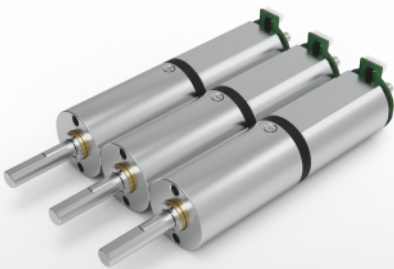


MD012012

Φ12mm MD planetary gearbox

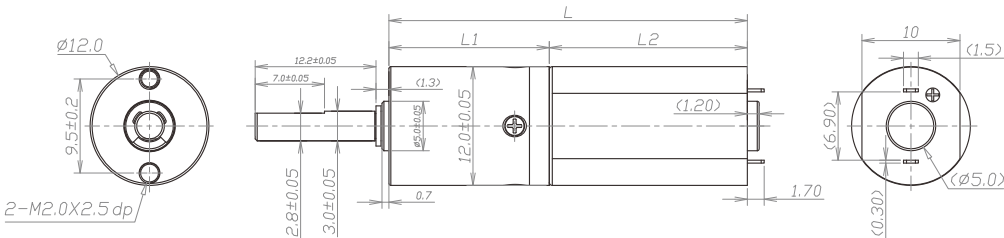


Gearbox Specifications

Outer diameter	12mm	Bearing	oil-impregnated bearings
Material	Metal	Axial Play	≤0.3mm
Direction of rotation	cw & ccw	Radial Load at Output Shaft	≤10N
Backlash	≤3°	Operating temperature range	-20 ~ +85℃

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)	300	1000	1500	2000
Max. intermittent torque (gf.cm)	1000	3000	4500	5000
Gearbox efficiency (%)	87	74	63	56
Gearbox length L1 (mm)	12.4	16.2	20	23.8

Technical Drawing



Motor Specifications

Motor type (optional)	Brushed DC motor, Brushless DC motor, Coreless motor, Stepper motor	Input speed	≤30000rpm
Voltage (optional)	3-24V	Load current	250mA max

Model	Rated Speed	Max Speed	Max. Rated Torque of Gearbox	Max. Intermittent Torque of Gearbox	Reduction Ratio	Gearbox Length	Overall Length
	rpm	rpm	gf.cm	gf.cm		mm	mm
MD012012-4	1875	7500	300	1000	4	12.4	32.4
MD012012-6	1250	5000	300	1000	6		
MD012012-16	469	1875	1000	3000	16	16.2	36.2
MD012012-24	313	1250	1000	3000	24		
MD012012-36	208	833	1000	3000	36		
MD012012-64	117	469	1500	4500	64		
MD012012-96	78	313	1500	4500	96	20	40
MD012012-144	52	208	1500	4500	144		
MD012012-216	35	139	1500	4500	216		
MD012012-256	29	117	2000	5000	256		
MD012012-384	20	78	2000	5000	384	23.8	43.8
MD012012-576	13	52	2000	5000	576		
MD012012-864	9	35	2000	5000	864		
MD012012-1296	6	23	2000	5000	1296		