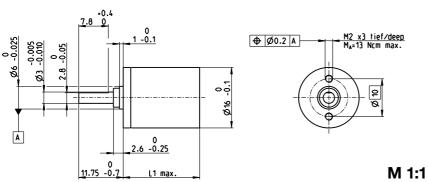
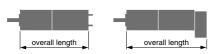
## Planetary Gearhead GP 16 A Ø16 mm, 0.1-0.3 Nm



<b>Technical Data</b>								
Planetary Gearhead	,	straight teeth						
Output shaft	Output shaft stainless							
Bearing at output								
Radial play, 6 mm fro	m	max. 0.06 mm						
Axial play	0	0.02-0.10 mm						
Max. axial load (dyna		8 N						
Max. force for press		100 N						
Direction of rotation, drive to output								
Max. continuous inpu		8000 rpm						
Recommended temperature range -30+100°								
Extended range as		-40+	100°C					
Number of stages	1	2	3	4	5			
Max. radial load, 6 mm								
from flange	8 N	12 N	16 N	20 N	20 N			

Stock program Standard program			Part Numbers									
	Special program (on request)	110321	110322	110323	118186	110324	134782	110325	134785			
Gea	arhead Data											
1	Reduction		4.4:1	19:1	84:1	157:1	370:1	690:1	1621:1	3027:1		
2	Absolute reduction		57/ <sub>13</sub>	3249/169	185193/2197	19683/125	10556001/28561	1121931/1625	601692057/371293	63950067/21125		
3	Max. motor shaft diameter	mm	2	2	2	1.5	2	2	2	2		
	Part Numbers		118184	134777	134778		134780	118187	134783	134786		
1	Reduction		5.4:1	24:1	104:1		455:1	850 :1	1996:1	3728:1		
2	Absolute reduction		<sup>27</sup> / <sub>5</sub>	1539/65	87723/845		5000211/10985	531441/625	285012027/142805	30292137/8125		
3	Max. motor shaft diameter	mm	1.5	2	2		2	1.5	2	2		
	Part Numbers			118185	134779		134781		134784	118188		
1	Reduction			29:1	128:1		561:1		2458:1	4592:1		
2	Absolute reduction			729/25	41553/325		2368521/4225		135005697/54925	14348907/3125		
3	Max. motor shaft diameter	mm		1.5	2		2		2	1.5		
4	Number of stages		1	2	3	3	4	4	5	5		
5	Max. continuous torque	Nm	0.10	0.15	0.20	0.20	0.25	0.25	0.30	0.30		
6	Max. intermittent torque at gear output	Nm	0.150	0.225	0.300	0.300	0.375	0.375	0.450	0.450		
7	Max. efficiency	%	90	81	73	73	65	65	59	59		
8	Weight	g	20	23	27	27	31	31	35	35		
9	Average backlash no load	0	1.4	1.6	2.0	2.0	2.4	2.4	3.0	3.0		
10	Mass inertia	gcm <sup>2</sup>	0.07	0.05	0.05	0.04	0.05	0.05	0.05	0.05		
	Gearhead length L1	mm	15.5	19.1	22.7	22.7	26.3	26.3	29.9	29.9		



+ Motor	Page	+ Sensor/Brake	Page	<b>Overall lengt</b>	h [mm] = Moto	r length + gearh	ead length + (sei	nsor/brake) + ass	embly parts		
RE 16, 2 W	120			37.9	41.5	45.1	45.1	48.7	48.7	52.3	52.3
RE 16, 2 W	120	MR	416/417	43.6	47.2	50.8	50.8	54.4	54.4	58.0	58.0
RE 16, 3.2 W	121/122			56.0	59.6	63.2	63.2	66.8	66.8	70.4	70.4
RE 16, 3.2 W	122	MR	416/417	61.0	64.6	68.2	68.2	71.8	71.8	75.4	75.4
RE 16, 3.2 W	122	MEnc 13	407	62.1	65.7	69.3	69.3	72.9	72.9	76.5	76.5
RE 16, 4.5 W	123/124			59.0	62.6	66.2	66.2	69.8	69.8	73.4	73.4
RE 16, 4.5 W	124	MR	416/417	64.0	67.6	71.2	71.2	74.8	74.8	78.4	78.4
RE 16, 4.5 W	124	MEnc 13	407	65.2	68.8	72.4	72.4	76.0	76.0	79.6	79.6
A-max 16	139-142			41.0	44.6	48.2	48.2	51.8	51.8	55.4	55.4
A-max 16	140/142	MR	416/417	46.0	49.6	53.2	53.2	56.8	56.8	60.4	60.4
A-max 16	140/142	MEnc 13	407	49.1	52.7	56.3	56.3	59.9	59.9	63.5	63.5
EC-max 16, 5 W	219			39.6	43.2	46.8	46.8	50.4	50.4	54.0	54.0
EC-max 16, 5 W	219	MR	418	46.9	50.5	54.1	54.1	57.7	57.7	61.3	61.3
EC-max 16, 2-wire	220			49.1	52.7	56.3	56.3	59.9	59.9	63.5	63.5

Option Ball Bearing	<b>Part Numl</b>	bers			Technical Data
	4.4 : 1	138333	455 : 1	138343	Planetary Gearhead straight teeth
110 TH 6 L	5.4 : 1	138334	561 : 1	138344	Output shaft stainless steel, hardened
⊕ Ø 0.2 A → M2x3tief/deep	19 : 1	138335	690 : 1	138345	Bearing at output preloaded ball bearings
	24:1	138336	850 : 1	138346	Radial play, 6 mm from flange max. 0.08 mm
	29 : 1	138337	1621 : 1	138347	Axial play at axial load < 4 N 0 mm
	84 : 1	138338	1996 : 1	138348	> 4 N max. 0.05 mm
	104 : 1	138339	2458 : 1	138349	Max. axial load (dynamic) 8 N
	128 : 1	138340	3027 : 1	138350	Max. force for press fits 25 N
	157 : 1	138341	3728 : 1	138351	Direction of rotation, drive to output = Max. continuous input speed 8000 rpm
	370 : 1	138342	4592 : 1	138352	Recommended temperature range -40+100°C
					Number of stages 1 2 3 4 5
					Max. radial load. 6 mm
					from flange 10 N 15 N 20 N 20 N 20 N
					Gearhead values according to sleeve bearing version
					9