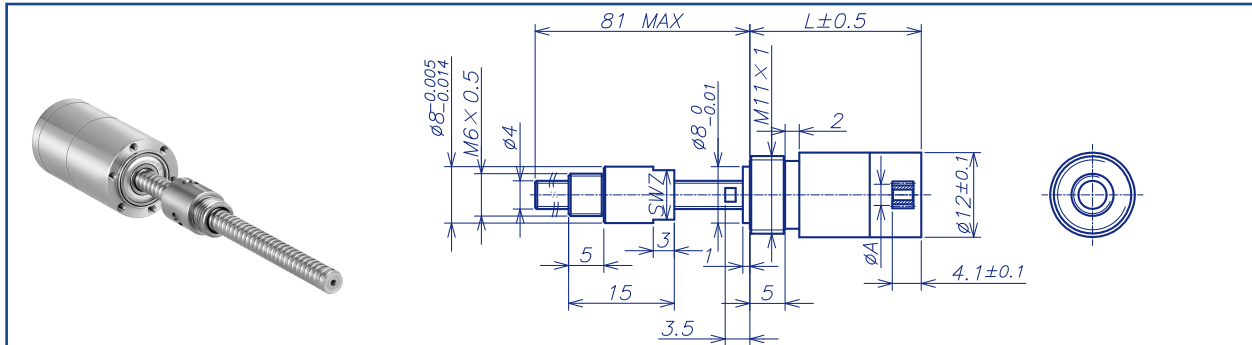


AM-BS0402-81-12GP Series



SCREW CHARACTER

Screw	φ 4*2, GCr15, hardened	Radial play (5mm from flange)	< 0.1mm				
Standard length	81mm	Axial play	preloaded				
Special length (5mm steps)	Max.150mm	Max.continuous input speed	12000rpm				
Nut (standard)	thread nut	Recommended Temperature Range	-40°C ~ +100°C				
Material	15CrMo, hardended	Max.axial load(static)	300N				
Axial play	<0.005mm	Number of stages	0	1	2	3	4
Planetary	straight teeth	Max. radial load: (5mm from flange)	45N	50N	50N	50N	50N
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)	150	100	25	6.3	1.6			
Max.feed force (continuous) (N)	20	29	46	73	116			
Max.feed force (intermittent) (N)	40	58	92	146	232			
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)		75	18.8	4.7	1.2			
Max.feed force (continuous) (N)		32	5171	80	127			
Max.feed force (intermittent) (N)		64	102	160	254			
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)			14	3.5	0.9			
Max.feed force (continuous) (N)			56	88	140			
Max.feed force (intermittent) (N)			112	176	280			
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)				2.6	0.7			
Max.feed force (continuous) (N)				97	154			
Max.feed force (intermittent) (N)				194	300			
Max. Gear Hole "A"				1.2	1.5			
Reduction					809:1			
Absolute reduction					65536/81			
Max.feed velocity (mm/s)					0.5			
Max.feed force (continuous) (N)					170			
Max.feed force (intermittent) (N)					300			
Max. Gear Hole "A"					1.2			
Number of stages	0 <sup>2</sup>	1	2	2	3			
Max. efficiency gearhead incl. screw (%)	93	84	75	68	61			
Weight (g)	35	30	30	35	40			
Average backlash no load (°)	1.5°	1.3°	1.5°	1.6°	1.6°			
Mechanical positioning accuracy (mm)	0.108	0.108	0.108	0.109	0.109			
Mass inertia gearhead incl. screw (gcm <sup>2</sup> )	0.78	0.05	0.01	0.01	0.01			
Gearhead length L1 (mm)	24.8	24.8	29.5	34.2	48.9			

1/ based on screw length 80mm (standard length) 2/ for reduction 1:1=4500rpm For the recommended combination specs, visit AM-12GP.

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