

Global PCB Automatic Dry Film Laminators Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PCB Automatic Dry Film Laminators market size was valued at US\$ 90.18 million in 2025 and is forecast to a readjusted size of US\$ 138 million by 2032 with a CAGR of 6.3% during review period.

PCB Automatic Dry Film Laminators are specialized process equipment used in printed circuit board manufacturing to laminate dry film photoresist, dry film solder mask and other photosensitive functional films onto circuit board substrates in a semi-automatic or fully automatic manner. The equipment applies controlled heating, roller pressure, film tension, transport speed, automatic cutting, panel alignment, dust removal, recipe storage and inline connectivity to achieve stable dry film adhesion on rigid printed circuit boards, flexible printed circuits, high-density interconnect boards and integrated circuit substrates. It provides a reliable process foundation for exposure, development, etching, pattern plating, solder-mask imaging and build-up manufacturing. Compared with manual laminating equipment, PCB Automatic Dry Film Laminators place greater emphasis on production rhythm, lamination uniformity, film-edge control, pressure stability, thin-panel handling and batch-to-batch repeatability, making them important equipment for the transition of circuit board manufacturing toward automation, precision and labor reduction.

In 2025, global PCB Automatic Dry Film Laminators production reached approximately 492 units, with an average global market price of around US\$ 178 k per unit

The upstream supply chain of PCB Automatic Dry Film Laminators mainly includes structural metals and precision machined parts, heating rollers and pressure rollers, rubber rollers, belts, bearings, linear guides, ball screws, servo motors, drives,

programmable controllers, sensors, pneumatic components, vacuum pumps, electrical cabinets, human-machine interfaces and control software. Representative suppliers include Nippon Steel, Baosteel, POSCO; NSK, SKF, IKO, etc.

Downstream applications include Rigid PCB manufacturing, FPC manufacturing, and HDI and IC Substrate Manufacturing. The representative customer names include TTM Technologies, Unimicron Technology, Shennan Circuits, Nippon Mektron, Career Technology, Sumitomo Electric Printed Circuits, etc.

The overall gross margin of PCB Automatic Dry Film Laminators is generally at 30%~45%.

By product type, PCB Automatic Dry Film Laminators are segmented into Semi-Automatic Dry Film Laminators and Fully Automatic Dry Film Laminators. Semi-Automatic Dry Film Laminators usually integrate heating, roller pressing, speed control, pressure adjustment and partial film-feeding functions, while panel loading, unloading, alignment or cutting may still require operator participation. They are suitable for small and medium batch production, multi-product orders and process validation, offering a balanced solution between equipment investment, productivity and lamination stability. Fully Automatic Dry Film Laminators further integrate automatic film unwinding, panel feeding, alignment, cutting, rewinding, recipe management, alarm functions, defect control and inline production connectivity. They are designed for continuous mass production. As circuit board manufacturing moves toward thinner substrates, finer lines, higher density and higher reliability, Fully Automatic Dry Film Laminators are gaining greater importance in high-end rigid printed circuit boards, flexible printed circuits, high-density interconnect boards and integrated circuit substrate manufacturing.

By application, Rigid PCB manufacturing is the fundamental application area for PCB Automatic Dry Film Laminators. The equipment is mainly used in inner-layer imaging, outer-layer imaging, etching masks, pattern plating and solder-mask imaging, where customers focus on lamination uniformity, bubble control, film-edge consistency and stable production rhythm. FPC manufacturing requires stronger thin-substrate transport, tension control, wrinkle prevention, roll-material compatibility and continuous processing stability, especially for flexible circuits used in consumer electronics, camera modules, wearable devices and automotive electronics. HDI and IC Substrate Manufacturing places higher requirements on cleanliness, pressure uniformity, temperature stability, vacuum-assisted air removal, micro-defect control and process traceability, making it an important growth direction for fully automatic, high-precision and high-cleanliness dry film laminating equipment.

