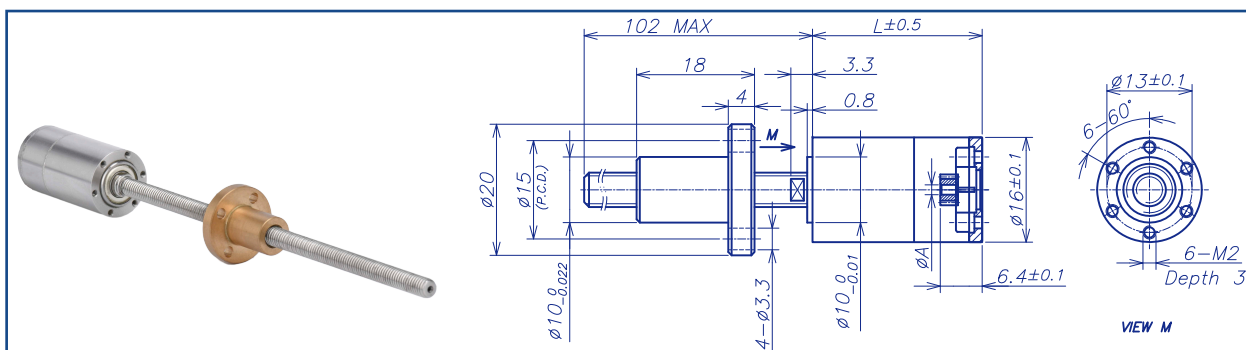


SCREW PLANETARY GEARBOX TRAPEZOIDAL SCREW



AM-TS0502-102-16GP Series



SCREW CHARACTER

Screw(Diameter*Lead)	Tr5*2, SUS304	Radial play (5mm from flange)	< 0.05mm				
Standard length	102mm	Axial play	preloaded				
Special length (5mm steps)	Max.200mm	Max.countinuous input speed	8000rpm				
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C				
Material	copper	Max.axial load(static)	240N				
Axial play	< 0.15mm	Number of stages	0	1	2	3	4
Planetary	straight teeth	Max. radial load: (6mm from flange)	20N	40N	60N	80N	80N
Bearing	ball bearing/thrust ball bearing						

SCREW DRIVE DATA

Reduction	1:1	3.8:1	14:1	29:1	53:1	89:1	198:1	455:1
Absolute reduction	1/1	15/4	225/16	729/25	3375/64	4617/52	50625/256	5000211/10985
Max.feed velocity (mm/s)	100	71.1	18.9	9.1	5.0	3.0	1.3	0.58
Max.feed force (continous) (N)	20	30	55	70	85	102	132	175
Max.feed force (intermittent) (N)	40	60	110	140	171	203	240	240
Max. Gear Hole "A"	2	2	2	1.5	2	2	2	2
Reduction		4.4:1	16:1		62:1	104:1	231:1	561:1
Absolute reduction		57/13	855/52		12825/208	87723/845	192375/832	236852/4225
Max.feed velocity (mm/s)		60.8	16.2		4.3	2.5	1.1	0.47
Max.feed force (continous) (N)		36	58		90	107	139	188
Max.feed force (intermittent) (N)		72	116		180	214	240	240
Max. Gear Hole "A"		2	2		2	2	2	2
Reduction		5.4:1	19:1		72:1	109:1	270:1	690:1
Absolute reduction		27/5	3249/169		48735/676	2187/20	731025/2704	1121931/1625
Max.feed velocity (mm/s)		49.3	13.8		3.7	2.4	0.98	0.38
Max.feed force (continous) (N)		40	61		94	109	147	201
Max.feed force (intermittent) (N)		80	122		189	218	240	240
Max. Gear Hole "A"		1.5	2		2	2	2	2
Reduction			20:1		76:1	128:1	316:1	850:1
Absolute reduction			81/4		1215/16	41553/325	2777895/8788	531441/625
Max.feed velocity (mm/s)			13.1		3.5	2.0	0.84	0.31
Max.feed force (continous) (N)			62		96	114	115	216
Max.feed force (intermittent) (N)			124		193	229	240	240
Max. Gear Hole "A"			2		2	2	2	1.5
Reduction			24:1		84:1	157:1	370:1	
Absolute reduction			1539/65		185193/2197	19683/125	10556001/28561	
Max.feed velocity (mm/s)			11.2		3.1	1.7	0.72	
Max.feed force (continous) (N)			65		100	123	263	
Max.feed force (intermittent) (N)			131		200	240	240	
Max. Gear Hole "A"			2		2	1.5	2	
Number of stages	0	1	2	2	3	3	4	4
Max. efficiency gearhead incl.screw (%)	39.8	35.8	32.2	32.2	29	29	26.1	26.1
Weight (g)	50	50	55	55	60	60	65	65
Average backlash no load (°)	1.16	1.36	1.66	1.66	1.66	1.66	1.66	1.66
Mechanical positioning accuracy (mm)	0.167	0.168	0.170	0.170	0.170	0.170	0.170	0.170
Mass inertia gearhead incl.screw (g.cm ²)	1.48	0.1	0.01	0.01	0.01	0.01	0.01	0.01
Gearhead length L1 (mm)	27.9	27.9	31.6	31.6	35.3	35.3	39.0	39.0

1/ based on screw length 102mm (standard length) 2/ for reduction 1:1=3000rpm For the recommended combination specs, visit AM-16GP.

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