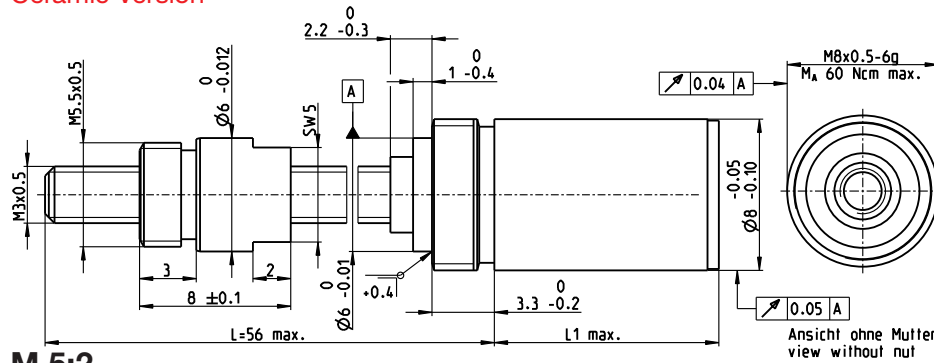


Spindle Drive GP 8 S Ø8 mm, Metric spindle

Ceramic Version



M 5:2

Technical Data

Spindle	M3 x 0.5, ceramic
Standard length	56 mm
Special length (5 mm steps)	max. 100 mm
Nut (standard)	thread nut
Material	stainless steel
Axial play	< 0.09 mm
Planetary gearhead	straight teeth
Bearing	ball bearing
Radial play, 5 mm from flange	< 0.08 mm
Axial play	preloaded
Max. continuous input speed	12000 rpm
Recommended temperature range	-15...+80°C
Max. axial load (static) ¹	25 N
Number of stages	1 2 3 4 5
Max. radial load, 5 mm from flange	5 N 5 N 5 N 5 N 5 N

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

Part Numbers

	473636	473637	473639	473640	473641				
Spindle Drive Data (provisional)									
1 Reduction	4:1	16:1	64:1	256:1	1024:1				
2 Absolute reduction	$\frac{4}{1}$	$\frac{16}{1}$	$\frac{64}{1}$	$\frac{256}{1}$	$\frac{1024}{1}$				
20 Max. feed velocity ¹	mm/s 25	6.3	1.6	0.4	0.1				
21 Max. feed force (continuous) ¹	N 3	7	11	17	27				
22 Max. feed force (intermittent) ¹	N 14	22	32	32	32				
4 Number of stages	1	2	3	4	5				
7 Max. efficiency gearhead incl. spindle	% 38	34	31	28	25				
8 Weight ¹	g 6.3	6.9	7.5	8.1	8.7				
9 Average backlash no load	° 1.8	2.0	2.2	2.5	2.8				
23 Mechanical positioning accuracy ¹	mm 0.087	0.087	0.087	0.087	0.088				
10 Mass inertia gearhead incl. spindle ¹	gcm ² 0.005	0.004	0.004	0.004	0.004				
11 Gearhead length L1	mm 7.0	9.6	12.2	14.8	17.4				

¹ based on spindle length 56 mm



maxon Modular System

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts					
RE 8, 0.5 W, A	153			23.7	26.3	28.9	31.5	34.1	
RE 8, 0.5 W, B	153			26.7	29.3	31.9	34.5	37.1	
RE 8, 0.5 W, A	153	MR	385/386	30.3	32.9	35.5	38.1	40.7	
RE 8, 0.5 W, A	153	8 OPT	395	31.9	34.5	37.1	39.7	42.3	
EC 8, 2 W	238			30.1	32.7	35.3	37.9	40.5	