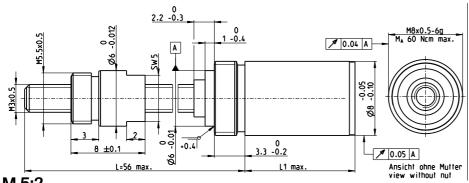
Screw Drive GP 8 S Ø8 mm, metric lead screw



Technical data							
Screw		M3 x	0.5, st	.5, stainless steel			
Standard length				50	6 mm		
Special length (5 r	nm step	os)	r	nax. 100	0 mm		
Nut (standard)				threa	ad nut		
Material				br	onze*		
Axial play				< 0.	.1 mm		
Planetary gearhead			5	straight	teeth		
Bearing Radial play 5 mm from flange				ball bearing			
Radial play, 5 mm from flange				< 0.08 mm			
Axial play		preloaded					
Max. continuous ir		12000 rpm					
Recommended temperature range -15+80					-80°C		
Max. axial load (stati	C) 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		

M 5:2

Stock program Standard program Special program (on request)		Part numbers							
		473643	473644	473645	473646	473647			
Screw drive data									
1 Reduction		4:1	16:1	64:1	256:1	1024:1			
2 Absolute reduction		4/1	¹⁶ / ₁	64/1	256/1	1024/1			
20 Max. feed velocity ¹	mm/s	15	6.3	1.6	0.4	0.1			
21 Max. feed force (continuous) ¹	N	3	6	9	14	22			
22 Max. feed force (intermittent) ¹	N	8	18	27	27	27			
4 Number of stages		1	2	3	4	5			
7 Max. efficiency gearhead incl. screw	%	27	24	22	19	17			
8 Weight ¹	g	6.3	6.9	7.5	8.1	8.7			
9 Average backlash no load	۰	1.8	2.0	2.2	2.5	2.8			
23 Mechanical positioning accuracy ¹	mm	0.112	0.112	0.112	0.112	0.113			
L0 Mass inertia gearhead incl. screw ¹	gcm ²	0.005	0.004	0.004	0.004	0.004			
L1 Gearhead length L1	mm	7.0	9.6	12.2	14.8	17.4			
based on screw length 56 mm									

overall length	overall len	gth

+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor/brake) + assembly parts							
RE 8, 0.5 W, A	130			23.7	26.3	28.9	31.5	34.1			
RE 8, 0.5 W, B	130			26.7	29.3	31.9	34.5	37.1			
RE 8, 0.5 W, A	130	ENX 8 IMR	499	30.3	32.9	35.5	38.1	40.7			
RE 8, 0.5 W, A	130	Enc 8 OPT	534	31.9	34.5	37.1	39.7	42.3			

*Note: This spindle nut contains leaded bronze for functional reasons. This product therefore does not fulfill the requirements for the permitted maximum concentration of hazardous substances in accordance with the EC directive 2011/65/EC (RoHS) for all applications. The screw drives may therefore only be used for devices that are not subject to this directive.