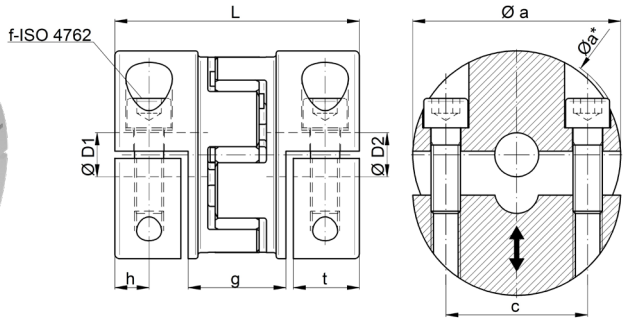
Elastomer Coupling I Series EKH

with split-hub design · plug-in · backlash-free · stainless

technical data:

EKH size	T_N [Nm]	hard-ness [shore]	moment of inertia [10^{-3}kgm^2]	torsional stiffness (stat. 0,5 x T_N) [Nm/arcmin]	max. shaft misalignment (mm) axial ±	lateral	lateral spring rate [N/mm]	nmax [rpm]
15	15	98 Sh-A	0,03	0,24	0,5	0,10	2100	19000
20	20	72 Sh-D	0,03	0,46	0,5	0,07	2900	19000
30	30	98 Sh-A	0,09	0,7	0,5	0,10	2500	15000
45	45	72 Sh-D	0,09	1,1	0,5	0,07	3600	15000
60	60	98 Sh-A	0,2	1,0	0,5	0,10	2600	14000
90	90	72 Sh-D	0,2	2,0	0,5	0,07	3700	14000
150	150	98 Sh-A	0,4	1,2	1	0,10	3300	12000
300	300	98 Sh-A	1,0	3,6	1	0,12	4500	10000
400	400	72 Sh-D	1,0	7,0	1	0,10	6500	10000
700	700	98 Sh-A	6,0	8,0	1	0,15	7000	6500
1000	1000	72 Sh-D	6,0	12	1	0,10	9600	6500
2000	2000	98 Sh-A	62	21	1	0,15	9000	5000

material:
elastomer spider: polyurethane
split-hubs: high tensile aluminum
(size 2000 heat treated steel)
screws: ISO 4762 / 12.9 - coated



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

EKH	Ø a	Ø a*	c	g	h	t	L	f-T_S	mass ~[kg]	Ø D 1/2 min	Ø D 1/2 max
15	40	42	27	26	8,5	16	62	M 5 - 8 Nm	0,17	7	20
20	40	42	27	26	8,5	16	62	M 5 - 8 Nm	0,17	8	20
30	50	52	34	30	10	19	72	M 6 - 14 Nm	0,30	10	26
45	50	52	34	30	10	19	72	M 6 - 14 Nm	0,30	12	26
60	60	63	41	30	11,5	22	78	M 8 - 35 Nm	0,50	12	30
90	60	63	41	30	11,5	22	78	M 8 - 35 Nm	0,50	14	30
150	70	76	48	33	14	26	89	M 10 - 50 Nm	0,75	16	35
300	85	91	58	40	15	28	102	M 12 - 90 Nm	1,30	19	42
400	85	91	58	40	15	28	102	M 12 - 90 Nm	1,30	24	42
700	120	125	90	53	18	34	127	M 14 - 140 Nm	3,20	30	70
1000	120	125	90	53	18	34	127	M 14 - 140 Nm	3,20	42	70
2000	160	165	122	64	24	43	156	M 16 - 290 Nm	18,50	55	100

Installation Instructions:
The split-hub design allows a backlash-free, force-fitted clamping connection with simple operation. For easy assembly, the fixed hub halves can be placed on the shaft pegs and the loose hub pieces can be screwed on. In the case of service, the complicated di-sassembly of the drive and output units isn't necessary. Misalignment errors between the input and output shafts can thus be easily controlled and corrected. The distance between the drive shaft and the output shaft must be greater than the dimension „g".

order example: EKH 200 - D1 = 26 ^{G6} D2 = 32 ^{H6}