



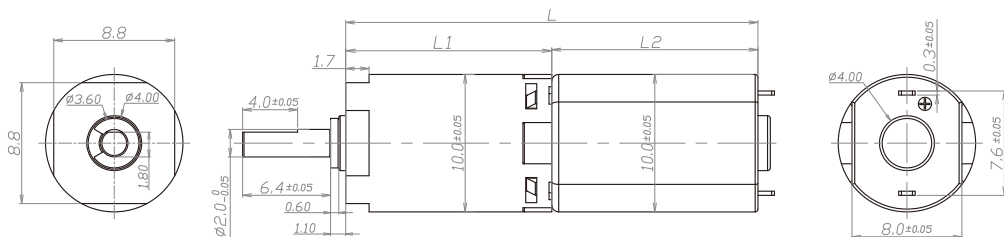
# ZWBMD010010

## Gearbox specifications

Outer diameter	10mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.3mm	≤0.2mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤2N	≤7N
Gear backlash	≤3° (Customisable)	Operating temperature range	-20~ +85°C	

Gearbox stages	1	2	3	4
Reduction ratio	4 / 6	13 / 19 / 28	46 / 69 / 102 / 151	168 / 249 / 368 / 546 / 809
Max rated torque of gearbox (gf.cm)	1500	1500	1500	1800
Instant torque of gearbox (gf.cm)	4500	4500	4500	4500
Gearbox efficiency	87	74	63	56
Length L1 (mm)	9.7	12.8	15.9	19

## Technical illustrations



## Motor specifications

Motors	DC brush motor, DC brushless motor, Stepper motor	Input speed	≤30000rpm
Voltage(Optional)	3-24V	Current	150mA max

Model	Rated Speed	Max Speed	Max Rated Torque	Max Instant Torque	Reduction ratio	Length L1	Overall Length
	rpm	rpm	gf.cm	gf.cm			
ZWBMD010010-4	1875	7500	1500	4500	4	9.7	24.7
ZWBMD010010-6	1250	5000	1500	4500	6		
ZWBMD010010-13	577	2308	1500	4500	13	12.8	27.8
ZWBMD010010-19	395	1579	1500	4500	19		
ZWBMD010010-28	268	1071	1500	4500	28		
ZWBMD010010-46	163	652	1500	4500	46	15.9	30.9
ZWBMD010010-69	109	435	1500	4500	69		
ZWBMD010010-102	74	294	1500	4500	102		
ZWBMD010010-151	50	199	1500	4500	151		
ZWBMD010010-168	45	179	1800	4500	168	19	34
ZWBMD010010-249	30	120	1800	4500	249		
ZWBMD010010-368	20	82	1800	4500	368		
ZWBMD010010-546	14	55	1800	4500	546		
ZWBMD010010-809	9	37	1800	4500	809		

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