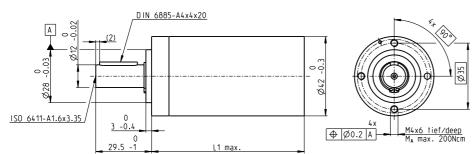
## Planetary Gearhead GP 42 C ∅42 mm, 3.0–15.0 Nm Ceramic Version



<b>Technical Data</b>			
Planetary Gearhead		straight te	eth
Output shaft		stainless s	teel
Bearing at output	preload	ded ball beari	ngs
Radial play, 12 mm from fla	ange	max. 0.06	mm
Axial play at axial load	< 5 N	0	mm
	> 5 N	max. 0.3	mm
Max. axial load (dynamic)		15	0 N
Max. force for press fits		30	0 N
Direction of rotation, drive	to output		=
Max. continuous input spe	ed	8000 i	rpm
Recommended temperatu	re range	-40+10	0°C
Number of stages	Ĭ	2 3	4
Max. radial load, 12 mm			
from flange	120 N 240	0 N 360 N 36	0 N

M 1:2

	Stock program ]Standard program		Part Nu	ımbers								
	Special program (on request)											
	Special program (on request)		203113	203115	203119	203120	203124	203129	203128	203133	203137	203141
Ge	arhead Data											
1	Reduction		3.5:1	12:1	26:1	43:1	81:1	156:1	150:1	285:1	441:1	756:1
2	Absolute reduction		7/2	49/4	26	343/8	2197/27	156	2401/16	15379/54	441	756
10	Mass inertia	gcm <sup>2</sup>	14	15	9.1	15	9.4	9.1	15	15	14	14
3	Max. motor shaft diameter	mm	10	10	8	10	8	8	10	10	10	10
	Part Numbers		203114	203116	260552*	203121	203125	260553*	203130	203134	203138	203142
1	Reduction		4.3:1	15:1	36:1	53:1	91:1	216:1	186:1	319:1	488:1	936:1
2	Absolute reduction		13/3	91/6	36/1	637/12	91	216/1	4459/24	637/2	4394/9	936
10	Mass inertia	gcm <sup>2</sup>	9.1	15	5.0	15	15	5.0	15	15	9.4	9.1
3	Max. motor shaft diameter	mm	8	10	4	10	10	4	10	10	8	8
	Part Numbers		260551*	203117		203122	203126		203131	203135	203139	260554*
1	Reduction		6:1	19:1		66:1	113:1		230:1	353 :1	546:1	1296:1
2	Absolute reduction		6/1	169/9		1183/18	338/3		8281/36	28561/81	546	1296/1
10	Mass inertia	gcm <sup>2</sup>	4.9	9.4		15	9.4		15	9.4	14	5.0
3	Max. motor shaft diameter	mm	4	8		10	8		10	8	10	4
	Part Numbers			203118		203123	203127		203132	203136	203140	
1	Reduction			21:1		74:1	126:1	-	257:1	394:1	676:1	
2	Absolute reduction			21		147/2	126		1029/4	1183/3	676	
10	Mass inertia	gcm <sup>2</sup>		14		15	14		15	15	9.1	
3	Max. motor shaft diameter	mm		10		10	10		10	10	8	
4	Number of stages		1	2	2	3	3	3	4	4	4	4
5	Max. continuous torque	Nm	3.0	7.5	7.5	15.0	15.0	15.0	15.0	15.0	15.0	15.0
6	Max. intermittent 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
7	Max. efficiency	%	90	81	81	72	72	72	64	64	64	64
8	Weight	g	260	360	360	460	460	460	560	560	560	560
9	Average backlash no load	٥	0.6	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
11	Gearhead length L1** *no combination with EC 45 (150/250 W) and EC-i 40 **for EC 45 flat L1 is -3.6 mm	mm	41.0	55.5	55.5	70.0	70.0	70.0	84.5	84.5	84.5	84.5







