

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G676B2D39383EN.html>

Date: June 2026

Pages: 146

Price: US\$ 4,480.00 (Single User License)

ID: G676B2D39383EN

Abstracts

The global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market size is expected to reach \$ 7142 million by 2032, rising at a market growth of 18.6% CAGR during the forecast period (2026-2032).

Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives refers to unmanned, explosion-proof automatic guided transport equipment specially designed for production, storage and transfer of civil explosive materials. Its core features include explosion-proof safety design (meeting Zone 1/21 hazardous area classification), autonomous navigation & path planning, multi-sensor fusion perception, remote monitoring & dispatching, and full-process automatic docking with explosive production lines. Distinguished from ordinary industrial AGVs, it must comply with stringent safety requirements for controlling ignition hazards in explosive atmospheres, including mechanical sparks, electrical sparks, electrostatic discharge, RF radiation and optical radiation. According to GB/T 37669-2019, it is applicable to hazardous areas (Zone 1/2 for gas, Zone 21/22 for dust) in explosive production workshops, transfer warehouses and finished product warehouses, serving as a key logistics equipment to achieve unmanned, intelligent and intrinsically safe operations in the civil explosive industry.

AGV for hazardous areas in civil explosives is the core equipment for machine substitution and intrinsic safety in the explosives and high-risk chemical industry. Its technical barrier lies not in navigation or scheduling algorithms, but in type explosion-proof certification and proven reliability under extreme conditions. While a standard industrial AGV costs USD 100,000-200,000, a Zone 1/21 certified AGV (Ex d e ib mb ?B T4 Gb / Ex td A21) can cost USD 400,000-1,000,000, with explosion-proof

motor, battery, charger and control system accounting for over 60% of the incremental cost. Margins diverge sharply: King Explorer achieved 57.48% gross margin in special equipment in H1 2025, two to three times that of ordinary AGVs; integrators providing only the vehicle body or retrofit services see margins around 20-30%. Downstream primary applications: explosive production workshops (Zone 1) account for the largest share (~45%); transfer warehouses and automated finished product depots (Zone 2/21) together make up ~35%; the remainder includes loading docks, hazardous chemical transfer, and military/aerospace. Incremental demand is driven by: (1) the MIIT mandate that by end-2025 each explosive line shall have 3 operators, forcing smart retrofitting; (2) new smart explosive plants and unmanned hazardous warehouses increasing AGV penetration; (3) replacement demand as explosion-proof certification lifetime is only 5-8 years. Upstream-downstream structure: upstream - explosion-proof chassis, motors, batteries, and navigation sensors (Heli, Houben, etc.); midstream - AGV manufacturers with full type certification (King Explorer, 58 Robot, Saiford, Pengxiang) and global leader KION; downstream - explosive manufacturers, military groups, and hazardous chemical companies. Landscape : King Explorer leads the domestic market as the only listed intelligent equipment company in the explosives sector; 58 Robot, Saiford, and Pengxiang have Zone 1/21 certified products; KION's Linde brand has global recognition but local supply is mainly through agents. Uncertainties include: (1) lengthy approval cycles for new entrants to obtain full type explosion-proof certification (2-3 years); (2) overcapacity in the explosives industry affecting capital expenditure; (3) thermal runaway risks of lithium-iron-phosphate batteries in hazardous areas limiting their adoption; (4) policy implementation speed. Conclusion: AGV for hazardous areas in civil explosives is a mandatory-driven equipment for safety and regulatory compliance. Core drivers are the MIIT targets for robot substitution and unmanned explosive lines. Structural features are high certification barriers, strong customer loyalty, and gross margins far exceeding ordinary AGVs. Companies with full type certification and proven track records will continue to benefit over the next 3-5 years.

This report studies the global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives total production and demand, 2021-2032, (Units)

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives total production value, 2021-2032, (USD Million)

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives domestic production, consumption, key domestic manufacturers and share
Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 King Explorer (002917), Suzhou Saiford Automation Technology, Mianyang 58 Robot Technology, Shandong Pengxiang Automobile, Xi'an Chenghe Industrial Automation Equipment, Shenzhen Ruilangte Explosion-Protected Vehicle, Concise Explosion-Proof Technology (SuZhou), Anhui Heli (KION Group), Hazardtex (Suzhou Hazardtex Mech Equip), Shenzhen Bater Explosion-Proof Technology, 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 Automatic Guided Vehicle (AGV) for Hazardous Operation

Areas in Civil Explosives market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives Market, Segmentation by Type:

Counterbalanced Forklift AGV

Lateral Fork AGV

Tugger/Trailer AGV

Self-loading/unloading AGV

Flatbed AGV

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives Market, Segmentation by EPL:

Zone 2 / 22 (EPL Gc/Dc)

Zone 1 / 21 (EPL Gb/Db)

Zone 0 / 20 & Below

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives Market, Segmentation by Application:

Explosives Manufacturing Workshop

Intermediate Transfer Warehouse

Finished Product Warehouse (Automated Warehouse)

Loading & Unloading Dock

Hazardous Chemical Transfer

Military & Aerospace

Others

Companies Profiled:

King Explorer (002917)

Suzhou Saiford Automation Technology

Mianyang 58 Robot Technology

Shandong Pengxiang Automobile

Xi'an Chenghe Industrial Automation Equipment

Shenzhen Ruilangte Explosion-Protected Vehicle

Concise Explosion-Proof Technology (SuZhou)

Anhui Heli (KION Group)

Hazardtex (Suzhou Hazardtex Mech Equip)

Shenzhen Bater Explosion-Proof Technology

KION Group

ABC-Explosionsschutz GmbH

BYD

Houben GmbH

Nustrack

Intrion

Key Questions Answered:

1. How big is the global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market?
2. What is the demand of the global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market?
3. What is the year over year growth of the global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market?
4. What is the production and production value of the global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market?
5. Who are the key producers in the global Automatic Guided Vehicle (AGV) for

Hazardous Operation Areas in Civil Explosives market?

6. What are the growth factors driving the market demand?

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