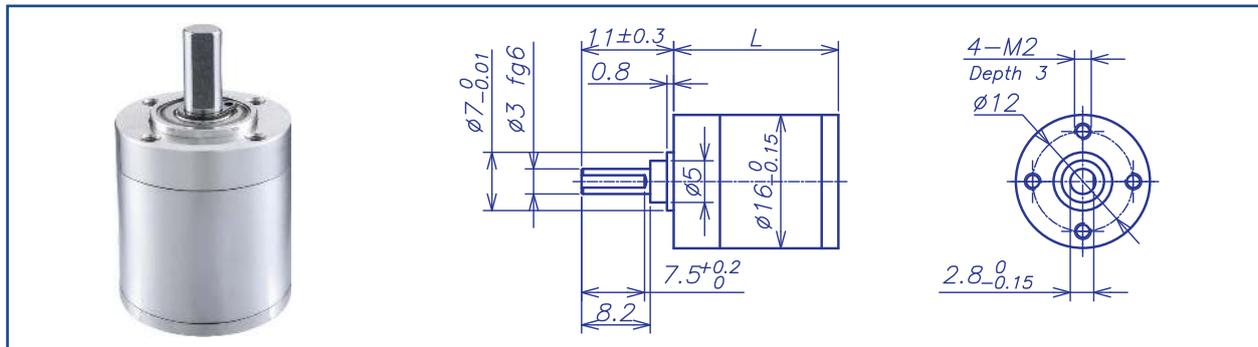


AM-16GP Series

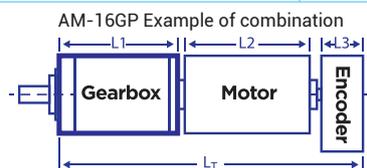


GEARBOX CHARACTER

Gear type	Straight teeth	Radial Play (6mm from flange)	max 0.1mm
Output shaft	Stainless steel hardened	Permissible force press fits	max. 100 N
Main gear	Alloy Steel hardened	Permissible axial load (dynamic)	max. 10N
Ring gear	Stainless steel hardened	Recommended input speed	8000RPM
Adapter plate	Stainless steel	Operating temperature range	-40°C ~ +100°C
Bearing AT output	Ball bearing	Operating humidity range	10-90%RH
Axial play	0-0.3	Number of stages	1 2 3 4
Directions	CW/CCW	Permissible load (6mm from flange)	15N 23N 23N 23N

GEARBOX DATA

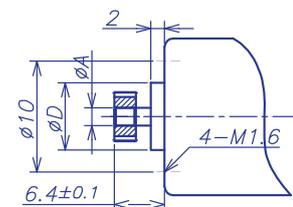
Number of stage	1			2		3			4			
	Reduction ratio X:1	3.8	4.4	5.4	14	29	53	84	157	198	370	590
Reduction ratio absolute	15/4	57/13	27/5	225/16	729/25	3375/64	185193/2197	19683/125	50625/256	10556001/28561		531441/3225
				855/52		12825/208	4617/52		192375/832	263169/676		
				3249/169		48735/676	87723/845		731025/2704	6561/16		
				81/4		1215/16	2187/20		18225/64	5000211/10985		
Motor shaft max. diametre (mm)	2	1.5	2	1.5	2	1.5	2	1.5	2	1.5		
Gearbox length "L" (mm)	15.9			19.6		23.3			27			
Max. continuous torque (N.m)	0.1			0.2		0.25			0.3			
Max. intermittent torque (N.m)	0.15			0.3		0.375			0.45			
Average backlash no load	1.2°			1.4°		1.5°			1.5°			
Gearbox efficiency	90%			81%		73%			65%			
Max. mass inertia (g.cm ²)	0.05			0.06		0.06			0.06			
Gearbox weight approx (g)	20			25		30			35			
gearbox model	AM-16GPA-X			AM-16GPB-X		AM-16GPC-X			AM-16GPD-X			



INPUT GEARBOX DATA

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

MOTOR DIMENSION



Recommend Motor:

Coreless Motor (w/E):
AM-CL1623MAN
AM-CL1626MAN
AM-CL1633MAN
AM-CL1643MAN

Brushless Motor (w/E):
AM-BL1632AN
AM-BL1640AN

Recommend Encoder:

Suitable for Coreless Motor
Encoder S: AM-EN1611S***

Suitable for Brushless Motor

Encoder S: AM-EN1611S***
Encoder T: AM-EN1612T***

GEARBOX MOTOR LENGTH "LT"

Gear motor length L_T	49.6	67	79
Gear box length L_1	15.9	23.3	27
Motor length L_2	23	33	40
Encoder length L_3	10.7	10.7	12

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