Metal Bellows Couplings I Series KHS

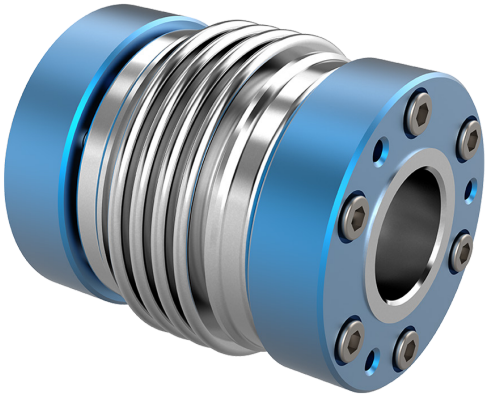
- high-speed version for highest operating speeds
- rotationally symmetrical construction - optimum balance quality
- conical clamping ring hubs on both sides / 4-bladed metal bellows
- corrosion-resistant material version

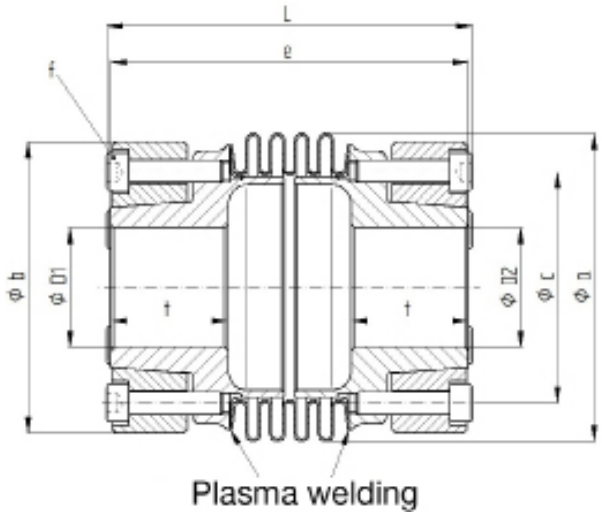
technical data:

KHS Size	nominal torque [Nm]	moment of inertia [10-3kgm2]	torsional stiffness (stat. 0,5 x T_N) [Nm/arcmin]	max. shaft displacement (mm) axial	± lateral	axial spring rate [N/mm]	lateral spring rate [N/mm]	mass approx. [kg]	maximum rot. speed [Upm]
25	25	0,04	3,4	0,5	0,1	55	360	0.25	57000
50	50	0,18	9	0,6	0,1	70	450	0,5	40000
80	80	0,5	26	0,6	0,1	70	600	1,0	35000
220	220	1,1	37	0,6	0,1	150	1600	1,5	28000
450	450	3,0	70	0,7	0,1	135	1500	3,0	23000
700	700	7,0	100	0,7	0,1	145	3000	4,5	19000
2000	2000	30	300	0,7	0,1	145	3000	4,5	19000

temperature range: -40°C up to +200°C

material:
bellows: stainless steel 1.4571
conical hub: stainless steel 1.4301
conical ring: high-tensile aluminum
screws: ISO 4762





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

KHS size	Øa	Øb	Øc	L ±1	e ±1	f-max. torque	t1 / t2	ØD1/2 min	ØD1/2 max
25	40	38	27	67	63	6x M4 - 3Nm	22	5	15
50	56	53	40	74	72	6x M4 - 4Nm	23	9	22
80	66	66	52	82,5	81,5	6x M5 - 8Nm	27,5	11	32
220	82,5	78	62	98	95	6x M6 - 14Nm	31,5	14	40
450	101	98	78	113	109	6x M8 - 30Nm	38	15	48
700	122	113	91	132	129	6x M10 - 50Nm	45	19	60
2000	157	160	125	175	155	8x M10 - 50Nm	58	32	90

note: Optionally balanced with balancing quality „Q1“. Larger sizes on request.

order example: KHS 80 - D1 = 16 ^{G7} D2 = 24 ^{H7}