

Global Solder-Free Pin Insertion Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Solder-Free Pin Insertion Machine market size was valued at US\$ 242 million in 2025 and is forecast to a readjusted size of US\$ 368 million by 2032 with a CAGR of 6.2% during review period.

The solderless pin insertion machine is an automated device used to precisely assemble pins into connectors without the need for a traditional soldering process. This type of equipment automatically completes the insertion, positioning and fixing of pins through mechanical, pneumatic or electric technology, and is widely used in connector production in the electronics, automotive, communications, medical and other industries. The solderless pin insertion machine improves production efficiency and assembly accuracy, and reduces manual intervention and the complexity of the soldering process.

The solderless pin insertion machine industry chain can be divided into three segments: upstream core components and basic materials, midstream complete machine manufacturing, and downstream applications and services. The upstream mainly includes high-precision servo motors and drivers, motion control systems, vision recognition systems, pneumatic and transmission components, precision modules, industrial cameras, and control software, with some key components still relying on imported brands. The midstream consists of complete solderless pin insertion machine manufacturers, responsible for equipment structure design, automation integration, process parameter optimization, and complete machine assembly. Their core capabilities lie in pin insertion accuracy, stability, cycle time efficiency, and compatibility with different connector specifications. Downstream applications are concentrated in

connector manufacturing, wire harness processing, consumer electronics, automotive electronics, communication equipment, industrial control, and new energy fields. Customers typically use these machines in conjunction with automated production lines and have high requirements for equipment yield, continuous operation capability, and after-sales technical support.

In 2025, the average price of a solderless pin insertion machine was \$8,500 per unit, with sales of 27,647 units, a total production capacity of 39,000 units, and a gross profit margin of approximately 35%.

Solderless pin insertion machines represent an important advancement in modern manufacturing technology, addressing the limitations of traditional soldering methods through automation and high-precision assembly. The advantage is that they significantly improve production efficiency and assembly quality while reducing reliance on manual operations and the associated error rate. In applications in industries such as electronics, automotive, and medical, solderless pin insertion machines not only shorten production cycles, but also improve connector reliability, driving technological progress and meeting market demand. Through continuous technological innovation, these devices are constantly adapting to more complex production needs and becoming an indispensable tool in modern manufacturing.

This report is a detailed and comprehensive analysis for global Solder-Free Pin Insertion Machine market. Both quantitative and qualitative analyses are presented by manufacturers, 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 Solder-Free Pin Insertion Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solder-Free Pin Insertion Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solder-Free Pin Insertion Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Solder-Free Pin Insertion Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 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 Solder-Free Pin Insertion Machine

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 Solder-Free Pin Insertion Machine market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include JMT, Hirose Electric, TE Connectivity, Molex, Amphenol, Schunk, FANUC, Mycronic, KUKA, etc.

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

Market Segmentation

Solder-Free Pin Insertion Machine 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 in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Fully Automatic

Semi-Automatic

Others

Market segment by Pin Insertion Process

Press-In Solderless Pin Insertion Machine

Cold Insertion Solderless Pin Insertion Machine

Market segment by Structure

Vertical Solderless Pin Insertion Machine

Horizontal Solderless Pin Insertion Machine

Gantry Type Solderless Pin Insertion Machine

Market segment by Application

Automotive Industry

Electrical Industry

Aerospace Industry

Medical Industry

Others

Major players covered

JMT

Hirose Electric

TE Connectivity

Molex

Amphenol

Schunk

FANUC

Mycronic

KUKA

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Solder-Free Pin Insertion Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Solder-Free Pin Insertion Machine, with price, sales quantity, revenue, and global market share of Solder-Free Pin Insertion Machine from 2021 to 2026.

Chapter 3, the Solder-Free Pin Insertion Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Solder-Free Pin Insertion Machine breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Solder-Free Pin Insertion Machine market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Solder-Free Pin Insertion Machine.

Chapter 14 and 15, to describe Solder-Free Pin Insertion Machine sales channel, distributors, customers, research findings and conclusion.

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