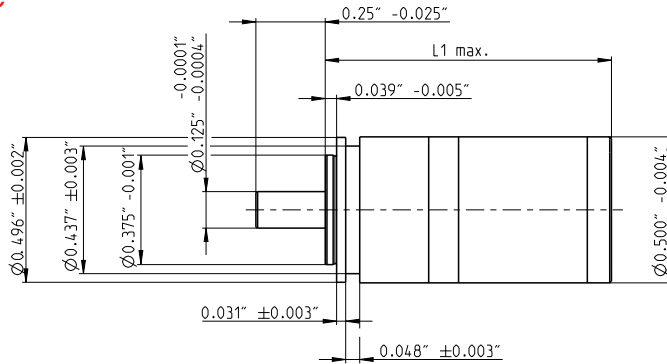


Planetary Gearhead GP size 5 M Ø0.5 in, 7 - 39 oz-in

Sterilizable



Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	ball bearing
Radial play, 0.24 in from flange	max. 0.008 in
Axial play	max. 0.004 in
Max. permissible axial load	180 oz
Max. permissible force for press fits	290 oz
Sense of rotation, drive to output	=
Recommended input speed	< 60000 rpm
Recommended temperature range	-40 ... +212°F
with shaft seal	+14 ... +212°F
Number of stages	1 2 3
Max. radial load, 0.24 in from flange	36 oz 54 oz 72 oz

M 1.5:1

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

Order Number

with shaft seal	368961	369079	369147
without shaft seal	370857	370862	370864

Gearhead Data (provisional)

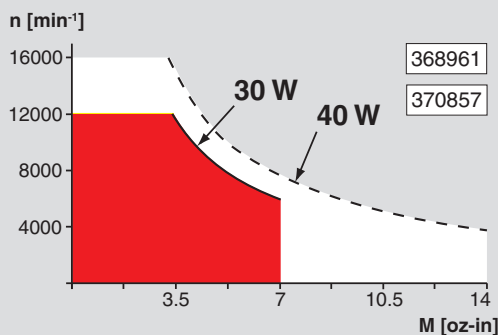
		5 : 1	25 : 1	125 : 1
1 Reduction		5 : 1	25 : 1	125 : 1
2 Reduction absolute		$\frac{5}{1}$	$\frac{25}{1}$	$\frac{125}{1}$
3 Max. motor shaft diameter	in	0.059	0.059	0.059
4 Number of stages		1	2	3
5 Max. continuous torque	oz-in	7.1	32	39
6 Intermittently permissible torque at gear output	oz-in	14.1	35.4	42.5
7 Max. efficiency, sealed	%	85	80	70
8 Weight	oz	0.56	0.71	0.81
9 Average backlash no load	°	1.2	1.4	1.6
10 Mass inertia	oz-in-s ²	$0.24 \cdot 10^{-6}$	$0.23 \cdot 10^{-6}$	$0.23 \cdot 10^{-6}$
11 Gearhead length L1	in	1.0	1.232	1.465
13 Max. transferable continuous performance	W	30	20	15
14 Max. transferable intermittent performance	W	40	25	20



maxon Modular System

+ Motor	+ Sensor/Brake	Page	Overall length [in] = Motor length + Gearhead length + (Sensor / Brake) + assembly parts		
EC size 5, 30 W, sterilizable			2.461	2.693	2.925
EC size 5, 50 W, sterilizable			2.891	3.123	3.355

Operating Range (Output shaft)



Comments

- Continuous operation**
Valid in an ambient temperature of 77°F 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 77°F 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	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 reduced.
Hand tools such as bone saws, bone drilling and grinding machine can be sterilized.	Sterilization with steam
Dermatological and dental tools	Temperature +273°F ± 7°F
Infusion pumps	Compression pressure up to 2.3 bar
ECG	Rel. humidity 100 %
Therapy aid, analysis and dialysis equipment	Cycle length 20 minutes