

Global Cylinder Pressure Sensor 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 Cylinder Pressure Sensor market size was valued at US\$ 225 million in 2025 and is forecast to a readjusted size of US\$ 344 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global sales of cylinder pressure sensors reached 18.5 million units, with an average selling price of \$11.8 per unit. Cylinder pressure sensors are key components used to monitor changes in internal cylinder pressure in real time, ensuring the stable operation of hydraulic and pneumatic systems. They are widely used in construction machinery, industrial automation, automotive powertrain systems, and high-end equipment manufacturing. A typical structure includes a sensing chip, a ceramic substrate, a stainless steel housing, welding and packaging materials, and cable assemblies. Upstream raw materials mainly consist of silicon piezoresistive chips, ceramic packaging substrates, 316L stainless steel housings, gold wire bonding, and sealants. Downstream customers are primarily system equipment manufacturers.

Global total production capacity is approximately 23 million units per year, with an industry gross margin ranging from 22% to 35%. In terms of downstream consumption, construction machinery accounts for approximately 48%, automotive powertrains and new energy vehicles approximately 27%, industrial automation approximately 15%, and other fields 10%. In terms of upstream material consumption, silicon chips account for 32% of the cost, ceramic substrates approximately 18%, stainless steel structural components approximately 25%, packaging adhesives and wire bonding approximately 10%, and others approximately 15%. Future demand will be primarily driven by upgrades in intelligent equipment, digitalization of hydraulic systems, and high-frequency monitoring needs in new energy equipment. New business opportunities will

emerge, particularly in intelligent construction machinery (unmanned and automated), thermal management of new energy vehicles, and pressure monitoring for hydrogen energy equipment. With breakthroughs in domestically produced high-reliability pressure chips, advancements in MEMS+ceramic packaging technology, and enhanced supply chain self-sufficiency, the company is expected to expand its global market share in small and medium-sized pressure sensors and further penetrate the core application chain of high-end equipment.

The market prospects for cylinder pressure sensors are very broad. With the rapid development of industrial automation, intelligent equipment, and new energy vehicles, their demand is showing a gradual upward trend. The demand in the construction machinery and industrial automation sectors, especially in high-precision hydraulic systems, will be a significant driving force for market expansion. Globally, with the intelligent and unmanned upgrading of machinery, cylinder pressure sensors are playing an increasingly important role in automation systems, becoming a key component for ensuring stable equipment operation, improving production efficiency, and reducing failure rates.

Furthermore, the development of new energy vehicles has brought about a demand for high-precision hydraulic and pneumatic systems, further promoting the market expansion of cylinder pressure sensors. Especially in the power systems and thermal management systems of new energy vehicles, as well as the hydraulic power systems of intelligent electric vehicles, sensors will continue to play a core role. With the increasing demand for intelligent system integration, cylinder pressure sensors are gradually becoming an indispensable part of the automotive, construction machinery, and automation industries.

From a market competition perspective, although there are some mature technologies and market players globally, the market landscape is changing due to continuous technological innovation and gradual cost reduction, especially the technological breakthroughs made by domestic companies in high-reliability sensors. In the future, the cylinder pressure sensor market will face more intense competition, while also providing more market opportunities for major manufacturers, especially in the low-to-mid-end market and emerging industries.

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

Global Cylinder Pressure Sensor 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 Cylinder Pressure Sensor 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 Cylinder Pressure Sensor 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 Cylinder Pressure Sensor

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 Cylinder Pressure Sensor 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 IMES GmbH, Kistler, Kaufbeurer Mikrosysteme Wiedemann GmbH, CITIZEN FINEDEVICE CO.,LTD., Festo, XingChen Pneumatic, Auxitrol Weston, Optrand, Inc., Sensata Technologies, Sendo, etc.

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

Market Segmentation

Cylinder Pressure Sensor 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

Piezoresistive

Piezoelectric

Capacitive

Fiber Optic

Market segment by Installation Method

Spark Plug Type

Channel Type

Piezoelectric Washer

Industrial Threaded Mounting Type

Market segment by Output Signal

Charge Output

Bridge Output

Digital Output

Others

Market segment by Application

Automobile Field

Aviation Field

Ship Field

Others

Major players covered

IMES GmbH

Kistler

Kaufbeurer Mikrosysteme Wiedemann GmbH

CITIZEN FINEDEVICE CO.,LTD.

Festo

XingChen Pneumatic

Auxitrol Weston

Optrand, Inc.

Sensata Technologies

Sendo

SENEX

ABB

PCB Piezotronics

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 Cylinder Pressure Sensor product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Cylinder Pressure Sensor, with price, sales quantity, revenue, and global market share of Cylinder Pressure Sensor from 2021 to 2026.

Chapter 3, the Cylinder Pressure Sensor competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Cylinder Pressure Sensor 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 Cylinder Pressure Sensor 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 Cylinder Pressure Sensor.

Chapter 14 and 15, to describe Cylinder Pressure Sensor sales channel, distributors, customers, research findings and conclusion.

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