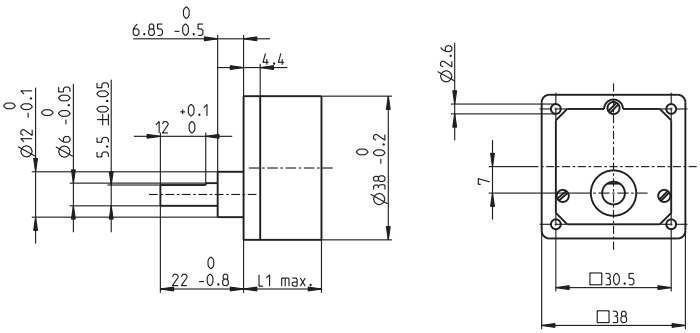
Spur Gearhead GS 38 A ∅38 mm, 0.1 - 0.6 Nm



M 1:2

Technical Data

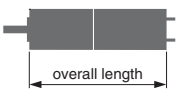
Spur Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	sleeve bearing
Radial play, 12 mm from flange	max. 0.1 mm
Axial play	0.03 - 0.2 mm
Max. radial load, 12 mm from flange	50 N
Max. permissible axial load	30 N
Max. permissible force for press fits	500 N
Recommended input speed	< 5000 rpm
Recommended temperature range	-5 ... +80°C

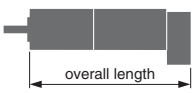
Stock program
Standard program
Special program (on request)

Order Number

		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	Reduction absolute		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	Intermittently permissible torque at gear output	Nm	0.3	0.3	0.6	0.6	0.9	0.9	1.8	1.8	1.8
12	Sense 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	gcm²	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	101-108			65.4	65.4	67.9	67.9	70.4	70.4	72.9	75.4	75.4
A-max 26	102-108	MEnc 13	275	72.5	72.5	75.0	75.0	77.5	77.5	80.0	82.5	82.5
A-max 26	102-108	MR	262	74.2	74.2	76.7	76.7	79.2	79.2	81.7	84.2	84.2
A-max 26	102-108	Enc 22	265	79.8	79.8	82.3	82.3	84.8	84.8	87.3	89.8	89.8
A-max 26	102-108	HED_ 5540	267/268	84.2	84.2	86.7	86.7	89.2	89.2	91.7	94.2	94.2
A-max 32	109/111			83.6	83.6	86.1	86.1	88.6	88.6	91.1	93.6	93.6
A-max 32	110/112			82.2	82.2	84.7	84.7	87.2	87.2	89.7	92.2	92.2
A-max 32	110/112	MR	263	93.4	93.4	95.9	95.9	98.4	98.4	100.9	103.4	103.4
A-max 32	110/112	HED_ 5540	267/268	103.0	103.0	105.5	105.5	108.0	108.0	110.5	113.0	113.0
RE-max 21	123/124			49.6	49.6	52.1	52.1	54.6	54.6	57.1	59.6	59.6
RE-max 21, 3.5 W	124	MR	259/261	54.7	54.7	57.2	57.2	59.7	59.7	62.2	64.7	64.7
RE-max 21	125/126			52.2	52.2	54.7	54.7	57.2	57.2	59.7	62.2	62.2
RE-max 21, 6 W	126	MR	259/261	56.5	56.5	59.0	59.0	61.5	61.5	64.0	66.5	66.5
RE-max 24	127-130			52.6	52.6	55.1	55.1	57.6	57.6	60.1	62.6	62.6
RE-max 24	128/130	MR	259/261	57.6	57.6	60.1	60.1	62.6	62.6	65.1	67.6	67.6
EC 32 flat, 15 W	188			38.6	38.6	41.1	41.1	43.6	43.6	46.1	48.6	48.6
EC 32 flat, IE, IP 00	189			48.7	48.7	51.2	51.2	53.7	53.7	56.2	58.7	58.7
EC 32 flat, IE, IP 40	189			50.4	50.4	52.9	52.9	55.4	55.4	57.9	60.4	60.4