

Global CCD Mechanical Drilling Machine 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 CCD Mechanical Drilling Machine market size was valued at US\$ 293 million in 2025 and is forecast to a readjusted size of US\$ 384 million by 2032 with a CAGR of 3.1% during review period.

In 2025, the global sales volume of CCD mechanical drilling machines reached 1,901 units, with an average selling price of US\$150,000 per unit. The global production capacity of CCD mechanical drilling machines was about 3,000 units, and the gross profit margin was approximately 32.5%. A CCD mechanical drilling machine is a CNC mechanical drilling device equipped with a CCD (charge-coupled device) vision positioning system. Its core working principle is: before drilling, a high-resolution CCD camera captures the positioning marks on the workpiece surface (such as targets, alignment holes, or Mark points on PCB substrates), and through image processing algorithms it identifies and calculates the actual position coordinates and angular offset of the workpiece; then the control system automatically corrects the mechanical coordinates and guides the spindle to perform high-speed and precise positioning drilling. Compared with traditional drilling machines that rely on mechanical templates or manual alignment, it solves positioning errors caused by board expansion and shrinkage, deformation, and feeding position deviations. It features high positioning accuracy, strong automation, and good stability. It is widely used in fields requiring high-precision hole machining, such as multi-layer PCBs, HDI boards, IC substrates, precision hardware, and medical devices. It is especially suitable for high-volume, high-density, and small-aperture precision drilling scenarios. The upstream of CCD mechanical drilling machines includes CCD cameras, light sources, spindles, and so on. The midstream consists of CCD mechanical drilling machine manufacturers, and the downstream is mainly applied in the PCB industry, electronic components, automotive

electronics, and other areas.

CCD Mechanical Drilling Machine is primarily used for high-precision mechanical drilling processes in printed circuit board (PCB) manufacturing, utilizing CCD vision positioning technology to automatically identify drilling locations and achieve accurate hole placement control. With the increasing demand for miniaturized, high-density, and high-reliability electronic products, PCB manufacturers require higher precision, smaller holes, and more complex structures, driving the development of CCD Mechanical Drilling Machine toward higher accuracy, greater intelligence, and improved processing efficiency. The equipment has become an important manufacturing tool in advanced PCB production, with market demand mainly supported by the development of 5G communication, automotive electronics, consumer electronics, semiconductor packaging, and high-end electronic applications. Meanwhile, competition in the market is increasingly shifting from basic equipment performance toward comprehensive capabilities including precision control, automation level, software algorithms, and integrated manufacturing solutions.

Report Scope

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

Global CCD Mechanical Drilling Machine 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 CCD Mechanical Drilling Machine 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 CCD Mechanical Drilling Machine 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 CCD Mechanical 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 Mechanical 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 MURAKI, Bungard Elektronik, Intectiv, Fortex Engineering, Multi Circuit Boards, Eslove Electronics, Bill Ben Company, Via Mechanics, Pluritec, Schmoll Maschinen, etc.

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

CCD Mechanical 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 Segmentation

Market segment by Type

Semi-Automatic CCD Mechanical Drilling Machine

Fully Automatic CCD Mechanical Drilling Machine

Market segment by Drilling Methods

Single-Spindle Mechanical Drilling Machine

Dual-Spindle Mechanical Drilling Machine

Triple-Spindle Mechanical Drilling Machine

Market segment by Repeat Positioning Accuracy

$\pm 10\text{--}20\text{ }\mu\text{m}$

$\pm 5\text{--}10\text{ }\mu\text{m}$

$\pm 5\text{ }\mu\text{m}$

Market segment by Application

PCB Industry

Electronic Components

Automotive Electronics

Aerospace

Photovoltaic

Medical Device

Others

Major players covered

MURAKI

Bungard Elektronik

Intectiv

Fortex Engineering

Multi Circuit Boards

Eslove Electronics

Bill Ben Company

Via Mechanics

Pluritec

Schmoll Maschinen

CRILD TECHNOLOGY

SHIN GANG AUTOMATION

TA LIANG

SHENZHEN HAN'S CNC TECHNOLOGY

Tongtai

Sunus

VILITY

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)

Chapter Outline

Chapter 1, to describe CCD Mechanical Drilling Machine product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the CCD Mechanical 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 Mechanical 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 Mechanical Drilling Machine.

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

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