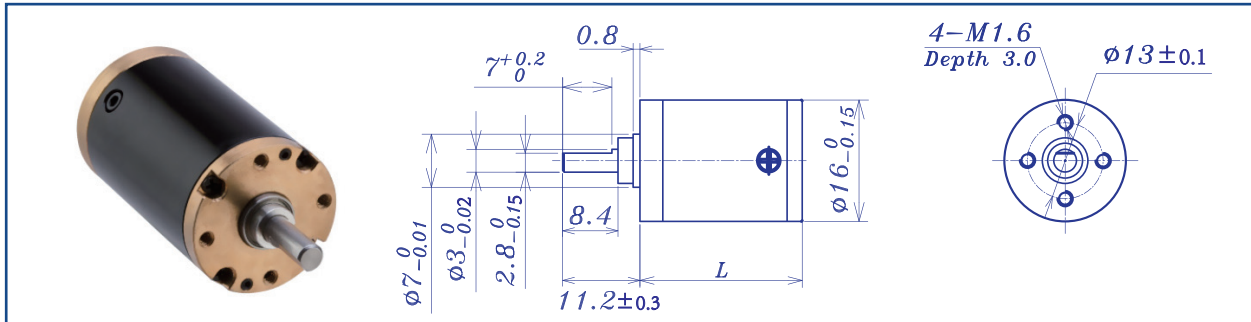


AM-16P Series



GEARBOX CHARACTER

Gear type	Straight teeth	Average backlash on load	$\leq 3^\circ$
Output shaft	Stainless steel hardened	Radial Play	≤ 0.04
Main gear	Alloy Steel	Permissible axial load	$\leq 10N$
Ring gear	Steel	Permissible force press fits	$\leq 50N$ (5mm from mounting face)
Adapter plate	Copper	Recommended input speed	$\leq 10000RPM$
Bearing AT output	Ball bearing	Operating temperature range	$-20^\circ C \sim +100^\circ C$
Axial play	0-0.3	Operating humidity range	10-90%RH
Directions	CW/CCW		

GEARBOX DATA

Number of stage	1	2	3	4	5
Reduction ratio X:1	3.3 3.8 4.4 5.4	11 19 12 20 14 24 16 29 18	37 62 97 41 64 104 47 72 109 53 76 128 84 158	175 370 591 198 410 690 231 455 850 270 522 316 561	742 1996 1014 2458 1185 3027 1386 3728 1621 4592
Reduction ratio absolute	63/19 15/4 57/13 27/5	3969/361 3249/169 945/76 81/4 225/16 1539/65 855/52 729/25 1701/95	250049/6859 1215/16 59635/1444 185193/2197 3375/64 45927/475 14175/304 87723/845 12825/208 2187/20 204687/3211 41553/325 48735/676 19683/125	21625/1216 6561/16 50625/256 5000/211/10985 192375/832 1240029/2375 731025/2704 2368521/4225 2777895/8788 59049/100 10556001/28561 1121931/625 531441/625	759375/1024 10965375/10816 41668425/35152 158340015/114244 601692057/371293 285012027/142805 135005697/54925 63950067/21125 30292137/8125 14348907/3125
Gearbox length "L" (mm)	18.5	22.4	26.3	30.2	34.0
Max. continuous torque (N.m)	0.3	0.5	0.6	0.7	0.7
Max. intermitten torque (N.m)	0.5	0.7	0.9	1	1
Gearbox efficiency	90%	81%	72%	65%	59%
Moment of inertia range (g.cm ²)	0.06	0.05	0.05	0.05	0.05
Gearbox weight approx (g)	23	28	31	36	40
Gearbox model	AM-16PA-X-01	AM-16PB-X-01	AM-16PC-X-01	AM-16PD-X-01	AM-16PE-X-01

AM-16P Example of combination

Recommend Motor:

Coreless Motor:

AM-CL1642MA

Coreless Motor (w/E):

AM-CL1623MAN

AM-CL1626MAN

AM-CL1633MAN

AM-CL1643MAN

Brushless Motor (w/E)

AM-BL1640A/B

Recommend Encoder:

Suitable for Coreless Motor

Encoder S: AM-EN1611S***

Suitable for Brushless Motor

Encoder S: AM-EN1611S***

Encoder T: AM-EN1612T***

INPUT GEARBOX DATA

Modulus	0.3			
Press angle	20°			
Teeth number	10	13	16	19
Max gear hole "A"	1.5	2.0		
Max motor shaft	1.5	2.0		
Motor dimension "D"	6.0			

MOTOR DIMENSION

GEARBOX MOTOR LENGTH "LT"

Gear motor length L_T	52.2	59.1	70	82.2
Gearbox length L_1	18.5	22.4	26.3	30.2
Motor length L_2	23	26	33	40
Encoder length L_3	10.7	10.7	10.7	12

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