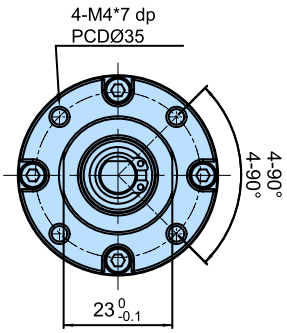
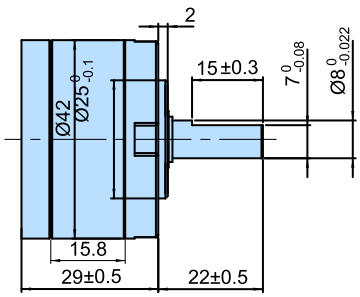
PG42

Ø42 mm · 14 ratios · 5 housing lengths







Shown: L = 29 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
PG42-3.7K	3.7	1	29	50	150	90	250
PG42-4.3K	4.3	1	29	50	150	90	250
PG42-16K	16	2	42.6	100	300	81	360
PG42-22K	22	2	42.6	100	300	81	360
PG42-59K	59	3	53.8	200	600	72	477
PG42-83K	83	3	53.8	200	600	72	477
PG42-116K	116	3	53.8	200	600	72	477
PG42-219K	219	4	65.1	200	600	60	580
PG42-307K	307	4	65.1	200	600	60	580
PG42-429K	429	4	65.1	200	600	60	580
PG42-600K	600	4	65.1	200	600	60	580
PG42-813K	813	5	76.4	200	600	50	700
PG42-1137K	1137	5	76.4	200	600	50	700
PG42-1590K	1590	5	76.4	200	600	50	700

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

MECHANICAL, MATERIALS & OPERATION

Gearbox diameter	42 mm
Output shaft diameter	8 mm
Pinion hole diameter	φ5 mm
Axial play	≤ 0.2 mm
Radial play	≤ 0.1 mm
Backlash	≤ 1.5°
Gear module	0.6

Operating temperature	-30 ~ 65 °C
Housing material	Powder Metallurgy (Fe)
Gear material	Powder Metallurgy (Fe) / Plastics
Gear design	Helical Gear / Spur Gear
Output shaft bearing	Ball Bearing
Lubricant	Graphene oil

CONFIGURATION | COMPATIBLE MOTORS

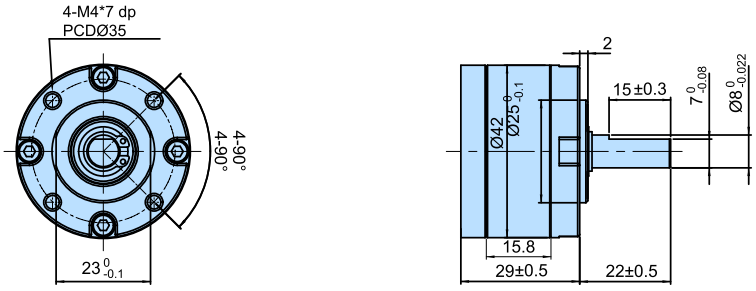
Motor type	Model	Combination
Brushed DC motor	DC775	PG42 + DC775
Brushless DC motor	BL42	PG42 + BL42

Mounting pattern and motor interface must match the selected assembly.

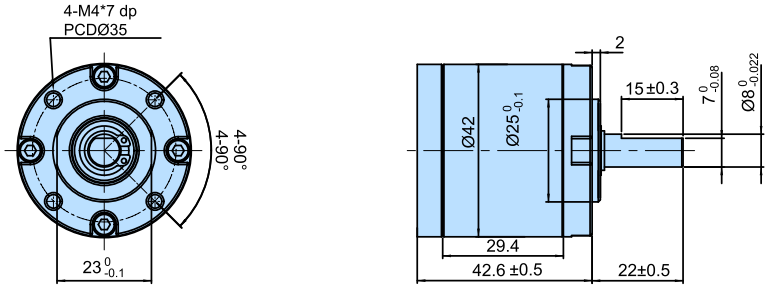
PG42 | DIMENSIONS & MOUNTING

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

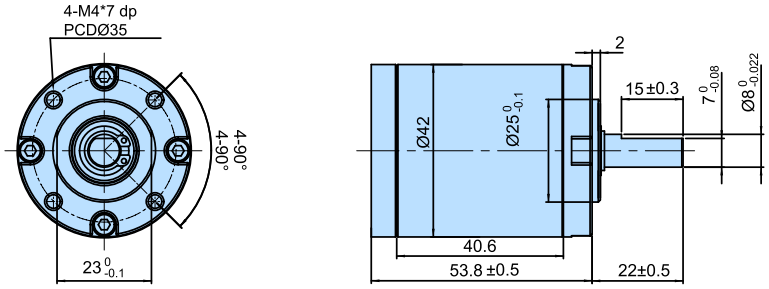
L = 29 mm Ratio 3.7 / 4.3 :1



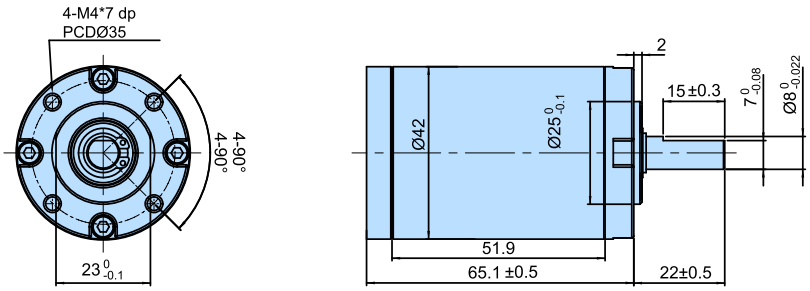
L = 42.6 mm Ratio 16 / 22 :1



L = 53.8 mm Ratio 59 / 83 / 116 :1



L = 65.1 mm Ratio 219 / 307 / 429 / 600 :1



L = 76.4 mm Ratio 813 / 1137 / 1590 :1

