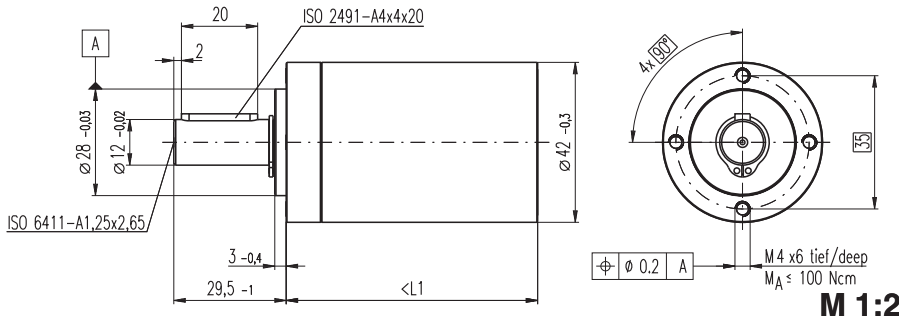


# Planetary Gearhead GP 42 C $\varnothing 42$ mm, 3 - 15 Nm

Ceramic Version



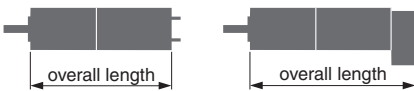
## Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel
Bearing at output	preloaded ball bearings
Radial play, 12 mm from flange	max. 0.06 mm
Axial play at axial load	< 5 N 0 mm > 5 N max. 0.3 mm
Max. permissible axial load	150 N
Max. permissible force for press fits	300 N
Sense of rotation, drive to output	=
Recommended input speed	< 8000 rpm
Recommended temperature range	-20 ... +100°C
Extended area as option	-35 ... +100°C
Number of stages	1 2 3 4
Max. radial load, 12 mm from flange	120 N 150 N 150 N 150 N

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

## Order Number

	203113	203115	203119	203120	203124	203129	203128	203133	203137	203141
<b>Gearhead Data</b>										
1 Reduction	3.5 : 1	12 : 1	26 : 1	43 : 1	81 : 1	156 : 1	150 : 1	285 : 1	441 : 1	756 : 1
2 Reduction absolute	7/2	49/4	26	343/8	2197/27	156	2401/16	15379/54	441	756
3 Mass inertia gcm <sup>2</sup>	14	15	9.1	15	9.4	9.1	15	15	14	14
4 Max. motor shaft diameter mm	10	10	8	10	8	8	10	10	10	10
<b>Order Number</b>	<b>203114</b>	<b>203116</b>		203121	203125		203130	<b>203134</b>	203138	<b>203142</b>
1 Reduction	4.3 : 1	15 : 1		53 : 1	91 : 1		186 : 1	319 : 1	488 : 1	936 : 1
2 Reduction absolute	13/3	91/6		637/12	91		4459/24	637/2	4394/9	936
3 Mass inertia gcm <sup>2</sup>	9.1	15		15	15		15	15	9.4	9.1
4 Max. motor shaft diameter mm	8	10		10	10		10	10	8	8
<b>Order Number</b>		203117		203122	<b>203126</b>		<b>203131</b>	203135	<b>203139</b>	
1 Reduction		19 : 1		66 : 1	113 : 1		230 : 1	353 : 1	546 : 1	
2 Reduction absolute		169/9		1183/18	338/3		8281/36	28561/81	546	
3 Mass inertia gcm <sup>2</sup>		9.4		15	9.4		15	9.4	14	
4 Max. motor shaft diameter mm		8		10	8		10	8	10	
<b>Order Number</b>		203118		<b>203123</b>	203127		203132	203136	203140	
1 Reduction		21 : 1		74 : 1	126 : 1		257 : 1	394 : 1	676 : 1	
2 Reduction absolute		21		147/2	126		1029/4	1183/3	676	
3 Mass inertia gcm <sup>2</sup>		14		15	14		15	15	9.1	
4 Max. motor shaft diameter mm		10		10	10		10	10	8	
5 Number of stages		1 2		2 3	3		3 4	4	4 4	
6 Max. continuous torque Nm		3.0 7.5		7.5 15.0	15.0		15.0 15.0	15.0	15.0 15.0	
7 Intermittently permissible torque at gear output Nm		4.5 11.3		11.3 22.5	22.5		22.5 22.5	22.5	22.5 22.5	
8 Max. efficiency %		90 81		81 72	72		72 64	64	64 64	
9 Weight g		260 360		360 460	460		460 560	560	560 560	
10 Average backlash no load °		0.3 0.4		0.4 0.5	0.5		0.5 0.5	0.5	0.5 0.5	
11 Gearhead length L1 mm		40.9 55.4		55.4 69.9	69.9		69.9 84.4	84.4	84.4 84.4	



