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Global Mine Compressed-Air Self-Rescue Device Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Mine Compressed-Air Self-Rescue Device market size is expected to reach $ 47.00 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

The mine compressed-air self-rescue device is a piece of personal protective equipment permanently installed near compressed-air pipelines, disaster-escape routes, or emergency refuge facilities in coal mines and underground metal/non-metal mines. It utilizes the mine's compressed-air supply to create a localized positive-pressure breathing zone. In the event of gas outbursts, fire smoke, toxic or hazardous gas influx, or ventilation anomalies, it provides personnel seeking refuge with a continuous supply of fresh air that has undergone pressure reduction, filtration, oil-water separation, and noise suppression. The device typically consists of a stainless steel or powder-coated steel enclosure, an air intake manifold, a shut-off valve, a pressure-reducing/regulating valve, a filter, an oil-water separator, a pressure gauge, a silencer, an air supply hose, and a protective hood or breathing mask. It performs functions such as pressure reduction, flow restriction, noise suppression, filtration, and on/off control. These devices are primarily deployed at coal mining faces, tunneling faces, blasting sites, manned areas within return-air roadways, shaft-bottom stations, transport roadways, pump rooms, substations, long blind headings, and refuge chambers. The upstream supply chain includes stainless steel and carbon steel plates, copper and brass valve components, pressure-reducing valves, filters, oil-water separators, pressure gauges, silencers, rubber and polyurethane hoses, silicone or rubber masks, protective hoods, seals, and fasteners. The midstream sector involves enclosure sheet-metal fabrication and welding, pneumatic system design, assembly of valve groups and filtration units, testing of airtightness and air supply flow rates, noise testing, verification of flame-retardant and anti-static materials, application for mining safety certification, and final

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factory inspection. The downstream market consists of coal mines and underground metal and non-metal mines.

Report Scope

This report studies the global Mine Compressed-Air Self-Rescue Device production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Mine Compressed-Air Self-Rescue Device 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 Mine Compressed-Air Self-Rescue Device that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Mine Compressed-Air Self-Rescue Device total production and demand, 2021-2032, (Units)

Global Mine Compressed-Air Self-Rescue Device total production value, 2021-2032, (USD Million)

Global Mine Compressed-Air Self-Rescue Device production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Mine Compressed-Air Self-Rescue Device consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Mine Compressed-Air Self-Rescue Device domestic production, consumption, key domestic manufacturers and share

Global Mine Compressed-Air Self-Rescue Device production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Mine Compressed-Air Self-Rescue Device production by Type,

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production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Mine Compressed-Air Self-Rescue Device production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Mine Compressed-Air Self-Rescue Device 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 Shaanxi ASTTAR Explosion-Proof Safety Technology, Zhejiang Zhongkuang Explosion-Proof Technology, Zhejiang Zheng'an Explosion-proof Electrical, Jinan Jiahong Technology, Shaanxi Huazhong Coal Mine Equipment, Tanke Qingchuang Energy Technology (Xuzhou), Shandong Ruinachuang Machinery Equipment, Hebi Yongcheng Mining Equipment Manufacturing, Shandong Dongda Electromechanical, Funing Yongxing Mine Ventilation Equipment Factory, 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 Mine Compressed-Air Self-Rescue Device 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 Mine Compressed-Air Self-Rescue Device Market, By Region:

United States

China

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Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Mine Compressed-Air Self-Rescue Device Market, Segmentation by Type:

Bag-Type Compressed-Air Self-Rescue Device

Mask-Type Compressed-Air Self-Rescue Device

Global Mine Compressed-Air Self-Rescue Device Market, Segmentation by Installation Method:

Wall-Mounted Box Type

Pipeline Junction Type

Integrated Refuge Chamber Type

Global Mine Compressed-Air Self-Rescue Device Market, Segmentation by Application:

Coal Mine

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Underground Metal and Non-Metal Mines

Companies Profiled:

Shaanxi ASTTAR Explosion-Proof Safety Technology

Zhejiang Zhongkuang Explosion-Proof Technology

Zhejiang Zheng'an Explosion-proof Electrical

Jinan Jiahong Technology

Shaanxi Huazhong Coal Mine Equipment

Tanke Qingchuang Energy Technology (Xuzhou)

Shandong Ruinachuang Machinery Equipment

Hebi Yongcheng Mining Equipment Manufacturing

Shandong Dongda Electromechanical

Funing Yongxing Mine Ventilation Equipment Factory

Key Questions Answered

1. How big is the global Mine Compressed-Air Self-Rescue Device market?
2. What is the demand of the global Mine Compressed-Air Self-Rescue Device market?
3. What is the year over year growth of the global Mine Compressed-Air Self-Rescue Device market?
4. What is the total value of the global Mine Compressed-Air Self-Rescue Device market?
5. Who are the Major Players in the global Mine Compressed-Air Self-Rescue Device market?
6. What are the growth factors driving the market demand?

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