

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market size was valued at US\$ 2161 million in 2025 and is forecast to a readjusted size of US\$ 7142 million by 2032 with a CAGR of 18.6% during review period.

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 i b 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 is a detailed and comprehensive analysis for global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2021-2032

Global Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives

- 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 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.

Market Segmentation

Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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

Counterbalanced Forklift AGV

Lateral Fork AGV

Tugger/Trailer AGV

Self-loading/unloading AGV

Flatbed AGV

Market segment by EPL

Zone 2 / 22 (EPL Gc/Dc)

Zone 1 / 21 (EPL Gb/Db)

Zone 0 / 20 & Below

Market segment by Application

Explosives Manufacturing Workshop

Intermediate Transfer Warehouse

Finished Product Warehouse (Automated Warehouse)

Loading & Unloading Dock

Hazardous Chemical Transfer

Military & Aerospace

Others

Major players covered

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

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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives, with price, sales quantity, revenue, and global market share of Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives from 2021 to 2026.

Chapter 3, the Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape

contrast.

Chapter 4, the Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives 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 Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives.

Chapter 14 and 15, to describe Automatic Guided Vehicle (AGV) for Hazardous Operation Areas in Civil Explosives sales channel, distributors, customers, research findings and conclusion.

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