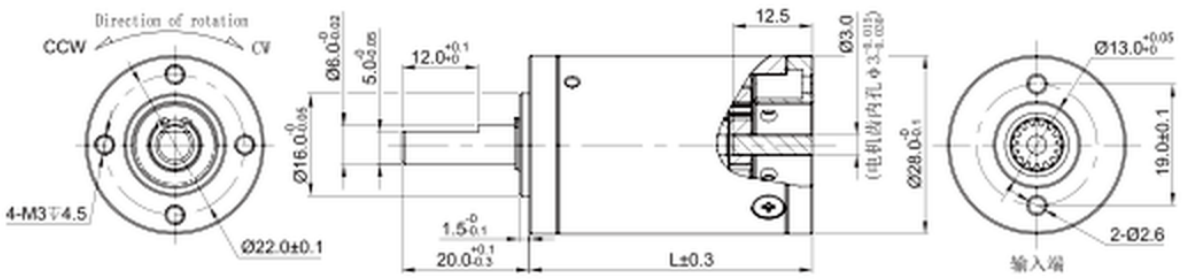
28P | Ø28 mm Miniature Planetary Gearhead

GEARHEAD ONLY / PRODUCT TECHNICAL DATASHEET

SIGGEAR / 28P / SOURCE SHEET

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01 MECHANICAL INTERFACE / SOURCE DRAWING



Mechanical drawing from supplied 28P product sheet; dimensions and tolerances as depicted.

02 GENERAL TECHNICAL DATA

Nominal outside diameter	**Ø28 mm**	Number of stages	**1-4**
Gearhead body length	**25.6-44.5 mm**	Radial shaft play	**≤ 0.04 mm**
Backlash at no load	**≤ 1.2°**	Axial shaft play	**≤ 0.30 mm**
Max. radial load (10 mm from flange)	**≤ 58.8 N**	Operating temperature	**-40 to +120 °C**
Max. axial load	**≤ 29.4 N**	Output bearing	**Ball Bearing**
Housing / gears	**Steel**	Input-speed eligibility	**Motor & duty dependent**

03 PERFORMANCE BY REDUCTION STAGE

STAGE	L (mm)	RATED* (mN·m)	MOMENTARY (mN·m)	EFF. (%)	AVAILABLE REDUCTION RATIOS (x:1)
1	25.6	1,961.3	3,922.7	90%	3.83 / 4.4 / 5.25
2	31.9	2,451.7	4,903.3	80%	14.7 / 16.8 / 19.4 / 20.1 23 / 27.7
3	38.2	3,432.3	6,864.7	73%	56.2 / 64.5 / 74.1 / 77 / 85.2 88.5 / 101.6 / 105.6 / 121.3 144.7
4	44.5	4,903.3	9,806.6	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

* Torque values follow the factory source; continuous-duty suitability depends on the application.

Momentary torque is not a continuous-load rating. Ratio-specific limits and duty cycles require review.

No universal 8,000 rpm ceiling is asserted; evaluate actual motor, load, thermal behavior and duty.

Catalog adaptation note: DC motors under 30 W; motor-gearhead pairing must be evaluated separately.