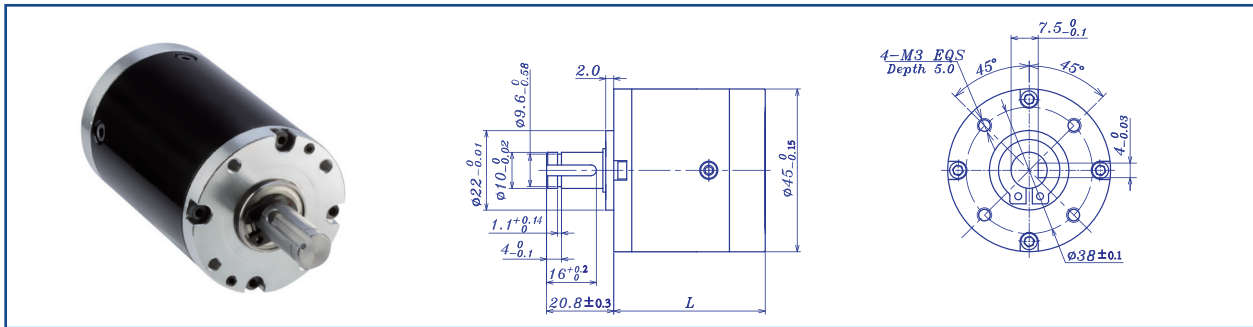


AM-45P Series



GEARBOX CHARACTER

Gear type	Straight teeth	Average backlash on load	$\leq 1.5^\circ$
Output shaft	Stainless steel hardened	Radial Play	≤ 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	$-20^\circ C \sim +100^\circ C$
Axial play	0-0.3	Operating humidity range	10-90%RH
Directions	CW/CCW		

GEARBOX DATA

Number of stage	1	2		3			4			
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	224 255 283 322 358	399 421 446 513 570	649 738 824 948 1078	1270
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 ²)	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						

<p>AM-45P Example of combination</p>	<p>Recommend Motor:</p> <p>Coreless Motor: (w/E) AM-CL3570GAN AM-CL4071GAE</p> <p>Brushless Motor (w/E) AM-BL3660AN AM-BL45100AN</p>	<p>Recommend Encoder:</p> <p>Suitable for Coreless Motor Encoder S: AM-EN2211S*** Encoder T: AM-EN2412T***</p> <p>Suitable for Brushless Motor Encoder S: AM-EN2211S*** Encoder T: AM-EN3612T***</p>	<p>INPUT GEARBOX DATA</p> <p>Modulus: 0.6</p> <p>Press angle: 20°</p> <p>Teeth number: 10, 13, 16, 19, 22</p> <p>Max gear hole "A": 2.5, 5.0, 6.0, 8.0</p> <p>Max motor shaft: 2.5, 5.0, 6.0, 8.0</p> <p>Motor dimension "D": 13.0, 16.0</p>	<p>MOTOR DIMENSION</p>													
			<p>GEARBOX MOTOR LENGTH "LT"</p> <table border="1"> <tr> <td>Gear motor length L_T</td> <td>119.6</td> <td>121.7</td> <td>172.5</td> </tr> <tr> <td>Gearbox length L_1</td> <td>38.9</td> <td>49.7</td> <td>60.5</td> </tr> <tr> <td>Motor length L_2</td> <td>70</td> <td>60</td> <td>100</td> </tr> <tr> <td>Encoder length L_3</td> <td>10.7</td> <td>12</td> <td>12</td> </tr> </table>		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
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Encoder length L_3	10.7	12	12														

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