## maxon Modular System

+ Motor	Page	+ Sensor	Page	+ Brake	Page	Overall length [mm]	= Motor length + gearhead length + (sensor / brake) + assembly parts					
EC 45, 250 W	159					185.0 199.5 199.5 214.0 214.0	214.0	214.0	228.5	228.5	228.5	228.5
EC 45, 250 W	159	HEDL 9140	273			200.6 215.1 215.1 229.6 229.6	229.6	229.6	244.1	244.1	244.1	244.1
EC 45, 250 W	159	Res 26	278			185.0 199.5 199.5 214.0 214.0	214.0	214.0	228.5	228.5	228.5	228.5
EC 45, 250 W	159			AB 28	317	192.4 206.9 206.9 221.4 221.4	221.4	221.4	235.9	235.9	235.9	235.9
EC 45, 250 W	159	HEDL 9140	273	AB 28	317	209.4 223.9 223.9 238.4 238.4	238.4	238.4	252.9	252.9	252.9	252.9
EC-max 30, 60 W	171					105.0 119.5 119.5 134.0 134.0	134.0	134.0	148.5	148.5	148.5	148.5
EC-max 30, 60 W	171	MR	264			117.2 131.7 131.7 146.2 146.2	146.2	146.2	160.7	160.7	160.7	160.7
EC-max 30, 60 W	171	HEDL 5540	271			125.6 140.1 140.1 154.6 154.6	154.6	154.6	169.1	169.1	169.1	169.1
EC-max 30, 60 W	171			AB 20	314	140.6 155.1 155.1 169.6 169.6	169.6	169.6	184.1	184.1	184.1	184.1
EC-max 30, 60 W	171	HEDL 5540	271	AB 20	314	164.6 179.1 179.1 193.6 193.6	193.6	193.6	208.1	208.1	208.1	208.1
EC-max 40, 70 W	172					99.0 113.5 113.5 128.0 128.0	128.0	128.0	142.5	142.5	142.5	142.5
EC-max 40, 70 W	172	MR	265			114.9 129.4 129.4 143.9 143.9	143.9	143.9	158.4	158.4	158.4	158.4
EC-max 40, 70 W	172	HEDL 5540	271			122.4 136.9 136.9 151.4 151.4	151.4	151.4	165.9	165.9	165.9	165.9
EC-max 40, 70 W	172			AB 28	315	139.0 153.5 153.5 168.0 168.0	168.0	168.0	182.5	182.5	182.5	182.5
EC-max 40, 70 W	173	HEDL 5540	271	AB 28	315	162.4 176.9 176.9 191.4 191.4	191.4	191.4	205.9	205.9	205.9	205.9
EC-power 30, 100 W	179					88.0 102.5 102.5 117.0 117.0	117.0	117.0	131.5	131.5	131.5	131.5
EC-power 30, 100 W	179	MR	264			100.2 114.7 114.7 129.2 129.2	129.2	129.2	143.7	143.7	143.7	143.7
EC-power 30, 100 W	179	HEDL 5540	272			108.6 123.1 123.1 137.6 137.6	137.6	137.6	152.1	152.1	152.1	152.1
EC-power 30, 100 W	179			AB 20	314	124.2 138.7 138.7 153.2 153.2	153.2	153.2	167.7	167.7	167.7	167.7
EC-power 30, 100 W	179	HEDL 5540	272	AB 20	314	145.0 159.5 159.5 174.0 174.0	174.0	174.0	188.5	188.5	188.5	188.5
EC-power 30, 200 W	180					105.0 119.5 119.5 134.0 134.0	134.0	134.0	148.5	148.5	148.5	148.5
EC-power 30, 200 W	180	MR	264			117.2 131.7 131.7 146.2 146.2	146.2	146.2	160.7	160.7	160.7	160.7
EC-power 30, 200 W	180	HEDL 5540	272			125.6 140.1 140.1 154.6 154.6	154.6	154.6	169.1	169.1	169.1	169.1
EC-power 30, 200 W	180			AB 20	314	141.2 155.7 155.7 170.2 170.2	170.2	170.2	184.7	184.7	184.7	184.7
EC-power 30, 200 W	180	HEDL 5540	272	AB 20	314	162.0 176.5 176.5 191.0 191.0	191.0	191.0	205.5	205.5	205.5	205.5
MCD EPOS, 60 W	311					161.0 175.5 175.5 190.0 190.0	190.0	190.0	204.5	204.5	204.5	204.5
MCD EPOS P, 60 W	311					161.0 175.5 175.5 190.0 190.0	190.0	190.0	204.5	204.5	204.5	204.5