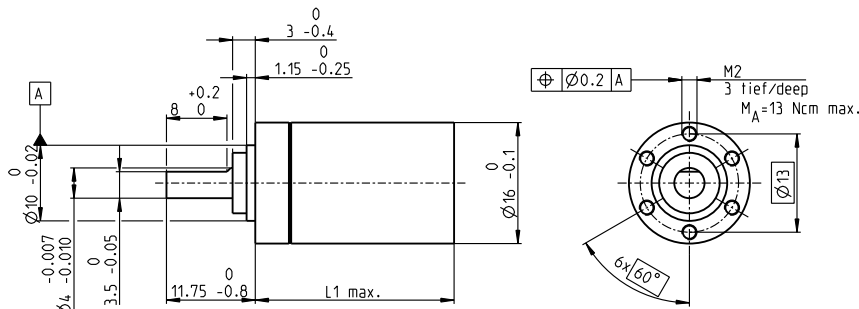


Planetary Gearhead GP 16 C Ø16 mm, 0.2–0.6 Nm

Ceramic Version



Technical data

Planetary Gearhead	straight teeth
Output shaft	stainless steel, hardened
Bearing at output	preloaded ball bearings
Radial play, 6 mm from flange	max. 0.08 mm
Axial play at axial load	< 4 N 0 mm > 4 N max. 0.05 mm
Max. axial load (dynamic)	12 N
Max. force for press fits	100 N
Direction of rotation, drive to output	=
Max. continuous input speed	12000 rpm
Recommended temperature range	-40...+100°C
Number of stages	1 2 3 4 5
Max. radial load, 6 mm from flange	20 N 40 N 60 N 80 N 80 N

M 1:1

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

Part numbers

Gearhead data	416328	407883	416391	401954	328699	416028	416188	414453
1 Reduction	4.4:1	19:1	84:1	157:1	370:1	690:1	1621:1	3027:1
2 Absolute reduction	57/13	3249/169	185193/2197	19683/125	10556001/28561	1121931/1625	601692057/371293	63950067/21125
3 Max. motor shaft diameter	2	2	2	1.5	2	1.5	2	2
Part numbers	416500	416499	416385		416115	415807	415893	415476
1 Reduction	5.4:1	24:1	104:1		455:1	850:1	1996:1	3728:1
2 Absolute reduction	27/5	1539/65	87723/845		500021/10985	531441/625	285012027/142805	30292137/6125
3 Max. motor shaft diameter	1.5	1.5	2		2	1.5	2	1.5
Part numbers		416428	402672		416097		415786	409316
1 Reduction		29:1	128:1		561:1		2458:1	4592:1
2 Absolute reduction		729/25	41553/325		236852/4225		135005697/64925	14348907/3125
3 Max. motor shaft diameter		1.5	1.5		2		2	1.5
4 Number of stages	1	2	3	3	4	4	5	5
5 Max. continuous torque	Nm	0.2	0.3	0.4	0.5	0.5	0.6	0.6
6 Max. intermittent torque at gear output	Nm	0.3	0.45	0.6	0.75	0.75	0.9	0.9
7 Max. efficiency	%	90	81	73	73	65	59	59
8 Weight	g	22	25	29	29	33	37	37
9 Average backlash no load	°	1.4	1.6	2	2	2.4	3	3
10 Mass inertia	gcm ²	0.07	0.05	0.05	0.04	0.05	0.05	0.05
11 Gearhead length L1	mm	18.1	23.2	26.8	26.8	30.4	33.9	33.9



Modular system									
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts					
RE 16, 2 W	151			40.5	45.6	49.2	49.2	52.8	56.3
RE 16, 2 W	151	ENX 16 IMR	502	46.2	51.3	54.9	54.9	58.5	62.0
RE 16, 2 W	151	MR	533	46.2	51.3	54.9	54.9	58.5	62.0
RE 16, 3.2 W	152/153			58.6	63.7	67.3	67.3	70.9	74.4
RE 16, 3.2 W	153	ENX 13 GAMA	498	64.7	69.8	73.4	73.4	77.0	80.5
RE 16, 3.2 W	153	ENX 16 IMR	502	63.6	68.7	72.3	72.3	75.9	79.4
RE 16, 3.2 W	153	MR	533	63.6	68.7	72.3	72.3	75.9	79.4
RE 16, 4.5 W	154/155			61.6	66.7	70.3	70.3	73.9	77.4
RE 16, 4.5 W	155	ENX 13 GAMA	498	67.8	72.9	76.5	76.5	80.1	83.6
RE 16, 4.5 W	155	ENX 16 IMR	502	66.6	71.7	75.3	75.3	78.9	82.4
RE 16, 4.5 W	155	MR	533	66.6	71.7	75.3	75.3	78.9	82.4
A-max 16	171-174			43.6	48.7	52.3	52.3	55.9	59.4
A-max 16	172/174	ENX 13 GAMA	498	67.8	72.9	76.5	76.5	80.1	83.6
A-max 16	172/174	ENX 16 IMR	502	48.6	53.7	57.3	57.3	60.9	64.4
A-max 16	172/174	MR	533	48.6	53.7	57.3	57.3	60.9	64.4
EC-max 16, 5 W	279			42.1	47.3	50.9	50.9	54.4	57.9
EC-max 16, 5 W	279	16 EASY/XT/Abs.	509-511	52.3	57.5	61.1	61.1	64.6	68.1
EC-max 16, 5 W	279	16 EASY Abs. XT	512	52.8	58.0	61.6	61.6	65.1	68.6
EC-max 16, 8 W	281			54.1	59.3	62.9	62.9	66.4	69.9
EC-max 16, 8 W	281	16 EASY/XT/Abs.	509-511	64.3	69.5	73.1	73.1	76.6	80.1
EC-max 16, 8 W	281	16 EASY Abs. XT	512	64.8	70.0	73.6	73.6	77.1	80.6