

Global Fixed Tightening Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Fixed Tightening Machine market size is expected to reach \$ 1219 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

Fixed tightening machines are core equipment on industrial automated assembly lines used to perform high-precision, highly repetitive bolt connection operations. Fixed tightening machines are typically mounted on robots, shaft systems, or fixed supports, and, in conjunction with automated feeding systems, can automatically complete the feeding and tightening of fasteners in a short time. They are widely used in fields with extremely high requirements for connection reliability, such as automotive powertrains, chassis, bodies, aerospace structural components, and heavy machinery assembly.

In terms of system composition, a fixed tightening machine typically consists of a servo motor, controller, torque sensor, tightening spindle, and support, with programmable control over tightening torque and angle. The system utilizes integrated visual guidance and error-proofing mechanisms to achieve workpiece identification, tool matching, and tightening sequence management; the data acquisition module can record the torque-angle curve of each bolt in real time, supporting full-process quality traceability.

In 2025, global Fixed Tightening Machine sale reached approximately 263 K Units, with an average global market price of around 2,850 US\$/Unit. Production capacity reached 850 K Units, with a gross profit margin of approximately 39%.

The increasing demands for consistency and production records in critical connections for new energy vehicle batteries, automotive chassis and powertrains, aerospace structural components, electronic equipment, and medical devices have upgraded the tightening process from a final mechanical action to a manufacturing quality control

node. Products such as battery modules require consistent clamping at different connection points. Multi-axis synchronous tightening can reduce the risks of uneven stress, deformation, and rework in components. The development of industrial digital threads demands continuous flow of design parameters, process procedures, tightening curves, and inspection results within the manufacturing system, creating higher value for networked fixed tightening equipment. Market challenges are equally prominent: thread friction, part tolerances, and material variations can affect clamping performance; automated feeding may be affected by irregularly shaped fasteners, contamination, and material mixing; and multi-variety production requires rapid changeover. Equipment suppliers must simultaneously address mechanical integration, process verification, metrological calibration, network communication, functional safety, and long-term maintenance issues. The performance of a single tool is no longer sufficient to determine project success or failure.

The global competitive landscape is shifting from competition in tool manufacturing to competition in system capabilities. Bosch Rexroth, Atlas Copco & Desoutter, and Ingersoll Rand leverage their tightening shafts, controllers, software, quality management, and global service systems to provide complete solutions for safety-critical workstations. WEBER and DEPRAG have differentiated themselves in automated screw feeding, screw handling, customized actuators, and robot integration. Dai-ichi Dentsu and ESTIC excel in servo tightening, specialized automated machines, and precision assembly. Chinese suppliers are continuously improving their product portfolios by focusing on localized software interfaces, rapid delivery, automated material feeding, non-standard tooling, and production line upgrades. The focus of competition has shifted from torque accuracy and speed to complex joint recognition, multi-axis synchronous control, anomaly prevention, curve analysis, equipment health diagnostics, and cross-brand system compatibility. Companies with access to process databases, field application engineers, metrology and calibration capabilities, and continuous service networks have an easier time entering supply chains with long validation cycles, such as those in the automotive and battery industries.

This report studies the global Fixed Tightening Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fixed Tightening Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Fixed Tightening Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Fixed Tightening Machine total production and demand, 2021-2032, (K Units)

Global Fixed Tightening Machine total production value, 2021-2032, (USD Million)

Global Fixed Tightening Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Fixed Tightening Machine consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Fixed Tightening Machine domestic production, consumption, key domestic manufacturers and share

Global Fixed Tightening Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Fixed Tightening Machine production by Torque Range, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Fixed Tightening Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Fixed Tightening Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Bosch Rexroth, Atlas Copco (Desoutter), WEBER GmbH, Deprag GmbH, SETech, Cooper Industries, Ingersoll Rand, Dai-ichi Dentsu, ESTIC Corporation, Yokota Industrial, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Fixed Tightening Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Torque Range, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Fixed Tightening Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Fixed Tightening Machine Market, Segmentation by Torque Range:

Below 100Nm

100-200Nm

Above 200Nm

Global Fixed Tightening Machine Market, Segmentation by Type:

Handheld Type

Multi-head Rotary Type

Online Type

Robotic Type

Global Fixed Tightening Machine Market, Segmentation by Product Speed:

Below 1000rpm

1000-2000rpm

Above 2000rpm

Global Fixed Tightening Machine Market, Segmentation by Application:

Automobile Manufacturing

Aerospace

3C Electronics

New Energy

Home Appliance

Others

Companies Profiled:

Bosch Rexroth

Atlas Copco (Desoutter)

WEBER GmbH

Deprag GmbH

SETech

Cooper Industries

Ingersoll Rand

Dai-ichi Dentsu

ESTIC Corporation

Yokota Industrial

Shanghai Leetx

Guangdong SUDONG Smart Tightening Technology

Shenzhen Jianfeng Electronics

Wuxi Danikor Automation Technology

Best (Suzhou) Technology

Dalian Dexin Group

Dalian Jiahe Automatic Control Technology

Wuxi Cexcel Intelligent Technology

Saiyasi Technology

Beijing Liyou Technology

Key Questions Answered:

1. How big is the global Fixed Tightening Machine market?
2. What is the demand of the global Fixed Tightening Machine market?
3. What is the year over year growth of the global Fixed Tightening Machine market?
4. What is the production and production value of the global Fixed Tightening Machine market?
5. Who are the key producers in the global Fixed Tightening Machine market?
6. What are the growth factors driving the market demand?

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