

Global CCD Back Drilling Machine Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global CCD Back Drilling Machine market size is expected to reach \$ 738 million by 2032, rising at a market growth of 9.5% CAGR during the forecast period (2026-2032).

In 2025, global CCD Back Drilling Machine production reached approximately 1.5k units, with an average global market price of around US\$250k per unit.

CCD Back Drilling Machine is a high-precision CNC drilling system used in printed circuit board (PCB) manufacturing and advanced electronics production. It is specifically designed for back drilling operations on plated through holes (PTHs) to remove unused copper stubs remaining inside vias after multilayer PCB fabrication. By eliminating these residual stubs, the machine helps reduce impedance discontinuities, signal reflections, crosstalk, and insertion losses in high-speed signal transmission environments. The equipment is typically equipped with a high-resolution CCD vision alignment system, high-speed electric spindle, precision motion control platform, and automatic compensation software. Through CCD image recognition and positioning technology, the machine can automatically calibrate drilling locations and correct alignment deviations, ensuring high drilling accuracy and depth control required for high-layer-count, high-density, and high-speed PCB production. CCD back drilling machines are widely used in the manufacturing of servers, data center switches, 5G communication equipment, AI computing hardware, aerospace electronics, automotive electronics, and high-performance computing systems, making them essential processing equipment for high-frequency and high-speed PCB fabrication.

The upstream segment of the CCD back drilling machine industry includes suppliers of high-precision electric spindles, CCD industrial cameras, optical lenses, linear motors, ball screws, precision guideways, servo drive systems, motion controllers, industrial

computers, drill bits, and CNC control systems. Representative suppliers include FANUC, Mitsubishi Electric, Yaskawa, THK, HIWIN, Bosch Rexroth, Basler, Cognex, KEYENCE, Schneider Electric, and Siemens. The midstream sector consists of PCB drilling equipment manufacturers and back drilling machine producers responsible for system integration, software development, vision alignment systems, and complete machine assembly. Downstream customers mainly include manufacturers of high-layer-count PCBs, high-speed PCBs, HDI boards, and advanced packaging substrates, such as Pengding Holdings, Dongshan Precision, Shennan Circuits, WUS Printed Circuit, TTM Technologies, Unimicron, Compeq, and Unitech. End-use applications cover AI servers, data center switches, 5G communication equipment, automotive electronics, aerospace electronics, and high-performance computing systems. As high-speed signal transmission requirements continue to increase, the importance of back drilling technology is growing rapidly.

The CCD back drilling machine market is an important segment within the advanced PCB manufacturing equipment industry and is closely linked to AI servers, high-speed switches, data centers, 5G communications, automotive electronics, and advanced packaging technologies. As signal transmission speeds continue to increase, the impact of via stubs on signal integrity has become more significant, making back drilling a critical process for high-layer-count and high-frequency PCB production. The market is moving toward higher precision, faster spindle speeds, enhanced vision recognition capabilities, and greater manufacturing intelligence. CCD vision alignment systems have become a key technology for improving yield and processing efficiency. In addition, investments in AI computing infrastructure, demand for high-performance servers, and advances in semiconductor packaging technologies continue to support equipment upgrades. However, the industry also faces challenges such as high R&D costs, dependence on advanced core components, lengthy customer qualification processes, and cyclical fluctuations in the PCB industry. Future competition will focus on machining accuracy, automation levels, software algorithm capabilities, and comprehensive manufacturing solutions.

This report studies the global CCD Back Drilling Machine production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for CCD Back Drilling Machine and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of CCD Back Drilling Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global CCD Back Drilling Machine total production and demand, 2021-2032, (Units)

Global CCD Back Drilling Machine total production value, 2021-2032, (USD Million)

Global CCD Back Drilling Machine production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global CCD Back Drilling Machine consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: CCD Back Drilling Machine domestic production, consumption, key domestic manufacturers and share

Global CCD Back Drilling Machine production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global CCD Back Drilling Machine production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global CCD Back Drilling Machine production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global CCD Back Drilling Machine market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Schmoll Maschinen, Via Mechanics, MURAKI, Bungard Elektronik, Intectiv, Fortex Engineering, Pluritec, Ta Liang, Tongtai, Bill Ben Company, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World CCD Back Drilling Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global CCD Back Drilling Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CCD Back Drilling Machine Market, Segmentation by Type:

Single Worktable

Dual Worktable

Global CCD Back Drilling Machine Market, Segmentation by Number of Spindles:

Single Spindle

Dual Spindle

Quadruple Spindle

Others

Global CCD Back Drilling Machine Market, Segmentation by Drilling Diameter:

0.05-0.10 mm

0.10-0.20 mm

0.20-0.30 mm

0.30-0.40 mm

0.40-0.50 mm

Others

Global CCD Back Drilling Machine Market, Segmentation by Application:

Printed Circuit Board

Flexible Circuit Board

Copper Clad Laminate

Others

Companies Profiled:

Schmoll Maschinen

Via Mechanics

MURAKI

Bungard Elektronik

Intectiv

Fortex Engineering

Pluritec

Ta Liang

Tongtai

Bill Ben Company

Shin Gang Automation

Hans CNC

Vega CNC

Victory Giant Technology

Crild Technology

Sunus Electronic

Key Questions Answered:

1. How big is the global CCD Back Drilling Machine market?
2. What is the demand of the global CCD Back Drilling Machine market?
3. What is the year over year growth of the global CCD Back Drilling Machine market?
4. What is the production and production value of the global CCD Back Drilling Machine market?
5. Who are the key producers in the global CCD Back Drilling Machine market?
6. What are the growth factors driving the market demand?

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