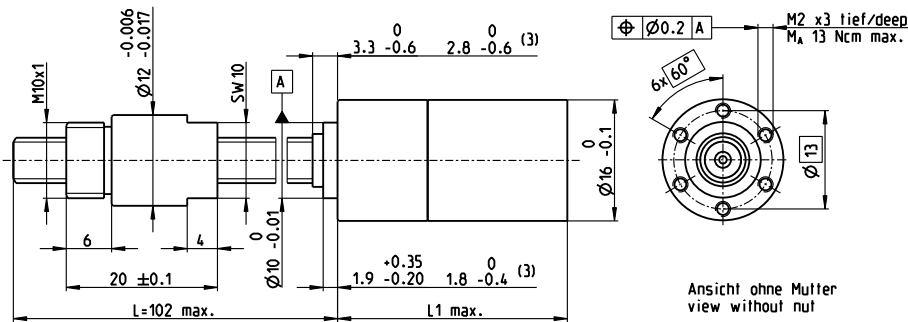


Screw Drive GP 16 S Ø16 mm, metric lead screw

screw drive



Technical data

Screw	M6 x 1, stainless steel
Standard length	102 mm
Special length (5 mm steps)	max. 200 mm
Nut (standard)	thread nut
Material	bronze*
Axial play	< 0.134 mm
Planetary gearhead	straight teeth
Bearing	ball bearing/axial bearing
Radial play, 6 mm from flange	< 0.08 mm
Axial play	preloaded
Max. continuous input speed ²	12 000 rpm
Recommended temperature range	-15...+80°C
Max. axial load (static) ¹	500 N
Number of stages	0 1 2 3 4
Max. radial load, 6 mm from flange	20 N 40 N 60 N 80 N 80 N

M 1:1

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

Part numbers

Screw drive data (provisional)	424231	424232	424233	424234	424235
1 Reduction	1:1	4.4:1	19:1	84:1	370:1
2 Absolute reduction	1/1	57/13	3249/169	185193/2197	10556001/28561
20 Max. feed velocity ¹	mm/s	50.0	45.5	10.5	2.4
21 Max. feed force (continuous) ¹	N	35	37	60	98
22 Max. feed force (intermittent) ¹	N	134	138	224	315
Part numbers	424797	424798	424800	424806	
1 Reduction		5.4:1	24:1	104:1	455:1
2 Absolute reduction		27/6	1539/65	87723/645	5000211/10985
20 Max. feed velocity ¹	mm/s		37.0	8.3	1.9
21 Max. feed force (continuous) ¹	N		39	64	105
22 Max. feed force (intermittent) ¹	N		148	243	315
Part numbers		424799	424803	424807	
1 Reduction			29:1	128:1	561:1
2 Absolute reduction			729/25	41553/325	2368521/4225
20 Max. feed velocity ¹	mm/s			6.9	1.6
21 Max. feed force (continuous) ¹	N			69	112
22 Max. feed force (intermittent) ¹	N			258	315
Part numbers			424804	424808	
1 Reduction				157:1	690:1
2 Absolute reduction				19683/125	1121931/625
20 Max. feed velocity ¹	mm/s				1.3
21 Max. feed force (continuous) ¹	N				120
22 Max. feed force (intermittent) ¹	N				315
Part numbers				424809	
1 Reduction					850:1
2 Absolute reduction					531441/625
20 Max. feed velocity ¹	mm/s				0.2
21 Max. feed force (continuous) ¹	N				211
22 Max. feed force (intermittent) ¹	N				315
4 Number of stages		0	1	2	3
7 Max. efficiency gearhead incl. screw	%	28	27	24	22
8 Weight ¹	g	55	61	64	68
9 Average backlash no load	°	1.0	1.4	1.6	2.0
23 Mechanical positioning accuracy ¹	mm	0.166	0.167	0.167	0.169
10 Mass inertia gearhead incl. screw ¹	gcm ²	0.23	0.11	0.05	0.05
11 Gearhead length L1	mm	19.2	22.3	27.4	31.0

¹ based on screw length 102 mm (standard length) ² for reduction 1:1 = 3000 rpm ³ for reduction 1:1

RE 16, 2 W	151	ENX 16 IMR	502	41.6	44.7	49.8	53.4	57.0
RE 16, 2 W	151	MR	533	47.3	50.4	55.5	59.1	62.7
RE 16, 2 W	152/153	13 GAMA	498	59.7	62.8	67.9	71.5	75.1
RE 16, 3.2 W	153	ENX 16 IMR	502	64.7	67.8	72.9	76.5	80.1
RE 16, 3.2 W	153	MR	533	64.7	67.8	72.9	76.5	80.1
RE 16, 4.5 W	154/155			62.7	65.8	70.9	74.5	78.1
RE 16, 4.5 W	155	13 GAMA	498	68.9	72.0	77.1	80.7	84.3
RE 16, 4.5 W	155	ENX 16 IMR	502	67.7	70.8	75.9	79.5	83.1
RE 16, 4.5 W	155	MR	533	67.7	70.8	75.9	79.5	83.1
A-max 16	171-174			-	47.8	52.9	56.5	60.1
A-max 16	172/174	13 GAMA	498	-	55.9	61.0	64.6	68.2
A-max 16	172/174	ENX 16 IMR	502	-	52.8	57.9	61.5	65.1
A-max 16	172/174	MR	533	-	52.8	57.9	61.5	65.1
EC-max 16, 5 W	279			-	46.4	51.5	55.1	58.7
EC-max 16, 5 W	279	16 EASY/XT/Abs.	509-511	-	56.6	61.7	65.3	68.9
EC-max 16, 5 W	279	16 EASY Abs. XT	512	-	57.1	62.2	65.8	69.4
EC-max 16, 8 W	281			-	58.4	63.5	67.1	70.7
EC-max 16, 8 W	281	16 EASY/XT/Abs.	509-511	-	68.6	73.7	77.3	80.9
EC-max 16, 8 W	281	16 EASY Abs. XT	512	-	69.1	74.2	77.8	81.4

*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.