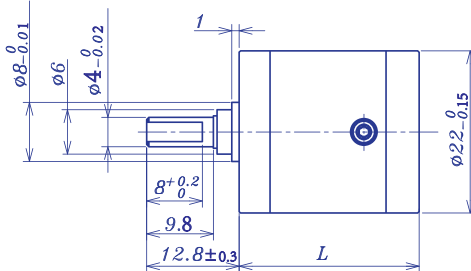
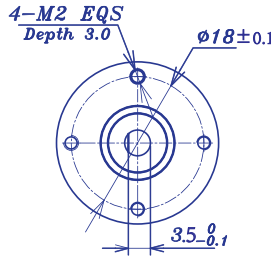
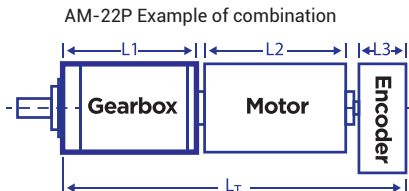


AM-22P Series

									
GEARBOX CHARACTER									
Gear type	Straight teeth		Average backlash on load		$\leq 2^{\circ}$				
Output shaft	Stainless steel hardened		Radial Play		≤ 0.1				
Main gear	Alloy Steel		Permissible axial load		$\leq 40N$				
Ring gear	Steel		Permissible force press fits		$\leq 100N$ (5mm from mounting face)				
Adapter plate	Copper		Recommended input speed		$\leq 10000RPM$				
Bearing AT output	Ball bearing		Operating temperature range		$-20^{\circ}C \sim +100^{\circ}C$				
Axial play	0-0.3		Operating humidity range		10-90%RH				
Directions	CW/CCW								
GEARBOX DATA									
Number of stage	1	2	3	4	5				
Reduction ratio X:1	3.3	11 19	37 62 97	175 370 591	742 1996				
	3.8	12 20	41 64 104	198 410 690	1014 2458				
	4.4	14 24	47 72 109	231 455 850	1185 3027				
	5.4	16 29	53 76 128	270 522	1386 3728				
		18	84 158	316 561	1621 4592				
Reduction ratio absolute	63/19	3969/361	250047/6859	21625/1216	759375/1024				
	15/4	945/76	59535/1444	50625/256	10965375/10816				
	57/13	225/16	3375/64	192375/832	41668425/35152				
	27/5	855/52	14175/304	731025/2704	158340015/114244				
		1701/95	12825/208	2777895/8788	601692057/371293				
			204687/3211	10556001/28561	285012027/142805				
			48735/676	531441/625	135005697/54925				
					63950067/21125				
					30292137/8125				
					14348907/3125				
Gearbox length "L" (mm)	22.3	27.3	32.3	37.3	42.6				
Max. continuous torque (N.m)	0.6	0.8	1	1.2	1.2				
Max. intermitten torque (N.m)	0.9	1.2	1.5	1.8	1.8				
Gearbox efficiency	90%	81%	72%	65%	59%				
Moment of inertia range (g.cm ²)	0.5	0.4	0.5	0.4	0.5				
Gearbox weight approx (g)	56	68	82	92	103				
Gearbox model	AM-22PA-X-01	AM-22PB-X-01	AM-22PC-X-01	AM-22PD-X-01	AM-22PE-X-01				
		INPUT GEARBOX DATA		MOTOR DIMENSION					
		Modulus		0.35					
		Press angle		20°					
		Teeth number		10	13	16	19		
		Max gear hole "A"		2.0		3.0			
		Max motor shaft		2.0		3.0			
		Motor dimension "D"		6.15		8.0			
Recommend Motor: Coreless Motor (w/E): AM-CL2232MAN AM-CL2232GAN AM-CL2242MAN AM-CL2242GAN Brushless Motor (w/E): AM-BL2040AN AM-BL2453AN		Recommend Encoder: Suitable for Coreless Motor Encoder S: AM-EN2211S*** Suitable for Brushless Motor Encoder S: AM-EN1611S*** Encoder T: AM-EN1612T***		GEARBOX MOTOR LENGTH "LT"					
				Gear motor length L_T		66.5	80.0	80.3	101
				Gearbox length L_1		22.3	27.3	32.3	37.3
				Motor length L_2		32.2	42	40	53
		Encoder length L_3		12	10.7	12	10.7		

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