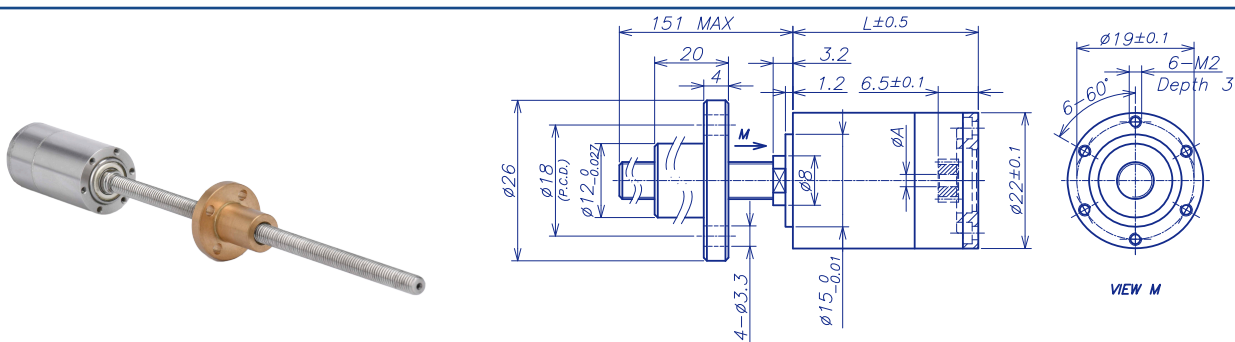


SCREW PLANETARY GEARBOX TRAPEZOIDAL SCREW



AM-TS0602-151-22GP Series



SCREW CHARACTER				
Screw(Diameter*Lead)	Tr6*2, SUS304	Radial play (5mm from flange)	< 0.05mm	
Standard length	151mm	Axial play	preloaded	
Special length (5mm steps)	300mm	Max.continuous input speed	8000rpm	
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C	
Material	copper	Max.axial load(static)	350N	
Axial play	≤ 0.13mm	Number of stages	0	1
Planetary	straight teeth	Max. radial load: (15mm from flange)	120N	140N
Bearing	ball bearing/thrust ball bearing		200N	200N

SCREW DRIVE DATA									
Reduction	1:1	3.1:1	10:1	36:1	31:1	75:1	201:1	384:1	
Absolute reduction	1/1	22/7	484/49	36/1	10648/343	528/7	1408/7	384/1	
Max.feed velocity (mm/s)	100	84.8	27	7.4	8.6	3.5	1.3	0.69	
Max.feed force (continuous) (N)	30	32	82	126	120	161	223	277	
Max.feed force (intermittent) (N)	60	64	164	252	240	322	350	350	
Max. Gear Hole "A"	3	3	3	2	3	3	3	3	
Reduction		4:1	13:1		40:1	96:1	237:1	453:1	
Absolute reduction		4/1	88/7		1936/49	96/1	11616/49	3168/7	
Max.feed velocity (mm/s)		66.6	21.2		6.7	2.7	1.1	0.59	
Max.feed force (continuous) (N)		43	88		130	175	236	293	
Max.feed force (intermittent) (N)		86	177		260	350	350	350	
Max. Gear Hole "A"		3	3		3	3	3	3	
Reduction		6:1	16:1		50:1	113:1	256:1	576:1	
Absolute reduction		6/1	16/1		352/7	792/7	256/1	576/1	
Max.feed velocity (mm/s)		44.4	16.6		5.3	2.3	1.0	0.46	
Max.feed force (continuous) (N)		69	96		141	184	242	317	
Max.feed force (intermittent) (N)		138	192		282	350	350	350	
Max. Gear Hole "A"		2	3		3	3	3	3	
Reduction			19:1		59:1	144:1	302:1	679:1	
Absolute reduction			132/7		2904/49	144/1	2112/7	4752/7	
Max.feed velocity (mm/s)			14.1		4.5	1.8	0.88	0.39	
Max.feed force (continuous) (N)			101		149	200	256	335	
Max.feed force (intermittent) (N)			203		298	350	350	350	
Max. Gear Hole "A"			3		3	3	3	3	
Reduction			24:1		64:1	216:1	356:1	864:1	
Absolute reduction			24/1		64/1	216/1	17424/49	864/1	
Max.feed velocity (mm/s)			11.1		4.1	1.2	0.75	0.3	
Max.feed force (continuous) (N)			110		152	229	270	350	
Max.feed force (intermittent) (N)			220		305	350	350	350	
Max. Gear Hole "A"			3		3	2	3	3	
Number of stages	0	1	2	2	3	3	4	4	
Max. efficiency gearhead incl.screw (%)	35.3	31.7	28.5	28.5	25.7	25.7	23.1	23.1	
Weight (g)	113	113	123	123	140	140	150	150	
Average backlash no load (°)	.68	1.18	1.38	1.38	1.38	1.38	1.38	1.38	
Mechanical positioning accuracy (mm)	0.164	0.167	0.168	0.168	0.168	0.168	0.168	0.168	
Mass inertia gearhead incl.screw (g.cm ²)	4.65	0.73	0.14	0.14	0.13	0.13	0.13	0.13	
Gearhead length L1 (mm)	36.5	36.5	41.3	41.3	46.1	46.1	50.9	50.9	

1/ based on screw length 151 mm (standard length) 2/ for reduction 1:1=3000rpm For the recommended combination specs, visit AM-22GP.

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