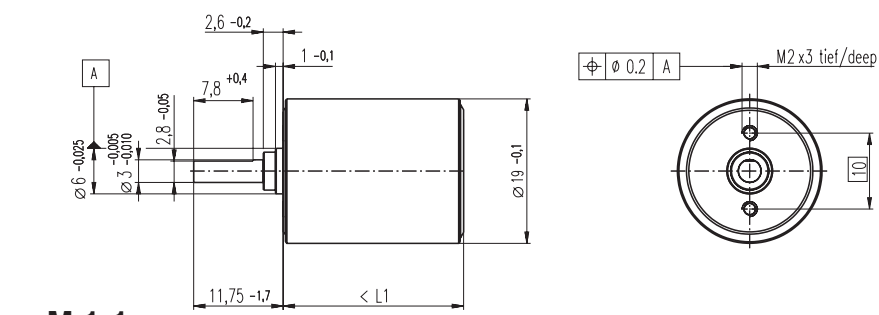


Planetary Gearhead GP 19 B Ø19 mm, 0.1 - 0.3 Nm



Technical Data

Planetary Gearhead	straight teeth
Output shaft	stainless steel, hardened
Bearing at output	sleeve bearings
Radial play, 6 mm from flange	< 0.08 mm
Axial play	0.02 - 0.12 mm
Max. permissible axial load	8 N
Max. permissible force for press fits	100 N
Recommended input speed	< 6000 rpm
Recommended temperature range	-15 ... +65°C
Number of stages	1 2 3 4 5
Max. perm. radial load, 6 mm from flange	8 N 12 N 16 N 20 N 20 N

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

Order Number

	149039	149041	149044	149047	149048	149051	149053	149056
Gearhead Data								
1 Reduction	4.4 : 1	19 : 1	84 : 1	157 : 1	370 : 1	690 : 1	1621 : 1	3027 : 1
2 Reduction absolute	57/13	3249/169	185193/2197	19683/125	10556001/28561	1121931/1625	601692057/371293	63950067/21125
Order Number	149040	149042	149045		149049	149052	149054	149057
1 Reduction	5.4 : 1	24 : 1	104 : 1		455 : 1	850 : 1	1996 : 1	3728 : 1
2 Reduction absolute	27/5	1539/65	87723/845		5000211/10985	531441/625	285012027/142805	30292137/8125
Order Number		149043	149046		149050		149055	149058
1 Reduction		29 : 1	128 : 1		561 : 1		2458 : 1	4592 : 1
2 Reduction absolute		729/25	41553/325		2368521/4225		135005697/54925	14348907/3125
3 Number of stages	1	2	3	3	4	4	5	5
4 Max. continuous torque at gear output Nm	0.10	0.15	0.20	0.20	0.25	0.25	0.30	0.30
5 Intermittently permissible torque at gear output Nm	0.150	0.225	0.300	0.300	0.375	0.375	0.450	0.450
6 Sense of rotation, drive to output	=	=	=	=	=	=	=	=
7 Max. efficiency %	90	81	73	73	65	65	59	59
8 Weight g	26	31	36	36	41	41	46	46
9 Average backlash no load °	0.7	0.8	1.0	1.0	1.2	1.2	1.5	1.5
10 Mass inertia gcm ²	0.08	0.05	0.05	0.05	0.05	0.05	0.05	0.05
11 Gearhead length L1 mm	15.9	19.5	23.1	23.1	26.7	26.7	30.3	30.3



Combination:

+ Motor	Page	+ Tacho / Encoder / Brake	Page	Overall length [mm] = Motor length + gearhead length + (tacho / encoder / brakes) + assembly parts						
A 2520, 1.2 W 86				34.1	37.7	41.3	41.3	44.9	44.9	48.5
A 2520, 1.2 W 86		Digital Magnetic Encoder 13	223	41.6	45.2	48.8	48.8	52.4	52.4	56.0
A-max 19	105/106			44.9	48.5	52.1	52.1	55.7	55.7	59.3
A-max 19	105	Digital Magnetic Encoder 13	223	52.4	56.0	59.6	59.6	63.2	63.2	66.8
A-max 19	106	MR Encoder	210/211	50.0	53.6	57.2	57.2	60.8	60.8	64.4
A-max 19	106	Digital Encoder 22	215	59.3	62.9	66.5	66.5	70.1	70.1	73.7
A-max 19	107/108			47.5	51.1	54.7	54.7	58.3	58.3	61.9
A-max 19	107	Digital Magnetic Encoder 13	223	54.2	57.8	61.4	61.4	65.0	65.0	68.6
A-max 19	108	MR Encoder	210/211	51.8	55.4	59.0	59.0	62.6	62.6	66.2
A-max 19	108	Digital Encoder 22	215	61.9	65.5	69.1	69.1	72.7	72.7	76.3