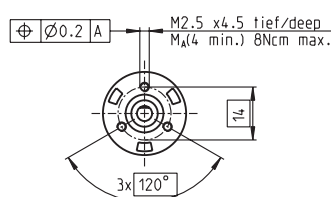
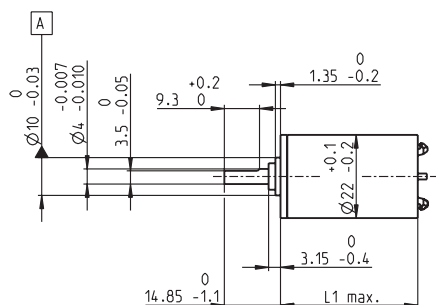


# Planetary Gearhead GP 22 L Ø22 mm, 0.2 - 0.6 Nm

Plastic Version



## Technical Data

Planetary Gearhead	straight teeth
Housing	plastic
Output shaft	stainless steel, hardened
Bearing at output	sleeve bearing
Radial play, 10 mm from flange	max. 0.2 mm
Axial play	max. 0.2 mm
Max. permissible axial load	20 N
Max. permissible force for press fits	100 N
Sense of rotation, drive to output	=
Recommended input speed	< 6000 rpm
Recommended temperature range	-15 ... +80°C
Number of stages	1 2 3 4 5
Max. radial load,	
10 mm from flange	15 N 20 N 25 N 30 N 30 N

M 1:2

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

## Order Number

Gearhead Data	232763	232766	232772	232778	232782	232788	232794	232796	232803	232809	232815
1 Reduction	3.8 : 1	14 : 1	53 : 1	104 : 1	198 : 1	370 : 1	590 : 1	742 : 1	1386 : 1	1996 : 1	3189 : 1
2 Reduction absolute	15/4	225/16	3375/64	87723/845	50625/256	10556001/28561	59049/100	759375/1024	158340015/114244	285012027/142805	1594323/500
3 Max. motor shaft diameter	mm 4	4	4	3.2	4	3.2	4	4	3.2	3.2	4
<b>Order Number</b>	<b>232764</b>	<b>232767</b>	<b>232773</b>	<b>232779</b>	<b>232783</b>	<b>232789</b>	<b>232795</b>	<b>232798</b>	<b>232804</b>	<b>232810</b>	<b>232816</b>
1 Reduction	4.4 : 1	16 : 1	62 : 1	109 : 1	231 : 1	389 : 1	690 : 1	867 : 1	1460 : 1	2102 : 1	3728 : 1
2 Reduction absolute	57/13	855/52	12825/208	2187/20	192375/832	263169/676	1121931/1625	2885625/3328	3947535/2704	7105563/3380	30292137/8125
3 Max. motor shaft diameter	mm 3.2	3.2	3.2	4	3.2	3.2	3.2	3.2	3.2	3.2	3.2
<b>Order Number</b>	<b>232765</b>	<b>232768</b>	<b>232774</b>	<b>232780</b>	<b>232784</b>	<b>232790</b>	<b>232797</b>	<b>232799</b>	<b>232805</b>	<b>232811</b>	<b>232817</b>
1 Reduction	5.4 : 1	19 : 1	72 : 1	128 : 1	270 : 1	410 : 1	850 : 1	1014 : 1	1538 : 1	2214 : 1	4592 : 1
2 Reduction absolute	27/5	3249/169	48735/676	41553/325	731025/2704	6561/16	531441/625	10965375/10816	98415/64	177147/80	14348907/3125
3 Max. motor shaft diameter	mm 2.5	3.2	3.2	3.2	3.2	4	2.5	3.2	4	4	2.5
<b>Order Number</b>		<b>232769</b>	<b>232775</b>	<b>232781</b>	<b>232785</b>	<b>232791</b>		<b>232800</b>	<b>232806</b>	<b>232812</b>	
1 Reduction		20 : 1	76 : 1	157 : 1	285 : 1	455 : 1		1068 : 1	1621 : 1	2458 : 1	
2 Reduction absolute		81/4	1215/16	19683/125	18225/64	5000211/10985		273375/256	501692057/371293	135005697/54925	
3 Max. motor shaft diameter	mm 4	4	2.5	4	3.2	4		4	3.2	3.2	
<b>Order Number</b>		<b>232770</b>	<b>232776</b>		<b>232786</b>	<b>232792</b>		<b>232801</b>	<b>232807</b>	<b>232813</b>	
1 Reduction		24 : 1	84 : 1		316 : 1	479 : 1		1185 : 1	1707 : 1	2589 : 1	
2 Reduction absolute		1539/65	185193/2197		2777895/8788	124659/260		41668425/35152	15000633/8788	3365793/1300	
3 Max. motor shaft diameter	mm 3.2	3.2	3.2		3.2	3.2		3.2	3.2	3.2	
<b>Order Number</b>		<b>232771</b>	<b>232777</b>		<b>232787</b>	<b>232793</b>		<b>232802</b>	<b>232808</b>	<b>232814</b>	
1 Reduction		29 : 1	89 : 1		333 : 1	561 : 1		1249 : 1	1798 : 1	3027 : 1	
2 Reduction absolute		729/25	4617/52		69255/208	2368521/4225		1038825/832	373977/208	63950067/21125	
3 Max. motor shaft diameter	mm 2.5	3.2	3.2		3.2	3.2		3.2	3.2	3.2	
4 Number of stages	1	2	3	3	4	4	4	5	5	5	5
5 Max. continuous torque	Nm 0.2	0.3	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6	0.6
6 Intermittently permissible torque at gear output	Nm 0.3	0.4	0.5	0.5	0.7	0.7	0.7	0.8	0.8	0.8	0.8
7 Max. efficiency	% 84	70	59	59	49	49	49	42	42	42	42
8 Weight	g 28	35	43	43	51	51	51	59	59	59	59
9 Average backlash no load	° 1.0	1.2	1.6	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0
10 Mass inertia	gcm <sup>2</sup> 0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
11 Gearhead length L1	mm 22.7	29.5	36.3	36.3	43.1	43.1	43.1	49.9	49.9	49.9	49.9



## maxon Modular System

+ Motor	Page	+ Sensor / Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts							
A-max 22	97-100			54.7	61.5	68.3	68.3	75.1	75.1	75.1	81.9
A-max 22	98/100	MR	258/260	59.7	66.5	73.3	73.3	80.1	80.1	80.1	86.9
A-max 22	98/100	Enc 22	265	69.1	75.9	82.7	82.7	89.5	89.5	89.5	96.3
A-max 22	98/100	MEnc 13	274	61.8	68.6	75.4	75.4	82.2	82.2	82.2	89.0