

Global Cylinder Pressure Sensor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Cylinder Pressure Sensor market size is expected to reach \$ 344 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032). 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 studies the global Cylinder Pressure Sensor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Cylinder Pressure Sensor 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 Cylinder Pressure Sensor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Cylinder Pressure Sensor total production and demand, 2021-2032, (K Units)

Global Cylinder Pressure Sensor total production value, 2021-2032, (USD Million)

Global Cylinder Pressure Sensor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Cylinder Pressure Sensor consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Cylinder Pressure Sensor domestic production, consumption, key domestic manufacturers and share

Global Cylinder Pressure Sensor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Cylinder Pressure Sensor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Cylinder Pressure Sensor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Cylinder Pressure Sensor 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Cylinder Pressure Sensor 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 Cylinder Pressure Sensor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Cylinder Pressure Sensor Market, Segmentation by Type:

Piezoresistive

Piezoelectric

Capacitive

Fiber Optic

Global Cylinder Pressure Sensor Market, Segmentation by Installation Method:

Spark Plug Type

Channel Type

Piezoelectric Washer

Industrial Threaded Mounting Type

Global Cylinder Pressure Sensor Market, Segmentation by Output Signal:

Charge Output

Bridge Output

Digital Output

Others

Global Cylinder Pressure Sensor Market, Segmentation by Application:

Automobile Field

Aviation Field

Ship Field

Others

Companies Profiled:

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

Key Questions Answered:

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

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