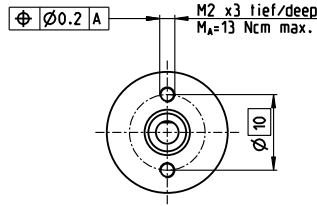
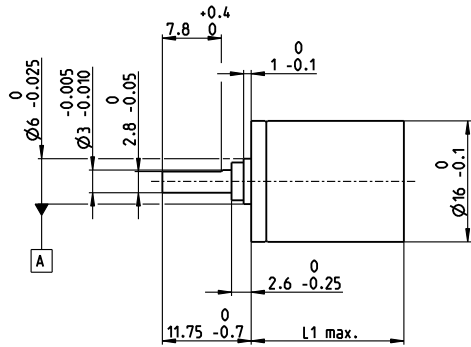


Planetary Gearhead GP 16 A Ø16 mm, 0.1–0.3 Nm

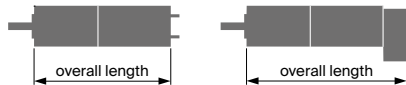
gear



M 1:1

Technical data	
Planetary Gearhead	straight teeth
Output shaft	stainless steel, hardened
Bearing at output	sleeve bearing
Radial play, 6 mm from flange	max. 0.06 mm
Axial play	0.02–0.10 mm
Max. axial load (dynamic)	8 N
Max. force for press fits	100 N
Direction of rotation, drive to output	=
Max. continuous input speed	8000 rpm
Recommended temperature range	-30...+100°C
Extended range as option	-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

Gearhead data	Part numbers							
	110321	110322	110323	118186	110324	134782	110325	134785
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	mm 2	2	2	1.5	2	2	2	2
Part numbers								
1 Reduction	118184	134777	134778		134780	118187	134783	134786
2 Absolute reduction	5.4:1	24:1	104:1		455:1	850:1	1996:1	3728:1
3 Max. motor shaft diameter	mm 1.5	2	2		2	1.5	2	2
Part numbers								
1 Reduction		118185	134779		134781		134784	118188
2 Absolute reduction		29:1	128:1		561:1		2458:1	4592:1
3 Max. motor shaft diameter	mm 1.5	2	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	° 1.4	1.6	2.0	2.0	2.4	2.4	3.0	3.0
10 Mass inertia	gcm ² 0.07	0.05	0.05	0.04	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



Modular system									
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts					
RE 16, 2 W	151			37.9	41.5	45.1	45.1	48.7	52.3
RE 16, 2 W	151	ENX 16 IMR	502	43.6	47.2	50.8	50.8	54.4	58.0
RE 16, 2 W	151	MR	533	43.6	47.2	50.8	50.8	54.4	58.0
RE 16, 3.2 W	152/153			56.0	59.6	63.2	63.2	66.8	70.4
RE 16, 3.2 W	153	ENX 13 GAMA	498	62.1	65.7	69.3	69.3	72.9	76.5
RE 16, 3.2 W	153	ENX 16 IMR	502	61.0	64.6	68.2	68.2	71.8	75.4
RE 16, 3.2 W	153	MR	533	61.0	64.6	68.2	68.2	71.8	75.4
RE 16, 4.5 W	154/155			59.0	62.6	66.2	66.2	69.8	73.4
RE 16, 4.5 W	155	ENX 13 GAMA	498	65.2	68.8	72.4	72.4	76.0	79.6
RE 16, 4.5 W	155	ENX 16 IMR	502	64.0	67.6	71.2	71.2	74.8	78.4
RE 16, 4.5 W	155	MR	533	64.0	67.6	71.2	71.2	74.8	78.4
A-max 16	171–174			41.0	44.6	48.2	48.2	51.8	55.4
A-max 16	172/174	ENX 13 GAMA	498	49.1	52.7	56.3	56.3	59.9	63.5
A-max 16	172/174	ENX 16 IMR	502	46.0	49.6	53.2	53.2	56.8	60.4
A-max 16	172/174	MR	533	46.0	49.6	53.2	53.2	56.8	60.4
EC-max 16, 5 W	279			39.6	43.2	46.8	46.8	50.4	54.0
EC-max 16, 5 W	279	16 EASY/XT/Abs.	509–511	49.8	53.4	57.0	57.0	60.6	64.2
EC-max 16, 5 W	279	16 EASY Abs. XT	512	50.3	53.9	57.5	57.5	61.1	64.7
EC-max 16, 2-wire	279			49.1	52.7	56.3	56.3	59.9	63.5
EC-max 16, 8 W	281			51.6	55.2	58.8	58.8	62.4	66.0
EC-max 16, 8 W	281	16 EASY/XT/Abs.	509–511	61.8	65.4	69.0	69.0	72.6	76.2
EC-max 16, 8 W	281	16 EASY Abs. XT	512	62.3	65.9	69.5	69.5	73.1	76.7

Option ball bearing		Part numbers		Technical data	
		4.4:1	138333	455:1	138343
		5.4:1	138334	561:1	138344
		19:1	138335	690:1	138345
		24:1	138336	850:1	138346
		29:1	138337	1621:1	138347
		84:1	138338	1996:1	138348
		104:1	138339	2458:1	138349
		128:1	138340	3027:1	138350
		157:1	138341	3728:1	138351
		370:1	138342	4592:1	138352
		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)		8 N	
		Max. force for press fits		25 N	
		Direction of rotation, drive to output		=	
		Max. continuous input speed		8000 rpm	
		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			