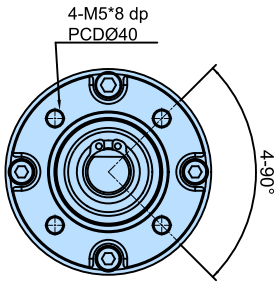
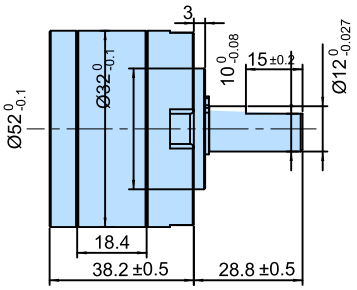
PG52

Ø52 mm · 14 ratios · 5 housing lengths







Shown: L = 38.2 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
PG52-3.7K	3.7	1	38.2	100	300	90	320
PG52-5.1K	5.1	1	38.2	100	300	90	320
PG52-19K	19	2	52.1	200	600	81	453
PG52-27K	27	2	52.1	200	600	81	453
PG52-71K	71	3	68.3	400	1200	72	600
PG52-99K	99	3	68.3	400	1200	72	600
PG52-138K	138	3	68.3	400	1200	72	600
PG52-262K	262	4	84.5	400	1200	60	755
PG52-366K	366	4	84.5	400	1200	60	755
PG52-512K	512	4	84.5	400	1200	60	755
PG52-716K	716	4	84.5	400	1200	60	755
PG52-970K	970	5	100.7	400	1200	50	906
PG52-1356K	1356	5	100.7	400	1200	50	906
PG52-1896K	1896	5	100.7	400	1200	50	906

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

MECHANICAL, MATERIALS & OPERATION

Gearbox diameter	52 mm	Operating temperature	-30 ~ 65 °C
Output shaft diameter	12 mm	Housing material	Powder Metallurgy (Fe)
Pinion hole diameter	φ5 mm	Gear material	Powder Metallurgy (Fe) / Plastics
Axial play	≤ 0.2 mm	Gear design	Helical Gear / Spur Gear
Radial play	≤ 0.1 mm	Output shaft bearing	Ball Bearing
Backlash	≤ 1.5°	Lubricant	Graphene oil
Gear module	0.8		

CONFIGURATION | COMPATIBLE MOTORS

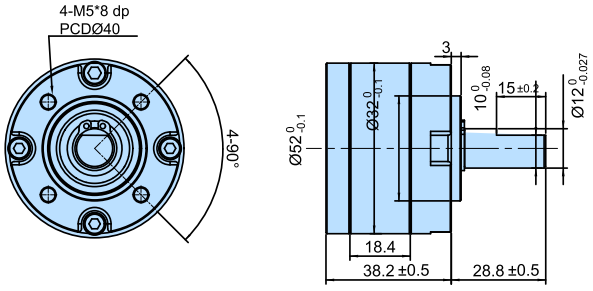
Motor type	Model	Combination
Brushed DC motor	DC997	PG52 + DC997

Mounting pattern and motor interface must match the selected assembly.

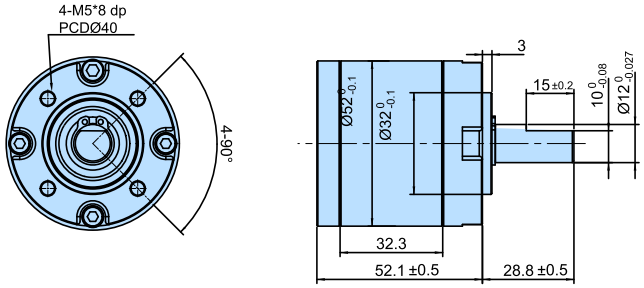
PG52 | DIMENSIONS & MOUNTING

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

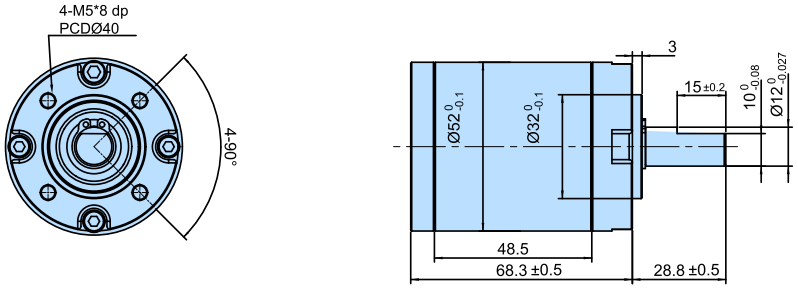
L = 38.2 mm Ratio 3.7 / 5.1 :1



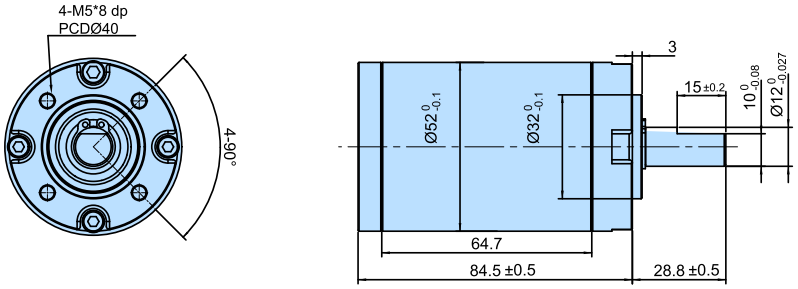
L = 52.1 mm Ratio 19 / 27 :1



L = 68.3 mm Ratio 71 / 99 / 138 :1



L = 84.5 mm Ratio 262 / 366 / 512 / 716 :1



L = 100.7 mm Ratio 970 / 1356 / 1896 :1

