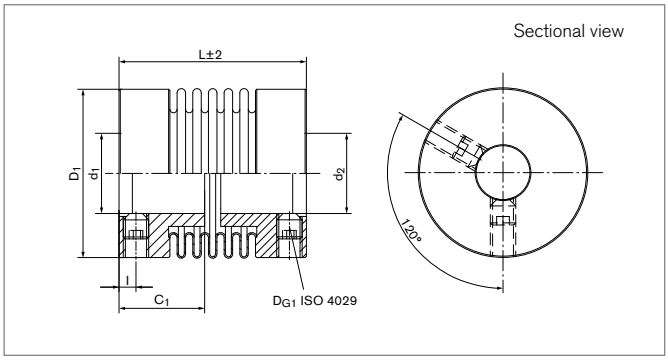
Metal Bellows Couplings
RINGFEDER® GWB EKN
Miniature metal bellows coupling with radial set screws





Size	L	$d_1;d_2$ min-max	$d_{1k};d_{2k}$ min-max	C_1	D_1	l
	mm	mm	mm	mm	mm	mm
4	20	3 - 9	6 - 8	6	16	2
4	23	3 - 9	6 - 8	6	16	2
4	26	3 - 9	6 - 8	6	16	2
9	21	3 - 9	6 - 8	6	16	2
9	25	3 - 9	6 - 8	6	16	2
9	28	3 - 9	6 - 8	6	16	2
15	25	3 - 12	6 - 10	10	20	3
15	30	3 - 12	6 - 10	10	20	3
20	26	3 - 16	6 - 14	11	25	2
20	32	3 - 16	6 - 14	11	25	2
20	36	3 - 16	6 - 14	11	25	2
45	39	6 - 22	6 - 16	16	33	4
45	48	6 - 22	6 - 16	16	33	4
100	44	6 - 28	6 - 25	20	40	4
100	54	6 - 28	6 - 25	20	40	4

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

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

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Size	T	n_{max}	C_{Tdyn}	C_r	C_a	ΔK_a	ΔK_w	ΔK_r	J	D_{G1}	T_{A1}	Gw
	Nm	1/min	10^3 Nm/rad	N/mm	N/mm	mm	degree	mm	10^{-3}kgm^2	mm	Nm	kg
4	0,5	15000	0,25	128	18	0,2	1,2	0,1	0,0002	1 x M3	0,5	0,005
4	0,5	15000	0,19	54	13	0,3	2,0	0,15	0,0002	1 x M3	0,5	0,006
4	0,5	15000	0,15	26	11	0,4	2,0	0,2	0,0002	1 x M3	0,5	0,007
9	1,1	15000	0,50	187	36	0,2	1,2	0,1	0,0002	1 x M3	0,5	0,006
9	1,1	15000	0,38	82	27	0,3	2,0	0,15	0,0002	1 x M3	0,5	0,007
9	1,1	15000	0,30	42	22	0,4	2,0	0,2	0,0003	1 x M3	0,5	0,008
15	1,75	15000	0,75	139	12	0,25	1,2	0,1	0,0008	2 x M4	1,5	0,012
15	1,75	15000	0,70	81	23	0,4	2,0	0,15	0,0008	2 x M4	1,5	0,014
20	2,4	15000	1,50	147	18	0,3	1,2	0,1	0,0014	2 x M3	1,5	0,016
20	2,4	15000	1,30	96	14	0,4	2,0	0,2	0,0016	2 x M3	1,5	0,018
20	2,4	15000	1,00	46	9	0,5	2,0	0,25	0,0017	2 x M3	1,5	0,020
45	5,5	15000	6,50	444	47	0,3	1,2	0,1	0,0068	2 x M6	3	0,048
45	5,5	15000	4,00	108	29	0,5	2,0	0,2	0,0073	2 x M6	3	0,052
100	12	15000	8,10	361	46	0,4	1,2	0,15	0,0200	2 x M6	3	0,048
100	12	15000	6,70	193	34	0,5	2,0	0,25	0,0220	2 x M6	3	0,058

Transmissible torque T [Nm]

Size	Ø3	Ø4	Ø5	Ø6	Ø7	Ø8	Ø9	Ø10	Ø11	Ø12	Ø13	Ø14	Ø15	Ø16	Ø17	Ø18	Ø20	Ø22	Ø24	Ø26	Ø28
4	0,5	0,5	0,5	0,5	0,5	0,5	0,5	---	---	---	---	---	---	---	---	---	---	---	---	---	---
9	0,9	0,7	1,1	1,1	1,1	1,1	1,1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
15	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	1,75	---	---	---	---	---	---	---	---	---	---	---
20	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	2,4	---	---	---	---	---	---	---
45	---	---	---	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	5,5	---	---	---
100	---	---	---	7,3	8,5	9,7	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12

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Explanation

L	= Total length	**l**	= Distance between center screw hole and hub end	**ΔK_r**	= Max. permissible radial misalignment
d_1;d_{2min}	= Min. bore diameter d_1/d_2	**T**	= Transmissible torque at given T_A	**J**	= Total moment of inertia
d_1;d_{2max}	= Max. bore diameter d_1/d_2	**n_{max}**	= Max. rotation speed	**n_{Sc1}**	= Quantity of screws D_{G1}
d_{1k};d_{2kmin}	= Min. bore diameter d_1/d_2 with keyway acc. to DIN 6885-1	**C_{Tdyn}**	= Dynamic torsional stiffness	**D_{G1}**	= Thread
d_{1k};d_{2kmax}	= Max. bore diameter d_1/d_2 with keyway acc. to DIN 6885-1	**C_r**	= Radial spring stiffness	**T_{A1}**	= Tightened torque of clamping screw D_{G1}
C_1	= Guided length in hub bore	**C_a**	= Axial spring stiffness	**Gw**	= Weight
D_1	= Outer diameter	**ΔK_a**	= Max. permissible axial misalignment		
		ΔK_w	= Max. permissible angular misalignment		

Ordering example

Series/Size	Length	Bore diameter d_1	Bore diameter d_2	Further details
EKN 20	26	6	10	*

* Keyway

Further information on
RINGFEDER® GWB EKN
on **www.ringfeder.com**

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