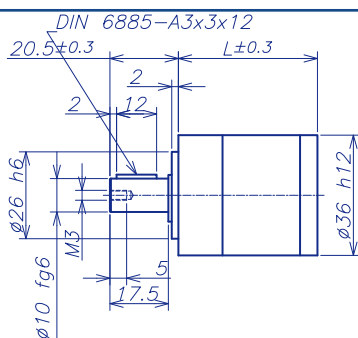
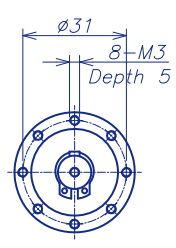
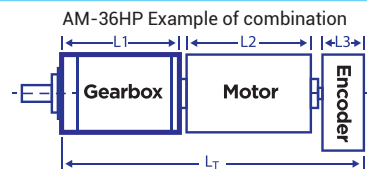


AM-36HP Series

												
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 (14mm from flange)		220N	340N	370N	370N				
GEARBOX DATA												
Number of stage	1			2		3		4				
Reduction ratio X:1	3.5	4.3	6.0	12	36	43	91	216	150	353	756	1296
				15		53	113		186	394	936	
				19		66	126		230	441		
				21		74	156		257	488		
				26					285	546		
Reduction ratio absolute	7/2	13/3	6/1	49/4	36/1	343/8	91/1	216/1	2401/16	28561/81	756/1	1296/1
				91/6		637/12	338/3		4459/24	1183/3	936/1	
				169/9		1183/18	126/1		8281/36	441/1		
				21/1		147/2	156/1		1029/4	4394/9		
				26/1					15379/54	546/1		
Motor shaft max. diameter (mm)	6		4	6	4	6		4	6		4	
Gearbox length "L" (mm)	32.6			41.6		50.6		59.6				
Max. continuous torque (N.m)	3			5		10		10				
Max. intermittent torque (N.m)	4.5			7.5		15		15				
Average backlash no load	0.7°			0.8°		0.8°		0.8°				
Gearbox efficiency	90%			81%		73%		65%				
Max. mass inertia (g.cm²)	3.34			3.25		3.24		3.24				
Gearbox weight approx (g)	240			300		360		420				
gearbox model	AM-36HPA-X			AM-36HPB-X		AM-36HPC-X		AM-36HPD-X				
				INPUT GEARBOX DATA				MOTOR DIMENSION				
Recommend Motor: Coreless Motor (w/E) AM-CL3570GAN AM-CL4071GAE Brushless Motor (w/E) AM-BL3260AN AM-BD3260AN AM-BL3270AN AM-BD3270AN AM-BL3660AN AM-BD3660AN AM-BL3675BF AM-BL3690BF				Modulus				0.5				
				Press angle				20°				
				Teeth number		12	18	24				
				Max gear hole "A"		4	6	6				
				Max motor shaft		4	6	6				
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***				Motor dimension "D"		8	11	13.5				
				GEARBOX MOTOR LENGTH "LT"								
				Gear motor length L _T		122.3	121.3	161.6				
				Gear box length L ₁		41.6	50.6	59.6				
				Motor length L ₂		70	60	90				
				Encoder length L ₃		10.7	10.7	12				

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