

# Global Thermocompression Bonding Equipment 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 Thermocompression Bonding Equipment market size was valued at US\$ 595 million in 2024 and is forecast to a readjusted size of USD 952 million by 2031 with a CAGR of 7.4% 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.

Thermocompression Bonding Equipment refers to specialized machinery used to join two materials—typically semiconductor wafers, dies, or substrates—by applying simultaneous heat and pressure in a controlled environment. This process, also known as thermocompression welding or thermo-compression bonding, is widely employed in advanced microelectronic packaging, such as in 3D integrated circuits (3D ICs), MEMS, and flip-chip bonding. The equipment typically includes high-precision alignment systems, temperature-controlled bonding heads, and force application units, ensuring atomic-level bonding between metallic or semiconductor interfaces (e.g., gold-to-gold, copper-to-copper, or hybrid structures). This method enables high interconnect density and strong mechanical and electrical performance with minimal interlayer contamination or voids.

Thermocompression Bonding Equipment typically features a bonding force range from 1 N to 5000 N, bonding temperatures between 100°C and 500°C, and temperature uniformity within  $\pm 1$ – $2^\circ\text{C}$ . These systems offer high alignment accuracy, often reaching  $\pm 0.2\ \mu\text{m}$  to  $\pm 1\ \mu\text{m}$ , with precise Z-axis control ( $\approx 0.1\ \mu\text{m}$ ) to ensure consistent bond line

thickness. Bonding areas can vary from small dies (~0.5 mm?) to full wafers up to 300 mm, and bonding times range from under a second to several minutes depending on materials and process. Advanced units may operate under controlled atmospheres like vacuum or nitrogen and are equipped with optical alignment, force feedback, and automated pick-and-place systems for high-throughput applications.

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

Global Thermocompression Bonding Equipment 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 Thermocompression Bonding Equipment 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 Thermocompression Bonding Equipment 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 Thermocompression Bonding Equipment

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 Thermocompression Bonding Equipment 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 EV Group, S?SS MicroTec, ASMPT, Kulicke & Soffa, Shibaura Mechatronics, Toray Industries, Panasonic Connect, Strama Group, Palomar Technologies, Finetech, etc.

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

## **Market Segmentation**

Thermocompression Bonding Equipment 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-to-Die (D2D)

Die-to-Wafer (D2W)

Wafer-to-Wafer (W2W)

### Market segment by Application

MEMS Manufacturing

Semiconductor Packaging

Consumer Electronics

Automotive Electronics

Medical Devices

Others

#### Major players covered

EV Group

S?SS MicroTec

ASMPT

Kulicke & Soffa

Shibaura Mechatronics

Toray Industries

Panasonic Connect

Strama Group

Palomar Technologies

Finetech

Intevac

Applied Microengineering

TPT Wire Bonder

APIC Yamada

MRSI Systems

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 Thermocompression Bonding Equipment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermocompression Bonding Equipment, with price, sales quantity, revenue, and global market share of Thermocompression Bonding Equipment from 2020 to 2025.

Chapter 3, the Thermocompression Bonding Equipment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermocompression Bonding Equipment 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 Thermocompression Bonding Equipment 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 Thermocompression Bonding Equipment.

Chapter 14 and 15, to describe Thermocompression Bonding Equipment sales channel, distributors, customers, research findings and conclusion.

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