

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

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Abstracts

The global CCD Drilling Machine market size is expected to reach \$ 1605 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

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 cyclicalities in downstream electronics markets remain key challenges for industry participants.

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

This report is a detailed and comprehensive analysis of the world market for CCD 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 Drilling Machine that contribute to its increasing demand across many markets.

Highlights and key features of the study

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

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

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

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

U.S. VS China: CCD Drilling Machine domestic production, consumption, key domestic

manufacturers and share

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

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

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

This report profiles key players in the global CCD 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 MURAKI, Bungard Elektronik, Intectiv, Fortex Engineering, Multi Circuit Boards, Pluritec, Schmoll Maschinen, Bill Ben Company, TA LIANG, Shin Gang Automation, 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 Drilling Machine market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K 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 Drilling Machine Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global CCD Drilling Machine Market, Segmentation by Type:

Semi-Automatic

Fully Automatic

Global CCD Drilling Machine Market, Segmentation by Drilling Diameter:

0.05?0.1 mm

0.1?1 mm

1?10 mm

Others

Global CCD Drilling Machine Market, Segmentation by Application:

Printed Circuit Board

Flexible Circuit Board

Copper Clad Laminate

Display Panel

Precision Hardware

Others

Companies Profiled:

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 Answered:

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

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