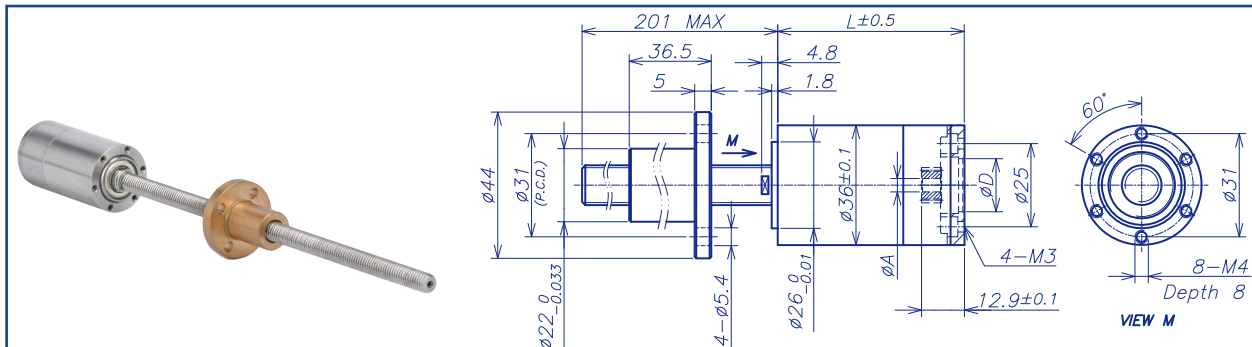


SCREW PLANETARY GEARBOX TRAPEZOIDAL SCREW



AM-TS1204-201-36GP Series



SCREW CHARACTER

Screw(Diameter*Lead)	Tr12*4, SUS304	Radial play (5mm from flange)	< 0.05mm
Standard length	201mm	Axial play	preloaded
Special length (5mm steps)	Max.600mm	Max.continuous input speed	8000rpm
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C
Material	Copper	Max.axial load(static)	2300N
Axial play	< 0.13mm	Number of stages	0 1 2 3 4
Planetary	straight teeth	Max. radial load: (20mm from flange)	360N 440N 660N 700N 700N
Bearing	ball bearing/thrust ball bearing		

SCREW DRIVE DATA

Reduction	1:1	3.5:1	12:1	36:1	43:1	91:1	285:1	546:1
Absolute reduction	1/1	7/2	49/4	36/1	343/8	91/1	15379/54	546/1
Max.feed velocity (mm/s)	200	152.3	43.5	14.8	12.4	5.8	1.8	0.9
Max.feed force (continuous) (N)	80	112	485	872	924	1187	1737	2158
Max.feed force (intermittent) (N)	160	224	970	1744	1848	2300	2300	2300
Max. Gear Hole "A"	6	6	6	4	6	6	6	6
Reduction		4.3:1	15:1		53:1	113:1	353:1	676:1
Absolute reduction		13/3	91/6		637/12	338/3	28561/81	676/1
Max.feed velocity (mm/s)		123.0	35.1		10	4.7	1.5	0.8
Max.feed force (continuous) (N)		145	582		992	1275	1865	2300
Max.feed force (intermittent) (N)		290	1164		1985	2300	2300	2300
Max. Gear Hole "A"		6	6		6	4	6	6
Reduction		6:1	19:1		66:1	126:1	394:1	756:1
Absolute reduction		6/1	169/9		1183/18	126/1	1183/3	756/1
Max.feed velocity (mm/s)		88.8	28.4		8.1	4.2	1.3	0.7
Max.feed force (continuous) (N)		208	702		1065	1324	1936	2300
Max.feed force (intermittent) (N)		416	1404		2131	2300	2300	2300
Max. Gear Hole "A"		4	6		6	6	6	6
Reduction			21:1		74:1	156:1	441:1	936:1
Absolute reduction			21/1		147/2	156/1	441/1	936/1
Max.feed velocity (mm/s)			25.3		7.2	3.4	1.2	0.5
Max.feed force (continuous) (N)			728		1106	1421	2010	2300
Max.feed force (intermittent) (N)			1457		2212	2300	2300	2300
Max. Gear Hole "A"			6		6	6	6	6
Reduction			26:1		81:1	216:1	488:1	1296:1
Absolute reduction			26/1		2197/27	216/1	4394/9	1296/1
Max.feed velocity (mm/s)			20.5		6.5	2.4	1.1	0.4
Max.feed force (continuous) (N)			782		1144	1584	2079	2300
Max.feed force (intermittent) (N)			1564		2288	2300	2300	2300
Max. Gear Hole "A"			6		6	4	6	4
Number of stages	0	1	2	2	3	3	4	4
Max. efficiency gearhead incl.screw (%)	84	84	75	75	68	68	61	61
Weight (g)	518	530	590	590	655	655	720	720
Average backlash no load (°)	0.5°	0.7°	0.8°	0.8°	0.8°	0.8°	0.8°	0.8°
Mechanical positioning accuracy (mm)	0.164	0.164	0.166	0.167	0.167	0.167	0.167	0.167
Mass inertia gearhead incl.screw (g.cm ²)	113.24	9.92	1.47	0.47	1.41	1.41	1.41	1.41
Gearhead length L1 (mm)	59.9	59.9	68.9	68.9	77.9	77.9	86.9	86.9

1/ based on screw length 201 mm (standard length) 2/ for reduction 1:1=3000rpm For the recommended combination specs, visit AM-36GP.

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