

Global CCD Back Drilling Machine Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G5153037C11DEN.html>

Date: July 2026

Pages: 144

Price: US\$ 3,480.00 (Single User License)

ID: G5153037C11DEN

Abstracts

According to our (Global Info Research) latest study, the global CCD Back Drilling Machine market size was valued at US\$ 391 million in 2025 and is forecast to a readjusted size of US\$ 738 million by 2032 with a CAGR of 9.5% during review period.

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 is a detailed and comprehensive analysis for global CCD Back Drilling Machine 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 CCD Back Drilling Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global CCD Back Drilling Machine market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global CCD Back Drilling Machine market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global CCD Back Drilling Machine market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (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 CCD Back Drilling Machine

- 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 CCD Back Drilling Machine 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 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.

Market Segmentation

CCD Back Drilling Machine 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

Single Worktable

Dual Worktable

Market segment by Number of Spindles

Single Spindle

Dual Spindle

Quadruple Spindle

Others

Market segment 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

Market segment by Application

Printed Circuit Board

Flexible Circuit Board

Copper Clad Laminate

Others

Major players covered

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

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 CCD Back Drilling Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CCD Back Drilling Machine, with price, sales quantity, revenue, and global market share of CCD Back Drilling Machine from 2021 to 2026.

Chapter 3, the CCD Back Drilling Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CCD Back Drilling Machine 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 CCD Back Drilling Machine 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 CCD Back Drilling Machine.

Chapter 14 and 15, to describe CCD Back Drilling Machine sales channel, distributors, customers, research findings and conclusion.

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