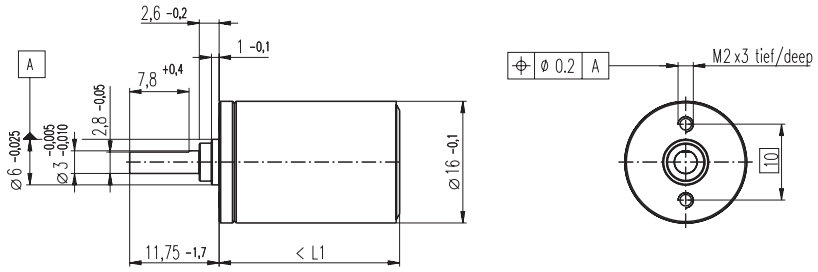
Planetary Gearhead GP 16 A ∅16 mm, 0.1 - 0.3 Nm

Metal Version



M 1:1

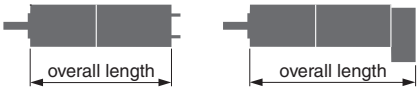
Technical Data

Planetary Gearhead					straight teeth
Output shaft					stainless steel, hardened
Bearing at output					sleeve bearings*
Radial play, 6 mm from flange					max. 0.06 mm
Axial play					0.02 - 0.10 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

*Options: Ball bearing

Stock program
Standard program
Special program (on request!)

		Order Number							
		110321	110322	110323	118186	110324	134782	110325	134785
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	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	Reduction absolute	$^{27}/_{5}$	$^{1539}/_{65}$	$^{87723}/_{845}$		$^{5000211}/_{10985}$	$^{531441}/_{625}$	$^{285012027}/_{142805}$	$^{30292137}/_{8125}$
	Order Number		118185	134779		134781		134784	118188
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	20	23	27	27	31	31	35	35
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	15.5	19.1	22.7	22.7	26.3	26.3	29.9	29.9



Combination:

+ Motor	Page	+ Tacho / Encoder / Brake	Page	Overall length [mm] = Motor length + gearhead length + (tacho / encoder / brakes) + assembly parts							
RE 15, 1.6 W	71			37.9	41.5	45.1	45.1	48.7	48.7	52.3	52.3
RE 16, 3.2 W	72 / 73			56.0	59.6	63.2	63.2	66.8	66.8	70.4	70.4
RE 16, 3.2 W	73	MR Encoder	210/211	61.0	64.6	68.2	68.2	71.8	71.8	75.4	75.4
RE 16, 3.2 W	73	Digital Magnetic Encoder 13	223	62.1	65.7	69.3	69.3	72.9	72.9	76.5	76.5
RE 16, 4.5 W	74 / 75			59.0	62.6	66.2	66.2	69.8	69.8	73.4	73.4
RE 16, 4.5 W	75	MR Encoder	210/211	64.0	67.6	71.2	71.2	74.8	74.8	78.4	78.4
RE 16, 4.5 W	75	Digital Magnetic Encoder 13	223	65.1	68.7	72.3	72.3	75.9	75.9	79.5	79.5
A-max 16	101-104			41.0	44.6	48.2	48.2	51.8	51.8	55.4	55.4
A-max 16	102/104	MR Encoder	210/211	46.0	49.6	53.2	53.2	56.8	56.8	60.4	60.4
A-max 16	101/104	Digital Magnetic Encoder 13	223	49.1	52.7	56.3	56.3	59.9	59.9	63.5	63.5
RE-max 17	131-134			41.0	44.6	48.2	48.2	51.8	51.8	55.4	55.4
RE-max 17	132/134	MR Encoder	210/211	46.0	49.6	53.2	53.2	56.8	56.8	60.4	60.4
EC 16, 15 W	150			55.8	59.4	63.0	63.0	66.6	66.6	70.2	70.2