+357 96 030922
info@marketpublishers.com

Global Fully Automatic Wafer Expander Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G234ABF562B2EN.html
Date: February 2026
Pages: 75
Price: US$ 3,480.00 (Single User License)
ID: G234ABF562B2EN

Abstracts

According to our (Global Info Research) latest study, the global Fully Automatic Wafer Expander market size was valued at US$ 84.73 million in 2025 and is forecast to a readjusted size of US$ 249 million by 2032 with a CAGR of 17.9% during review period.

In 2025, global sales of fully automatic wafer expanders reached 261 units, with an average price of US$315,000 per unit.

Fully automatic wafer expanders are crucial back-end equipment used after semiconductor wafer or LED chip dicing (dicing) processes. A servo motor or pneumatically driven stage rises, uniformly stretching the dicing tape attached to the back of the wafer along the X-Y direction. This separates and stretches the diced chips to the target spacing (typically expanding from a close packing to a gap of 200?m–1mm or more), thus preventing chip collisions and edge chipping, and facilitating subsequent automatic pick and place and die bonding.

The raw materials for fully automated wafer expander include an aluminum alloy or stainless steel frame (providing high rigidity to withstand expansion tension), a servo motor or precision pneumatic system (driving the table lifting and controlling expansion accuracy to ±0.1mm), precision linear guides and bearings (ensuring smooth vertical movement), a heating and temperature control system (heating the worktable to 40-80°C to soften the wafer film, including ceramic heating elements or cast aluminum heating plates), a PLC control system and touch screen (the core of automation control, supporting the storage of multiple process recipes), and precision mechanical components (expanding rings, dicing blades, vacuum chucks, etc., which must match the wafer size); high-end fully automated models also require a vision alignment system

+357 96 030922
info@marketpublishers.com

(CCD camera) and an automatic loading and unloading robotic arm.

In terms of cost structure, automated wafer expanders exhibit a significant hierarchy in automation levels: precision machining components (racks, guide rails, molds) account for 40-50% of the total cost, electrical control systems (PLC, servo, temperature control) account for 30-35%, and software development and debugging account for 10-15%. For high-end fully automated models, the proportion of costs for vision systems, precision motion control modules, and software algorithms increases to 40-50%, while the proportion of mechanical structure costs decreases relatively. As wafer sizes move towards 12 inches (300mm), the requirements for equipment rigidity, thermal uniformity, and control precision increase non-linearly. Larger-size models cost 50-100% more than smaller-size (6-8 inch) models, and key components (high-precision servo drives, vacuum components) still partially rely on imports, further increasing the manufacturing costs of high-end equipment.

This report is a detailed and comprehensive analysis for global Fully Automatic Wafer Expander 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 Fully Automatic Wafer Expander market size and forecasts, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Fully Automatic Wafer Expander market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Fully Automatic Wafer Expander market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Units), and average selling prices (K US$/Unit), 2021-2032

Global Fully Automatic Wafer Expander market shares of main players, shipments in revenue ($ Million), sales quantity (Units), and ASP (K US$/Unit), 2021-2026

+357 96 030922
info@marketpublishers.com

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 Fully Automatic Wafer Expander
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 Fully Automatic Wafer Expander 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 DISCO, Ohmiya Industry, N-TEC Corp., etc.

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

Market Segmentation

Fully Automatic Wafer Expander 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

Hot Plate Contact Heating

Hot Air/Infrared Heating

Zone Temperature Control Heating

Market segment by Applicable Membrane Materials

Blue Film

UV Film

+357 96 030922
info@marketpublishers.com

PO Film/EVA Film

Market segment by Stretching Methods

Single-stage Integral Stretching

Multi-stage Progressive Stretching

Closed-loop Control Precision Stretching

Market segment by Application

LED Chip Manufacturing

Semiconductor IC Packaging

Power Devices

Advanced Packaging (WLP)

Other

Major players covered

DISCO

Ohmiya Industry

N-TEC Corp.

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)

+357 96 030922
info@marketpublishers.com

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 Fully Automatic Wafer Expander product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Fully Automatic Wafer Expander, with price, sales quantity, revenue, and global market share of Fully Automatic Wafer Expander from 2021 to 2026.

Chapter 3, the Fully Automatic Wafer Expander competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Fully Automatic Wafer Expander 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 Fully Automatic Wafer Expander 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 Fully Automatic Wafer Expander.

Chapter 14 and 15, to describe Fully Automatic Wafer Expander sales channel, distributors, customers, research findings and conclusion.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

3 COMPETITIVE ENVIRONMENT: 9% NI STEEL FOR CRYOGENIC STORAGE TANK BY MANUFACTURER

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Fully Automatic Wafer Expander Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

Product link: https://marketpublishers.com/r/G234ABF562B2EN.html

Price: US$ 3,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G234ABF562B2EN.html