

Global Flip Chip Bonder Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Flip Chip Bonder market size was valued at USD 298.4 million in 2023 and is forecast to a readjusted size of USD 323.2 million by 2030 with a CAGR of 1.1% during review period.

Flip chip is a method used for components or devices that can be bonded directly onto a substrate, board or carrier face-down. The connection is made through conductive bumps placed on the surface of the die. The placing process amounts to the following:

1. Die is picked up and place on a 'flipping device'
2. Die is 'flipped' and moved to hover over the substrate (or board or carrier) where bumps reside - precisely positioned in their previously defined positions
3. The tool then places the die on the bump with a programmed amount of force

Flip chip bumping is a vital step to the process. The bump provides the necessary electrical connection between the die and the substrate, provides thermal conduction through the two materials, acts as a 'spacer' to prevent electrical shorts and provides mechanical support.

Flip chips avoid wire bonding and therefore are able to be much smaller than their counterparts. Flip chip processes have been around for more than 40 years. Since then, thousands of applications have taken advantage of the size and cost benefits enabled by the flip chip assembly method.

Global Flip Chip Bonder key players include Besi, ASM Pacific Technology, Shibaura, Kulicke & Soffa, etc. Global top four manufacturers hold a share nearly 70%.

China is the largest market, with a share about 25%, followed by United States, and Taiwan, both have a share about 30 percent.

In terms of product, Fully Automatic is the largest segment, with a share over 75%. And in terms of application, the largest application is IDMs, followed by OSAT.

The Global Info Research report includes an overview of the development of the Flip Chip Bonder industry chain, the market status of IDMs (Fully Automatic, Semi-Automatic), OSAT (Fully Automatic, Semi-Automatic), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Flip Chip Bonder.

Regionally, the report analyzes the Flip Chip Bonder markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Flip Chip Bonder market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Flip Chip Bonder market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Flip Chip Bonder industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Units), revenue generated, and market share of different by Type (e.g., Fully Automatic, Semi-Automatic).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Flip Chip Bonder market.

Regional Analysis: The report involves examining the Flip Chip Bonder market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Flip Chip Bonder market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Flip Chip Bonder:

Company Analysis: Report covers individual Flip Chip Bonder manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Flip Chip Bonder. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (IDMs, OSAT).

Technology Analysis: Report covers specific technologies relevant to Flip Chip Bonder. It assesses the current state, advancements, and potential future developments in Flip Chip Bonder areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Flip Chip Bonder market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Flip Chip Bonder market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Fully Automatic

Semi-Automatic

Market segment by Application

IDMs

OSAT

Major players covered

BESI

ASMPT

Shibaura

Muehlbauer

K&S

Hamni

AMICRA Microtechnologies

SET

Athlete FA

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 Flip Chip Bonder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Flip Chip Bonder, with price, sales, revenue and global market share of Flip Chip Bonder from 2019 to 2024.

Chapter 3, the Flip Chip Bonder competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Flip Chip Bonder breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Flip Chip Bonder market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Flip Chip Bonder.

Chapter 14 and 15, to describe Flip Chip Bonder sales channel, distributors, customers, research findings and conclusion.

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