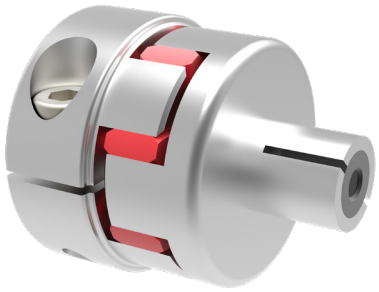
Elastomer Coupling I Series EKS

- pluggable, backlash-free, vibration-damping
- Expanding cone hub - radial clamping hub
- minimal space requirement with short overall length thanks to integrated attachment

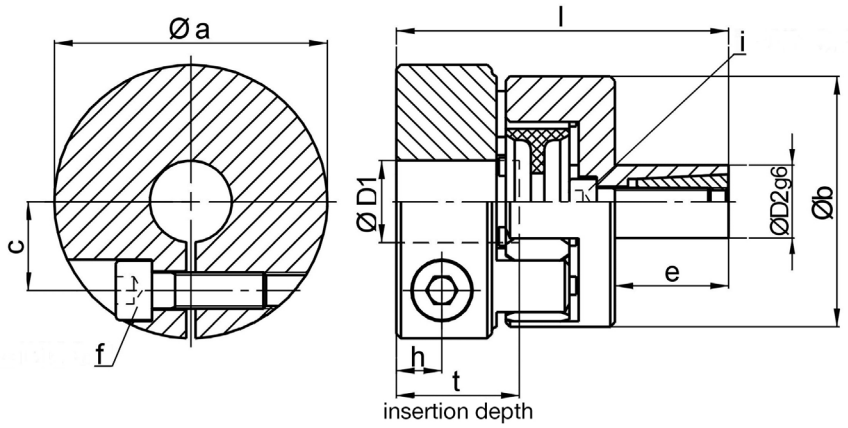
technical data:

EKS size	nominal torque [Nm]	moment of inertia [10-3kgm2]	torsional stiffness (stat. 0,5 x T_N) [Nm/arcmin]	max. shaft misalignment (mm) axial ±	lateral	lateral spring rate [N/mm]	tightening torque of screws "f" [Nm] Exp. hub i:	Clamp. hub f:	nmax [rpm]
8	8	0,01	0,04	0,5	0,1	600	4	4	29000
15	15	0,03	0,23	0,5	0,1	2100	8	8	23000
50	50	0,16	0,60	0,5	0,1	2600	14	35	17000
100	100	0,38	1,0	1	0,1	3300	35	50	15000
200	200	0,9	2,0	1	0,12	4500	65	90	12000
400	400	2,2	5,8	1	0,15	5900	115	115	9500
600	600	5,0	8,0	1	0,15	7000	180	140	6000

temperature range: -30°C bis +90°C



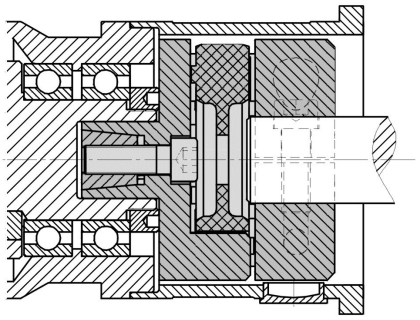
material:
clamping hubs: high-strength aluminum
expansion cone hub: heat treated steel
elastomer spider: polyurethane 98 Sh-A
screws: ISO 4762 12.9 - coated



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

EKS	Ø a	Ø b	c	e	f	h	i	l	tmin	tmax	mass ~ [kg]	Ø D 1 min	Ø D 1 max	Ø D 2 min	Ø D 2 max
8	32	32	10,5	12	M 4	6	M 4	45	12	19	0,06	6	15	10	16
15	40	40	13	20	M 5	8	M 5	59	16	23	0,2	7	19	13	20
50	60	55	19,5	23	M 8	10	M 6	71	21	29	0,4	13	29	15	24
100	70	65	23	26	M 10	12	M 8	81,5	25	34	0,7	16	33	20	28
200	85	80	29	30	M 12	14	M 10	93	30	41	1,2	20	42	24	35
400	100	100	36	32	M 12	16	M 12	101	32	44	1,7	24	56	32	42
600	120	120	44	42	M 14	18	M 14	122	37	51	3	28	70	35	48

note: The corresponding shaft hole for the Expansion cone spigot >> ØD2 << with manufacturing tolerance H7.



application example:
EKS coupling integrated on the output side to a gear unit

order example: EKS 50 - D1 = Ø 18 G7 D2 = Ø 20 g6