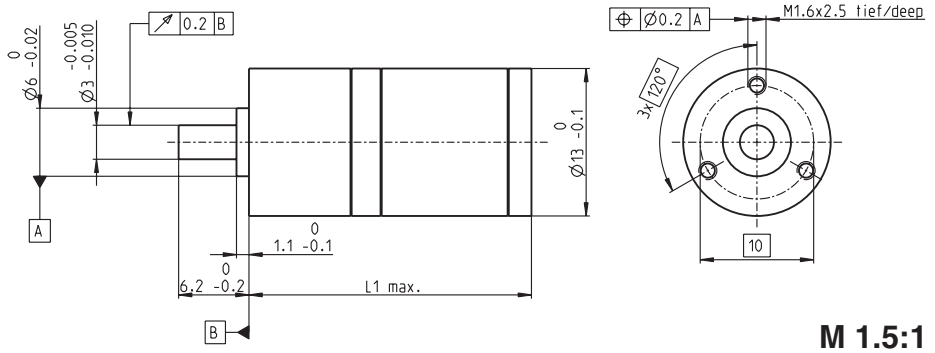
Planetary Gearhead GP 13 M ∅13 mm, 0.1 - 0.15 Nm

Sterilizable



M 1.5:1

Technical Data

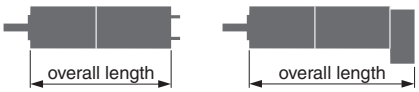
Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	ball bearing
Radial play, 6 mm from flange	max. 0.2 mm
Axial play	max. 0.1 mm
Max. permissible axial load	50 N
Max. radial load, 6 mm from flange	11.5 N
Max. permissible force for press fits	80 N
Sense of rotation, drive to output	=
Recommended input speed	< 60'000 rpm
Recommended temperature range	-40 ... +100°C

Option: Inch-version size 5 available as standard version.

Stock program
Standard program
Special program (on request)

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

Gearhead Data (provisional)										
1	Reduction		5 : 1	25 : 1	125 : 1					
2	Reduction absolute		$^{5}/_{1}$	$^{25}/_{1}$	$^{125}/_{1}$					
3	Max. motor shaft diameter	mm	1.5	1.5	1.5					
4	Number of stages		1	2	3					
5	Max. continuous torque	Nm	0.1	0.125	0.15					
6	Intermittently permissible torque at gear output	Nm	0.15	0.2	0.25					
7	Max. efficiency, sealed	%	85	80	70					
8	Weight, sealed	g	16	20	23					
9	Average backlash no load	°	1.2	1.4	1.6					
10	Mass inertia	gcm²	0.017	0.016	0.016					
11	Gearhead length L1	mm	25.4	31.3	37.2					



maxon Modular System

+ Motor	Page	+ Sensor / Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts		
EC 13, 30 W, ster.	143			62.5	68.4	74.3

Application	Sterilization information	
Medicine / surgery / chemicals	In normal use, the motor-gearhead-combination with shaft seal can be sterilized 500 times in an autoclave. No need to dismantle. Without shaft seal, the number of cycles is substantly reduced.	
Hand tools that can be sterilized, such as bone saw, bone drilling and grinding machine	Sterilization with steam	
Dermatological and dental tools	Temperature	+134°C ± 4°C
Infusion pumps	Compression pressure up to	2.3 bar
ECG	Rel. humidity	100 %
Therapy aid, analysis and dialysis equipment	Cycle length	20 minutes