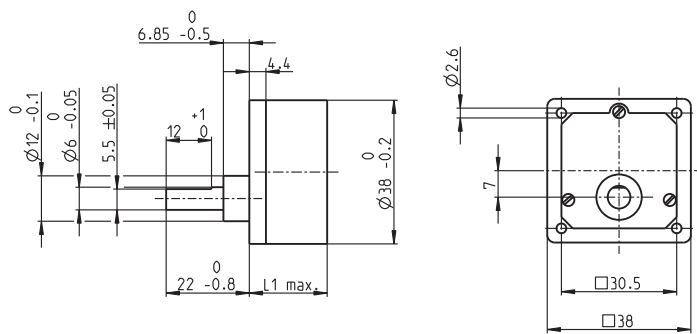


# Spur Gearhead GS 38 A $\varnothing 38$ mm, 0.1–0.6 Nm



### 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

Gearhead Data	Part Numbers									
	110451	110452	110453	110454	110455	110456	110457	110458	110459	
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



maxon Modular System												
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts								
A-max 26	205-212			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
A-max 26	206-212	MEnc 13	410	72.5	72.5	75.0	75.0	77.5	77.5	80.0	82.5	82.5
A-max 26	206-212	MR	392	74.2	74.2	76.7	76.7	79.2	79.2	81.7	84.2	84.2
A-max 26	206-212	Enc 22	398	79.8	79.8	82.3	82.3	84.8	84.8	87.3	89.8	89.8
A-max 26	206-212	HED_ 5540	400/402	83.8	83.8	86.3	86.3	88.8	88.8	91.3	93.8	93.8
A-max 32	213/215			83.6	83.6	86.1	86.1	88.6	88.6	91.1	93.6	93.6
A-max 32	214/216			82.2	82.2	84.7	84.7	87.2	87.2	89.7	92.2	92.2
A-max 32	214/216	MR	393	93.4	93.4	95.9	95.9	98.4	98.4	100.9	103.4	103.4
A-max 32	214/216	HED_ 5540	400/402	103.0	103.0	105.5	105.5	108.0	108.0	110.5	113.0	113.0
RE-max 21	223/224			49.6	49.6	52.1	52.1	54.6	54.6	57.1	59.6	59.6
RE-max 21, 3.5 W	224	MR	389/391	54.7	54.7	57.2	57.2	59.7	59.7	62.2	64.7	64.7
RE-max 21	225/226			52.2	52.2	54.7	54.7	57.2	57.2	59.7	62.2	62.2
RE-max 21, 6 W	226	MR	389/391	56.5	56.5	59.0	59.0	61.5	61.5	64.0	66.5	66.5
EC 32 flat, 15 W	296			38.6	38.6	41.1	41.1	43.6	43.6	46.1	48.6	48.6
EC 32 flat, IE, IP 00	297			48.7	48.7	51.2	51.2	53.7	53.7	56.2	58.7	58.7
EC 32 flat, IE, IP 40	297			50.4	50.4	52.9	52.9	55.4	55.4	57.9	60.4	60.4