

Global Power Module Assembly Systems Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Power Module Assembly Systems market size was valued at US\$ 874 million in 2024 and is forecast to a readjusted size of USD 1278 million by 2031 with a CAGR of 6.1% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

A Power Module Assembly System is an integrated manufacturing setup designed to assemble semiconductor power modules, which are crucial components in power electronics used for controlling and converting electrical energy in devices such as electric vehicles, renewable energy systems, industrial drives, and consumer electronics. This system typically includes automated machines and stations for die attach, wire bonding, soldering, encapsulation, inspection, and testing of power semiconductor devices such as IGBTs, MOSFETs, or SiC/GaN chips mounted onto substrates or baseplates. The goal of a power module assembly system is to ensure high reliability, thermal performance, electrical efficiency, and consistent quality in high-volume production environments.

A Power Module Assembly System is characterized by key parameters that ensure precision, speed, and reliability during the manufacturing of high-performance power modules. Typical systems offer die placement accuracy of $\pm 2\text{--}10\ \mu\text{m}$, bonding forces ranging from 10–500 N, and wire bonding speeds up to 10 wires per second with wire diameters from 17–500 μm . Sintering and reflow units may support temperatures up to

500°C and pressures up to 50 MPa in vacuum or controlled atmospheres, while encapsulation systems operate at mold pressures up to 100 MPa and temperatures around 160–200°C. Inspection modules feature high-resolution X-ray (sub-micron) and high-voltage test capabilities up to 5 kV. These systems accommodate substrate sizes typically up to 100 ? 100 mm or larger, ensuring compatibility with IGBT, SiC, and GaN modules used in EVs, renewable energy, industrial drives, and aerospace.

This report is a detailed and comprehensive analysis for global Power Module Assembly Systems 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 Power Module Assembly Systems market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Power Module Assembly Systems market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Power Module Assembly Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Power Module Assembly Systems market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Power Module Assembly Systems

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 Power Module Assembly Systems 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 ASMPT, Kulicke & Soffa, Palomar Technologies, Hesse, Boschman, Strama Group, Toray Engineering, SHINKAWA, BE Semiconductor, Mitsubishi Electric, etc.

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

Market Segmentation

Power Module Assembly Systems market is split by Type and by Application. For the period 2020-2031, 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

Die Attach Systems

Wire Bonding Systems

Molding Systems

Sintering Systems

Others

Market segment by Application

Electric Vehicles

Renewable Energy Systems

Industrial Automation

Data Centers

Others

Major players covered

ASMPT

Kulicke & Soffa

Palomar Technologies

Hesse

Boschman

Strama Group

Toray Engineering

SHINKAWA

BE Semiconductor

Mitsubishi Electric

TPT Wire Bonder

ASM International

Micro Assembly Technologies

TOWA Corporation

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 Power Module Assembly Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Power Module Assembly Systems, with price, sales quantity, revenue, and global market share of Power Module Assembly Systems from 2020 to 2025.

Chapter 3, the Power Module Assembly Systems competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Power Module Assembly Systems breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Power Module Assembly Systems market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Power Module Assembly Systems.

Chapter 14 and 15, to describe Power Module Assembly Systems sales channel, distributors, customers, research findings and conclusion.

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