

MD010010

Φ10mm MD planetary gearbox

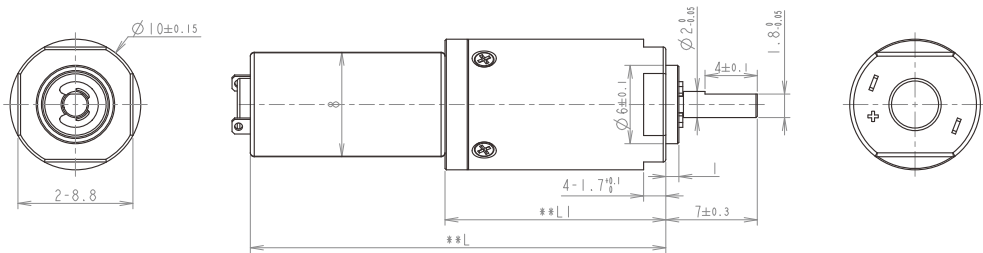


Gearbox Specifications

Outer diameter	10mm	Bearing	oil-impregnated bearings	Rolling bearing
Material	Metal	Axial Play	≤0.3mm	≤0.2mm
Direction of rotation	cw & ccw	Radial Load at Output Shaft	≤2N	≤7N
Backlash	≤3°	Operating temperature range	-20 ~ +85°C	

Gearbox Stages	1	2	3	4
Reduction ratio	3 / 5	13 / 19 / 28	46 / 69 / 102 / 151	168 / 249 / 368 / 546 / 809
Max rated torque of gearbox (gf.cm)	1000	1000	1000	1000
Max. intermittent torque (gf.cm)	2000	2000	2000	2000
Gearbox efficiency (%)	87	74	63	56
Gearbox length L1 (mm)	9.7	12.8	15.9	19

Technical Drawing



Motor Specifications

Motor type (optional)	Brushed DC motor, Coreless motor, Stepper motor	Input speed	≤30000rpm
Voltage (optional)	3-24V	Load current	150mA 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
MD010010-3	3917	7500	1000	2000	3	9.7	24.7
MD010010-5	2645	5000	1000	2000	5		
MD010010-13	1085	2308	1000	2000	13	12.8	27.8
MD010010-19	742	1579	1000	2000	19		
MD010010-28	504	1071	1000	2000	28		
MD010010-46	307	652	1000	2000	46	15.9	30.9
MD010010-69	204	435	1000	2000	69		
MD010010-102	138	294	1000	2000	102		
MD010010-151	93	199	1000	2000	151		
MD010010-168	84	179	1000	2000	168	19	34
MD010010-249	57	120	1000	2000	249		
MD010010-368	38	82	1000	2000	368		
MD010010-546	26	55	1000	2000	546		
MD010010-809	17	37	1000	2000	809		