



ZWMD008008

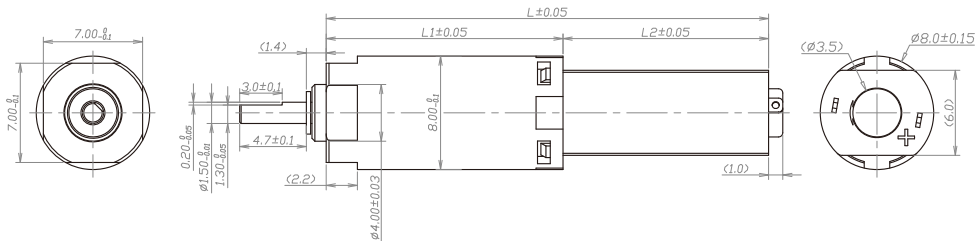
Gearbox specifications

Outer diameter	8mm	Bearing	Porous bearing	Rolling bearing
Material	Metal	Axial endplay	≤0.3mm	≤0.2mm
Direction of rotation	cw & ccw	Radial loading on output shaft	≤2N	≤5N
Gear backlash	≤3° (Customisable)	Operating temperature range	-20~ +85°C	

Gearbox stages

	1	2	3	4
Reduction ratio	4 / 5	13 / 19 / 28	47 / 69 / 102 / 152	168 / 249 / 369 / 546 / 809
Max rated torque of gearbox (gf.cm)	250	400	600	750
Instant torque of gearbox (gf.cm)	500	800	1200	1500
Gearbox efficiency	85	73	62	55
Length L1 (mm)	11.6	14.3	17	19.7

Technical illustrations



Motor specifications

Motors	DC brush motor, DC brushless motor, Stepper motor	Input speed	≤30000rpm
Voltage(Optional)	3-12V	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		mm	mm
ZWMD008008-4	2083	8333	250	500	3.6	11.6	26.1
ZWMD008008-5	1406	5625	250	500	5.3		
ZWMD008008-13	579	2315	400	800	13.0	14.3	28.8
ZWMD008008-19	391	1563	400	800	19.2		
ZWMD008008-28	264	1055	400	800	28.4		
ZWMD008008-47	161	643	600	1200	46.7	17	31.5
ZWMD008008-69	109	434	600	1200	69.1		
ZWMD008008-102	73	293	600	1200	102.4		
ZWMD008008-152	49	198	600	1200	151.7		
ZWMD008008-168	45	179	750	1500	168.0	19.7	34.2
ZWMD008008-249	30	121	750	1500	248.8		
ZWMD008008-369	20	81	750	1500	368.6		
ZWMD008008-546	14	55	750	1500	546.1		
ZWMD008008-809	9	37	750	1500	809.1		

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