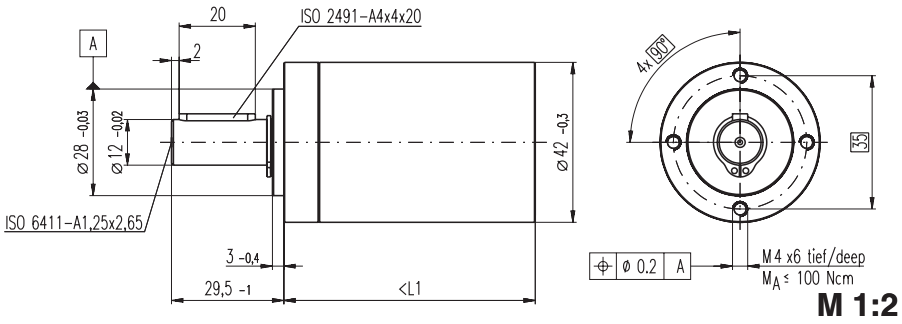
Planetary Gearhead GP 42 C ∅42 mm, 3 - 15 Nm

Ceramic Version

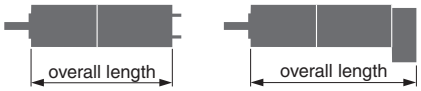


Technical Data

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
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



Combination

+ Motor	Page	+ Tacho	Page	+ Brake	Page	Overall length [mm] = Motor length + gearhead length + (tacho / brake) + assembly parts									
EC 45, 250 W	167					185.0	199.5	199.5	214.0	214.0	214.0	228.5	228.5	228.5	228.5
EC 45, 250 W	167	HEDL 9140	267			200.6	215.1	215.1	229.6	229.6	229.6	244.1	244.1	244.1	244.1
EC 45, 250 W	167	Res 26	272			185.0	199.5	199.5	214.0	214.0	214.0	228.5	228.5	228.5	228.5
EC 45, 250 W	167			AB 28	309	192.4	206.9	206.9	221.4	221.4	221.4	235.9	235.9	235.9	235.9
EC 45, 250 W	167	HEDL 9140	267	AB 28	309	209.4	223.9	223.9	238.4	238.4	238.4	252.9	252.9	252.9	252.9
EC-max 30, 60 W	179					105.0	119.5	119.5	134.0	134.0	134.0	148.5	148.5	148.5	148.5
EC-max 30, 60 W	179	MR	258			117.2	131.7	131.7	146.2	146.2	146.2	160.7	160.7	160.7	160.7
EC-max 30, 60 W	179	HEDL 5540	266			125.6	140.1	140.1	154.6	154.6	154.6	169.1	169.1	169.1	169.1
EC-max 30, 60 W	179			AB 20	306	140.6	155.1	155.1	169.6	169.6	169.6	184.1	184.1	184.1	184.1
EC-max 30, 60 W	179	HEDL 5540	266	AB 20	306	164.6	179.1	179.1	193.6	193.6	193.6	208.1	208.1	208.1	208.1
EC-max 40, 70 W	180					99.0	113.5	113.5	128.0	128.0	128.0	142.5	142.5	142.5	142.5
EC-max 40, 70 W	180	MR	259			114.9	129.4	129.4	143.9	143.9	143.9	158.4	158.4	158.4	158.4
EC-max 40, 70 W	180	HEDL 5540	266			122.4	136.9	136.9	151.4	151.4	151.4	165.9	165.9	165.9	165.9
EC-max 40, 70 W	180			AB 28	307	139.0	153.5	153.5	168.0	168.0	168.0	182.5	182.5	182.5	182.5
EC-max 40, 70 W	180	HEDL 5540	266	AB 28	307	162.4	176.9	176.9	191.4	191.4	191.4	205.9	205.9	205.9	205.9
EC-power 30, 100 W	187					88.0	102.5	102.5	117.0	117.0	117.0	131.5	131.5	131.5	131.5
EC-power 30, 100 W	187	MR	259			100.2	114.7	114.7	129.2	129.2	129.2	143.7	143.7	143.7	143.7
EC-power 30, 100 W	187	HEDL 5540	266			108.6	123.1	123.1	137.6	137.6	137.6	152.1	152.1	152.1	152.1
EC-power 30, 100 W	187			AB 20	306	124.2	138.7	138.7	153.2	153.2	153.2	167.7	167.7	167.7	167.7
EC-power 30, 100 W	187	HEDL 5540	266	AB 20	306	145.0	159.5	159.5	174.0	174.0	174.0	188.5	188.5	188.5	188.5
EC-power 30, 200 W	188					105.0	119.5	119.5	134.0	134.0	134.0	148.5	148.5	148.5	148.5
EC-power 30, 200 W	188	MR	259			117.2	131.7	131.7	146.2	146.2	146.2	160.7	160.7	160.7	160.7
EC-power 30, 200 W	188	HEDL 5540	266			125.6	140.1	140.1	154.6	154.6	154.6	169.1	169.1	169.1	169.1
EC-power 30, 200 W	188			AB 20	306	141.2	155.7	155.7	170.2	170.2	170.2	184.7	184.7	184.7	184.7
EC-power 30, 200 W	188	HEDL 5540	266	AB 20	306	162.0	176.5	176.5	191.0	191.0	191.0	205.5	205.5	205.5	205.5
MCD EPOS, 60 W	303					161.0	175.5	175.5	190.0	190.0	190.0	204.5	204.5	204.5	204.5
MCD EPOS P, 60 W	303					161.0	175.5	175.5	190.0	190.0	190.0	204.5	204.5	204.5	204.5