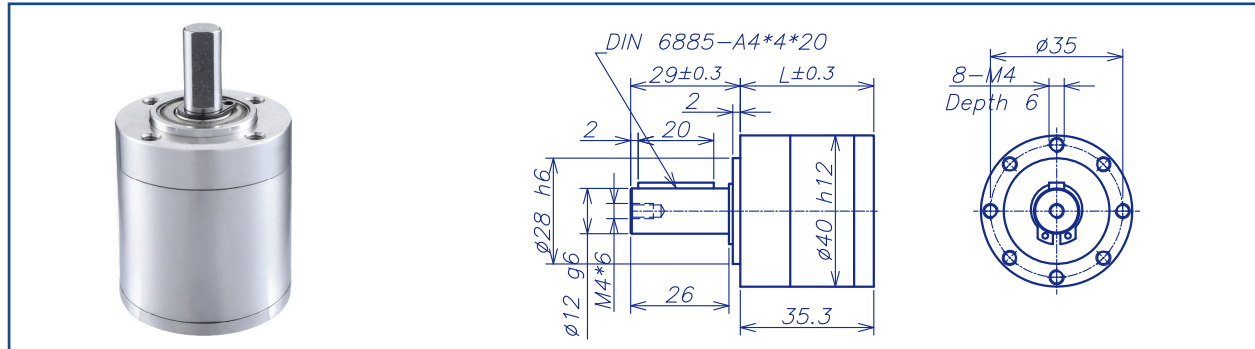


AM-40HP Series



GEARBOX CHARACTER				
Gear type	Straight teeth		Radial Play (10mm from flange)	max 0.1mm
Output shaft	Stainless steel hardened		Permissible force press fits	max. 150 N
Main gear	Alloy steel hardened		Permissible axial load (dynamic)	max. 150N
Ring gear	Stainless steel hardened		Recommended input speed	10000RPM
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 (18mm from flange)	210N 310N 380N 380N

GEARBOX DATA												
Number of stage	1			2		3			4			
Reduction ratio X:1	3.3	4	5.5	11	30	34	64	166	112	256	541	915
				13		42	72		137	286	666	
				16		52	88		169	320		
				18		58	98		189	352		
				22			121		208	393		
Reduction ratio absolute	13/4	4/1	11/2	169/16	121/4	2197/64	64/1	1331/8	28561/256	256/1	17303/32	14641/16
				13/1		169/4	143/2		2197/16	286/1	1331/2	
				16/1		52/1	88/1		169/1	20449/64		
				143/8		1859/32	1573/16		24167/128	352/1		
				22/1			121/1		208/1	1573/4		
Motor shaft max. diameter (mm)	6	5	6	5	6	5	6	5	6	5	6	5
Gearbox length "L" (mm)	35.3			46.8		58.3			69.8			
Max. continuous torque (N.m)	3.5			7		14			15			
Max. intermittent torque (N.m)	5.25			10.5		21			22.5			
Average backlash no load	0.7°			0.8°		0.8°			0.8°			
Gearbox efficiency	90%			81%		73%			65%			
Max. mass inertia (g.cm ²)	8.14			8.58		8.62			8.63			
Gearbox weight approx (g)	320			420		520			620			
gearbox model	AM-40HPA-X			AM-40HPB-X		AM-40HPC-X			AM-40HPD-X			

AM-40HP Example of combination

INPUT GEARBOX DATA	
Modulus	0.6
Press angle	20°
Teeth number	12 18 24
Max gear hole "A"	5 6 6
Max motor shaft	5 6 6
Motor dimension "D"	9.5 13 16

MOTOR DIMENSION

RECOMMEND MOTOR:			
Coreless Motor (w/E)	AM-CL3570GAN	AM-CL4071GAE	
Brushless Motor (w/E)	AM-BL3660AN	AM-BL3675BF	AM-BL3690BF
	AM-BL4060BF	AM-BD3660AN	

RECOMMEND ENCODER:			
Suitable for Coreless Motor	Encoder S:	AM-EN2211S***	
	Encoder T:	AM-EN2412T***	
Suitable for Brushless Motor	Encoder S:	AM-EN2211S***	
	Encoder T:	AM-EN2412T***	AM-EN3612T***

GEARBOX MOTOR LENGTH "LT"			
Gear motor length L _T	127.5	129	141.8
Gear box length L ₁ *	46.8	58.3	69.8
Motor length L ₂	70	60	60
Encoder length L ₃	10.7	10.7	12

*Note: If combined with AM-CL3570, L1=L+5mm, distance between gear and motor=14.6+5mm.

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PLANETARY GEARBOX