

Five Reputable High Precision Gear Manufacturers in China 2026: Boosting Stable Transmission for Industrial Equipment

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Equipment

Industrial equipment buyers evaluating high precision gear suppliers in China are looking for established manufacturers with large-gear cutting, grinding, and inspection capability. This overview lists five manufacturers based on their publicly documented presence in the gear and transmission market:

Jiangsu [New Yinye Transmission](#)

Electromechanical Co., Ltd., Nanjing

High Speed & Accurate Gear Group Co., Ltd., Wenling Juli Gear Co., Ltd., Shenzhen Huayuexin Precise Ware Co., Ltd., and Hebei Kexin Gear Co., Ltd.



Logo for New Yinye Transmission

Wuxi, Jiangsu, China, August 6, 2026 — China's gear manufacturing base produces high precision gears for industrial gearboxes, wind power, mining, machine tools, and railway equipment. Among the companies serving these sectors, Jiangsu New Yinye Transmission Electromechanical Co., Ltd., operating under the brand name New Yinye Transmission, is a custom manufacturer specializing in large, high-precision, complex, and non-standard industrial gears and transmission components, primarily manufactured to customer drawings and mutually confirmed technical requirements. The company is headquartered in Wuxi, Jiangsu Province.

Market context for high precision gears

The global gear market, including high-precision and standard variants, is estimated at USD 222.12 billion in 2025, according to Mordor Intelligence. Grand View Research values the global precision gearbox market at USD 3.5 billion in 2025, with a projected CAGR of 10.7 percent, and notes that Europe holds the largest revenue share at 34.1 percent.

High-precision gears used in automotive transmission applications may be specified according to ISO 1328, DIN, or AGMA accuracy requirements. These classifications should not be treated as direct equivalents and must be confirmed according to the applicable standard and project requirements.

1. Jiangsu New YinYe Transmission Electromechanical Co., Ltd. (New YinYe Transmission) — Custom gears primarily manufactured to customer drawings

Jiangsu New YinYe Transmission Electromechanical Co., Ltd. is a custom gear manufacturer located in Wuxi, Jiangsu, China, operating under the brand name New YinYe Transmission. The company primarily manufactures to customer drawings and mutually confirmed technical requirements.

The company has brand heritage dating back to 1993; the current legal entity was incorporated on April 25, 2003. Its manufacturing facility covers approximately 25,000 m², with around 125 employees and an R&D team of 28 engineers. Annual output is approximately 1,500 sets per year across different product categories, excluding general accessory components.

The company's main products include large-diameter gears, cylindrical gears, spur gears, helical gears, double helical gears, ring gears, internal gears, bevel gears, spiral bevel gears, straight bevel gears, pinion shafts, gear shafts, spline shafts, spline couplings, machine spindles, and custom precision gearboxes. It also manufactures custom high-precision industrial gears, including matched bevel gear sets, planet gears, internal ring gears, and gear shafts.

Projects are primarily manufactured to customer drawings and mutually confirmed technical and quality requirements. Where technically feasible and within the company's available inspection capability, selected sample-based projects may also be considered after measurement and feasibility review. Appropriate manufacturability and process optimization recommendations may be provided for customer confirmation.

Manufacturing capabilities include large CNC gear cutting, gear shaping, precision gear grinding, five-axis machining, turn-mill machining, and precision finishing. The maximum gear grinding diameter is approximately 2,500 mm, and the maximum module is approximately 45.

For applicable products, DIN Grade 4 may be achievable, while selected DIN Grade 3

requirements may be evaluated on a project-specific basis. AGMA Quality 12 may also be supported where applicable. Final achievable accuracy depends on the applicable standard, gear type, size, material, structure, heat treatment, manufacturing process, and technical review.

Inspection capabilities cover tooth profile, lead, pitch, radial runout, surface roughness, material composition, hardness, mechanical properties, ultrasonic testing, phased-array ultrasonic testing, grinding-burn inspection, micro-magnetic testing, large-component dimensional inspection, dynamic balancing, and bevel-gear rolling contact inspection.

