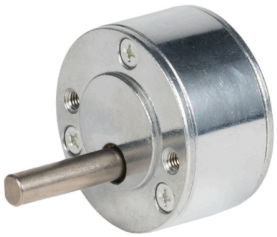
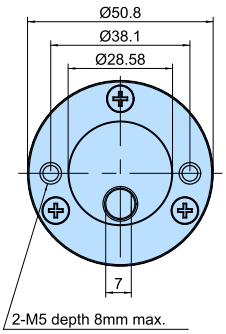
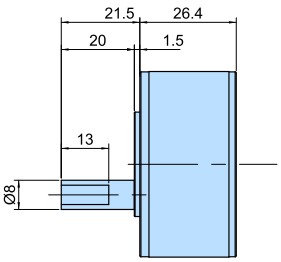
RG50A

10 ratios · 4 housing lengths







Shown: L = 26.4 mm. All dimension drawings are on Sheet 2. Dimensions in mm.

RATIO SELECTION & PERFORMANCE

Model	Ratio :1	Gear stages	Length L mm	Max. cont. torque kgf.cm	Breaking torque kgf.cm	Efficiency %	Reference weight g
RG50A-7.2K	7.2	2	26.4	10	30	81	171
RG50A-13.3K	13.3	2	26.4	10	30	81	171
RG50A-29K	29	3	26.4	10	30	73	171
RG50A-53K	53	3	26.4	10	30	73	171
RG50A-116K	116	4	30.2	30	75	65	174
RG50A-213K	213	4	30.2	30	75	65	174
RG50A-464K	464	5	33.9	30	75	59	177
RG50A-853K	853	5	33.9	30	75	59	177
RG50A-1856K	1856	6	37.7	30	75	53	177
RG50A-3415K	3415	6	37.7	30	75	53	177

Reference weights are based on one measured gear ratio per stage configuration.

MECHANICAL, MATERIALS & OPERATION

Gearbox diameter	50 mm
Output shaft diameter	8 mm
Pinion hole diameter	φ3.17 mm
Axial play	0.35 mm
Radial play	0.05 mm
Backlash	2°
Gear module	0.5 / 0.6 / 0.8

Operating temperature	-30 ~ 65 °C
Housing material	Zinc Alloy (Die casting)
Gear material	Powder Metallurgy (Fe) / Plastics / Steel
Gear design	Helical Gear / Spur Gear
Output shaft bearing	Sleeve Bearing
Lubricant	FUMIO

CONFIGURATION | COMPATIBLE MOTORS

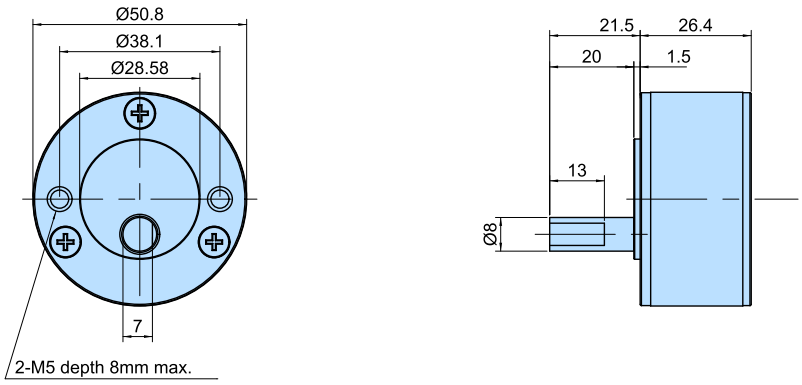
Motor type	Model	Combination
Brushed DC motor	DC555	RG50A + DC555
Brushless DC motor	BL36 / BLX39	with RG50A

Mounting pattern and motor interface must match the selected assembly.

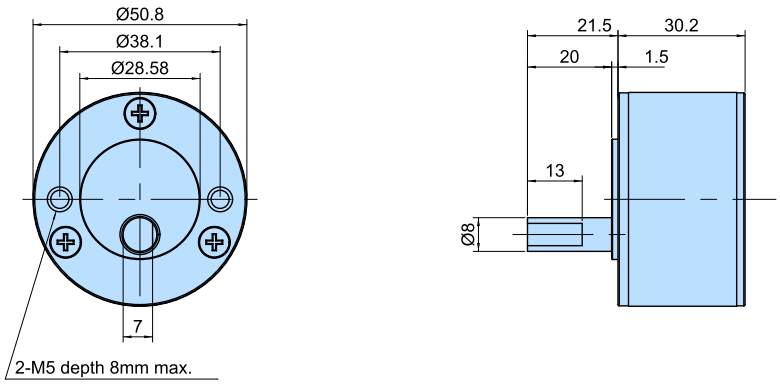
RG50A | DIMENSIONS & MOUNTING

Dimensions in mm · Do not scale · Housing length includes mounting plate

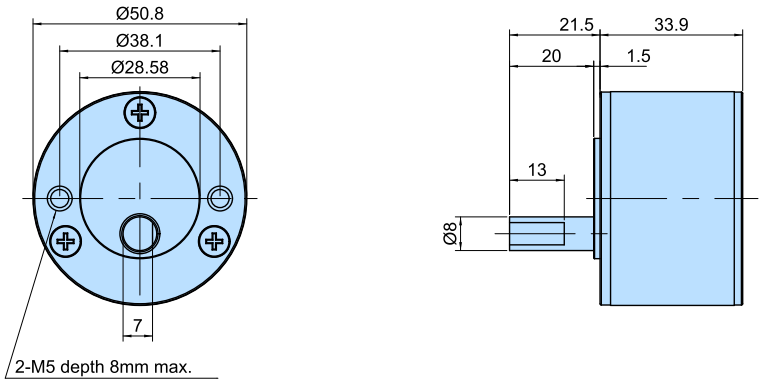
L = 26.4 mm Ratio 7.2 / 13.3 / 29 / 53 :1



L = 30.2 mm Ratio 116 / 213 :1



L = 33.9 mm Ratio 464 / 853 :1



L = 37.7 mm Ratio 1856 / 3415 :1

