

Global Fastener Production Process Monitoring System Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Fastener Production Process Monitoring System market size was valued at US\$ 545 million in 2025 and is forecast to a readjusted size of US\$ 1011 million by 2032 with a CAGR of 9.2% during review period.

Fastener production process monitoring systems are intelligent production management platforms for manufacturers of bolts, nuts, screws, and irregularly shaped fasteners. By integrating sensors, machine vision, industrial controllers, data acquisition terminals, and MES software, they achieve real-time monitoring, quality traceability, equipment status management, and process parameter analysis of production processes such as cold heading, thread rolling, heat treatment, surface treatment, inspection, and packaging. This improves product consistency, reduces defect rates, and optimizes production efficiency. The system is widely used in the manufacturing of automotive fasteners, aerospace fasteners, building fasteners, electronic fasteners, and industrial standard parts.

Its upstream mainly involves industrial sensors, PLC controllers, industrial cameras, edge computing devices, communication modules, servers, and industrial software developers; its downstream mainly supplies fastener manufacturers, smart factory integrators, and industrial automation solution providers. With the continuous advancement of Industry 4.0, intelligent manufacturing, and the construction of quality traceability systems, the fastener industry's demand for digital management and online quality control continues to grow. Future products will develop towards AI defect recognition, digital twin factories, cloud data analysis, predictive maintenance, and closed-loop quality management throughout the entire process. Meanwhile, the

expansion of new energy vehicles, high-end equipment manufacturing, and the aerospace industry will bring broad market opportunities to the industry.

This report is a detailed and comprehensive analysis for global Fastener Production Process Monitoring System market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Fastener Production Process Monitoring System market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Fastener Production Process Monitoring System market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Fastener Production Process Monitoring System market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Fastener Production Process Monitoring System market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Fastener Production Process Monitoring System

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Fastener Production Process Monitoring System market based on the following parameters - company overview, revenue, gross

margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Sherex Fastening, Kistler, Marposs, ARNOLD UMFORMTECHNIK, Cinco Industries, Keyence, Desoutter, HONSEL, GESIPA, Yamanaka Eng, etc.

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

Market segmentation

Fastener Production Process Monitoring System market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Fastener Forming Process Monitoring

- Fastener Assembly Process Monitoring

Market segment by Technology

- Online Sensor Monitoring

- Machine Vision Inspection

- Laser Measurement and Inspection

- Others

Market segment by Sampling Frequency

- Sampling Frequency: 100-200Hz

- Sampling Frequency: 500Hz+

Market segment by Application

Automotive

Aerospace

Electronics

Others

Market segment by players, this report covers

Sherex Fastening

Kistler

Marposs

ARNOLD UMFORMTECHNIK

Cinco Industries

Keyence

Desoutter

HONSEL

GESIPA

Yamanaka Eng

Sumake

Strainlabs

Bradken

ME Elecmetal

Vorne Industries

Oetiker

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Fastener Production Process Monitoring System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Fastener Production Process Monitoring System, with revenue, gross margin, and global market share of Fastener Production Process Monitoring System from 2021 to 2026.

Chapter 3, the Fastener Production Process Monitoring System competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Fastener Production Process Monitoring System market forecast, by

regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Fastener Production Process Monitoring System.

Chapter 13, to describe Fastener Production Process Monitoring System research findings and conclusion.

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