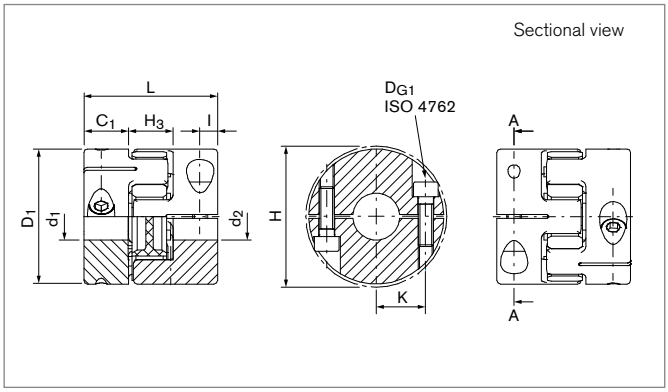
Elastomer Jaw Couplings

RINGFEDER® GWE 5113

Servo-Insert coupling with clamping hubs, short length and single slit



Size	$d_1;d_2$ min-max Without keyway	$d_{1k};d_{2k}$ min-max With keyway	C_1	D_1	H	H_3	l	K	L
	mm	mm	mm	mm	mm	mm	mm	mm	mm
12	4 - 12	6 - 12	11	24,5	26	12	5	8,1	34
14	5 - 15	6 - 15	9,5	29,5	33	13	5	10,5	32
19	8 - 20	8 - 20	17	39,5	45	16	8	14	50
24	10 - 32	10 - 32	18	54,5	57	18	7	20	54
28	14 - 35	14 - 35	21	64,5	68	20	9	23,8	62
38	15 - 45	15 - 45	26,5	79,5	86	23	13	29,5	76
42	20 - 56	20 - 56	38	94,5	95	26	13,5	35	102

Larger bore diameters (d_1, d_2) than specified in the table above can be realized in specific case of need. Please consult our experts in this matter. 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	n_{max}	J	H_{es}	D_{G1}	T_{A1}	Gw
	Nm	1/min	$10^{-3}kgm^2$		mm	Nm	kg
12	9	15000	0,00296	98 SH A	2 x M3	2,1	0,033
14	12,5	13000	0,006	98 SH A	2 x M4	5	0,05
19	17	10000	0,029	98 SH A	2 x M6	14	0,14
24	60	7000	0,104	98 SH A	2 x M6	15	0,21
28	160	6000	0,250	98 SH A	2 x M8	35	0,377
38	325	5000	0,713	98 SH A	2 x M10	49	0,694
42	450	4000	1,793	98 SH A	2 x M10	69	1,21

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Transmissible torque T [Nm] of the Shaft-Hub-Connection

Size	Ø3	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø15	Ø18	Ø20	Ø25	Ø26	Ø28	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø56
	Nm																				
12	---	3,5	4,3	5,1	6,8	8,4	9	---	---	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	8,4	10,2	12,5	12,5	12,5	12,5	12,5	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	17	17	17	17	17	17	17	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	35	42	48	52	60	60	60	60	60	60	---	---	---	---	---	---
28	---	---	---	---	---	---	---	96	102	121	133	160	160	160	160	160	---	---	---	---	---
38	---	---	---	---	---	---	---	---	143	172	191	238	248	267	286	325	325	325	---	---	---
42	---	---	---	---	---	---	---	---	---	---	221	277	288	310	332	387	443	450	450	450	450

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

L = Total length

T = Transmissible torque at given T_A

n_{max} = Max. rotation speed

J = Total moment of inertia

H_{es} = Hardness of the elastomeric spider

D_{G1} = Thread

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

Gw = Weight

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 5113-42	**20**	**42**	**98 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 or stainless steel

Further information on
RINGFEDER® GWE 5113
on **www.ringfeder.com**