Metal Bellows Coupling I Series KG-HS

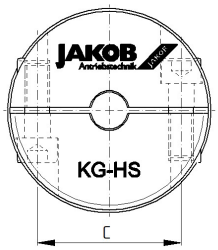
- High-speed version for the highest operating speeds
- Rotationally symmetrical clamping hub for optimum balancing quality

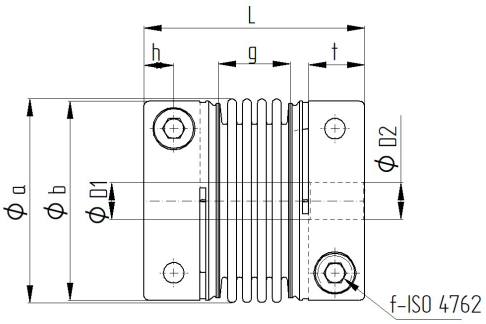
technical data:

KG-HS size	T_N [Nm]	moment of inertia [10^{-3}kgm^2]	torsional stiffness [Nm/arcmin]			max. shaft misalignment [mm] axial±			lateral			axial spring rate [N/mm]			lateral spring rate [N/mm]			nmax [rpm]
			2W	4W	6W	2W	4W	6W	2W	4W	6W	2W	4W	6W	2W	4W	6W	
5	5	0,006	1,3	0,9	0,6	0,2	0,3	0,5	0,05	0,1	0,2	135	75	45	2500	400	140	95.000
10	10	0,035	3,3	2,1	1,3	0,3	0,4	0,5	0,1	0,15	0,25	150	85	60	2300	400	130	78.000
40	40	0,27	16	9	6	0,3	0,6	0,8	0,1	0,2	0,25	130	70	50	2500	450	190	40.000
80	80	0,6	26	14	9	0,3	0,6	0,8	0,1	0,2	0,3	120	70	50	3500	600	260	35.000
220	220	1,7	50	28	17	0,4	0,7	1	0,1	0,2	0,3	170	95	70	5000	1000	470	27.000
400	400	3,3	93	74	47	0,4	0,7	1	0,1	0,2	0,3	170	130	95	7000	1500	500	23.000
1000	1000	11	280	156	105	0,4	0,8	1	0,1	0,2	0,3	380	210	146	18000	3050	1000	17.000

maximum temperature range: -40°C up to +350°C

material:
bellows: stainless steel 1.4571
hubs : Size 5 – 10 stainless steel 1.4301 / size 40 – 400 steel (St52)
screws: ISO 4762 / 12.9





note: Connection of bellows and hubs by micro-plasma welding process.
Three standard variants with 2-corrugated metal bellows 2W, 4-corrugated metal bellows 4W or 6-corrugated metal bellows 6W.

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

KG-HS	Ø a	Ø b	c	f-T_S	g			h	L			t	mass approx.	Ø D1/2	Ø D1/2
					2W	4W	6W		2W	4W	6W		[kg]	min	max
5	24	25,5	16	M3 - 2 Nm	6	11	14	5	33	38	41	10	0,073	6	12
10	34	37	22	M5 - 8 Nm	11	16	23	6,5	48	53	60	13	0,21	8	16
40	56	57	40	M6 - 14 Nm	14	24	34	7,5	56	66	76	15	0,62	10	32
80	66	67	46	M8 - 35 Nm	16	24	35	9,5	66	74	85	18,5	1	12	35
220	82	84	58	M10 - 65 Nm	19	29	41	12	79	89	101	22,5	1,8	14	45
400	101	92	65	M12 - 115 Nm	19	34	49	13	88	103	118	26	2,5	17	50
1000	132	123	92	M14 - 180 Nm	22	38	54	15	96	112	128	28	5,5	20	75

Øb: Projecting edge - screw head
Note: We recommend additional balancing from an operating speed of around 0.3 x nmax. This allows a balancing quality of G 2.5 can be achieved.

order example: KG-HS 5 / 4W - D1 = 8 ^{G7} D2 = 10 ^{G7}
KG-HS 220 / 6W - D1 = 24 ^{G7} D2 = 30 ^{G7}