

Global Intelligent Fastening Tools Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Intelligent Fastening Tools market size is expected to reach \$ 1256 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of smart fastening tools reached 580,300 units, with an average selling price of \$1,464 per unit. The global annual production capacity for smart fastening tools stands at approximately 800,000 units, with a gross margin of approximately 23.5%. Smart fastening tools are modern fastening devices that build upon traditional manual or electric fastening tools by incorporating sensing, control, data acquisition, and communication capabilities. Their objective is to enhance the accuracy, consistency, and traceability of connections involving fasteners such as bolts and nuts. The upstream segment of the smart fastening tool industry includes components such as motors (including brushless motors), LED lighting, and high-precision torque sensors. The midstream segment consists of smart fastening tool manufacturers, while the downstream segment primarily serves industries such as automotive, general manufacturing, and aerospace.

The current market for smart fastening tools is in a critical growth phase, transitioning from traditional assembly methods to digitized assembly processes. The overall competitive landscape remains relatively fragmented; international brands dominate the high-end segment by leveraging their technological advantages, while domestic enterprises are currently in a catch-up and strategic positioning phase. Driven by the smart manufacturing upgrades in downstream industries—such as automotive manufacturing, new energy batteries, and 3C electronics—market demand for smart tightening tools featuring high-precision torque control, data traceability, and adaptive adjustment capabilities continues to surge. Although the industry faces challenges such

as fluctuating raw material costs and a shortage of technical talent, it is exhibiting a distinct trend of transitioning from traditional pneumatic systems to highly efficient electric architectures. Concurrently, system-level solutions that incorporate full-lifecycle data management capabilities are gradually displacing the mere sale of standalone tools, emerging as the dominant competitive arena.

This report studies the global Intelligent Fastening Tools production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Intelligent Fastening Tools 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 Intelligent Fastening Tools that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Intelligent Fastening Tools total production and demand, 2021-2032, (K Units)

Global Intelligent Fastening Tools total production value, 2021-2032, (USD Million)

Global Intelligent Fastening Tools production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Intelligent Fastening Tools consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Intelligent Fastening Tools domestic production, consumption, key domestic manufacturers and share

Global Intelligent Fastening Tools production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Intelligent Fastening Tools production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Intelligent Fastening Tools production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Intelligent Fastening Tools 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 Ingersoll Rand, Atlas Copco (with Desoutter), Kilews, Conos, Nitto Kohki, Hios, Cleco, Delta Regis, Hayashi-Repic, Kolver, 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 Intelligent Fastening Tools 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 Type, 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 Intelligent Fastening Tools Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Intelligent Fastening Tools Market, Segmentation by Type:

Machine-mounted

Handheld

Global Intelligent Fastening Tools Market, Segmentation by Level of Intelligence:

Basic Intelligent Tools

Advanced Intelligent Tools

Global Intelligent Fastening Tools Market, Segmentation by Torque Range:

Micro-Torque Type (250 N·m)

Global Intelligent Fastening Tools Market, Segmentation by Application:

Automotive

General Manufacturing

Aerospace

Electronics

Others

Companies Profiled:

Ingersoll Rand

Atlas Copco (with Desoutter)

Kilews

Conos

Nitto Kohki

Hios

Cleco

Delta Regis

Hayashi-Repic

Kolver

Doga

ASG Jergens

ASA

Anlidar

Hantas

Bosch Rexroth

Liyoutec

AND Eengineering

Shenzhen SSIV

Shenzhen JOFR

Wuxi Danikor

Key Questions Answered:

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

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