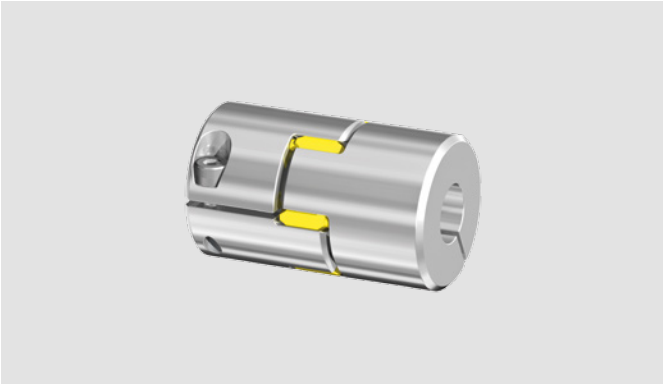
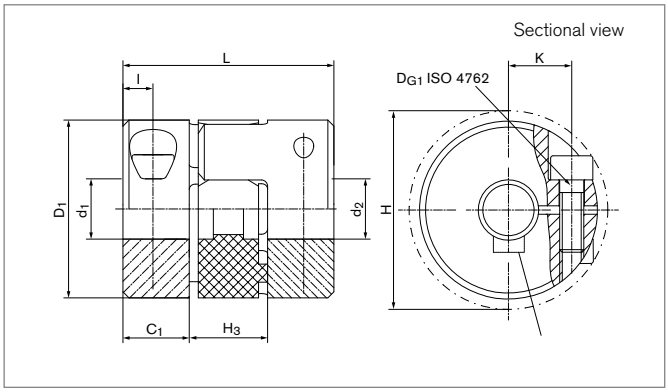
Elastomer Jaw Couplings

RINGFEDER® GWE 5103.1

Miniature coupling with extended clamping hubs and single slit





Size	$d_1;d_2$ min-max	$d_{1k};d_{2k}$ min-max	C_1	D_1	H	H_3	l	K	L
	mm	mm	mm	mm	mm	mm	mm	mm	mm
5	2 - 4	--- - ---	5	10	11,5	5	2,5	3,2	15
7	3 - 7	6 - 7	7	14	16,5	8	3,5	5	22
9	3 - 11	6 - 11	10	20	23,5	10	5	7,3	30

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
5	0,5	92 SH A	38000	0,000034	0,005	1 x M1,6	0,25
7	1,2	92 SH A	27000	0,000196	0,009	1 x M2	0,35
9	3	92 SH A	19000	0,00108	0,015	1 x M2,5	0,75

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Transmissible torque T [Nm]

Size	Transmissible torque									
	Ø2	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11
	Nm									
5	0,5	0,5	0,5	---	---	---	---	---	---	---
7	---	0,8	1,1	1,2	1,2	1,2	---	---	---	---
9	---	1,5	2	2,5	2,9	3	3	3	3	3

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

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 5103.1-9	10	11	80 SH A	6,5	*

[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 5103.1
on **www.ringfeder.com**