

# Global Semiconductor Molding Systems Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Semiconductor Molding Systems market size is expected to reach \$ 705 million by 2032, rising at a market growth of 6.4% CAGR during the forecast period (2026-2032).

The semiconductor production process consists of wafer manufacturing, wafer testing, chip packaging and testing. Packaging refers to cutting, wire bonding, molding, trim & forming the wafer after production and processing, so that the integrated circuit can achieve electrical and signal connections with external devices while providing physical and chemical protection for the integrated circuit. Molding refers to a plastic molding process in which packaging materials such as epoxy resin mixture are injected into the mold cavity at a certain temperature and pressure, and the devices that need to be protected, such as chips, are wrapped in the plastic, and then solidified into a whole body.

The roles of Molding products in semiconductor packaging are as follows:

1. Protective effect. Exposed semiconductor chips will not fail under strict environmental control, but the daily environment does not have the required environmental control conditions at all, so the chips need to be protected by packaging.
2. Supporting effect. The support has two functions. One is to support the chip, which is to fix the chip to facilitate circuit connection. The other is to form a certain shape to support the entire device after the packaging is completed, making the entire device less likely to be damaged.
3. Connection function. The function of the connection is to connect the electrodes of the chip to the external circuit, the pin is used to connect the external circuit, and the gold wire connects the pin to the circuit of the chip. The carrier stage is used to carry the chip, the epoxy resin adhesive is used to stick the chip on the carrier stage, the pins are used to support the entire device, and the plastic package plays a role in fixing and protecting it.

4. Ensure reliability. Any packaging needs to have a certain degree of reliability, which is the most important metric in the entire packaging process.

Semiconductor packaging equipment plays a vital role in the semiconductor manufacturing process, especially in the plastic encapsulation process, which ensures that the chip is protected, the electrical connection with the external circuit board is stable, and the mechanical stability is enhanced.

Plastic encapsulation refers to the process of injecting encapsulation materials (such as epoxy resin mixtures) into the mold cavity at a certain temperature and pressure, wrapping the chip and other devices that need to be protected in the plastic encapsulation material, and then curing them into a whole.

The degree of automation of semiconductor plastic encapsulation machines determines the cost of the entire encapsulation process, such as labor costs, packaging raw material costs, etc. The price difference between different products is very large, mainly depending on the number of presses. The more presses, the more expensive the price. In various regions of the world, the production areas of semiconductor plastic encapsulation systems are mainly distributed in Japan and China, with Japan occupying most of the market share. There is still a certain gap between Chinese plastic encapsulation machines and international leading companies (such as TOWA) in terms of product performance and packaging technology. However, as Chinese companies have made continuous breakthroughs in product development technology in recent years, some companies have also occupied a certain market share in the advanced packaging market, such as HIIG Trinity (Anhui) Technology.

This report studies the global Semiconductor Molding Systems production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Semiconductor Molding Systems 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 Semiconductor Molding Systems that contribute to its increasing demand across many markets.

#### **Highlights and key features of the study**

Global Semiconductor Molding Systems total production and demand, 2021-2032, (Units)

Global Semiconductor Molding Systems total production value, 2021-2032, (USD Million)

Global Semiconductor Molding Systems production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Semiconductor Molding Systems consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Semiconductor Molding Systems domestic production, consumption,

key domestic manufacturers and share

Global Semiconductor Molding Systems production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Semiconductor Molding Systems production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Semiconductor Molding Systems production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Semiconductor Molding Systems 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 Towa, Besi, ASMPT, I-PEX Inc, HIIG Trinity (Anhui) Technology, Shanghai Xinsheng, Mtex Matsumura, Asahi Engineering, Nextool Technology Co., Ltd., APIC YAMADA, 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 Semiconductor Molding Systems market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K 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 Semiconductor Molding Systems Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Semiconductor Molding Systems Market, Segmentation by Type:

Fully Automatic Molding System

Semi-automatic Molding System

Manual Molding System

Global Semiconductor Molding Systems Market, Segmentation by Application:

Advanced Packaging

Traditional Packaging

**Companies Profiled:**

Towa

Besi

ASMPT

I-PEX Inc

HIIG Trinity (Anhui) Technology

Shanghai Xinsheng

Mtex Matsumura

Asahi Engineering

Nextool Technology Co., Ltd.

APIC YAMADA

Suzhou Bopai Semiconductor (Boschman)

Suzhou Saiken Intelligent Technology

Jiangsu Guoxin Intelligent Equipment Co., Ltd

Dongguan Huayue Semiconductor Technology

GALLANT Micro Machining Co., Ltd.

M-Fine Technology (Shanghai) Co., Ltd

Wuxi G-chp Semicondutor Technology

Guangdong Taijin Semiconductor Technology Co., Ltd

**Key Questions Answered:**

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

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