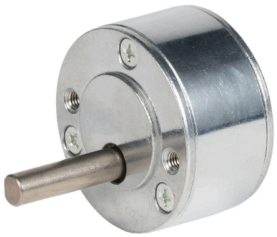
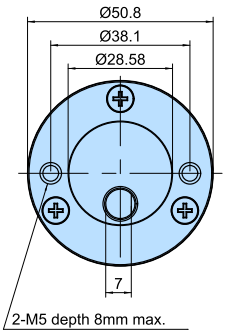
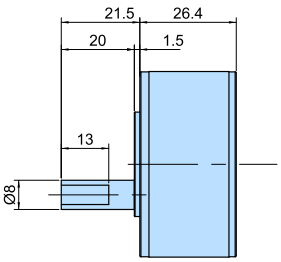
## RG50B

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 |
|---|---|---|---|---|---|---|---|
| RG50B-7.5K | 7.5 | 2 | 26.4 | 10 | 30 | 81 | 171 |
| RG50B-13.8K | 13.8 | 2 | 26.4 | 10 | 30 | 81 | 171 |
| RG50B-30K | 30 | 3 | 26.4 | 10 | 30 | 73 | 171 |
| RG50B-55K | 55 | 3 | 26.4 | 10 | 30 | 73 | 171 |
| RG50B-120K | 120 | 4 | 30.2 | 30 | 75 | 65 | 174 |
| RG50B-220K | 220 | 4 | 30.2 | 30 | 75 | 65 | 174 |
| RG50B-480K | 480 | 5 | 33.9 | 30 | 75 | 59 | 177 |
| RG50B-883K | 883 | 5 | 33.9 | 30 | 75 | 59 | 177 |
| RG50B-1920K | 1920 | 6 | 37.7 | 30 | 75 | 53 | 177 |
| RG50B-3532K | 3532 | 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 | φ5 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

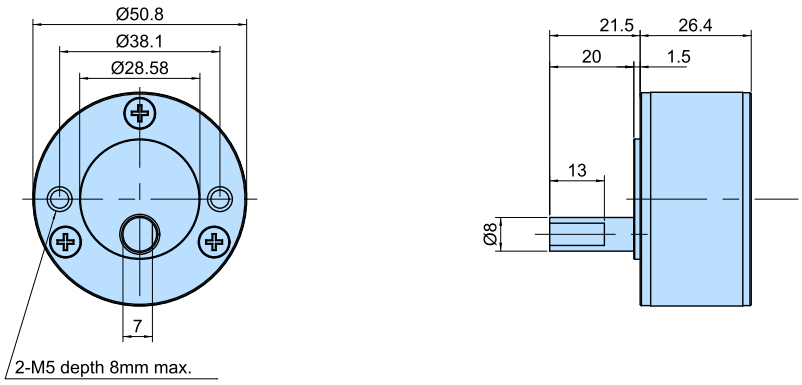
| Motor type | Model | Combination |
|---|---|---|
| Brushed DC motor | DC775 | RG50B + DC775 |
| Brushless DC motor | BL42 / BLX48 | with RG50B |

Mounting pattern and motor interface must match the selected assembly.

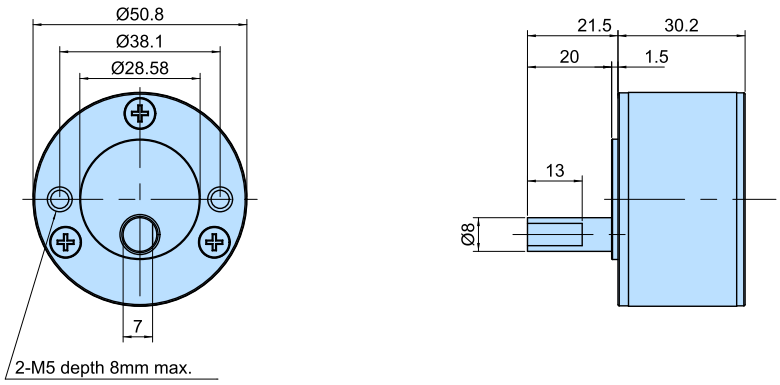
# RG50B | DIMENSIONS & MOUNTING

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

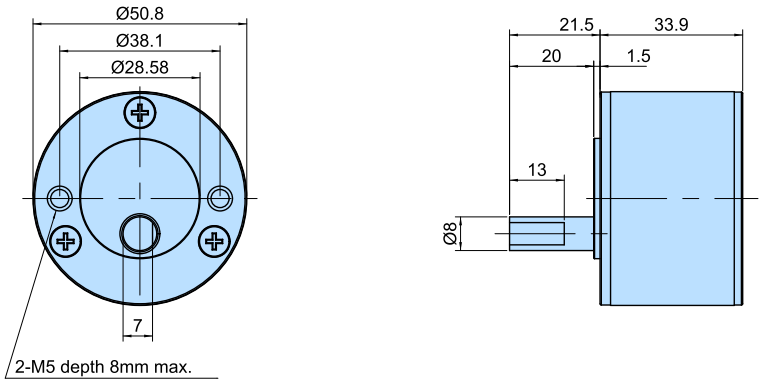
**L = 26.4 mm** Ratio 7.5 / 13.8 / 30 / 55 :1




**L = 30.2 mm** Ratio 120 / 220 :1




**L = 33.9 mm** Ratio 480 / 883 :1




**L = 37.7 mm** Ratio 1920 / 3532 :1

