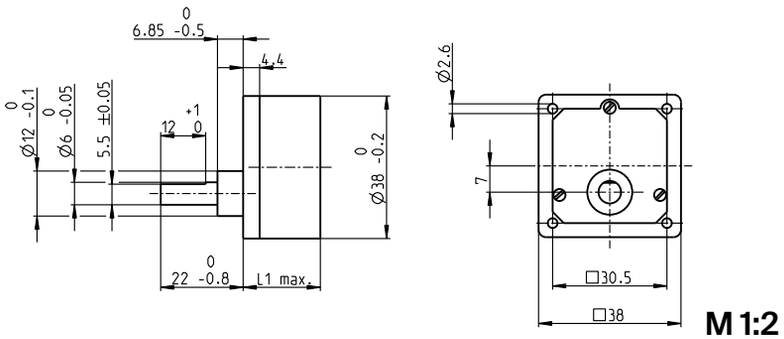
Spur Gearhead GS 38 A ∅38 mm, 0.1–0.6 Nm



M 1:2

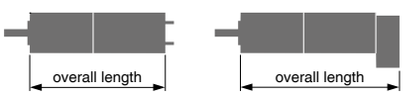
Technical Data	
Spur Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	sleeve bearing
Radial play, 12 mm from flange	max. 0.1 mm
Axial play	0.03–0.2 mm
Max. axial load (dynamic)	30 N
Max. force for press fits	500 N
Max. continuous input speed	5000 rpm
Recommended temperature range	-5...+80°C

Number of stages	1	2	3	4	5
Max. radial load, 12 mm from flange	50 N	50 N	50 N	50 N	50 N

Stock program
Standard program
Special program (on request)

Part Numbers	110451	110452	110453	110454	110455	110456	110457	110458	110459
Gearhead Data									
1 Reduction	6:1	10:1	18:1	30:1	60:1	100:1	200:1	500:1	900:1
2 Absolute reduction	6	10	18	30	60	100	200	500	900
3 Max. motor shaft diameter mm	3	3	3	3	3	3	3	3	3
4 Number of stages	2	2	3	3	4	4	5	6	6
5 Max. continuous torque Nm	0.1	0.1	0.2	0.2	0.3	0.3	0.6	0.6	0.6
6 Max. intermittent torque at gear output Nm	0.3	0.3	0.6	0.6	0.9	0.9	1.8	1.8	1.8
12 Direction of rotation, drive to output	=	=	≠	≠	=	=	≠	=	=
7 Max. efficiency %	81	81	73	73	66	66	59	53	53
8 Weight g	55	55	60	60	65	65	70	75	75
9 Average backlash no load °	1.0	1.0	1.5	1.5	2.0	2.0	2.5	3.0	3.0
10 Mass inertia gcm^2	0.7	0.6	0.4	0.4	0.3	0.3	0.2	0.2	0.2
11 Gearhead length L1* mm	20.6	20.6	23.1	23.1	25.6	25.6	28.1	30.6	30.6

*for EC 32 flat L1 is + 2.0 mm



maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
A-max 26	171-174			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
A-max 26	172-174	MR	478	74.2	74.2	76.7	76.7	79.2	79.2	81.7	84.2	84.2
A-max 26	172-174	Enc 22	483	79.8	79.8	82.3	82.3	84.8	84.8	87.3	89.8	89.8
A-max 26	172-174	HED_ 5540	487/489	83.8	83.8	86.3	86.3	88.8	88.8	91.3	93.8	93.8
A-max 32	175			83.6	83.6	86.1	86.1	88.6	88.6	91.1	93.6	93.6
A-max 32	176			82.2	82.2	84.7	84.7	87.2	87.2	89.7	92.2	92.2
A-max 32	176	MR	479	93.4	93.4	95.9	95.9	98.4	98.4	100.9	103.4	103.4
A-max 32	176	HED_ 5540	487/489	103.0	103.0	105.5	105.5	108.0	108.0	110.5	113.0	113.0
EC 32 flat, 15 W	292			38.6	38.6	41.1	41.1	43.6	43.6	46.1	48.6	48.6
EC 32 flat, IE, IP 00	293			48.7	48.7	51.2	51.2	53.7	53.7	56.2	58.7	58.7
EC 32 flat, IE, IP 40	293			50.4	50.4	52.9	52.9	55.4	55.4	57.9	60.4	60.4