Market Driving Factors include the continued miniaturization and high-density development of electronic products, increasing requirements for fine lines and high yield in rigid printed circuit board manufacturing, expanding use of flexible printed circuits in consumer electronics, automotive electronics and wearable devices, capacity expansion in high-density interconnect boards and integrated circuit substrates, automation replacing manual operations to reduce human error and improve production efficiency, stable use of dry film photoresist and dry film solder mask in pattern transfer and solder-mask imaging, and rising demand for high-end circuit substrates driven by new energy vehicles, communication equipment, servers, industrial control and high-reliability electronics. In addition, circuit board manufacturers' increasing demand for process traceability, labor reduction, batch consistency and inline production connectivity continues to support the penetration of semi-automatic and fully automatic dry film laminators.

Market Restraints include the relatively high initial investment cost of fully automatic systems, price sensitivity and payback-period concerns among small and medium circuit board manufacturers, cyclical capital expenditure in the downstream printed circuit board industry, difficulty in matching different dry film materials, board surfaces and process parameters, strong reliance on process know-how for equipment commissioning, maintenance and optimization, intense price competition in the low-end semi-automatic equipment segment, long customer qualification and production-introduction cycles for new equipment suppliers, and potential substitution pressure from liquid solder mask, direct imaging, spray coating or other pattern-transfer processes in selected applications. For HDI and IC Substrate Manufacturing, customers impose stricter requirements on cleanliness, long-term stability, automation interfaces, data management and after-sales response, which further raises entry barriers for the industry.

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

Global PCB Automatic Dry Film Laminators 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 PCB Automatic Dry Film Laminators 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 PCB Automatic Dry Film Laminators market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (K US\$/Unit), 2021-2026

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 PCB Automatic Dry Film Laminators

- 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 PCB Automatic Dry Film Laminators 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 C Sun Manufacturing Ltd., Dynachem Automatic Lamination Technologies s.r.l., MCK Co., Ltd., Top Range Machinery Co., Ltd., Shenzhen Xinguanghui Technology Co., Ltd., Beijing Golden Eagle Electronic Equipment Co., Ltd., Growns Electronic Technology Co., Ltd., Bungard Elektronik GmbH & Co. KG, Mohite Electronics Private Limited, etc.

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

Market Segmentation

PCB Automatic Dry Film Laminators 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

Semi-Automatic Dry Film Laminators

Fully Automatic Dry Film Laminators

Market segment by Film Application Side

Single-sided Dry Film Laminators

Double-sided Dry Film Laminators

Market segment by Lamination Width

Narrow-width Dry Film Laminators

Standard-width Dry Film Laminators

Wide-width Dry Film Laminators

Ultra-wide Dry Film Laminators

Market segment by Application

Rigid PCB (Printed Circuit Board)

FPC (Flexible Printed Circuit)

HDI and IC Substrate Manufacturing

Major players covered

C Sun Manufacturing Ltd.

Dynachem Automatic Lamination Technologies s.r.l.

MCK Co., Ltd.

Top Range Machinery Co., Ltd.

Shenzhen Xinguanghui Technology Co., Ltd.

Beijing Golden Eagle Electronic Equipment Co., Ltd.

Growns Electronic Technology Co., Ltd.

Bungard Elektronik GmbH & Co. KG

Mohite Electronics Private Limited

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 PCB Automatic Dry Film Laminators product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PCB Automatic Dry Film Laminators, with price, sales quantity, revenue, and global market share of PCB Automatic Dry Film Laminators from 2021 to 2026.

Chapter 3, the PCB Automatic Dry Film Laminators competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PCB Automatic Dry Film Laminators 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 PCB Automatic Dry Film Laminators 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 PCB Automatic Dry Film Laminators.

Chapter 14 and 15, to describe PCB Automatic Dry Film Laminators sales channel, distributors, customers, research findings and conclusion.

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