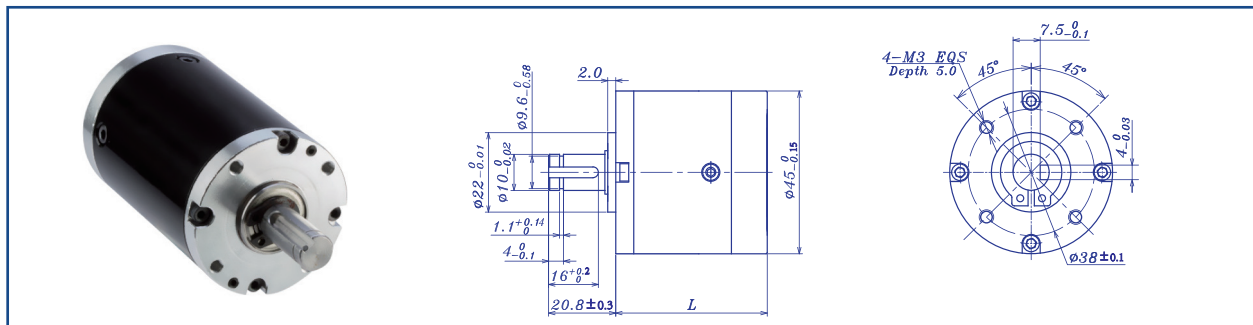


## AM-45P Series



### GEARBOX CHARACTER

Gear type	Straight teeth	Average backlash on load	$\leq 1.5^\circ$
Output shaft	Stainless steel hardened	Radial Play	$\leq 0.06$
Main gear	Alloy Steel	Permissible axial load	$\leq 150N$
Ring gear	Steel	Permissible force press fits	$\leq 280N$ (5mm from mounting face)
Adapter plate	Aluminium alloy	Recommended input speed	$\leq 8000RPM$
Bearing AT output	Ball bearing	Operating temperature range	$-20^\circ C \sim +50^\circ C$
Axial play	0-0.3	Operating humidity range	10-90%RH
Directions	CW/CCW		

### GEARBOX DATA

Number of stage	1	2		3		4			
Reduction ratio X:1	3.4 3.8 4.3 5.1 6.3	12 13 14 16 19	22 26 32 40	40 44 50 66 75	83 98 111 131 150	162 171 202 237 250	224 255 283 322 358	399 421 446 513 570	649 738 824 948 1078
Reduction ratio absolute	75/22 72/19 69/16 66/13 63/10	5625/484 2700/209 5814/361 621/38 4761/256	2277/104 4356/169 2079/65 3969/100	421875/10648 101250/2299 388125/7744 16200/247 15525/208 20493/247 313632/3211	75141/676 287496/2197 71441/475 137214/845 273861/1600 130977/650	607500/2717 1164375/4576 139725/494 1071225/3328 1414017/3952 4499145/11264 1352538/3211 980100/2197	107163/209 5143824/9025 2464749/3800 18896409/25600 9056124/10985 2250423/2375 17253243/16000 8251551/6500		
Gearbox length "L" (mm)	38.9	49.7	60.5	71.3					
Max. continuous torque (N.m)	5.4	7.2	9	10.8					
Max. intermitten torque (N.m)	7.9	10.6	13.2	15.9					
Gearbox efficiency	90%	81%	72%	65%					
Moment of inertia range (g.cm <sup>2</sup> )	12	14	14	15					
Gearbox weight approx (g)	305	418	520	633					
Gearbox model	AM-45PA-X-01	AM-45PB-X-01	AM-45PC-X-01	AM-45PD-X-01					

AM-45P Example of combination		INPUT GEARBOX DATA		MOTOR DIMENSION			
	Recommend Motor: Coreless Motor: (w/E) AM-CL3570GAN AM-CL4071GAE  Brushless Motor (w/E) AM-BL3660AN AM-BL45100AN	Modulus		0.6			
		Press angle		20°			
		Teeth number	10	13	16	19	22
		Max gear hole "A"	2.5	5.0	6.0	8.0	
		Max motor shaft	2.5	5.0	6.0	8.0	
		Motor dimension "D"	13.0		16.0		
		Recommend Encoder: Suitable for Coreless Motor Encoder S: AM-EN2211S*** Encoder T: AM-EN2412T***					
		Encoder S: AM-EN2211S*** Encoder T: AM-EN2412T***		Suitable for Brushless Motor Encoder S: AM-EN2211S*** Encoder T: AM-EN3612T***			
GEARBOX MOTOR LENGTH "LT"							
Gear motor length $L_T$		119.6	121.7	172.5			
Gearbox length $L_1$		38.9	49.7	60.5			
Motor length $L_2$		70	60	100			
Encoder length $L_3$		10.7	12	12			

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