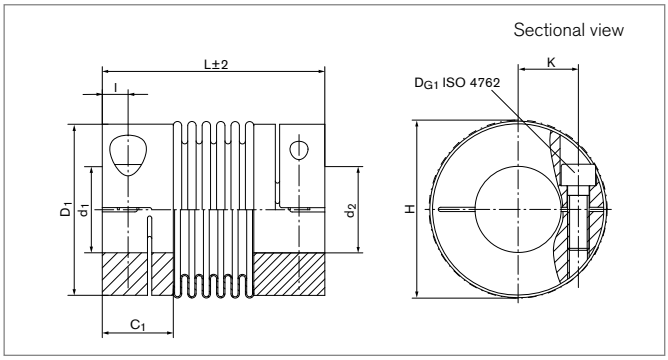
Metal Bellows Couplings

RINGFEDER® GWB AKD

Metal bellows coupling with clamping hubs



Size	L	$d_1;d_2$ min-max	C_1	D_1	H	l	K
	mm	mm	mm	mm	mm	mm	mm
18	71	8 - 26	19,2	45	47	6	18
30	73	10 - 30	24,1	55	56	8	20
60	89	12 - 35	28,6	64	67	10	24
80	103	14 - 42	32,4	80	84	12	28
150	103	14 - 42	32,4	80	84	12	28
200	113	22 - 46	36,9	90	93	13	31
300	115	24 - 60	36,9	110	110	13	39
500	122	35 - 64	40,4	119	122	15	43
800	140	40 - 75	45,2	132	139	17	48

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.

Size	T	n_{max}	C_r	C_a	C_{Tdyn}	ΔK_a	ΔK_w	ΔK_r	J	D_{G1}	T_{A1}	Gw
	Nm	1/min	N/mm	N/mm	10^3 Nm/rad	mm	degree	mm	$10^{-3}kgm^2$	mm	Nm	kg
18	22	12700	85	40	6	0,5	1,5	0,2	0,06	1 x M5	6	0,143
30	36	10200	220	30	25	0,5	1,5	0,2	0,1	1 x M6	12	0,263
60	75	8600	330	55	50	0,5	1,5	0,2	0,3	1 x M8	30	0,434
80	95	6800	400	55	75	0,5	1,5	0,2	0,9	1 x M10	60	0,792
150	180	6800	600	85	100	0,5	1,5	0,2	0,9	1 x M10	85	0,792
200	240	6300	450	85	120	0,5	1,5	0,2	1,5	1 x M12	100	1,117
300	360	5900	1500	150	280	0,5	1,5	0,2	3,2	1 x M12	120	1,495
500	600	4900	1000	85	310	1	1,5	0,2	4,9	1 x M14	190	2,038
800	800	5000	6200	100	780	3,5	1,5	0,35	17,5	2 x M16	250	6,06

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Transmissible torque T [Nm]

Size	Ø8	Ø9	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18	Ø20	Ø25	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø60	Ø64	Ø70	Ø75
18	18	20	22	22	22	22	22	22	22	22	22	---	---	---	---	---	---	---	---	---	---
30	---	---	36	36	36	36	36	36	36	36	36	36	---	---	---	---	---	---	---	---	---
60	---	---	---	---	75	75	75	75	75	75	75	75	75	---	---	---	---	---	---	---	---
80	---	---	---	---	---	---	95	95	95	95	95	95	95	95	---	---	---	---	---	---	---
150	---	---	---	---	---	---	180	180	180	180	180	180	180	180	---	---	---	---	---	---	---
200	---	---	---	---	---	---	---	---	---	---	240	240	240	240	240	---	---	---	---	---	---
300	---	---	---	---	---	---	---	---	---	---	360	360	360	360	360	360	360	360	---	---	---
500	---	---	---	---	---	---	---	---	---	---	---	---	600	600	600	600	600	600	600	---	---
800	---	---	---	---	---	---	---	---	---	---	---	---	---	800	800	800	800	800	800	800	800

Explanation

L = Total length
d_1;d_{2min} = Min. bore diameter d_1/d_2
d_1;d_{2max} = Max. bore diameter d_1/d_2
C_1 = Guided length in hub bore
D_1 = Outer diameter
H = Clearance diameter
I = Distance between center screw hole and hub end
K = Distance shaft axis - clamping screw axis
T = Transmissible torque at given T_A
n_{max} = Max. rotation speed
C_r = Radial spring stiffness
C_a = Axial spring stiffness
C_{Tdyn} = Dynamic torsional stiffness
ΔK_a = Max. permissible axial misalignment
ΔK_w = Max. permissible angular misalignment
ΔK_r = Max. permissible radial misalignment
J = Total moment of inertia
n_{Sc1} = Quantity of screws D_{G1}
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	Further details
AKD 150	30	35	*

* Keyway or stainless steel

More information about
RINGFEDER® GWB AKD
on **www.ringfeder.com**

RINGFEDER POWER TRANSMISSION