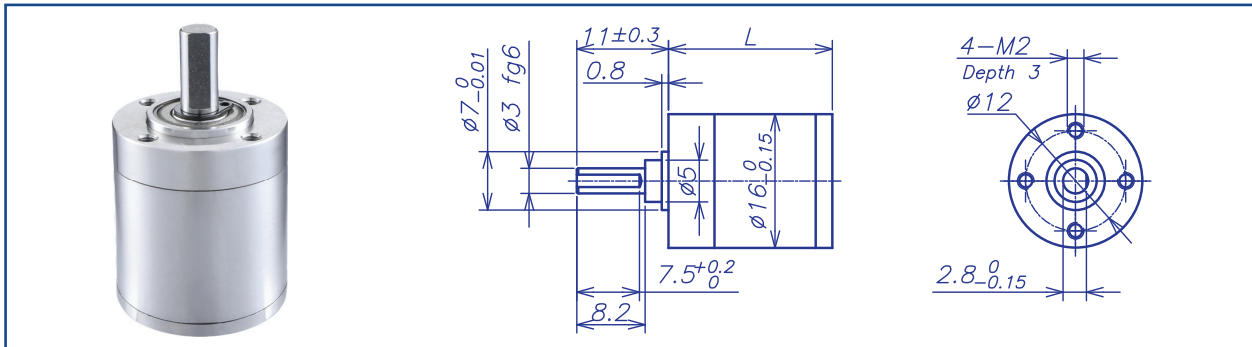


AM-16GP Series



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	850
				16		62	89		231	289	690	
				19		72	104		270	410		
				20		76	109		285	455		
				24			128		316	479		
Reduction ratio absolute	15/4	57/13	27/5	225/16		3375/64	185193/2197		50625/256	10556001/28561		531441/3225
				855/52		12825/208	4617/52		192375/832	263169/676		
				3249/169	729/25	48735/676	87723/845	19683/125	731025/2704	6561/16		
				81/4		1215/16	2187/20		18225/64	5000211/10985		
				1539/65			41551/325		2777895/8788	124659/260		
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.cm²)	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			

AM-16GP Example of combination

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	Recommend Encoder: Suitable for Coreless Motor Encoder S: AM-EN1611S***		
Brushless Motor (w/E): AM-BL1632AN AM-BL1640AN	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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PLANETARY GEARBOX