32P PRECISION PLANETARY GEARHEAD

Miniature Planetary Gearhead | Ø32 mm | Gearhead Only

GENERAL SPECIFICATIONS

Housing material	**Steel**
Gear material	**Steel**
Output bearing	**Ball bearings**
Radial load (10 mm from flange)	**78.5 N (8.0 kgf)**
Shaft axial load	**34.3 N (3.5 kgf)**
Radial play of shaft	**≤ 0.04 mm**
Thrust play of shaft	**≤ 0.30 mm**
Backlash, at no load	**≤ 1.2°**
Operating temperature range	**-40 to +120 °C**
Tested motor input-speed compatibility	**1,000–50,000 rpm***



Product image from supplied source sheet

GEARHEAD PERFORMANCE BY REDUCTION STAGE

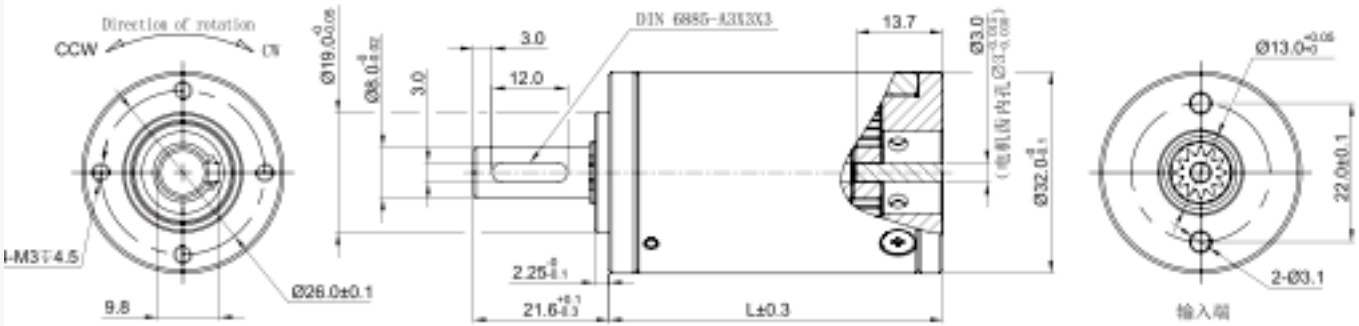
Stages	L (mm)	Reduction ratios	Rated torque (mN·m)	Max. momentary torque (mN·m)	Efficiency
1	28.05	3.5 / 4 / 4.75	3432.3	6864.7	90%
2	36.35	12.2 / 14 / 16 / 16.6 / 19 / 22.6	4903.3	9806.6	80%
3	44.65	42.9 / 49 / 56 / 58.2 / 64 / 66.5 / 76 / 79 / 90.2 / 107.2	6374.3	12748.6	73%
4	52.95	150.1 / 171.5 / 196 / 203.7 / 224 / 232.7 / 256 / 266 / 276.4 / 304 / 315.9 / 361 / 375.1 / 428.7 / 509.1	7845.3	15690.6	66%

* Tested motor input-speed compatibility: 1,000–50,000 rpm. Torque conversion: 1 kgf·cm = 98.0665 mN·m; no general 8,000 rpm limit is applied.

32P MECHANICAL INTERFACE

Original mechanical drawing excerpt | Drawing dimensions in mm

Technical illustration



Drawing reproduced from the supplied 32P product sheet. The raster source is for reference; use the controlled CAD drawing for precision measurement.

Output interface, mounting holes and dimensional tolerances are shown in the original illustration above.