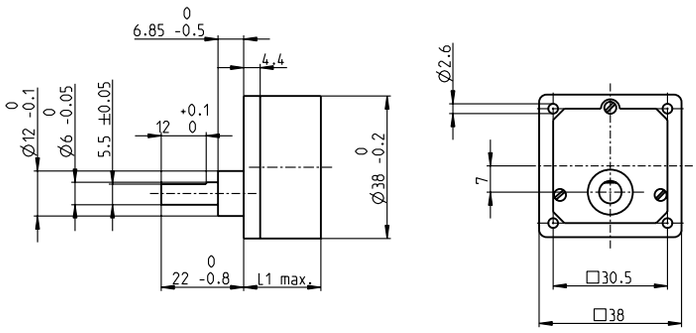
Spur Gearhead GS 38 A ∅38 mm, 0.1–0.6 Nm



M 1:2

Technical Data

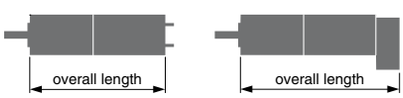
Spur Gearhead					straight teeth
Output shaft					stainless steel
Bearing at output					sleeve bearing
Radial play, 12 mm from flange					max. 0.1 mm
Axial play					0.03–0.2 mm
Max. axial load (dynamic)					30 N
Max. force for press fits					500 N
Max. continuous input speed					5000 rpm
Recommended 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	161-168			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
A-max 26	162-168	MEnc 13	372	72.5	72.5	75.0	75.0	77.5	77.5	80.0	82.5	82.5
A-max 26	162-168	MR	355	74.2	74.2	76.7	76.7	79.2	79.2	81.7	84.2	84.2
A-max 26	162-168	Enc 22	361	79.8	79.8	82.3	82.3	84.8	84.8	87.3	89.8	89.8
A-max 26	162-168	HED_ 5540	363/365	83.8	83.8	86.3	86.3	88.8	88.8	91.3	93.8	93.8
A-max 32	169/171			83.6	83.6	86.1	86.1	88.6	88.6	91.1	93.6	93.6
A-max 32	170/172			82.2	82.2	84.7	84.7	87.2	87.2	89.7	92.2	92.2
A-max 32	170/172	MR	356	93.4	93.4	95.9	95.9	98.4	98.4	100.9	103.4	103.4
A-max 32	170/172	HED_ 5540	363/365	103.0	103.0	105.5	105.5	108.0	108.0	110.5	113.0	113.0
RE-max 21	179/180			49.6	49.6	52.1	52.1	54.6	54.6	57.1	59.6	59.6
RE-max 21, 3.5 W	180	MR	352/354	54.7	54.7	57.2	57.2	59.7	59.7	62.2	64.7	64.7
RE-max 21	181/182			52.2	52.2	54.7	54.7	57.2	57.2	59.7	62.2	62.2
RE-max 21, 6 W	182	MR	352/354	56.5	56.5	59.0	59.0	61.5	61.5	64.0	66.5	66.5
EC 32 flat, 15 W	258			38.6	38.6	41.1	41.1	43.6	43.6	46.1	48.6	48.6
EC 32 flat, IE, IP 00	259			48.7	48.7	51.2	51.2	53.7	53.7	56.2	58.7	58.7
EC 32 flat, IE, IP 40	259			50.4	50.4	52.9	52.9	55.4	55.4	57.9	60.4	60.4