

# **Air Brake System Market Report by Component (Compressor, Governor, Tank, Air Dryer, Foot Valve, Brake Chamber, Slack Adjuster, and Others), Type (Air Disc Brake, Air Drum Brake), Vehicle Type (Rigid Body, Heavy-Duty Truck, Semi-Trailer, Bus), and Region 2024-2032**

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## **Abstracts**

The global air brake system market size reached US\$ 8.2 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 15.9 Billion by 2032, exhibiting a growth rate (CAGR) of 7.5% during 2024-2032.

An air brake system is a friction brake relying on compressed air pressing to stop a vehicle. It includes various components, such as brake chambers, foot valves, slack adjusters, brake shoes, drums, and air reservoirs, dryers and compressors. As compared to hydraulic brakes, an air brake system is more powerful and reliable, provides better control, reduces stopping distance, prevents extensive wear and tear of parts, and offers heavy braking effects. Consequently, it is used in railroad trains and heavy commercial vehicles, including trucks and buses.

### **Air Brake System Market Trends:**

The global market is primarily driven by the widespread adoption of air brake systems due to their reliability and efficiency. These systems are easy to remove and attach and remain effective even with an air leak. In line with this, their increasing demand on account of rising vehicle safety concerns across the globe is creating a positive outlook for the market. Additionally, the introduction of lightweight air brake systems for trailer and line haul applications that use fewer parts and provide more ground clearance, protection from road debris, and higher efficiency are providing an impetus to the

market growth. Furthermore, manufacturers are developing new and advanced components that are effective in the railways and high-speed trains while assuring safety and maintaining control over the vehicle. This, in turn, is strengthening the growth of the market around the world. Other factors, including the implementation of various government initiatives to promote the use of brake systems in heavy vehicles, increasing production and development of high-speed trains, and extensive research and development (R&D) activities, are anticipated to drive the market in the coming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global air brake system market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on component, type and vehicle type.

#### Breakup by Component:

- Compressor
- Governor
- Tank
- Air Dryer
- Foot Valve
- Brake Chamber
- Slack Adjuster
- Others

#### Breakup by Type:

- Air Disc Brake
- Air Drum Brake

#### Breakup by Vehicle Type:

- Rigid Body
- Heavy-Duty Truck
- Semi-Trailer
- Bus

#### Breakup by Region:

North America

United States

Canada

Asia-Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Brakes India Private Limited, Haldex Inc., Knorr-Bremse AG, Meritor Inc. (Cummins Inc.), SORL Auto Parts Inc., TSE Brakes Inc., UNO Minda Limited, Wabtec Corporation, Yumak Air Brake Systems and ZF Friedrichshafen AG.

Key Questions Answered in This Report

1. What was the size of the global air brake system market in 2023?
2. What is the expected growth rate of the global air brake system market during 2024-2032?
3. What are the key factors driving the global air brake system market?

4. What has been the impact of COVID-19 on the global air brake system market?
5. What is the breakup of the global air brake system market based on the component?
6. What is the breakup of the global air brake system market based on the type?
7. What is the breakup of the global air brake system market based on the vehicle type?
8. What are the key regions in the global air brake system market?
9. Who are the key players/companies in the global air brake system market?

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