24P | Ø24 mm Miniature Planetary Gearhead

GEARHEAD ONLY / PRODUCT TECHNICAL DATASHEET

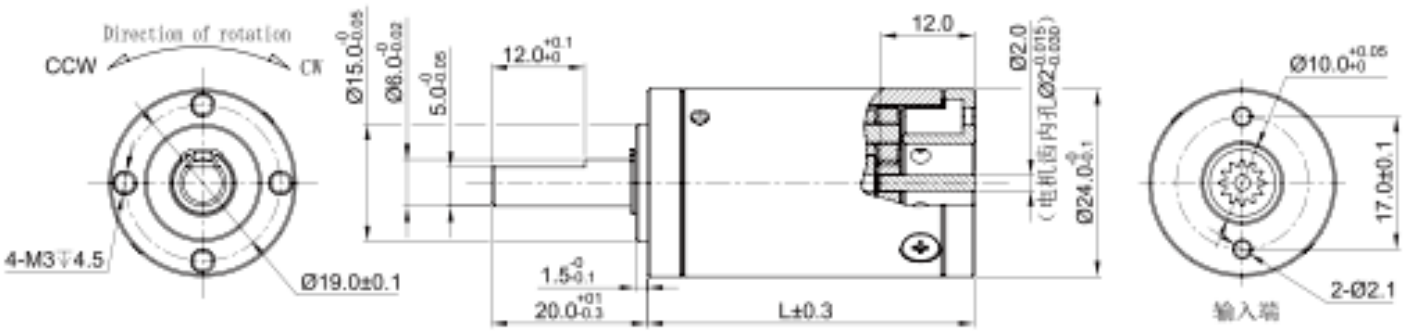
PG SERIES / MINIATURE PLANETARY GEARHEADS

01 GENERAL TECHNICAL DATA

Nominal outside diameter	**Ø24 mm**	Number of stages	**1–4**
Gearhead body length	**24.6–42.0 mm**	Backlash at no load	**≤1.2°**
Max. radial load (10 mm from flange)	**≤29.4 N**	Max. axial shaft load	**≤9.81 N**
Radial shaft play	**≤0.04 mm**	Axial shaft play	**≤0.30 mm**
Operating temperature	**–40 to +120 °C**	Housing / gears	**Steel**
Output bearing	**Ball bearing**	Motor voltage range	**3–36 VDC**



02 MECHANICAL INTERFACE / SOURCE DRAWING



03 PERFORMANCE BY REDUCTION STAGE

STAGE	L (mm)	RATED TORQUE (mN·m)	MOMENTARY TORQUE (mN·m)	EFF. (%)	AVAILABLE REDUCTION RATIOS (x:1)
1	24.6	980.7	1,961.3	90%	3.83 / 4.44 / 5.25
2	30.4	1,471.0	2,942.0	80%	14.7 / 16.8 / 19.4 / 20.1 / 23 / 27.7
3	36.2	1,961.3	3,922.7	73%	56.2 / 64.5 / 74.1 / 77 / 85.2 / 88.5 / 101.6 / 105.6 / 121.3 / 144.7
4	42.0	2,942.0	5,884.0	66%	215.2 / 247.2 / 284 / 294.9 / 326.2 / 338.8 / 374.8 / 389.3 / 404.3 / 447.2 / 464.5 / 533.6 / 554.2 / 636.7 / 759.7

Rated allowable torque is a continuous-load reference. Maximum momentary torque is a peak limit, not a continuous rating. Input-speed eligibility depends on the matched motor, load, gearhead design and duty cycle; no universal rpm ceiling. The source sheet indicates DC motor power below 28 W and a 3–36 VDC motor voltage range.