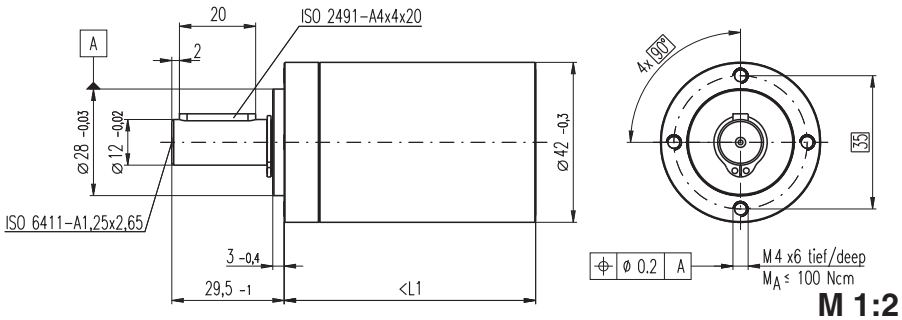
Planetary Gearhead GP 42 C ∅42 mm, 3 - 15 Nm

Ceramic Version



M 1:2

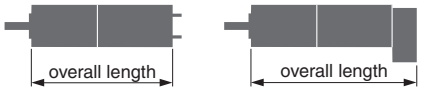
Technical Data

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
Gearhead 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	Reduction absolute		7/2	49/4	26	343/8	2197/27	156	2401/16	15379/54	441	756
3	Mass inertia	gcm²	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
	Order Number		**203114**	**203116**		203121	203125		203130	**203134**	203138	**203142**
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	gcm²	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
	Order Number			203117		203122	**203126**		**203131**	203135	**203139**	
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	gcm²		9.4		15	9.4		15	9.4	14	
4	Max. motor shaft diameter	mm		8		10	8		10	8	10	
	Order Number			203118		**203123**	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	gcm²		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

*for EC 45 flat L1 is - 3.5 mm



maxon Modular System

+ Motor	Page	+ Sensor	Page	+ Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts									
RE 35, 90 W	81					111.9	126.4	126.4	140.9	140.9	140.9	155.4	155.4	155.4	155.4
RE 35, 90 W	81	MR	265			123.3	137.8	137.8	152.3	152.3	152.3	166.8	166.8	166.8	166.8
RE 35, 90 W	81	HED_ 5540	268/270			132.9	147.4	147.4	161.9	161.9	161.9	176.4	176.4	176.4	176.4
RE 35, 90 W	81	DCT 22	277			130.0	144.5	144.5	159.0	159.0	159.0	173.5	173.5	173.5	173.5
RE 35, 90 W	81			AB 28	316	148.0	162.5	162.5	177.0	177.0	177.0	191.5	191.5	191.5	191.5
RE 40, 150 W	82					112.0	126.5	126.5	141.0	141.0	141.0	155.5	155.5	155.5	155.5
RE 40, 150 W	82	MR	265			123.4	137.9	137.9	152.4	152.4	152.4	166.9	166.9	166.9	166.9
RE 40, 150 W	82	HED_ 5540	268/270			132.7	147.2	147.2	161.7	161.7	161.7	176.2	176.2	176.2	176.2
RE 40, 150 W	82	HEDL 9140	273			166.1	180.6	180.6	195.1	195.1	195.1	209.6	209.6	209.6	209.6
RE 40, 150 W	82			AB 28	316	148.1	162.6	162.6	177.1	177.1	177.1	191.6	191.6	191.6	191.6
RE 40, 150 W	82			AB 28	317	156.1	170.6	170.6	185.1	185.1	185.1	199.6	199.6	199.6	199.6
RE 40, 150 W	82	HED_ 5540	268/270	AB 28	316	165.2	179.7	179.7	194.2	194.2	194.2	208.7	208.7	208.7	208.7
RE 40, 150 W	82	HEDL 9140	273	AB 28	317	176.6	191.1	191.1	205.6	205.6	205.6	220.1	220.1	220.1	220.1
EC 40, 120 W	157					111.0	125.5	125.5	140.0	140.0	140.0	154.5	154.5	154.5	154.5
EC 40, 120 W	157	HED_ 5540	269/270			129.4	143.9	143.9	158.4	158.4	158.4	172.9	172.9	172.9	172.9
EC 40, 120 W	157	Res 26	278			137.6	152.1	152.1	166.6	166.6	166.6	181.1	181.1	181.1	181.1
EC 40, 120 W	157			AB 28	316	141.8	156.3	156.3	170.8	170.8	170.8	185.3	185.3	185.3	185.3
EC 45, 150 W	158					152.2	166.7	166.7	181.2	181.2	181.2	195.7	195.7	195.7	195.7
EC 45, 150 W	158	HEDL 9140	273			167.8	182.3	182.3	196.8	196.8	196.8	211.3	211.3	211.3	211.3
EC 45, 150 W	158	Res 26	278			152.2	166.7	166.7	181.2	181.2	181.2	195.7	195.7	195.7	195.7
EC 45, 150 W	158			AB 28	317	159.6	174.1	174.1	188.6	188.6	188.6	203.1	203.1	203.1	203.1
EC 45, 150 W	158	HEDL 9140	273	AB 28	317	176.6	191.1	191.1	205.6	205.6	205.6	220.1	220.1	220.1	220.1
EC 45 flat, 30 W	195					53.9	68.4	68.4	82.9	82.9	82.9	97.4	97.4	97.4	97.4
EC 45 flat, 50 W	196					58.8	73.3	73.3	87.8	87.8	87.8	102.3	102.3	102.3	102.3
EC 45 fl, IE, IP 00	197					72.8	87.3	87.3	101.8	101.8	101.8	116.3	116.3	116.3	116.3
EC 45 fl, IE, IP 40	197					75.0	89.5	89.5	104.0	104.0	104.0	118.5	118.5	118.5	118.5
EC 45 fl, IE, IP 00	198					77.8	92.3	92.3	106.8	106.8	106.8	121.3	121.3	121.3	121.3
EC 45 fl, IE, IP 40	198					80.0	94.5	94.5	109.0	109.0	109.0	123.5	123.5	123.5	123.5