

Global CCD/CMOS Vision Positioning Laser Marking 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/CMOS Vision Positioning Laser Marking Machine market size was valued at US\$ 391 million in 2025 and is forecast to a readjusted size of US\$ 618 million by 2032 with a CAGR of 6.7% during review period.

A CCD/CMOS vision positioning laser marking machine refers to an industrial marking system that integrates a laser marker, industrial camera, vision recognition software, image-based alignment algorithm, motion control and automatic coordinate compensation. The system identifies workpiece contours, fiducial marks, holes, QR/Data Matrix codes, characters or other reference features, converts the recognition result into X/Y/? or path correction parameters, and then performs accurate laser marking, traceability coding, character marking, logo marking or post-mark verification. The product category mainly covers standalone vision laser marking workstations, inline laser marking modules, PCB and IC package laser markers, medical-device UDI marking systems, automotive component traceability cells and fully automated marking stations with MES, OCR/OCV or code verification functions.

Common laser sources include fiber, UV, green and CO₂ lasers. Typical reference prices are approximately USD 12,000–50,000 for standard standalone machines, USD 50,000–250,000 for automated systems with loading/unloading, double-sided marking, code verification or MES integration, and higher for customized semiconductor, medical or high-throughput production cells.

The global CCD/CMOS vision positioning laser marking machine market should be understood as a specialized segment within the broader industrial laser marking

equipment industry. Its core value proposition is not merely the ability to mark a surface, but the ability to identify the position, orientation and reference features of a workpiece, compensate the marking path in real time, and support traceability workflows through code reading, verification and production-data integration. In practical terms, this segment addresses the limitations of fixture-based marking and manual positioning, especially in production environments characterized by frequent changeovers, mixed parts, small batches and high traceability requirements. Official product materials from leading suppliers show that built-in cameras, machine vision alignment, automatic position correction and fixtureless marking are increasingly positioned as core process-enabling functions rather than optional accessories.

From a supply-side perspective, the market is highly layered. European, Japanese and North American suppliers tend to compete on process reliability, validation capability, software maturity, medical-device compliance, automotive traceability and high-end factory integration. Korean and Japanese suppliers are particularly relevant in semiconductor packaging and PCB-related marking applications, where camera alignment, fiducial recognition and post-mark inspection are often embedded into inline production equipment. Chinese suppliers form a broader and more fragmented manufacturing base, with strong participation in mid-range standalone machines, non-standard automation cells and cost-sensitive industrial applications. The gap between the core formal supplier list and the extended longlist is therefore structural: many small suppliers are real manufacturers, but they lack global disclosure, audited revenue data or sufficiently detailed product documentation.

Demand growth is supported by industrial traceability, automation upgrading and regulatory-driven identification requirements. Medical-device UDI frameworks in the United States and Europe require clearer device identification and traceability, while automotive, electronics, PCB and semiconductor supply chains increasingly require durable marking, QR/Data Matrix code readability and production-data linkage. These requirements favor laser marking systems that combine visual alignment, code verification, OCR/OCV and MES connectivity. As a result, the market is expected to expand steadily rather than explosively: the installed base of conventional laser markers is already large, but the upgrade cycle toward vision-assisted, fixtureless and data-connected systems remains active.

Technology development is moving beyond the traditional “CCD visual positioning” label. In many current systems, CCD has become a category shorthand, while actual architectures increasingly use CMOS industrial cameras, coaxial vision, higher-resolution imaging, more convenient calibration, automatic X/Y/? correction, 2D code

verification and production-line software integration. The competitive center of gravity will gradually shift from hardware-only laser marking capability toward system-level reliability, visual recognition robustness, low false-reject rates, automated recipe changeover, data connectivity and application-specific engineering capability.

This report is a detailed and comprehensive analysis for global CCD/CMOS Vision Positioning Laser Marking Machine market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Product Configuration 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/CMOS Vision Positioning Laser Marking Machine market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global CCD/CMOS Vision Positioning Laser Marking 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/CMOS Vision Positioning Laser Marking Machine market size and forecasts, by Product Configuration and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (K US\$/Unit), 2021-2032

Global CCD/CMOS Vision Positioning Laser Marking 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/CMOS Vision Positioning Laser Marking 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/CMOS Vision Positioning Laser Marking 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 TRUMPF SE + Co. KG, KEYENCE CORPORATION, FOBA Laser Marking + Engraving, Panasonic Industry, Han's Laser, Hymson Laser, Gravotech, Telesis Technologies, Laserax, Automator, etc.

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

Market Segmentation

CCD/CMOS Vision Positioning Laser Marking Machine market is split by Product Configuration and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Product Configuration, 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 Product Configuration

Standalone Workstation

Inline Integration Module

Fully Automated Marking Cell

Other

Market segment by Laser Source

Fiber / IR Laser

UV Laser

Green Laser

CO₂ Laser

Other

Market segment by Vision Architecture

Coaxial / Through-the-Lens Vision

Off-axis Camera Vision

Built-in Camera Laser Marker

External Machine Vision Integration

Other

Market segment by Application

Electronics and PCB

Semiconductor and IC Packaging

Medical Device UDI

Automotive and EV Components

General Industrial Products

Other

Major players covered

TRUMPF SE + Co. KG

KEYENCE CORPORATION

FOBA Laser Marking + Engraving

Panasonic Industry

Han's Laser

Hymson Laser

Gravotech

Telesis Technologies

Laserax

Automator

Marantz Electronics

EO Technics

Genesem

Smart Laser

Suzhou Guanggu

Dapeng Laser

BEC Laser

RSD Laser

Hispeed Laser

KMW Laser

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/CMOS Vision Positioning Laser Marking Machine product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of CCD/CMOS Vision Positioning Laser Marking Machine, with price, sales quantity, revenue, and global market share of CCD/CMOS Vision Positioning Laser Marking Machine from 2021 to 2026.

Chapter 3, the CCD/CMOS Vision Positioning Laser Marking Machine competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the CCD/CMOS Vision Positioning Laser Marking 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 Product Configuration and by Application, with sales market share and growth rate by Product Configuration, 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/CMOS Vision Positioning Laser Marking Machine market forecast, by regions, by Product Configuration, 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/CMOS Vision Positioning Laser Marking Machine.

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