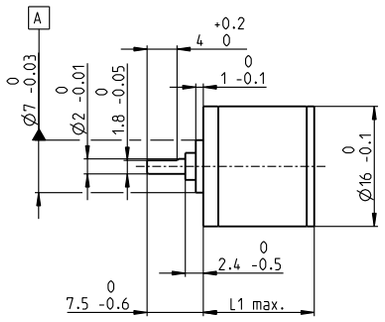
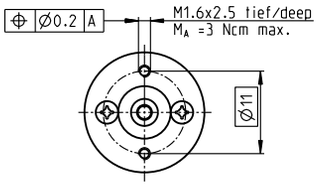
Spur Gearhead GS 16 K ∅16 mm, 0.01–0.03 Nm

Plastic Version





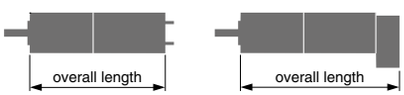
M 1:1

Technical Data

Spur Gearhead	straight teeth
Output shaft	stainless steel, hardened
Bearing at output	sleeve bearing
Radial play, 6.5 mm from flange	max. 0.15 mm
Axial play	0.02–0.12 mm
Max. axial load (dynamic)	2 N
Max. force for press fits	15 N
Max. continuous input speed	8000 rpm
Recommended temperature range	-15…+80°C
Max. radial load, 6.5 mm from flange	1 N

Stock program
Standard program
Special program (on request)

Gearhead Data		Part Numbers					
		201463	201465	201467	201469	201471	201473
1 Reduction		6.4:1	22:1	76:1	261:1	900:1	3101:1
2 Absolute reduction		403/63	12493/567	387283/5103	12005773/45927	372178963/413343	11537547853/3720087
3 Max. motor shaft diameter	mm	1.5	1.5	1.5	1.5	1.5	1.5
Part Numbers		207405	207406	207407	207408	207409	207410
1 Reduction		9.1:1	31:1	108:1	371:1	1278:1	4402:1
2 Absolute reduction		899/99	27869/891	863939/8019	26782109/72171	830245379/649539	25737606749/5845851
3 Max. motor shaft diameter	mm	1.5	1.5	1.5	1.5	1.5	1.5
Part Numbers		201464	201466	201468	201470	201472	201474
1 Reduction		12:1	41:1	141:1	485:1	1670:1	5752:1
2 Absolute reduction		961/81	29791/729	923521/6561	28629151/59049	887503681/531441	27512614111/4782969
3 Max. motor shaft diameter	mm	1	1	1	1	1	1
4 Number of stages		2	3	4	5	6	7
5 Max. continuous torque	Nm	0.010	0.020	0.030	0.030	0.030	0.030
6 Max. intermittent torque at gear output	Nm	0.10	0.10	0.10	0.10	0.10	0.10
12 Direction of rotation, drive to output		=	≠	=	≠	=	≠
7 Max. efficiency	%	81	73	66	59	53	48
8 Weight	g	9.0	9.8	10.2	10.7	11.3	11.7
9 Average backlash no load	°	1.0	1.0	1.2	1.2	1.5	1.5
10 Mass inertia	gcm²	0.0032	0.0031	0.0031	0.0031	0.0031	0.0031
11 Gearhead length L1	mm	11.8	12.8	14.8	16.8	18.8	20.8



maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts					
A-max 16	139-142			37.3	38.3	40.3	42.3	44.3	46.3
A-max 16	140/142	MR	416/417	42.3	43.3	45.3	47.3	49.3	51.3
A-max 16	140/142	MEnc 13	407	45.4	46.4	48.4	50.4	52.4	54.4