

Global Broken Tool Detector 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 Broken Tool Detector market size was valued at US\$ 700 million in 2025 and is forecast to a readjusted size of US\$ 1002 million by 2032 with a CAGR of 5.2% during review period.

In 2025, the production volume of broken tool detectors reached 200,000 units, with an average selling price of \$3,400 per unit.

To address the problems of traditional tool condition inspection, which relies on manual observation, is inefficient, has a high false alarm rate, and cannot adapt to the real-time monitoring needs of automated production lines, easily leading to increased scrap rates, equipment damage, and production safety hazards, broken tool detectors have emerged. Since the deep integration of machine vision technology and industrial automation in the early 21st century, broken tool detectors have achieved a leapfrog development from contact inspection to non-contact inspection, and from single-dimensional inspection to multi-dimensional intelligent analysis. Currently, they encompass various types, including optical, electromagnetic, and image recognition types, and are widely used in machining, automotive manufacturing, aerospace component processing, and precision electronics manufacturing, capable of accurately identifying defects such as tool chipping, wear, and breakage, and providing lifespan warnings.

In the global broken tool detector market in 2025, the average price of basic civilian models (suitable for small-scale machining) is \$1800-\$2500 per unit, while the average price of high-precision industrial models (suitable for precision parts machining) and related testing systems can reach \$3200-\$4500 per unit. In terms of production

capacity, the average annual capacity of a single production line is generally 6500-7500 units. The industry average capacity utilization rate is approximately 58%, which can rise to 72% during peak upgrading periods in the automotive and aerospace manufacturing industries. Gross profit margins vary significantly depending on product positioning: approximately 15%-20% for basic civilian models, and 22%-28% for high-precision industrial models and related testing systems.

Typical Transaction Case: In the third quarter of 2024, DENSO, a major Japanese automotive parts manufacturer, purchased 280 Keyence high-precision image recognition-based broken tool detectors (IV2 series) for approximately US\$952,000. The purchase requirements included: 'support for 0.01mm-level defect recognition, real-time integration with CNC machining centers, detection response time $\leq 10\text{ms}$, stable operation in workshop environments ranging from

The upstream of the broken tool detector industry chain encompasses core materials (Asahi Glass high-definition optical lenses from Japan, Siemens electromagnetic induction coils from Germany, and DuPont engineering plastics from the United States), key components (Sony industrial cameras from Japan, SICK laser sensors from Germany, Qualcomm signal processing chips from the United States, and Chi Mei Optoelectronics protective housings from Taiwan), and technical support (image recognition algorithm service providers, Trumpf precision calibration equipment from Germany, and industrial control software developers). Downstream applications focus on automotive manufacturing (38%, with a 10% annual increase driving precision parts processing monitoring), general machining (27%, with a 12% annual domestic increase supporting routine testing), aerospace (15%, with high technical barriers ensuring testing in high-end processing scenarios), and other fields (20%, covering tool testing needs in electronics, medical, and woodworking, forming a complete industry chain layout from core materials to multi-field applications).

Industry Trends and Challenges: The broken tool detector market exhibits three major development trends: intelligent upgrading (AI image recognition algorithm penetration rate increases by 12% annually, enabling accurate identification and lifespan warning of micro-cracks and fatigue wear), integrated linkage (deeply integrated into the Industrial Internet, supporting multi-device collaborative monitoring and real-time linkage management with MES systems throughout the tool's lifecycle), and multi-parameter fusion (integrating parameters such as temperature and vibration to build a multi-

dimensional analysis system). Market opportunities include increased global industrial automation penetration and precision upgrades in industries such as automotive and aerospace driving annual demand growth exceeding 11% (particularly prominent in emerging Asia-Pacific markets); increasingly stringent quality control regulations in manufacturing (such as the EU's Machinery Safety Directive) driving the replacement of existing equipment; and a surge in demand for precision parts processing in new energy vehicles creating a global market gap of approximately 60,000 units. Core challenges include reliance on imports for high-end industrial cameras/laser sensors (with a failure rate 18% higher than Keyence's in high-temperature, high-dust environments in China), long international technical standard certification cycles (CE/UL certifications require 8-18 months), and homogeneous price wars in the low-to-mid-end market leading to gross margins compressed to below 20%.

Demand and Opportunity Analysis: Driven by the essential need for industrial quality control, high-precision machining industries such as automotive and aerospace regard broken tool detectors as a core competitive advantage. This equipment can reduce the scrap rate of defective tools to below 0.3%, and in the machinery manufacturing sector, real-time monitoring reduces equipment damage and downtime losses by over 55%. In terms of production efficiency, the inspection time for a single tool in automated production lines is reduced from 3 minutes to less than 10 seconds, supporting simultaneous inspection at multiple workstations, and reducing unit costs to 1/5 of manual inspection. On the policy front, over 25 countries worldwide are promoting manufacturing quality improvement initiatives, and China's '14th Five-Year Plan for Intelligent Manufacturing Development' explicitly requires strengthening the construction of key process inspection capabilities, with local subsidies further promoting enterprise procurement. Regarding technological adaptability, the equipment is compatible with machining processes such as turning, milling, drilling, and grinding, as well as materials such as carbon steel, high-speed steel, and cemented carbide. It covers special environments such as high temperature, high dust, and strong vibration, with an adaptability rate of 85%. High-end models support cloud data storage and remote monitoring, and can be integrated into MES/ERP systems to achieve production and quality data linkage, becoming a core supporting equipment for intelligent manufacturing upgrades.

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

Global Broken Tool Detector market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Broken Tool Detector market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Broken Tool Detector market shares of main players, shipments in revenue (\$ Million), sales quantity (K 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 Broken Tool Detector

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 Broken Tool Detector 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 Keyence, Hexagon, Banner, Renishaw, Marposs, Makino, BK Mikro, Metrol, Haff & Schneider, FEM, etc.

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

Market Segmentation

Broken Tool Detector 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

Optical

Electromagnetic Induction

Laser

Market segment by Defect Recognition Accuracy

Accuracy 0.1-0.5mm

Accuracy 0.01-0.1mm

Accuracy >0.01mm

Market segment by Installation Method

In-line

Off-line

Portable

Market segment by Application

Automotive Manufacturing

General Machining

Aerospace

Other

Major players covered

Keyence

Hexagon

Banner

Renishaw

Marposs

Makino

BK Mikro

Metrol

Haff & Schneider

FEM

Middex

Bixbay Industries

Detector France

Haas Automation

Heidenhain Corp

SPC Innovations

Allora International

DETECTOOL

METROL

Greenline Precision Technology

Xinde Technology

MURAKAMI GIKEN

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 Broken Tool Detector product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Broken Tool Detector, with price, sales quantity, revenue, and global market share of Broken Tool Detector from 2021 to 2026.

Chapter 3, the Broken Tool Detector competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Broken Tool Detector 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 Broken Tool Detector 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 Broken Tool Detector.

Chapter 14 and 15, to describe Broken Tool Detector sales channel, distributors, customers, research findings and conclusion.

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