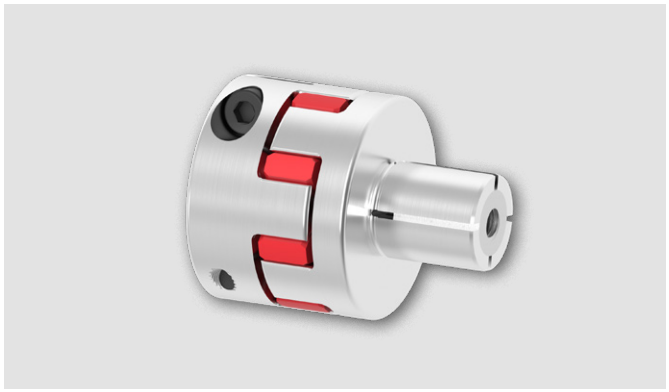
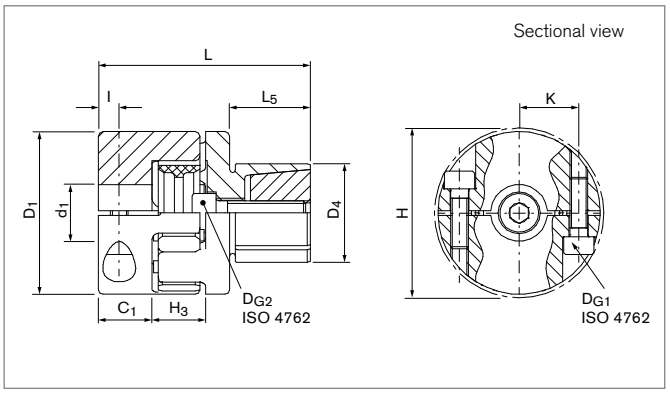
Elastomer Jaw Couplings

RINGFEDER® GWE 5117

Servo-Insert coupling with clamping hubs and expanding clamps





Size	d_1 min-max	d_{1k} min-max	C_1	D_1	D_4 min-max	H	H_3	l	K	L	L_5
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
12	4 - 12	6 - 12	11	24,5	10 - 15	26	12	5	8,1	42	12
14	5 - 15	6 - 15	9,5	29,5	13 - 25	33	13	5	10,5	47,5	20
19	8 - 20	8 - 20	17	39,5	14 - 30	45	16	8	14	65,5	25
24	10 - 32	10 - 32	18	54,5	23 - 36	57	18	7	20	71	27
28	14 - 35	14 - 35	21	64,5	26 - 42	68	19	9	23,8	82	32

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}	D_{G2}	T_{A2}
	Nm		1/min	10^{-3} kgm^2	kg	mm	Nm	mm	Nm
12	9	98 SH A	15000	0,0043	0,06	2 x M3	2,1	1 x M4	4
14	12,5	98 SH A	13000	0,008	0,09	2 x M4	5	1 x M5	9
19	17	98 SH A	10000	0,036	0,18	2 x M6	14	1 x M6	12
24	60	98 SH A	7000	0,138	0,38	2 x M6	15	1 x M8	32
28	160	98 SH A	6000	0,318	0,67	2 x M8	35	1 x M10	60

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Transmissible torque T [Nm]

Size	Ø4	Ø5	Ø6	Ø8	Ø10	Ø12	Ø14	Ø15	Ø18	Ø20	Ø25	Ø26	Ø28	Ø30	Ø35
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

Explanations

d_{1min} = Min. bore diameter d_1

d_{1max} = Max. bore diameter d_1

d_{1kmin} = Min. bore diameter d_1 with keyway acc. to DIN 6885-1

d_{1kmax} = Max. bore diameter d_1 with keyway acc. to DIN 6885-1

C_1 = Guided length in hub bore

D_1 = Outer diameter

$D_{4\ min}$ = Min. outer diameter of the cone hub

$D_{4\ max}$ = Max. outer diameter of the cone hub

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

L_5 = Expending mandrel 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}

D_{G2} = Thread

T_{A2} = Tightened torque of clamping screw D_{G2}

Ordering example

Series Size	Bore diameter d_1	Outer diameter of the cone hub D_4	Spider hardness (optional) [1]	Spider bore d_{bz} (optional) [1]	Further details
GWE 5117-24	25	30	92 SH A	24	*

[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

Further information on
RINGFEDER® GWE 5117
on **www.ringfeder.com**

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