maxon Modul	ar Syste	m													
+ Motor	Page	+ Sensor	Page	Brake	Page	Overall le	ngth [mm	1] = Motor le	ength + gear	head length	+ (sensor/b	rake) + asse	mbly parts		
RE 35, 90 W	130					112.1	126.6	126.6	141.1	141.1	141.1	155.6	155.6	155.6	155.6
RE 35, 90 W	130	MR	420			123.5	138.0	138.0	152.5	152.5	152.5	167.0	167.0	167.0	167.0
RE 35, 90 W	130	HED_5540	429/431			132.8	147.3	147.3	161.8	161.8	161.8	176.3	176.3	176.3	176.3
RE 35, 90 W	130	DCT 22	438			130.2	144.7	144.7	159.2	159.2	159.2	173.7	173.7	173.7	173.7
RE 35, 90 W	130			AB 28	480	148.2	162.7	162.7	177.2	177.2	177.2	191.7	191.7	191.7	191.7
RE 35, 90 W	130	HED_5540	429/431	AB 28	480	165.4	179.9	179.9	194.4	194.4	194.4	208.9	208.9	208.9	208.9
RE 40, 150 W	132					112.1	126.6	126.6	141.1	141.1	141.1	155.6	155.6	155.6	155.6
RE 40, 150 W	132	MR	420			123.5	138.0	138.0	152.5	152.5	152.5	167.0	167.0	167.0	167.0
RE 40, 150 W	132	HED_5540	429/432	2		132.8	147.3	147.3	161.8	161.8	161.8	176.3	176.3	176.3	176.3
RE 40, 150 W	132	HEDL 9140	436			166.2	180.7	180.7	195.2	195.2	195.2	209.7	209.7	209.7	209.7
RE 40, 150 W	132			AB 28	480	148.2	162.7	162.7	177.2	177.2	177.2	191.7	191.7	191.7	191.7
RE 40, 150 W	132			AB 28	481	156.2	170.7	170.7	185.2	185.2	185.2	199.7	199.7	199.7	199.7
RE 40, 150 W	132	HED_ 5540	429/432	2 AB 28	480	165.4	179.9	179.9	194.4	194.4	194.4	208.9	208.9	208.9	208.9
RE 40, 150 W	132	HEDL 9140	436	AB 28	481	176.7	191.2	191.2	205.7	205.7	205.7	220.2	220.2	220.2	220.2
EC 40, 170 W	213					121.1	135.6	135.6	150.1	150.1	150.1	164.6	164.6	164.6	164.6
EC 40, 170 W	213	HED_5540	430/432	2		144.5	159.0	159.0	173.5	173.5	173.5	188.0	188.0	188.0	188.0
EC 40, 170 W	213	Res 26	439			148.3	162.8	162.8	177.3	177.3	177.3	191.8	191.8	191.8	191.8
EC 40, 170 W	213			AB 32	482	163.8	178.3	178.3	192.8	192.8	192.8	207.3	207.3	207.3	207.3
EC 40, 170 W	213	HED_5540	430/432	2 AB 32	482	182.2	196.7	196.7	211.2	211.2	211.2	225.7	225.7	225.7	225.7
EC 45, 150 W	214					152.3	166.8	166.8	181.3	181.3	181.3	195.8	195.8	195.8	195.8
EC 45, 150 W	214	HEDL 9140	436			167.9	182.4	182.4	196.9	196.9	196.9	211.4	211.4	211.4	211.4
EC 45, 150 W	214	Res 26	439			152.3	166.8	166.8	181.3	181.3	181.3	195.8	195.8	195.8	195.8
EC 45, 150 W	214			AB 28	481	159.7	174.2	174.2	188.7	188.7	188.7	203.2	203.2	203.2	203.2
EC 45, 150 W	214	HEDL 9140	436	AB 28	481	176.7	191.2	191.2	205.7	205.7	205.7	220.2	220.2	220.2	220.2
EC 45, 250 W	215					185.1	199.6	199.6	214.1	214.1	214.1	228.6	228.6	228.6	228.6
EC 45, 250 W	215	HEDL 9140	436			200.7	215.2	215.2	229.7	229.7	229.7	244.2	244.2	244.2	244.2
EC 45, 250 W	215	Res 26	439			185.1	199.6	199.6	214.1	214.1	214.1	228.6	228.6	228.6	228.6
EC 45, 250 W	215			AB 28	481	192.5	207.0	207.0	221.5	221.5	221.5	236.0	236.0	236.0	236.0
EC 45, 250 W	215	HEDL 9140	436	AB 28	481	209.5	224.0	224.0	238.5	238.5	238.5	253.0	253.0	253.0	253.0