

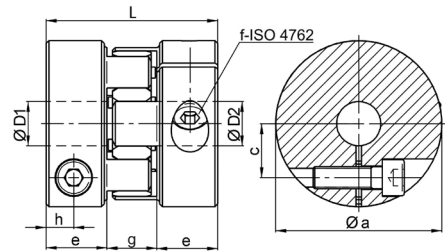
Elastomer Coupling I Series EKM

with clamping hub on both sides / plug-in / backlash-free / cost-effective standard series

technical data:

EKM	T _N	hardness	moment of inertia	torsional stiffness (stat. 0,5 x T _N)	max. shaft misalignment (mm)		lateral spring rate	hubs Ø D 1/2	n _{max}
size	[Nm]	[shore]	[10 ⁻³ kgm ²]	[Nm/arcmin]	axial ±	lateral	[N/mm]	prebored	[upm]
8	8	98 Sh-A	0,01	0,09	0,5	0,10	600	Ø 5	29000
15	15	98 Sh-A	0,03	0,24	0,5	0,10	2100	Ø 6,1	23000
20	20	72 Sh-D	0,03	0,46	0,5	0,10	2900	Ø 6,1	23000
30	30	98 Sh-A	0,09	0,7	0,5	0,10	2500	Ø 8,5	19000
45	45	72 Sh-D	0,09	1,1	0,5	0,10	3600	Ø 8,5	19000
60	60	98 Sh-A	0,18	1,0	0,5	0,10	2600	Ø 12	17000
90	90	72 Sh-D	0,18	2,0	0,5	0,10	3700	Ø 12	17000
150	150	98 Sh-A	0,38	1,2	1	0,10	3300	Ø 15	15000
200	200	72 Sh-D	0,38	2,3	1	0,07	4600	Ø 15	15000
300	300	98 Sh-A	1,0	3,6	1	0,12	4500	Ø 18	12000
400	400	72 Sh-D	1,0	7,0	1	0,10	6500	Ø 18	12000
500	500	98 Sh-A	2,2	4,5	1	0,15	5900	Ø 20	9500
700	700	98 Sh-A	5,2	8,0	1	0,15	7000	Ø 24	8000
1000	1000	72 Sh-D	5,2	12	1	0,10	9600	Ø 24	8000
2000	2000	98 Sh-A	50	21	1	0,15	9000	Ø 30	6000

material:
 elastomer spider: polyurethane
 hubs: high-tensile strength aluminum
 (size 2000: tempered steel)
 screws: ISO 4762 / 12.9



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

EKM	Ø a	c	e	g	h	L	f-TA	mass ~ [kg]	Ø D 1/2 min	Ø D 1/2 max	Ø D ** max
8	32	10,5	13,5	13	6	40	M 4 - 4 Nm	0,06	8	15	-
15	40	13	17	16	8	50	M 5 - 8 Nm	0,12	8	20	-
20	40	13	17	16	8	50	M 5 - 8 Nm	0,12	10	20	-
30	50	16,5	20	18	9	58	M 6 - 14 Nm	0,21	10	25	Ø 30
45	50	16,5	20	18	9	58	M 6 - 14 Nm	0,21	15	25	Ø 30
60	60	19,5	22	18	10	62	M 8 - 35 Nm	0,32	13	28	Ø 32
90	60	19,5	22	18	10	62	M 8 - 35 Nm	0,32	16	28	Ø 32
150	70	23	26,5	20	12	73	M 10 - 65 (50)* Nm	0,52	18	27 (32)*	Ø 38
200	70	23	26,5	20	12	73	M 10 - 65 (50)* Nm	0,52	20	27 (32)*	Ø 38
300	85	29	31	24	14	86	M 12 - 115 (90)* Nm	0,9	20	34 (40)*	Ø 48
400	85	29	31	24	14	86	M 12 - 115 (90)* Nm	0,9	24	34 (40)*	Ø 48
500	100	36	33	28	16	94	M 12 - 115 (90)* Nm	1,5	28	48 (56)*	-
700	120	44	38	33	18	109	M 14 - 180 (140)* Nm	2,5	32	60 (70)*	-
1000	120	44	38	33	18	109	M 14 - 180 (140)* Nm	2,5	42	60 (70)*	-
2000	160	55,5	42	40	21	124	M 16 - 290 Nm	14	50	90	-

note:

(*) reduced tightening torque for bigger hub bore diameter - see also Ø D 1/2max f!

(**) largest possible hub bore diameter with smaller clamping screw thread optionally available.

order example: EKM 90 D1 = 24^{G7} D2 = 28^{G6}
 EKM 150 M8 / M8 - D1 = 35^{G7} D2 = 38^{H6}