

Global CCD Drilling Machine Market Growth 2026-2032

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Abstracts

The global CCD Drilling Machine market size is predicted to grow from US\$ 929 million in 2025 to US\$ 1565 million in 2032; it is expected to grow at a CAGR of 7.8% from 2026 to 2032.

In 2025, global CCD Drilling Machine production reached approximately 6.3k units, with an average global market price of around US\$150k per unit.

A CCD Drilling Machine is an automated drilling system that integrates CCD vision positioning technology with high-precision drilling capabilities. By utilizing industrial CCD cameras, the machine can automatically detect fiducial marks, positioning points, or graphic contours on the workpiece and dynamically correct machining coordinates to achieve highly accurate and consistent drilling operations. The system effectively compensates for material displacement, dimensional tolerances, and thermal expansion effects, thereby improving drilling precision and production efficiency. CCD drilling machines are typically equipped with high-resolution vision systems, precision motion control platforms, high-speed spindles, and automatic alignment software. They are widely used in the manufacturing of printed circuit boards (PCB), flexible printed circuits (FPC), copper clad laminates, display panels, electronic components, mobile device parts, precision metal components, optoelectronic materials, and new energy products. As electronic products continue to evolve toward higher density, miniaturization, and greater precision, CCD drilling machines have become essential equipment in advanced electronics manufacturing and automated precision processing industries.

The upstream segment of the CCD drilling machine industry includes suppliers of CCD industrial cameras, machine vision lenses, motion control systems, servo motors, linear guides, high-speed electric spindles, control software, and precision mechanical components. Representative suppliers include Keyence, Cognex, Basler, THK, Yaskawa Electric, and Mitsubishi Electric. The midstream sector consists of CCD drilling

machine manufacturers and precision automation equipment suppliers. Downstream applications are concentrated in PCB, FPC, copper clad laminates, display panels, consumer electronics, semiconductor packaging, new energy electronics, and precision metal processing. Representative end users include Unimicron, Compeq, Samsung Electronics, Foxconn, and BOE Technology. CCD drilling machines play a critical role in precision electronics manufacturing, where vision alignment accuracy directly affects yield and production efficiency.

The CCD drilling machine market is an important segment of precision electronics manufacturing equipment, with demand primarily driven by PCB, FPC, display panel, semiconductor packaging, and consumer electronics industries. As electronic products continue to move toward higher density, miniaturization, and greater precision, demand for advanced vision-guided, high-speed, and automated drilling systems continues to increase. Future development is expected to focus on higher-resolution vision systems, multi-axis motion control, intelligent recognition algorithms, and smart manufacturing solutions integrated with industrial internet platforms to further improve productivity and processing accuracy. Growth in automotive electronics, AI hardware, and advanced packaging technologies is also expected to create new opportunities. However, high R&D investment requirements, expensive core vision components, and cyclicity in downstream electronics markets remain key challenges for industry participants.

LP Information, Inc. (LPI) ' newest research report, the "CCD Drilling Machine Industry Forecast" looks at past sales and reviews total world CCD Drilling Machine sales in 2025, providing a comprehensive analysis by region and market sector of projected CCD Drilling Machine sales for 2026 through 2032. With CCD Drilling Machine sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world CCD Drilling Machine industry.

This Insight Report provides a comprehensive analysis of the global CCD Drilling Machine landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on CCD Drilling Machine portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global CCD Drilling Machine market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for CCD Drilling Machine and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of

opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global CCD Drilling Machine.

This report presents a comprehensive overview, market shares, and growth opportunities of CCD Drilling Machine market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Semi-Automatic

Fully Automatic

Segmentation by Drilling Diameter:

0.05?0.1 mm

0.1?1 mm

1?10 mm

Others

Segmentation by Application:

Printed Circuit Board

Flexible Circuit Board

Copper Clad Laminate

Display Panel

Precision Hardware

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

MURAKI

Bungard Elektronik

Intectiv

Fortex Engineering

Multi Circuit Boards

Pluritec

Schmoll Maschinen

Bill Ben Company

TA LIANG

Shin Gang Automation

Tongtai

Vega Technology

HAN'S CNC Technology

Crild Technology

Sunus Electronic Technology

VILITY

Key Questions Addressed in this Report

What is the 10-year outlook for the global CCD Drilling Machine market?

What factors are driving CCD Drilling Machine market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do CCD Drilling Machine market opportunities vary by end market size?

How does CCD Drilling Machine break out by Type, by Application?

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