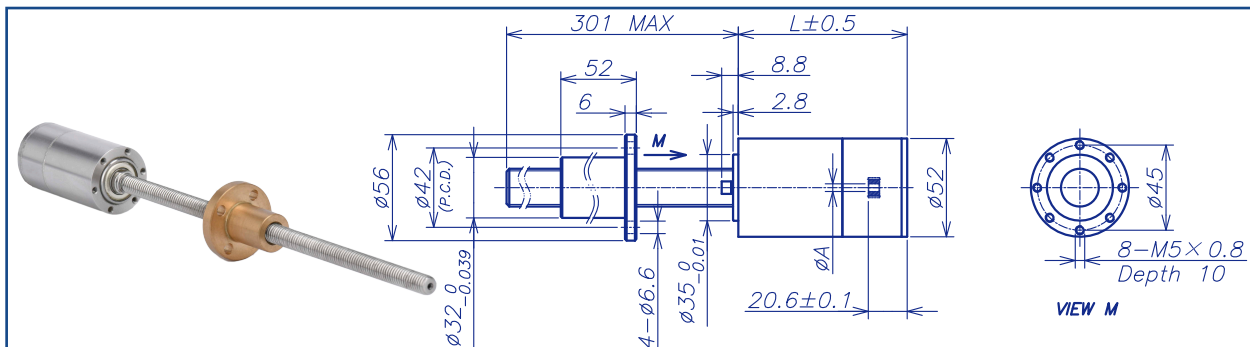


SCREW PLANETARY GEARBOX TRAPEZOIDAL SCREW



AM-TS2005-301-52GP Series



SCREW CHARACTER

Screw(Diameter*Lead)	Tr20*5, SUS304	Radial play (5mm from flange)	< 0.05mm				
Standard length	301mm	Axial play	preloaded				
Special length (5mm steps)	Max.800mm	Max.continuous input speed	8000rpm				
Nut (standard)	thread nut	Recommended Temperature Range	-15°C ~ +80°C				
Material	Copper	Max.axial load(static)	7000N				
Axial play	< 0.13mm	Number of stages	0	1	2	3	4
Planetary	straight teeth	Max. radial load: (20mm from flange)	440N	660N	700N	700N	700N
Bearing	ball bearing/thrust ball bearing						

SCREW DRIVE DATA

Reduction	1:1	3.5:1	12:1	19:1	43:1	81:1	186:1	353:1
Absolute reduction	1/1	7/2	49/4	169/9	343/8	2197/27	4459/24	28561/81
Max.feed velocity (mm/s)	250	190.4	54.4	35.5	15.5	8.1	3.5	1.8
Max.feed force (continuous) (N)	150	198	670	1138	1912	2368	3118	3860
Max.feed force (intermittent) (N)	300	396	1340	2276	3825	4736	6236	7000
Max. Gear Hole "A"	10	10	10	8	10	8	10	8
Reduction		4.3:1	15:1	26:1	53:1	91:1	257:1	488:1
Absolute reduction		13/3	91/6	26/1	637/12	91/1	1029/4	4394/9
Max.feed velocity (mm/s)		153.8	43.9	25.6	12.5	7.3	2.5	1.3
Max.feed force (continuous) (N)		271	851	1619	2053	2458	3475	4303
Max.feed force (intermittent) (N)		542	1702	3238	4107	4916	6951	7000
Max. Gear Hole "A"		8	10	8	10	8	10	8
Reduction			21:1		66:1	113:1	319:1	546:1
Absolute reduction			21/1		1183/18	338/3	637/2	546/1
Max.feed velocity (mm/s)			31.7		10.1	5.9	2.0	1.2
Max.feed force (continuous) (N)			1338		2205	2639	3732	4466
Max.feed force (intermittent) (N)			2676		4410	5278	7000	7000
Max. Gear Hole "A"			10		10	8	10	8
Reduction					74:1	156:1	441:1	676:1
Absolute reduction					147/2	156/1	441/1	676/1
Max.feed velocity (mm/s)					9.0	4.2	1.5	1.0
Max.feed force (continuous) (N)					2289	2941	4159	4796
Max.feed force (intermittent) (N)					4578	5883	7000	7000
Max. Gear Hole "A"					10	8	10	8
Reduction					126:1		756:1	936:1
Absolute reduction					126/1		756/1	936/1
Max.feed velocity (mm/s)					5.2		0.9	0.7
Max.feed force (continuous) (N)					2739		4978	5345
Max.feed force (intermittent) (N)					5479		7000	7000
Max. Gear Hole "A"					10		10	8
Number of stages	0	1	2	2	3	3	4	4
Max. efficiency gearhead incl.screw (%)	31	28	25	25	22	22	20	20
Weight (g)	2090	2090	2310	2310	2520	2520	2730	2730
Average backlash no load (°)	0.5°	0.6°	0.7°	0.7°	0.7°	0.7°	0.7°	0.7°
Mechanical positioning accuracy (mm)	0.164	0.166	0.167	0.167	0.167	0.167	0.167	0.167
Mass inertia gearhead incl.screw (g.cm ²)	617.89	68.8	25.13	25.13	21.38	21.38	21.09	21.09
Gearhead length L1 (mm)	89.3	89.3	105.8	105.8	122.3	122.3	138.8	138.8

1/ based on screw length 301 mm (standard length) 2/ for reduction 1:1=3000rpm For the recommended combination specs, visit AM-52GP.

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