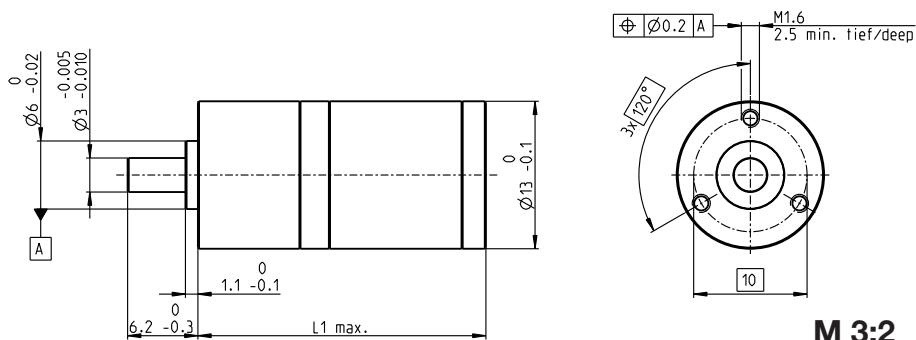


# Planetary Gearhead GP 13 M Ø13 mm, 0.05–0.275 Nm

Sterilizable



### Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	ball bearing
Radial play, 6 mm from flange	max. 0.2 mm
Axial play	max. 0.1 mm
Max. axial load (dynamic)	50 N
Max. force for press fits	80 N
Direction of rotation, drive to output	=
Max. continuous input speed	60 000 rpm
Recommended temperature range	-40...+100°C
with shaft seal	-10...+100°C
Number of stages	1 2 3
Max. radial load, 6 mm from flange	10 N 15 N 20 N

Option: Inch-version GP size 5 M as standard variant available.

- Stock program
- Standard program
- Special program (on request)

### Part Numbers

	with shaft seal	370275	370517	370611
	without shaft seal	370617	370622	370623

### Gearhead Data

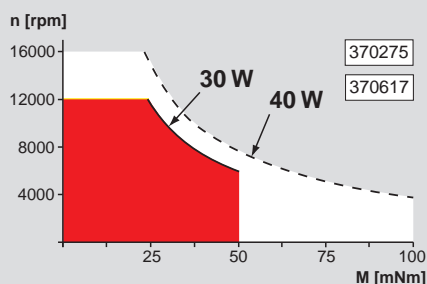
1 Reduction		5:1	25:1	125:1
2 Absolute reduction		5/1	25/1	125/1
3 Max. motor shaft diameter	mm	1.5	1.5	1.5
4 Number of stages		1	2	3
5 Max. continuous torque	Nm	0.05	0.225	0.275
6 Max. intermittent torque at gear output	Nm	0.1	0.25	0.3
7 Max. efficiency, sealed	%	85	80	70
8 Weight	g	16	20	23
9 Average backlash no load	°	1.2	1.4	1.6
10 Mass inertia	gcm <sup>2</sup>	0.017	0.016	0.016
11 Gearhead length L1	mm	25.4	31.3	37.2
13 Max. transmittable power (continuous)	W	30	20	15
14 Max. transmittable power (intermittent)	W	40	25	20



### maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts		
EC 13, 30 W, ster.	242			62.5	68.4	74.3
EC 13, 50 W, ster.	243			73.5	79.4	85.3

### Operating Range (Output shaft)



### Comments

- Continuous operating**  
Valid in an ambient temperature of 25°C and taking account of stage-dependent limits (points 5 and 13). The recommended motor speed must not be exceeded.
- Short term operation**  
Valid in an ambient temperature of 25°C and taking account of stage-dependent limits (points 6 and 14). This range may be used intermittently and repeatedly. It is defined as follows
  - during max. 1 second
  - during max. 10% of the operating cycle
- max. transferable continuous performance
- - - max. transferable intermittent performance

### Application



### Sterilizable Devices

- Saws
- Surgical Reamers
- Arthroscopic Shavers
- Surgical Staplers
- Dental Tools

### Sterilization information

With shaft seal: typically 2000 autoclave cycles	
Without shaft seal: typically 1000 autoclave cycles	
Sterilization with steam	
Temperature	134°C ± 4°C
Compression pressure up to	2.3 bar
Rel. humidity	100 %
Cycle length	18 minutes