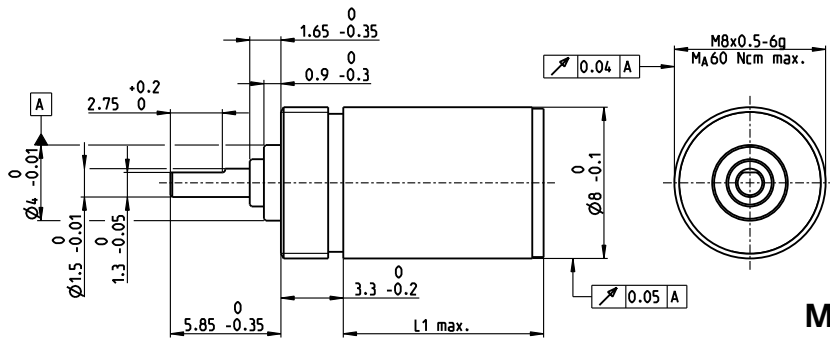


Planetary Gearhead GP 8 A $\varnothing 8$ mm, 0.01–0.1 Nm



M 5:2

Technical Data

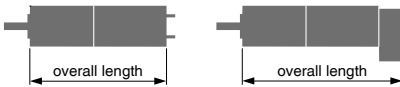
| | |
|--|---------------------------|
| Planetary Gearhead | straight teeth |
| Output shaft | stainless steel, hardened |
| Bearing at output | ball bearing |
| Radial play, 5 mm from flange | max. 0.08 mm |
| Axial play | max. 0.08 mm |
| Max. axial load (dynamic) | 5 N |
| Max. force for press fits | 10 N |
| Direction of rotation, drive to output | = |
| Max. continuous input speed | 12 000 rpm |
| Recommended temperature range | -15...+80°C |
| Number of stages | 1 2 3 4 5 |
| Max. radial load, 5 mm from flange | 5 N 6 N 7 N 8 N 8 N |

gear

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

Part Numbers

| Gearhead Data | Part Numbers | | | | | | | | |
|---|------------------|--------|--------|--------|--------|--------|--------|--------|-------|
| | 468999 | 468998 | 474124 | 468997 | 474127 | 468996 | 474129 | 468995 | |
| 1 Reduction | 4:1 | 16:1 | 36:1 | 64:1 | 216:1 | 256:1 | 1296:1 | 1024:1 | |
| 2 Absolute reduction | 4 | 16 | 36 | 64 | 216 | 256 | 1296 | 1024 | |
| 3 Max. motor shaft diameter | mm | 1 | 1 | 0.65 | 1 | 0.65 | 1 | 0.65 | 1 |
| 4 Number of stages | | 1 | 2 | 2 | 3 | 3 | 4 | 4 | 5 |
| 5 Max. continuous torque | Nm | 0.01 | 0.020 | 0.008 | 0.060 | 0.020 | 0.080 | 0.040 | 0.100 |
| 6 Max. intermittent torque at gear output | Nm | 0.015 | 0.030 | 0.012 | 0.090 | 0.030 | 0.120 | 0.060 | 0.150 |
| 7 Max. efficiency | % | 90 | 81 | 76 | 73 | 66 | 65 | 57 | 59 |
| 8 Weight | g | 2.6 | 3.2 | 3.2 | 3.8 | 3.8 | 4.4 | 4.4 | 5.0 |
| 9 Average backlash no load | ° | 1.80 | 2.0 | 2.4 | 2.2 | 2.6 | 2.50 | 2.8 | 2.80 |
| 10 Mass inertia | gcm ² | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 | 0.004 |
| 11 Gearhead length L1 | mm | 5.5 | 8.1 | 8.3 | 10.7 | 11.1 | 13.3 | 13.9 | 15.9 |



maxon Modular System

| + Motor | Page | + Sensor/Brake | Page | Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts | | | | | | | |
|----------------|------|----------------|------|--|------|------|------|------|------|------|------|
| RE 8, 0.5 W, A | 108 | | | 22.2 | 24.8 | 25.0 | 27.4 | 27.8 | 30.0 | 30.6 | 32.6 |
| RE 8, 0.5 W, B | 108 | | | 25.2 | 27.8 | 28.0 | 30.4 | 30.8 | 33.0 | 33.6 | 35.6 |
| RE 8, 0.5 W, A | 108 | MR | 458 | 28.8 | 31.4 | 31.6 | 34.0 | 34.4 | 36.6 | 37.2 | 39.2 |
| RE 8, 0.5 W, A | 108 | 8 OPT | 465 | 30.4 | 33.0 | 33.2 | 35.6 | 36.0 | 38.2 | 38.8 | 40.8 |