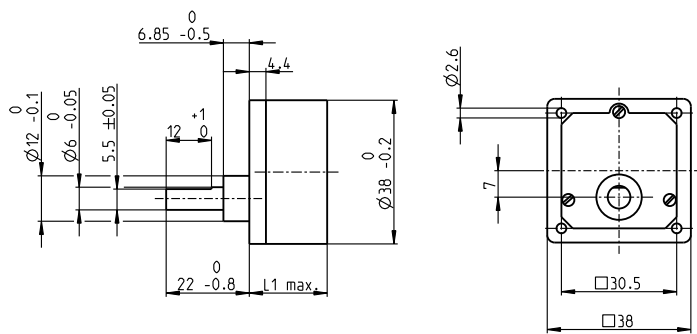


# Spur Gearhead GS 38 A $\varnothing 38$ mm, 0.1–0.6 Nm



### 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
<b>Gearhead Data</b>										
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 <sup>2</sup> 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



<b>maxon Modular System</b>												
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
A-max 26	151-158			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
A-max 26	152-158	MEnc 13	394	72.5	72.5	75.0	75.0	77.5	77.5	80.0	82.5	82.5
A-max 26	152-158	MR	404	74.2	74.2	76.7	76.7	79.2	79.2	81.7	84.2	84.2
A-max 26	152-158	Enc 22	411	79.8	79.8	82.3	82.3	84.8	84.8	87.3	89.8	89.8
A-max 26	152-158	HED_ 5540	414/416	83.8	83.8	86.3	86.3	88.8	88.8	91.3	93.8	93.8
A-max 32	159/161			83.6	83.6	86.1	86.1	88.6	88.6	91.1	93.6	93.6
A-max 32	160/162			82.2	82.2	84.7	84.7	87.2	87.2	89.7	92.2	92.2
A-max 32	160/162	MR	405	93.4	93.4	95.9	95.9	98.4	98.4	100.9	103.4	103.4
A-max 32	160/162	HED_ 5540	414/416	103.0	103.0	105.5	105.5	108.0	108.0	110.5	113.0	113.0
RE-max 21	169/170			49.6	49.6	52.1	52.1	54.6	54.6	57.1	59.6	59.6
RE-max 21, 3.5 W	170	MR	401/403	54.7	54.7	57.2	57.2	59.7	59.7	62.2	64.7	64.7
RE-max 21	171/172			52.2	52.2	54.7	54.7	57.2	57.2	59.7	62.2	62.2
RE-max 21, 6 W	172	MR	401/403	56.5	56.5	59.0	59.0	61.5	61.5	64.0	66.5	66.5
EC 32 flat, 15 W	262			38.6	38.6	41.1	41.1	43.6	43.6	46.1	48.6	48.6
EC 32 flat, IE, IP 00	263			48.7	48.7	51.2	51.2	53.7	53.7	56.2	58.7	58.7
EC 32 flat, IE, IP 40	263			50.4	50.4	52.9	52.9	55.4	55.4	57.9	60.4	60.4