
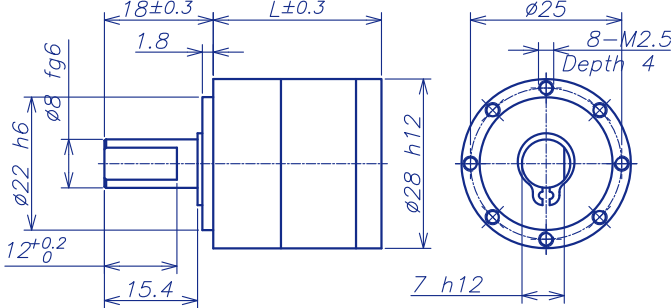
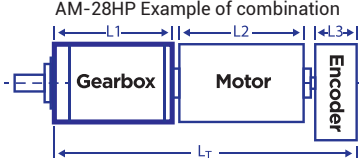


## AM-28HP Series

GEARBOX CHARACTER												
Gear type	Straight teeth			Radial Play (10mm from flange)				max 0.1mm				
Output shaft	Stainless steel hardened			Permissible force press fits				max. 200 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 (13mm from flange)				150N    255N    250N    250N				
GEARBOX DATA												
Number of stage	1			2		3			4			
Reduction ratio X:1	3.4	4.2	5.8	11	33	47	72	138	160	337	792	
				14		59	81		198	416		
				17			100		244	465		
				19					273	574		
				24					301			
Reduction ratio absolute	27/8	25/6	23/4	729/64	529/16	6075/128	15625/216	13225/96	164025/1024	43125/128	304175/384	
				225/16		1875/32	5175/64		50625/256	359375/864		
				625/36			14375/144		15625/64	119025/256		
				621/32					139725/512	330625/576		
				575/24					390625/1296			
Motor shaft max. diameter (mm)	4	3		4	3		4	3	4		3	
Gearbox length "L" (mm)	27.8			35		42.2			49.4			
Max. continuous torque (N.m)	2			3		5			6			
Max. intermittent torque (N.m)	3			4.5		7.5			9			
Average backlash no load	0.8°			1.0°		1.0°			1.0°			
Gearbox efficiency	90%			81%		73%			65%			
Max. mass inertia (g.cm <sup>2</sup> )	0.95			0.95		0.95			0.95			
Gearbox weight approx (g)	125			155		185			215			
gearbox model	AM-28HPA-X			AM-28HPB-X		AM-28HPC-X			AM-28HPD-X			

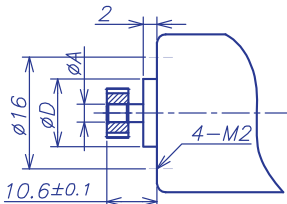
**AM-28HP Example of combination**



**INPUT GEARBOX DATA**

Modulus	0.4		
Press angle	20°		
Teeth number	12	18	24
Max gear hole "A"	3	4	4
Max motor shaft	3	4	4
Motor dimension "D"	6	8.5	10.5

**MOTOR DIMENSION**



GEARBOX MOTOR LENGTH "LT"			
Gear motor length L <sub>T</sub>	69.5	90.7	107.2
Gear box length L <sub>1</sub>	27.8	35	42.2
Motor length L <sub>2</sub>	31	45	53
Encoder length L <sub>3</sub>	10.7	10.7	12

**Recommend Motor:**

Coreless Motor (w/E)	Brushless Motor (w/E)
AM-CL2532MAN	AM-BL2453AN
AM-CL2545MAN	AM-BL2845AN
AM-CL2831MAN	
AM-CL2845MAN	

**Recommend Encoder:**

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

Suitable for Brushless Motor  
Encoder S: AM-EN1611S\*\*\*  
Encoder T: AM-EN2412T\*\*\*

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