

Global Pneumatic Electronic Braking System 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 Pneumatic Electronic Braking System market size was valued at US\$ 1011 million in 2025 and is forecast to a readjusted size of US\$ 1873 million by 2032 with a CAGR of 9.2% during review period.

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 is a detailed and comprehensive analysis for global Pneumatic Electronic Braking System 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 Pneumatic Electronic Braking System market size and forecasts, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Unit), 2021-2032

Global Pneumatic Electronic Braking System market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Unit), 2021-2032

Global Pneumatic Electronic Braking System market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Sets), and average selling prices (US\$/Unit), 2021-2032

Global Pneumatic Electronic Braking System market shares of main players, shipments in revenue (\$ Million), sales quantity (K Sets), 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 Pneumatic Electronic Braking System

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 Pneumatic Electronic Braking System 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 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.

Market Segmentation

Pneumatic Electronic Braking System 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

Single-Circuit EBS System

Dual-Circuit EBS System

Multi-Circuit EBS System

Market segment by Operating Voltage

12V

24V

48V

Market segment by Control Type

Semi-electronic Control

Full Electronic Control

Market segment by Application

Trucks

Buses

Construction Vehicles

Rail Transit

Others

Major players covered

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

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 Pneumatic Electronic Braking System product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pneumatic Electronic Braking System, with price, sales quantity, revenue, and global market share of Pneumatic Electronic Braking System from 2021 to 2026.

Chapter 3, the Pneumatic Electronic Braking System competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Pneumatic Electronic Braking System 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 Pneumatic Electronic Braking System 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 Pneumatic Electronic Braking System.

Chapter 14 and 15, to describe Pneumatic Electronic Braking System sales channel, distributors, customers, research findings and conclusion.

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