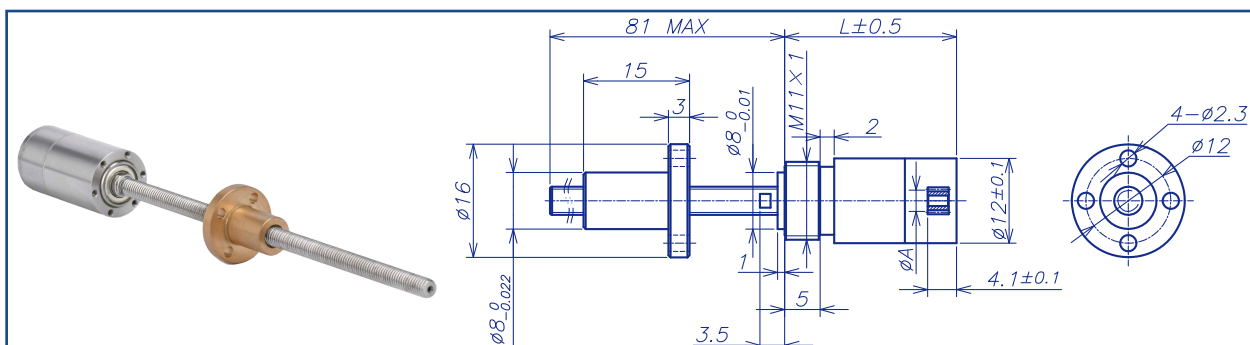


SCREW PLANETARY GEARBOX TRAPEZOIDAL SCREW



AM-TS0402-81-12GP Series



SCREW CHARACTER

Screw(Diameter*Lead)	Tr4*2, SUS304	Radial play (5mm from flange)	< 0.1mm
Standard length	81mm	Axial play	preloaded
Special length (5mm steps)	Max.150mm	Max.continuous input speed	8000rpm
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C
Material	copper	Max.axial load(static)	75N
Axial play	<0.13mm	Number of stages	0 1 2 3 4
Planetary	straight teeth	Max. radial load: (5mm from flange)	25N 30N 45N 60N 60N
Bearing	ball bearing/thrust ball bearing		

SCREW DRIVE DATA

Reduction	1:1	4:1	16:1	64:1	256:1			
Absolute reduction	1/1	4/1	16/1	64/1	256/1			
Max.feed velocity (mm/s)	100	66.7	16.6	4.1	1.0			
Max.feed force (continuous) (N)	7	13	16	32	52			
Max.feed force (intermittent) (N)	14	26	32	65	75			
Max. Gear Hole "A"	1.5	1.5	1.5	1.5	1.5			
Reduction		5.3:1	21:1	85:1	341:1			
Absolute reduction		16/3	64/3	256/3	1024/3			
Max.feed velocity (mm/s)		50	12.5	3.1	0.78			
Max.feed force (continuous) (N)		15	22	36	57			
Max.feed force (intermittent) (N)		30	45	72	75			
Max. Gear Hole "A"		1.2	1.5	1.5	1.5			
Reduction			28:1	114:1	455:1			
Absolute reduction			256/9	1024/9	4096/9			
Max.feed velocity (mm/s)			9.3	2.3	0.58			
Max.feed force (continuous) (N)			25	39	63			
Max.feed force (intermittent) (N)			50	75	75			
Max. Gear Hole "A"			1.2	1.5	1.5			
Reduction				152:1	607:1			
Absolute reduction				4096/27	16384/27			
Max.feed velocity (mm/s)				1.7	0.43			
Max.feed force (continuous) (N)				43	69			
Max.feed force (intermittent) (N)				75	75			
Max. Gear Hole "A"				1.2	1.5			
Reduction					809:1			
Absolute reduction					65536/81			
Max.feed velocity (mm/s)					0.32			
Max.feed force (continuous) (N)					75			
Max.feed force (intermittent) (N)					75			
Max. Gear Hole "A"					1.2			
Number of stages	0	1	2	3	4			
Max. efficiency gearhead incl.screw (%)	45.6	41	36.9	33.2	29.9			
Weight (g)	35	30	30	35	40			
Average backlash no load (°)	1.1°	1.3°	1.5°	1.6°	1.6°			
Mechanical positioning accuracy (mm)	0.167	0.168	0.170	0.170	0.170			
Mass inertia gearhead incl.screw (g.cm ²)	0.78	0.05	0.01	0.01	0.01			
Gearhead length L1 (mm)	24.6	24.6	29.3	34.0	48.7			

1/ based on screw length 80mm (standard length) 2/ for reduction 1:1=3000rpm For the recommended combination specs, visit AM-12GP.

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