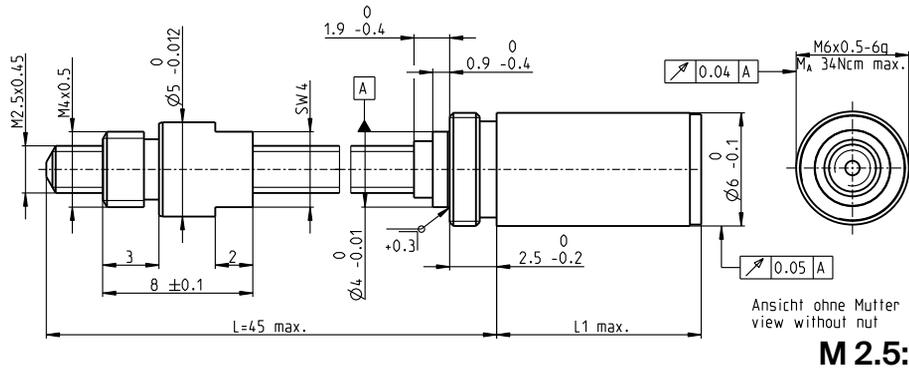


Screw Drive GP 6 S $\varnothing 6$ mm, metric lead screw



Technical data	
Screw	M2.5 x 0.45, stainless steel
Standard length	45 mm
Special length (5 mm steps)	max. 80 mm
Nut (standard)	thread nut
Material	bronze*
Axial play	< 0.088 mm
Planetary gearhead	straight teeth
Bearing	ball bearing
Radial play, 5 mm from flange	< 0.12 mm
Axial play	preloaded
Max. continuous input speed	12000 rpm
Recommended temperature range	-15...+80°C
Max. axial load (static) ¹	10 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

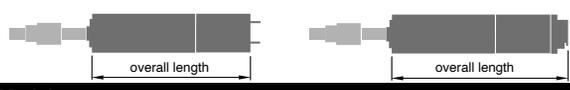
screw drive

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

Part numbers

Screw drive data	Part numbers				
	428758	428757	428756	420663	428755
1 Reduction	3.9 : 1	15 : 1	57 : 1	221 : 1	854 : 1
2 Absolute reduction	$\frac{27}{7}$	$\frac{729}{49}$	$\frac{19683}{343}$	$\frac{531441}{2401}$	$\frac{1438907}{16807}$
20 Max. feed velocity ¹	mm/s	15	10	2.6	0.7
21 Max. feed force (continuous) ¹	N	2	3	4	6
22 Max. feed force (intermittent) ¹	N	6	8	12	15
4 Number of stages		1	2	3	4
7 Max. efficiency gearhead incl. screw	%	28	24	21	19
8 Weight ¹	g	2.9	3.3	3.7	4.1
9 Average backlash no load	°	1.8	2.0	2.2	2.5
23 Mechanical positioning accuracy ¹	mm	0.106	0.107	0.107	0.107
10 Mass inertia gearhead incl. screw ¹	gcm ²	0.001	0.001	0.001	0.001
11 Gearhead length L1	mm	6.9	9.4	12.0	14.5

¹ based on screw length 45 mm



Modular system					
+ Motor	Page	+ Sensor/Brake	Page	Overall length [mm] = Motor length + gearhead length + (sensor / brake) + assembly parts	
RE 6, 0.3 W, A	129			22.6	25.1
RE 6, 0.3 W, B	129			26.6	29.1
				27.7	30.2
				31.7	34.2
				32.8	36.8

*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.