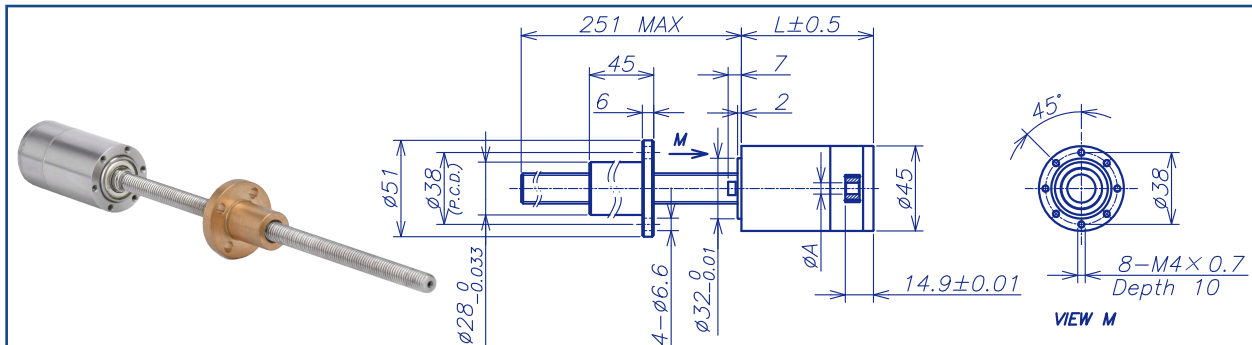


SCREW PLANETARY GEARBOX TRAPEZOIDAL SCREW



AM-TS1605-251-45GP Series



SCREW CHARACTER

Screw(Diameter*Lead)	Ts16*5, SUS304	Radial play (5mm from flange)	< 0.05mm
Standard length	251mm	Axial play	preloaded
Special length (5mm steps)	Max.600mm	Max.countinuous input speed	8000rpm
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C
Material	Copper	Max.axial load(static)	5000N
Axial play	<0.13mm	Number of stages	0 1 2 3 4
Planetary	straight teeth	Max. radial load: (15mm from flange)	440N 660N 700N 700N 700N
Bearing	ball bearing/thrust ball bearing		

SCREW DRIVE DATA

Reduction	1:1	3.3:1	11:1	27:1	37:1	69:1	213:1	361:1
Absolute reduction	1/1	10/3	100/9	676/25	1000/27	208/3	640/3	5408/15
Max.feed velocity (mm/s)	250	200	60	24.6	18	9.6	3.1	1.8
Max.feed force (continous) (N)	110	188	561	1118	1241	1530	2225	2651
Max.feed force (intermittent) (N)	220	376	1122	2236	2483	3060	4451	5000
Max. Gear Hole "A"	8	8	8	6	8	8	8	6
Reduction		4:1	13:1		44:1	83:1	256:1	433:1
Absolute reduction		4/1	40/3		400/9	416/5	256/1	10816/25
Max.feed velocity (mm/s)		166.7	50		15	8	2.6	1.5
Max.feed force (continous) (N)		231	646		1319	1626	2365	2817
Max.feed force (intermittent) (N)		2281	1292		2638	3252	4730	5000
Max. Gear Hole "A"		8	8		8	8	8	8
Reduction		5.2:1	16:1		53:1	90:1	277:1	469:1
Absolute reduction		26/5	16/1		160/3	1352/15	832/3	35152/75
Max.feed velocity (mm/s)		128.2	41.6		12.5	7.3	2.4	1.4
Max.feed force (continous) (N)		272	835		1402	1670	2429	2893
Max.feed force (intermittent) (N)		544	1670		2804	3340	4858	5000
Max. Gear Hole "A"		6	8		8	8	8	6
Reduction			17:1		58:1	108:1	300:1	562:1
Absolute reduction			52/3		520/9	2704/25	2704/9	70304/125
Max.feed velocity (mm/s)			38.4		11.5	6.1	2.2	1.1
Max.feed force (continous) (N)			964		1440	1774	2494	3074
Max.feed force (intermittent) (N)			1928		2880	3549	4989	5000
Max. Gear Hole "A"			8		8	8	8	8
Reduction			21:1		64:1	141:1	333:1	731:1
Absolute reduction			104/5		64/1	17576/125	1664/9	456976/625
Max.feed velocity (mm/s)			32.0		10.4	4.7	2	0.9
Max.feed force (continous) (N)			1024		1489	1936	2581	3355
Max.feed force (intermittent) (N)			2048		2979	3873	5000	5000
Max. Gear Hole "A"			8		8	6	8	6
Number of stages	0	1	2	2	3	3	4	4
Max. efficiency gearhead incl.screw (%)	36	32	29	29	26	26	23	23
Weight (g)	1085	1085	1210	1210	1335	1335	1460	1460
Average backlash no load (°)	0.5°	0.7°	0.8°	0.8°	0.8°	0.8°	0.8°	0.8°
Mechanical positioning accuracy (mm)	0.167	0.167	0.168	0.168	0.168	0.168	0.168	0.168
Mass inertia gearhead incl.screw (g.cm ²)	279.97	37.38	15.56	15.56	13.59	13.59	13.41	13.41
Gearhead length L1 (mm)	69.9	69.9	81.9	81.9	93.9	93.9	105.9	105.9

1/ based on screw length 251 mm (standard length) 2/ for reduction 1:1=3000rpm For the recommended combination specs, visit AM-45GP.

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