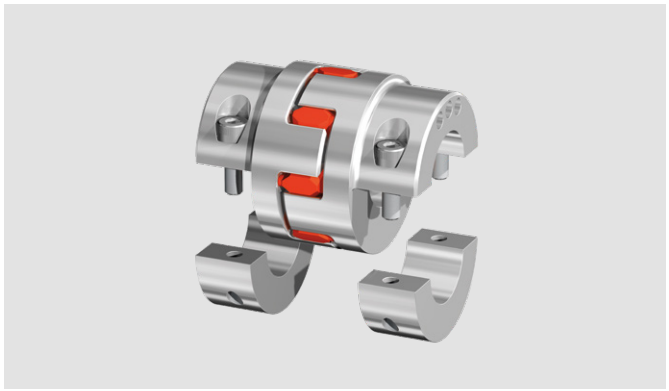
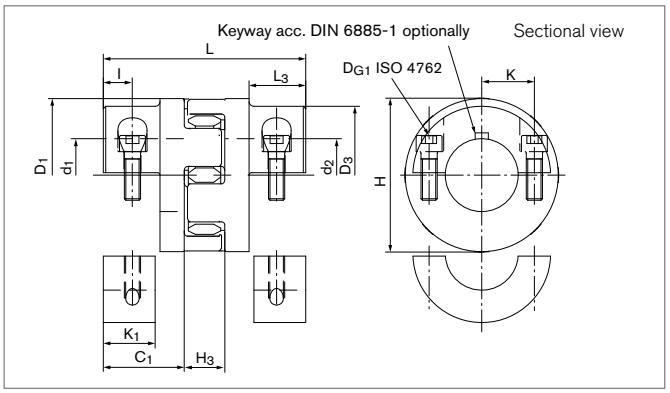
Elastomer Jaw Couplings

RINGFEDER® GWE 5106

Servo-Insert coupling with clamping hubs in split hub design





Size	$d_1;d_2$ min-max	$d_{1k};d_{2k}$ min-max	C_1	D_1	D_3	H	H_3	l	K	K_1	L	L_3
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
14	5 - 16	5 - 16	11	30	---	32,5	13	5	11	8	35	---
19	6 - 20	6 - 20	25	40	---	46	16	7	14,5	12	66	---
24	10 - 32	10 - 32	30	55	---	57	18	10,5	20	19	78	---
28	10 - 38	10 - 38	35	65	---	71	20	11,5	24,5	21,5	90	---
38	12 - 48	12 - 48	45	80	---	83	24	15,5	30	31	114	---
42	14 - 54	14 - 54	50	95	85	95	26	18	32,5	32	126	28
48	15 - 60	15 - 60	56	105	95	106	28	21	36	38	140	32
55	35 - 74	35 - 74	65	120	---	120	30	26	45	46,5	160	---
65	35 - 80	35 - 80	75	135	---	135	35	28	50	52	185	---
75	30 - 95	30 - 95	85	160	---	160	40	36	60	65,5	210	---

Transmission of the couplings transmissible torque T can not longer be guaranteed for certain with borings < d_{min}. Types with borings < d_{min}, however, can be supplied.

Moment of inertia and weight (mass) are calculated with reference to the largest bore size.

Size	T	H_{es}	n_{max}	J	Gw	D_{G1}	T_{A1}
	Nm		1/min	$10^{-3}kgm^2$	kg	mm	Nm
14	12,5	98 SH A	13000	0,006	0,042	2 x M3	2
19	17	98 SH A	10000	0,036	0,158	2 x M6	11
24	60	98 SH A	7000	0,15	0,304	2 x M6	15
28	160	98 SH A	6000	0,33	0,505	2 x M8	32
38	325	98 SH A	5000	0,96	0,934	2 x M8	38
42	450	98 SH A	4000	4,92	3,8	2 x M10	84
48	525	98 SH A	3600	8,26	4,9	2 x M12	145
55	685	98 SH A	3150	19,15	10,2	2 x M12	145
65	940	98 SH A	2800	30,72	13,7	2 x M12	145
75	1920	98 SH A	2350	66,68	21,34	2 x M16	295

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Transmissible torque T [Nm]

Size	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø16	Ø20	Ø25	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø60	Ø65	Ø70	Ø80	Ø90	Ø95
	Nm																				
14	3,7	4,4	5,9	7,4	8,8	10,3	11,8	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	12,6	17	17	17	17	17	17	---	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	29	34	40	46	57	60	60	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	46	55	65	74	92	116	139	162	---	---	---	---	---	---	---	---	---	---
38	---	---	---	---	66	77	88	110	137	165	192	219	247	---	---	---	---	---	---	---	---
42	---	---	---	---	---	139	159	198	248	298	347	397	446	---	---	---	---	---	---	---	---
48	---	---	---	---	---	---	233	292	364	437	510	525	525	525	525	---	---	---	---	---	---
55	---	---	---	---	---	---	---	---	---	---	510	583	656	685	685	685	685	685	---	---	---
65	---	---	---	---	---	---	---	---	---	---	510	583	656	728	801	874	940	940	940	---	---
75	---	---	---	---	---	---	---	---	---	---	783	895	1007	1119	1231	1343	1455	1567	1790	1920	1920

Explanations

$d_1;d_{2min}$ = Min. bore diameter d_1/d_2

$d_1;d_{2max}$ = Max. bore diameter d_1/d_2

$d_{1k};d_{2kmin}$ = Min. bore diameter d_1/d_2 with keyway acc. to DIN 6885-1

$d_{1k};d_{2kmax}$ = Max. bore diameter d_1/d_2 with keyway acc. to DIN 6885-1

C_1 = Guided length in hub bore

D_1 = Outer diameter

H = Clearance diameter

H_3 = Length of damping module

I = Distance between center screw hole and hub end

K = Distance shaft axis - clamping screw axis

K_1 = Clamping length

L = Total length

L_3 = Length

T = Transmissible torque at given T_A

H_{es} = Hardness of the elastomeric spider

n_{max} = Max. rotation speed

J = Total moment of inertia

Gw = Weight

D_{G1} = Thread

T_{A1} = Tightened torque of clamping screw D_{G1}

Ordering example

Series Size	Bore diameter d_1	Bore diameter d_2	Spider hardness (optional) [1]	Spider bore d_{bz} (optional) [1]	Further details
GWE 5106-42	40	41	92 SH A	42	*

[1] If a different spider hardness is selected, the detailed technical data for the sprockets must be observed. See chapter „Elastomer Jaw Couplings RINGFEDER® GWE Technical description“ in Product Paper & Tech Paper „RINGFEDER® Elastomer Jaw Couplings“

* Keyway

Technical Information

- Hubs up to size 48 made of aluminum, from size 55 made of steel

Further information on
RINGFEDER® GWE 5106
on **www.ringfeder.com**

RINGFEDER POWER TRANSMISSION