Metal Bellows Coupling I Series KPH / KMH / KRH

simple installation ◢ split-hub design ◢ backlash-free ◢ torsionally stiff ◢ flexible
◢ stainless design ◢ variable length

technical data:

KPH/KMH/ KRH Size	nominal torque [Nm]	moment of inertia [10^{-3}kgm^2]	torsional stiffness [Nm/arcmin]			max. lateral shaft misalign-ment [mm]			axial spring rate [N/mm]			lateral spring rate [N/mm]			nmax [upm]
			KPH	KMH	KRH	KPH	KMH	KRH	KPH	KMH	KRH	KPH	KMH	KRH	
10	10	0,02	1,7	1,1	-	0,15	0,25	-	70	45	-	224	60	-	28000
40	40	0,2	9	5,8	10	0,2	0,25	0,2	70	51	170	450	190	170	17000
80	80	0,5	14	8,7	12	0,2	0,3	0,3	70	49	95	650	260	80	13000
200	200	1,2	25	17	30	0,2	0,3	0,3	98	80	120	1000	470	120	11000
400	400	3,0	74	47	80	0,2	0,3	0,3	135	100	260	1500	640	260	9500
900	900	8,0	156	105	-	0,2	0,3	-	210	145	-	3050	1000	-	7000

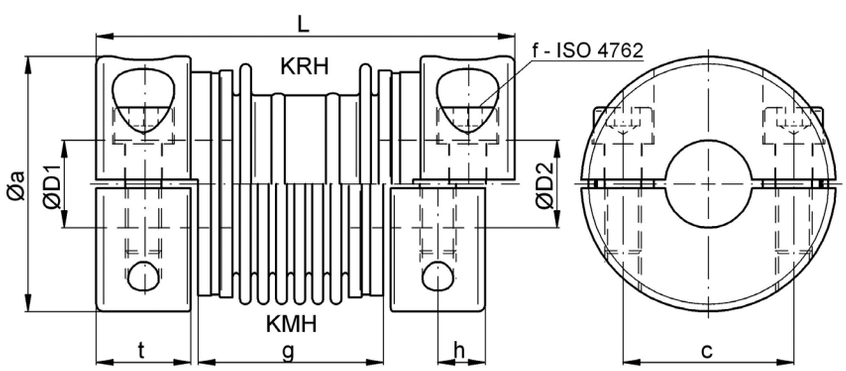
* KRH not available in this size

- three types: type **KPH** with 4-corrugation bellows / type **KMH** mit 6-corrugation bellows / type **KRH** mit 2x 1-corrugation bellows.
- note: for coupling types in split-hub design for higher torques and shorter length see series KGH.

material:
bellows*: stainless steel*
hubs: high-tensile strength aluminum

screws: ISO 4762 / 12.9
temperature range: -40°C up to 200°C

KMH



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

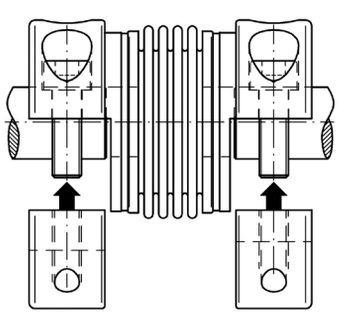
KPH/KMH/ KRH	Øa**	c	f-TA	g			h	L			t	mass ~ [kg]	ØD1/2 min	ØD1/2 max
				KPH	KMH	KRH		KPH	KMH	KRH				
10	35	21	M5 - 8 Nm	33	43	-	9	73	83	-	18	0,1	6	15
40	58	36	M8 - 35Nm	39	48	51	13	95	104	107	26	0,5	9	25
80	75	47	M10 - 65Nm	41	51	59	13	97	107	115	26	0,8	12,5	35
200	89	56	M12 - 115Nm	45,5	57,5	73	14	106	118	134	28	1,2	19	42
400	109	72	M14 - 180Nm	52,5	67,5	84	15	117	132	149	30	2,0	24	55
900	132	94	M14 - 180Nm	62	78	-	16	132	148	-	31	3,3	32	75

** the projecting edge of the screw head is taken into consideration for outer diameter ‘a’

Mounting Instructions:

The split-hub design allows for easy assembly. Further simplification during installation is provided because one half of the split hub can be put onto the shaft. The coupling can rest on the two shaft ends. The second half of the split-hub can then be mounted to the coupling by screwing it on from below with the specified tightening torque. This feature makes a “one man assembly” possible.

Important: the distance between the shafts must be bigger than ‘g’!



order example: KPH 80 - D1 = 24 ^{G7} D2 = 30 ^{G7}
KMH 400 - D1 = 38 ^{F6} D2 = 48 ^{F6}