

Ceramic Version

screw drive



Technical data						
Screw	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	12 000 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	

		Part numbers							
		473636	473637	473639	473640	473641			
Screw 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. screw	%	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. screw 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 screw length 56 mm

Modular system									
+ 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	