

Global Pneumatic Electronic Braking System Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pneumatic Electronic Braking System market size is expected to reach \$ 1873 million by 2032, rising at a market growth of 9.2% CAGR during the forecast period (2026-2032).

In 2025, global Pneumatic Electronic Braking System production reached approximately 1.1 million sets , with an average global market price of around US\$900 per set.

A Pneumatic Electronic Braking System (PEBS/EBS) is an intelligent vehicle braking system that deeply integrates electronic control technology with conventional pneumatic braking mechanisms. It is mainly used in heavy-duty trucks, commercial buses, trailers, rail transit vehicles, and high-end construction machinery applications. Using compressed air as the braking medium, the system incorporates electronic control units (ECUs), solenoid valve modules, pressure sensors, wheel-speed sensors, brake actuators, and CAN bus communication networks to achieve rapid, precise, and intelligent brake force control for each wheel. Compared with traditional mechanical pneumatic braking systems, PEBS/EBS offers faster braking response, more accurate brake force distribution, improved vehicle stability, stronger safety redundancy capability, and better vehicle coordinated-control performance. The system can dynamically adjust braking force according to vehicle load, speed, wheel rotation, road adhesion conditions, and driving status, thereby effectively shortening braking distance and reducing the risk of skidding, tail swing, and rollover accidents. In addition, it can be deeply integrated with ABS, traction control systems (ASR), electronic stability control (ESC), automatic emergency braking (AEB), advanced driver assistance systems (ADAS), and autonomous driving chassis platforms. With the rapid development of intelligent commercial vehicles, electric heavy-duty trucks, and autonomous transportation equipment, pneumatic electronic braking systems are evolving toward

brake-by-wire architectures, higher integration, intelligent domain-control platforms, and multi-redundant safety systems, becoming a key component of modern intelligent commercial vehicle chassis systems.

The upstream of the pneumatic electronic braking system industry mainly includes suppliers of air compressors, air tanks, solenoid valves, proportional valves, brake valves, ECU controllers, MEMS sensors, wheel-speed sensors, CAN communication modules, power semiconductors, automotive-grade chips, wiring harness connectors, aluminum alloy structural parts, and industrial control software. Representative companies include Bosch, Continental, Knorr-Bremse, WABCO, ZF Friedrichshafen, NXP Semiconductors, and Infineon Technologies. The midstream mainly consists of commercial vehicle electronic braking system manufacturers, intelligent chassis control suppliers, and EBS module manufacturers, including Bosch, Knorr-Bremse, ZF Friedrichshafen, WABCO, and Haldex, which are responsible for EBS system development, electronic control algorithms, pneumatic actuator integration, functional safety validation, and vehicle coordinated-control development. Downstream applications widely cover heavy-duty trucks, electric heavy-duty trucks, commercial buses, trailers, hazardous-material transport vehicles, mining and construction vehicles, rail transit vehicles, and autonomous commercial vehicles. Representative OEMs include Volvo Trucks, Daimler Truck, Scania, MAN Truck & Bus, PACCAR, Yutong Bus, and BYD.

The pneumatic electronic braking system market is currently in a stage of rapid development driven by intelligent commercial vehicles and brake-by-wire technology upgrades, with strong trends toward higher safety, electrification, intelligence, and system integration. Current market conditions show continuously increasing demand from heavy-duty trucks, commercial buses, and electric commercial vehicles for active safety, faster braking response, and intelligent chassis-control capabilities, making EBS systems one of the core configurations gradually replacing traditional mechanical pneumatic braking systems. Industry trends are evolving toward brake-by-wire architectures, highly redundant safety systems, multi-sensor fusion, centralized domain-control platforms, and autonomous-driving coordinated braking technologies, while deep integration with ADAS, connected-vehicle systems, autonomous driving platforms, and intelligent chassis systems is becoming increasingly important. Major market growth drivers include stricter global commercial-vehicle safety regulations, rapid development of electric heavy-duty trucks, rising demand for transportation safety and operational efficiency, and increasing requirements for highly reliable redundant braking systems in autonomous commercial vehicles. However, the industry also faces challenges such as high costs of automotive-grade chips and high-reliability electronic components, lengthy

functional-safety certification cycles, difficulties in validating reliability under complex operating conditions, and ongoing cost-reduction pressure from OEM manufacturers.

This report studies the global Pneumatic Electronic Braking System production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pneumatic Electronic Braking System 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 Pneumatic Electronic Braking System that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pneumatic Electronic Braking System total production and demand, 2021-2032, (K Sets)

Global Pneumatic Electronic Braking System total production value, 2021-2032, (USD Million)

Global Pneumatic Electronic Braking System production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sets), (based on production site)

Global Pneumatic Electronic Braking System consumption by region & country, CAGR, 2021-2032 & (K Sets)

U.S. VS China: Pneumatic Electronic Braking System domestic production, consumption, key domestic manufacturers and share

Global Pneumatic Electronic Braking System production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sets)

Global Pneumatic Electronic Braking System production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

Global Pneumatic Electronic Braking System production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Sets)

This report profiles key players in the global Pneumatic Electronic Braking System 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 Bosch, ZF Friedrichshafen, Knorr Bremse, BPW, Continental, Cojali SL, Bendix, Wabco, Haldex, Ruili Kormee Automotive Electronic, 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 Pneumatic Electronic Braking System market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sets) 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 Pneumatic Electronic Braking System Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pneumatic Electronic Braking System Market, Segmentation by Type:

Single-Circuit EBS System

Dual-Circuit EBS System

Multi-Circuit EBS System

Global Pneumatic Electronic Braking System Market, Segmentation by Operating Voltage:

12V

24V

48V

Global Pneumatic Electronic Braking System Market, Segmentation by Control Type:

Semi-electronic Control

Full Electronic Control

Global Pneumatic Electronic Braking System Market, Segmentation by Application:

Trucks

Buses

Construction Vehicles

Rail Transit

Others

Companies Profiled:

Bosch

ZF Friedrichshafen

Knorr Bremse

BPW

Continental

Cojali SL

Bendix

Wabco

Haldex

Ruili Kormee Automotive Electronic

Youfin Auto Electronic Control

Vie Science&Technology

King-Truck Electron

Key Questions Answered:

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

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