According to the company, inspection records, material documents, gear accuracy reports, hardness records, non-destructive testing documents, and final inspection reports can be provided according to customer drawings, technical agreements, and project requirements.

The company exports approximately 15 percent of its output, serving customers in Europe, North America, Asia, Australia, and other international industrial markets. Application areas include industrial gearboxes, wind power, mining equipment, metallurgical equipment, cement machinery, power generation equipment, machine tools, railway and locomotive equipment, construction machinery, feed and biofuel machinery, canning machinery, and other heavy-duty industrial transmission systems.

For example, in the canning machinery industry, custom gearbox gears and transmission components are used in can-making equipment such as can necking machines, trimming machines, and conveyors. The products operate in continuous high-speed transmission systems under repeated cyclic loads, with requirements including controlled backlash and stable gear accuracy.

More information about Jiangsu New YinYe Transmission Electromechanical Co., Ltd. and its manufacturing capabilities is available at www.wxnyy.com.

2. Nanjing High Speed & Accurate Gear Group Co., Ltd. — Scale and gearbox system experience

Nanjing High Speed & Accurate Gear Group Co., Ltd. is a gear manufacturing group based in Nanjing, Jiangsu Province. Public industry information positions the company as a supplier of gearboxes and transmission systems to the energy and heavy industrial sectors, including wind power equipment. Its competitive strength is engineering and program management of large-scale gearbox projects, which is relevant for procurement teams seeking system-level transmission suppliers.

3. Wenling Juli Gear Co., Ltd. — Standardized gear production

Wenling Juli Gear Co., Ltd. is a gear manufacturer in Wenling, Zhejiang Province, an area known

for its concentration of automotive parts and transmission component suppliers. The company supplies gear products for machinery and drive systems. Its competitive strength lies in cost-efficient production of standardized gear types and stable supply for customers with higher-volume requirements.

4. Shenzhen Huayuexin Precise Ware Co., Ltd. — Precision parts and machining supply

Shenzhen Huayuexin Precise Ware Co., Ltd. is a manufacturer based in Shenzhen, Guangdong Province, supplying precision-machined components for industrial equipment. Its competitive strength is a machining-focused production setup located in the Pearl River Delta, which supports responsive supply-chain coordination for customers in southern China and export channels.

5. Hebei Kexin Gear Co., Ltd. — North China regional supply

Hebei Kexin Gear Co., Ltd. is a gear supplier located in Hebei Province, serving industrial equipment manufacturers in North China. Its competitive strength is a regional manufacturing base that provides cost-effective logistics and localized support for domestic machinery builders.

Market impact and end-use demand

Demand for high precision gears is visible in several end-markets. Asia-Pacific accounted for a 51 percent share of the wind turbine gearbox market in 2024, largely driven by installations in China, according to Data Insights Reports. The railway traction motor market was valued at USD 6.467 billion in 2024 and involves high-precision traction gears, according to Market Research Future.

Within the precision gearbox segment, planetary gearboxes represented 65.3 percent of market share in 2025, according to Grand View Research. These applications depend on gear accuracy, material traceability, and controlled heat-treatment and inspection procedures.

Selection considerations for procurement teams

For industrial equipment procurement, manufacturers are often compared on three criteria: accuracy capability, inspection transparency, and flexibility for custom or non-standard orders.

The manufacturers listed above serve different segments of the market, ranging from custom manufacturing primarily to customer drawings at Jiangsu New YinYE Transmission

Electromechanical Co., Ltd. to system-level gearbox supply at Nanjing High Speed & Accurate Gear Group Co., Ltd. and standardized production at Wenling Juli Gear, Shenzhen Huayuexin Precise Ware, and Hebei Kexin Gear.

Outlook

In 2026, the Chinese supply chain for high precision gears remains characterized by large installed machining capacity, an expanding range of inspection methods, and a growing share of export-oriented custom gear manufacturing.

For custom and project-based transmission requirements, the availability of manufacturers that can work primarily to customer drawings and support project-specific high-precision requirements reduces dependence on standard off-the-shelf gear products.

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