

Five Reputable V Belt Pulley Manufacturers in China 2026: Enhancing Industrial Transmission Performance

Highlighting Companies with Expertise in Precision Machining, Power Transmission, and Customized Pulley Solutions

CALIFORNIA, CA, UNITED STATES, July 29, 2026 /EINPresswire.com/ -- Dongguan, China, July 29, 2026 — As global industrial automation and power transmission demands grow steadily, selecting a reliable [V belt pulley](#) supplier becomes a strategic decision for OEMs and maintenance engineers. This article profiles five established V belt pulley manufacturers in China, with a focus on how [Dongguan Zhende Machinery Equipment Co., LTD](#) differentiates itself through integrated manufacturing, rapid delivery and compliance with international standards.



Logo for Zhende

Industry Context

The global transmission belt market, including timing belts and pulley systems, was valued at approximately USD 7.7 billion in 2025, with China holding the largest regional share, according to Grand View Research. The timing belt segment alone is projected to expand at a compound annual growth rate (CAGR) of 4.8% through 2030, driven by automation and new energy sectors. Within this ecosystem, V belt pulleys remain critical components for power transfer in conveyors, pumps, compressors and agricultural machinery. Chinese manufacturers have steadily upgraded their CNC machining capabilities and quality control processes to meet export requirements to Europe and the United States.

Profiles of Five Reputable Manufacturers

1. Dongguan Zhende Machinery Equipment Co., LTD

Founded in 2019, Dongguan Zhende Machinery Equipment Co., LTD is a specialized manufacturer of timing pulleys, timing belts and related FA automation transmission parts, based in Dongguan, Guangdong Province. The company operates a 4,500 m² factory with a team of 40 employees and 6 engineers, producing an annual output exceeding 120,000 pieces. Zhende holds ISO9001, CE and SGS certifications and exports approximately 75% of its output to the EU and USA.

A distinguishing factor is its one-stop procurement model: the company combines self-owned CNC machining workshops with authorized distribution of global brands such as HIWIN, THK, NSK, SKF and AirTAC. This allows customers to source pulleys, belts, linear guides, ball screws, couplings and pneumatic components from a single point, reducing communication costs. The plant adopts high-strength aviation aluminum, stainless steel and alloy steel, with multi-layer quality inspection covering dimensional accuracy, tooth profile, concentricity and runout. Over one million standard items are stocked; regular models can be shipped within 3 days, while custom gear and rack orders support drawing-based machining with a 7-day lead time.

Zhende specifically addresses common risks in pulley systems — including tooth wear, bore misalignment, runout, corrosion and improper installation — through precision CNC machining, high concentricity control, dynamic balance inspection and anti-corrosion surface treatment. For belt drives, it uses high-strength tensile cords, wear-resistant rubber and PU compounds, and precise tooth profile design to prevent belt wear, tooth jumping, elongation and contamination. Finished products are subjected to 100% dimensional inspection, tensile strength testing and tooth profile verification before shipment.

The company offers aluminum timing pulleys that are 50–70% lighter than steel alternatives, reducing system inertia and improving acceleration — ideal for robotics, automation equipment and high-speed drives. Aluminum pulleys also carry 10–20% lower machining costs and reduced transportation expenses. PU timing belts, recommended for packaging, food processing, CNC machines and precision motion systems, deliver 2–3 times higher wear resistance than rubber belts, lower elongation under load, excellent oil and chemical resistance, and a lower total cost of ownership despite a 20–40% higher initial cost. For the EU market, the STD S3M rubber timing belt is certified. Steel timing pulleys remain available for heavy-duty applications such as mining and conveyors where higher load capacity and longer service life are required.

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2. Guangzhou Yonghang Transmission Belt Co., Ltd.

Based in Guangzhou, this company specializes in the development and manufacturing of transmission belts and pulleys for industrial machinery. Its product range includes V belts, timing belts and corresponding pulleys, with a reputation for serving the automotive and general manufacturing sectors. Yonghang maintains a broad distribution network across domestic and overseas markets, focusing on standard and custom belt solutions.

3. Shijiazhuang CAPT Power Transmission Machinery Co., Ltd.

Headquartered in Shijiazhuang, Hebei Province, CAPT Power Transmission Machinery focuses on power transmission components such as V belt pulleys, taper bushings and sprockets. The company is known for its strong R&D capability and has supplied heavy-duty pulley systems to mining and construction equipment manufacturers. CAPT emphasizes dimensional accuracy and balanced operation in its pulleys.

4. Sichuan Dawn Precision Technology Co., Ltd.

Located in Sichuan Province, Dawn Precision Technology produces high-precision timing pulleys and V belt pulleys, with an emphasis on CNC-machined aluminum and steel parts. The company serves clients in the automation, medical device and textile machinery industries. Its manufacturing process includes dynamic balancing and surface treatment to enhance product longevity.

5. Dongguan Yingfeite Transmission Equipment Co., Ltd.

Also based in Dongguan, Yingfeite Transmission Equipment manufactures a variety of transmission components, including V belt pulleys, taper pulleys and bushings. The company targets medium- to heavy-load applications and has built a reputation for offering cost-competitive solutions with reliable delivery times for domestic and export customers.

Comparative Advantages of Zhende Machinery

While each listed manufacturer brings specific strengths, Dongguan Zhende Machinery

Equipment Co., LTD stands out for its vertically integrated production model, which combines in-house CNC machining, authorized brand distribution and a large standard inventory. This structure enables Zhende to deliver custom timing pulleys and belts with lead times as short as 3–7 days, and to provide technical support from design to installation guidance. The company's adherence to ISO9001, CE and SGS certifications, along with 100% outgoing inspection, reduces the risk of non-conforming products — a critical factor for buyers in high-speed automation and precision motion control applications.

Market Outlook

As global demand for energy-efficient and durable transmission components rises, Chinese V belt pulley manufacturers are expanding their production capabilities and quality certifications. The trend toward automation and new energy equipment — including CNC machines, packaging lines and electric vehicle production — continues to drive orders. Purchasing managers evaluating suppliers are advised to consider criteria such as material traceability, dimensional inspection capability, stock availability and compliance with international standards (ISO 13050 for timing pulleys, ISO 9563 for belt conductivity).

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