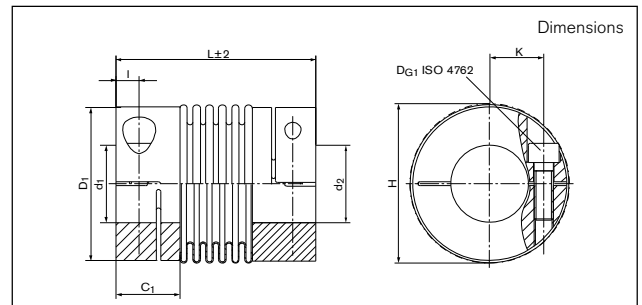
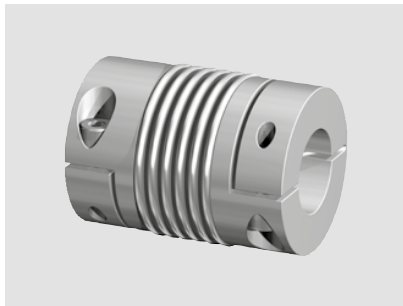


Backlash-free Metal Bellows Couplings

GERWAH® AKD



Dimensions

- d₁, d_{2min}** = Min. bore diameter
- d₁, d_{2max}** = Max. bore diameter
- d_{1k}, d_{2kmin}** = Min. bore diameter with keyway acc. to DIN 6885-1
- d_{1k}, d_{2kmax}** = Max. bore diameter with keyway acc. to DIN 6885-1
- C₁** = Guided length in hub boring
- D₁** = Outer diameter hub
- H** = Clearance diameter
- I** = Distance between center screw hole and hub end
- K** = Distance shaft axis - clamping screw axis
- L** = Total length

Size	d ₁ ; d ₂ min-max		C ₁	D ₁	H	I	K	L
	Without keyway	With keyway						
	mm	mm	mm	mm	mm	mm	mm	mm
18	8 - 26	8 - 26	20	45	47	6	18	71
30	10 - 30	10 - 30	25	55	56	8	20	73
60	12 - 35	12 - 35	29	64	67	10	24	89
80	14 - 42	14 - 42	34	80	84	12	28	103
150	14 - 42	14 - 42	34	80	84	12	28	103
200	22 - 46	22 - 46	38	90	93	13	31	113
300	24 - 60	24 - 60	38	110	110	13	39	115
500	35 - 64	35 - 64	41	119	122	15	43	122
800	40 - 75	40 - 75	45	132	139	17	48	140

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.

To continue see next page

Backlash-free Metal Bellows Couplings
GERWAH® AKD
Technical Data

T = Transmissible torque at given T_A	C_a = Axial spring stiffness	J = Total moment of inertia
n_{max} = Max. rotation speed	ΔKa = Max. permissible axial misalignment	Gw = Weight
C_{tdyn} = Dynamic torsional stiffness	ΔKw = Max. permissible angularly misalignment	DG1 = Thread diameter
C_r = Radial spring stiffness	ΔKr = Max. permissible radial misalignment	T_{A1} = Tightened torque of clamping screw (G1)

Size	T	n _{max}	C _{tdyn}	C _r	C _a	ΔKa	ΔKw	ΔKr	J	Gw	DG1	T _{A1}
	Nm	1/min	10 ³ Nm/rad	N/mm		mm	Degree	mm	10 ⁻³ Kgm ²	kg	mm	Nm
18	22	12700	6	85	40	0,5	1,5	0,2	0,06	0,143	1 x M5	6
30	36	10200	25	220	30	0,5	1,5	0,2	0,1	0,263	1 x M6	12
60	75	8600	50	330	55	0,5	1,5	0,2	0,3	0,434	1 x M8	30
80	95	6800	75	400	55	0,5	1,5	0,2	0,9	0,792	1 x M10	60
150	180	6800	100	600	85	0,5	1,5	0,2	0,9	0,792	1 x M10	85
200	240	6300	120	450	85	0,5	1,5	0,2	1,5	1,117	1 x M12	100
300	360	5900	280	1500	150	0,5	1,5	0,2	3,2	1,495	1 x M12	120
500	600	4900	310	1000	85	1	1,5	0,2	4,9	2,038	1 x M14	190
800	800	5000	780	6200	100	3,5	1,5	0,35	17,5	6,06	2 x M16	250

Transmissible torque T [Nm]

Size	Ø8	Ø9	Ø10	Ø11	Ø12	Ø14	Ø15	Ø16	Ø18	Ø20	Ø25	Ø30	Ø35	Ø40	Ø45	Ø50	Ø55	Ø60	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	---	---
800	---	---	---	---	---	---	---	---	---	---	---	---	---	800	800	800	800	800	800	800

Ordering example: AKD

Series/Size	Bore diameter d1	Bore diameter d2	Further details
AKD 150	30	35	*

* Keyway or stainless steel

Subject to technical changes.