Planetary Gearhead GP 19 M Ø19 mm, 0.1–0.315 Nm

Sterilizable





M 1:1

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straight teeth

stainless steel

ball bearing max. 0.08 mm

0.10 mm

40000 rpm -10...+100°C 1 2

20 N 30 N

50 N

100 N

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	Stock program Standard program Special program (on request)		Part Numbers							
	opecial program (on request)	with shaft seal	465710	467808	467821	476914	467863			
Ge	arhead Data									
1	Reduction		4:1	5:1	16:1	20:1	25:1			
2	Absolute reduction		4/1	5/1	¹⁶ /1	²⁰ / ₁	²⁵ / ₁			
3	Max. motor shaft diameter	mm	3.8	2.7	3.8	2.7	2.7			
4	Number of stages		1	1	2	2	2			
5	Max. continuous torque	Nm	0.1	0.1	0.315	0.315	0.315			
6	Max. intermittent torque at gear output	: Nm	0.125	0.125	0.390	0.390	0.390			
7	Max. efficiency	%	85	85	80	80	80			
8	Weight	g	33	33	54	54	54			
9	Average backlash no load	0	1.0	1.0	1.2	1.2	1.2			
10	Mass inertia	gcm ²	0.16	0.16	0.14	0.14	0.14			
11	Gearhead length L1	mm	31.0	31.0	38.5	38.5	38.5			
13	Max. transmittable power (continuous)	W	60	60	40	40	40			
14	Max. transmittable power (intermittent)	W	75	75	50	50	50			



maxon modular System											
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts							
EC 19, 120 W, ster.	206			83.4	83.4	90.9	90.9	90.9			
Operating Range (Output shaft) Comments											

n [rpm] 12500 10000 7500 5000 2500 250 25 50 75 100	465710 5 W	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	Sterilization information
	Sterilizable Devices	With shaft seal: typically 2000 autoclave cycles
	Saws	Sterilization with steam
	Surgical Reamers	Temperature 134°C ± 4°C
	Arthroscopic Shavers	Compression pressure up to 2.3 ba
	Surgical Staplers	Rel. humidity 100 %
	Dental Tools	Cycle length 18 minutes