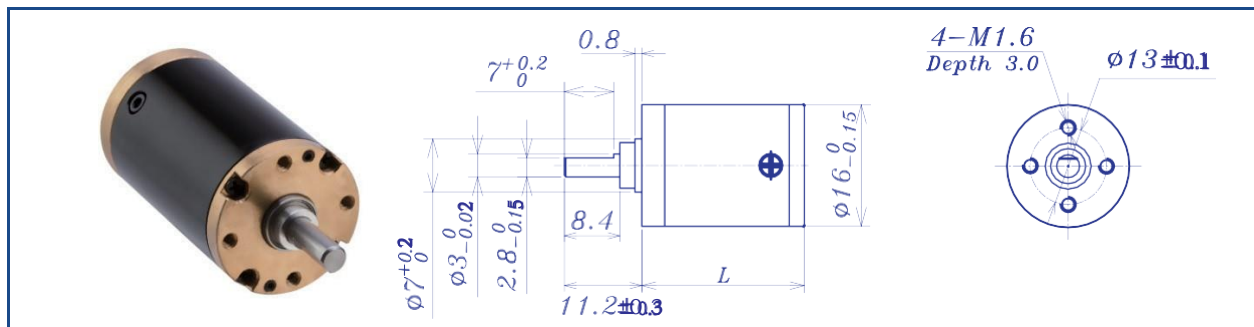


AM-16P Series

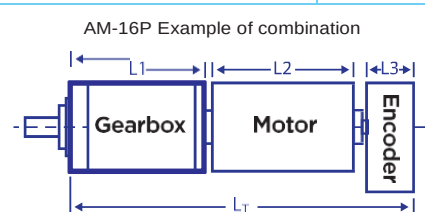


GEARBOX CHARACTER

Gear type	Straight teeth	Average backlash on load	≤3°
Output shaft	Stainless steel hardened	Radial Play	≤0.04
Main gear	Alloy Steel	Permissible axial load	≤10N
Ring gear	Steel	Permissible force press fits	≤50N (5mm from mounting face)
Adapter plate	Copper	Recommended input speed	≤10000RPM
Bearing AT output	Ball bearing	Operating temperature range	-20°C ~ +50°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	11 19	37 62 97	175 370 591	742 1996		
	3.8	12 20	41 64 104	198 410 690	1014 2458		
	4.4	14 24	47 72 109	231 455 850	1185 3027		
	5.4	16 29	53 76 128	270 522	1386 3728		
		18	84 158	316 561	1621 4592		
Reduction ratio absolute	63/19	3249/169	250049/6859	1215/16	21625/1216	6561/16	759375/1024
	15/4	81/4	59635/1444	185193/2197	50625/256	5000/211/10985	10965375/10816
	57/13	1539/65	3375/64	45927/475	192375/832	1240029/2375	41668425/35152
	27/5	729/25	14175/304	87723/845	731025/2704	2368521/4225	158340015/114244
			12825/208	2187/20	2777895/8788	59049/100	601692057/371293
			204687/3211	41553/325	10556001/28561	1121931/625	285012027/142805
			48735/676	19683/125		531441/625	135005697/54925
							63950067/21125
							30292137/8125
							14348907/3125
Gearbox lenght "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.cm²)	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		



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

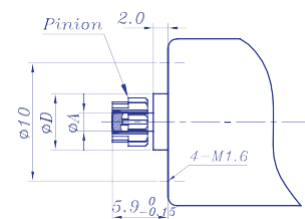
Encoder S: AM-EN1611S***

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 LT	52.2	59.1	70	82.2
Gearbox length L1	18.5	22.4	26.3	30.2
Motor length L2	23	26	33	40
Encoder length L3	10.7	10.7	10.7	12