



MD022022

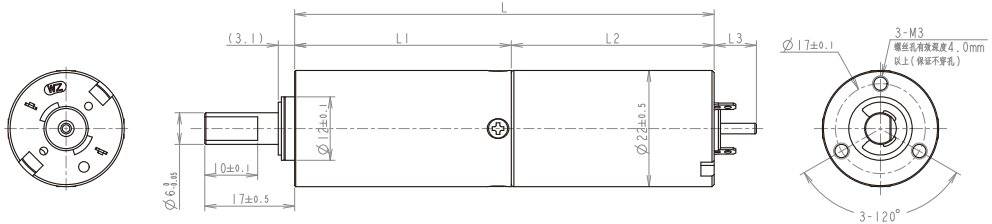
Gearbox Specifications

Outer diameter	22mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.1mm	≤0.1mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤120N	≤170N
Gear backlash	≤2° Customizable	Operating temperature range	-30 ~ +100°C	

Gearbox Stages

	1	2	3	4
Reduction ratio	4 / 6	16 / 24 / 36	64 / 96 / 144 / 216	256 / 384 / 576 / 864 / 1296
Max rated torque of gearbox (gf.cm)	15000	15000	15000	15000
Instant torque of gearbox (gf.cm)	36000	36000	36000	36000
Gearbox efficiency (%)	90	85	80	75
Gearbox length L1 (mm)	19.1	26.4	33.7	41

Technical Drawing



Motor Specifications

Motor type (optional)	Brushless DC motor, Coreless motor, Stepper motor	Input speed	≤15000rpm
Voltage (optional)	3-24V	Current	300mA max

Parameter (values at 24V & 8300rpm) The following data is for reference only.

Model	Rated Speed	Max Speed	Max Rated Torque	Max Instant Torque	Reduction Ratio	Gearbox Length	Overall Length
	rpm	rpm	gf.cm	gf.cm		mm	mm
MD022022-4	1875	7500	15000	36000	4	19.1	57.5
MD022022-6	1250	5000	15000	36000	6		
MD022022-16	469	1875	15000	36000	16	26.4	64.8
MD022022-24	313	1250	15000	36000	24		
MD022022-36	208	833	15000	36000	36		
MD022022-64	117	469	15000	36000	64	33.7	72.1
MD022022-96	78	313	15000	36000	96		
MD022022-144	52	208	15000	36000	144		
MD022022-216	35	139	15000	36000	216		
MD022022-256	29	117	15000	36000	256	41	79.4
MD022022-384	20	78	15000	36000	384		
MD022022-576	13	52	15000	36000	576		
MD022022-864	9	35	15000	36000	864		
MD022022-1296	6	23	15000	36000	1296		

*Please contact us for customized products