



N30, N20 Spur Gear Motors: Reliable Iron-Core Motion

INEED Motors designs and manufactures a range of micro gear motors, including the popular [spur gear motor](#), such as N30, N20 gear motor series, to meet diverse motion control requirements. The company's spur gear motor lineup offers simplicity, cost-effectiveness, and reliable performance for applications where noise tolerance is acceptable and efficiency is paramount. These motors combine brushed iron-core DC motors with precision spur gearing, providing consistent torque output in compact packages ranging from 12mm to 37mm in diameter.

The [N20 gear motor series](#) represents the INEED's micro gear motor solution, measuring just 10mm in diameter with multiple length options from 12mm to 20mm. These units utilize hardened steel or polymer gears with reduction ratios from 5:1 to 1000:1, delivering torque outputs up to 2 kg·cm. Engineers can specify straight-cut or helical-cut gears, carbon or metal brushes, and optional encoders to match their application needs. Voltage options range from 3V to 24V DC, with customization available for electrical interfaces and mounting configurations.

4 Key Advantages of INEED Gear Motors

Wide ratio selection availability

N30, N20 gear motor options from 5:1 to 1000:1 ratios

Robust iron-core construction

Handles continuous operation reliably

Multiple gearing material choices

Steel or brass gear options

Customization flexibility support

Electrical and mechanical tailoring available

Typical Applications

Medical devices: infusion pumps, diagnostic equipment

Industrial automation: sensors, actuators, control systems

Consumer products: automated dispensers, smart home devices

Robotics: positioning mechanisms, robotic joints

Office equipment: printers, scanners, paper handling

Why Specify INEED Gear Motors?

The company provides comprehensive technical support including 2D CAD models, performance datasheets, and application guidance. Designers appreciate the balance between performance and cost-effectiveness, while procurement specialists value the consistent quality and reliable delivery. Custom solutions are available for volume applications, with RoHS and REACH compliance standard across all products.

The company's spur gear motors and N20 micro gear motor series offer engineers practical solutions for applications requiring reliable motion control in compact form factors. With extensive customization options and technical support available, these motors provide good value for both prototyping and production quantities.

For more technical details, please send email to inquiry@ineedelectronics.hk or call us at **(+86) 769 2289 1073**.