Metal Bellows Coupling I Series KM

6-corrugation bellows ◢ simple installation with lateral EASY-clamping hub ◢ low-cost standard series

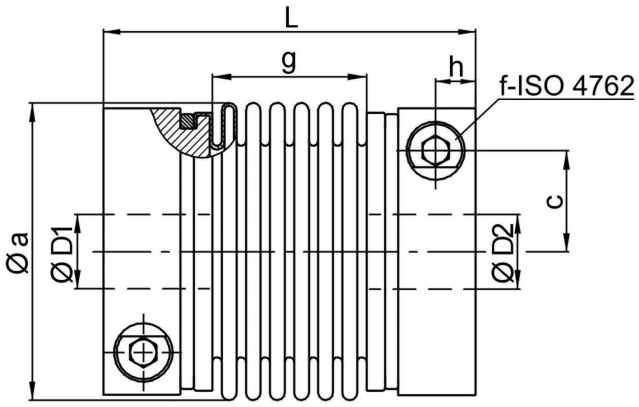
technical data:

KM	TN	moment of inertia	torsional stiffness	max. shaft misalignment (mm)		axial spring rate	lateral spring rate	tightening torque of screws	nmax.
size	[Nm]	[10^{-3}kgm^2]	[Nm/arcmin]	axial±	lateral	[N/mm]	[N/mm]	[Nm]	[rpm]
20	20	0,14	5,2	0,8	0,25	51	190	14	17000
35	35	0,14	5,8	0,8	0,25	51	190	14	17000
60	60	0,29	8,7	0,9	0,3	49	260	30	16000
80	80	0,79	14	1	0,3	45	280	50	12000
170	170	0,83	17	1	0,3	80	470	50	12000
270	270	2,2	32	1	0,3	70	450	90	10000
400	400	2,4	47	1	0,3	100	640	90	10000
600	600	5,3	67	1	0,3	100	980	140	8000
900	900	9	105	1	0,3	145	1000	180	7500
1300	1300	14	170	1	0,3	130	920	240	6500

smaller couplings from 0,4 Nm - 12 Nm see series MKM

temperature range: -40°C up to +200°C

material:
hubs: high-tensile strength aluminum
screws: ISO 4762 / 12.9
bellows: stainless steel



Dimensions [mm]: length dimensions according to DIN ISO 2768 cH

KM	Øa	c	f	g	h	L	L*	mass ~ [kg]	ØD1/2 min	ØD1/2 max
20	56	19	M 6	30	8	70	81	0,3	8	32
35	56	19	M 6	30	8	70	81	0,3	10	32
60	66	22	M 8	33	9	77	87	0,5	13	35
80	82	28,5	M 10	38	11,5	90	102	0,8	16	43
170	82	28,5	M 10	40	11,5	92	104	0,8	18	43
270	101	35	M 12	42	13	100	106	1,4	25	55
400	101	35	M 12	48	13	106	112	1,5	30	55
600	122	42	M 14	52	16	120	-	2,4	32	68
900	133	47	M 14	53	18,5	143	-	3,5	40	75
1300	157	54	M 16	55	20	145	-	4,2	48	85

note: L* ≙ variable length with bigger clamping hub size (see order example)
· version with steel hub and plasma welded joint, as well as higher torques see series „KG“

order example: KM 170 - D1 = 30 ^{G7} D2 = 35 ^{H6}
KM 170 | 104 - D1 = 28 G^6 D2 = 42 G^6