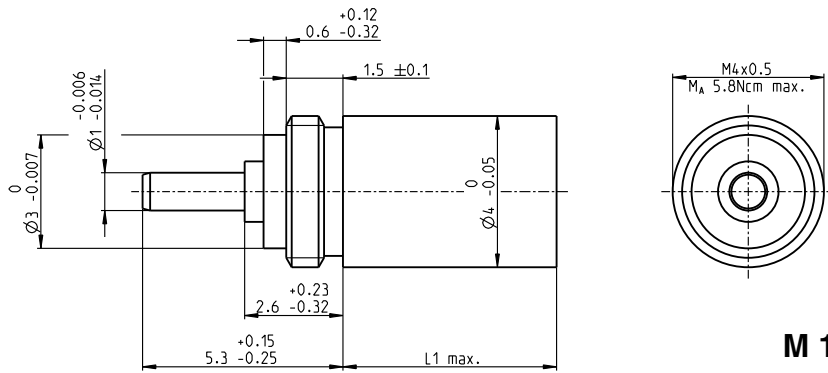


# Planetary Gearhead GP 4 C Ø4 mm, 0.002 - 0.015 Nm



## Technical Data

Planetary Gearhead	special teeth
Output shaft	stainless steel
Bearing at output	ball bearings
Radial play, 5 mm from flange	max. 0.14 mm
Axial play at axial load	max. 0.2 mm
Max. permissible axial load	5 N
Max. permissible force for press fits	5 N
Sense of rotation, drive to output	=
Recommended input speed	< 40000 rpm
Recommended temperature range	-15 ... +80°C
Number of stages	2 3 4
Max. radial load, 5 mm from flange	1.5 N 3 N 5 N

M 10:1

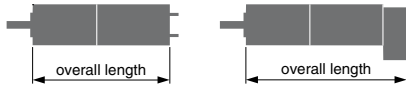
- Stock program
- Standard program
- Special program (on request)

## Order Number

416148 417408 420531

## Gearhead Data

		416148	417408	420531
1 Reduction		17 : 1	68 : 1	280 : 1
2 Reduction absolute		2025/121	91125/1331	4100625/14641
3 Max. motor shaft diameter	mm	0.6	0.6	0.6
4 Number of stages		2	3	4
5 Max. continuous torque	Nm	0.002	0.006	0.015
6 Intermittently permissible torque at gear output	Nm	0.003	0.008	0.020
7 Max. efficiency	%	76	70	65
8 Weight	g	t.b.d.	t.b.d.	t.b.d.
9 Average backlash no load	°	3.9	4.2	4.5
10 Mass inertia	gcm <sup>2</sup>	t.b.d.	t.b.d.	t.b.d.
11 Gearhead length L1	mm	5.7	7.4	9.2



## maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts		
EC 4, 0.5 W, A	4			24.8	26.5	28.3
EC 4, 0.5 W, B	4			23.3	25.0	26.8
EC 4, 1 W, A	5			31.9	33.6	35.4
EC 4, 1 W, B	5			30.2	31.9	33.7

## Control electronics for sample units.

For fast, easy and affordable commissioning of the EC 4 drive, we recommend the use of standard production electronic units. We offer two versions for motors with and without Hall sensors.

### 1-Q-EC sensorless amplifier DECS 50/5

- Digital speed control for sensorless EC motors
- Various start sequences can be selected
- Several options for specifying set values



Part no. DECS 50/5 S12044

### 4-Q EC amplifier ESCON 36/3 EC

- Digital speed control for EC motors with Hall sensors
- Several options for specifying set values
- 4-Q operation
- Easy commissioning



Part no. ESCON 36/3 EC 414533  
Adapter 418723