

Metal Cutting Gas Market Research Report: Demographics your need to Target with Forecasted CAGR 4.2% During 2022-2031

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/EINPresswire.com/ -- The [metal cutting gas industry](#) is a sector of the industrial gases industry that provides gases and related equipment for cutting, welding, and other metalworking processes. These gases are essential in various metal fabrication and manufacturing operations.



Metal Cutting Gas Market Report

According to the report, the global metal cutting gas industry generated \$2.7 billion in 2021, and is anticipated to generate \$4.0 billion by 2031, witnessing a CAGR of 4.2% from 2022 to 2031.

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- Oxy-Fuel Gases: Oxygen and fuel gases such as acetylene, propane, and natural gas are used for oxy-fuel cutting and welding processes. Oxygen supports the combustion of the fuel gas, creating a high-temperature flame for cutting or welding.

- Shielding Gases: Gases like argon, helium, and carbon dioxide are used to protect the molten metal and the welding electrode from atmospheric contaminants during welding processes like MIG (Metal Inert Gas) and TIG (Tungsten Inert Gas) welding.

- Plasma Cutting Gases: Special gases are used in plasma cutting processes to create a high-temperature plasma arc that can cut through metals.

The surge in population coupled with rapid urbanization has surged the growth of the construction sector in both developed and developing economies, where metal-cutting gases are popularly used in the construction industry for cutting, welding, and designing various steel materials. This factor drives the growth of the global metal cutting gas market. However, lack of technical expertise and adoption of high-range advanced metal cutting machinery restrict the market growth.

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The acetylene segment held the highest market share in 2021, accounting for nearly two-fifths of the global metal cutting gas market, and is estimated to maintain its leadership status throughout the forecast period. This segment is projected to manifest the highest CAGR of 4.5% from 2022 to 2031. Among all other gases, acetylene can produce the hottest flame owing to which it is widely used in industrial applications.

Safety is a critical concern in the metal cutting gas industry due to the flammable nature of some gases. The industry is subject to various safety regulations and standards to ensure the safe handling, storage, and transportation of gases.

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Environmental considerations are becoming increasingly important in the industry. Efforts are made to reduce emissions, increase energy efficiency, and explore greener alternatives for metal cutting and welding processes.

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The metal and metal fabrication segment held the highest market share in 2021, accounting for nearly one-thirds of the global metal cutting gas market, and is estimated to maintain its leadership status throughout the forecast period. Ongoing infrastructure activities and increase in the usage of prefabricated structures in the construction industry are accelerating the segment growth. However, the aerospace segment is projected to manifest the highest CAGR of 4.6% from 2022 to 2031.

Major global companies involved in the metal cutting gas industry include Air Liquide, Linde,

Major global companies involved in the metal cutting gas industry include Air Liquide, Linde,

Praxair, and Messer Group. These companies produce and supply a wide range of gases, equipment, and services to support metalworking processes.

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Industry trends may include advancements in gas technology, the adoption of automation and robotics in metalworking, and the development of more environmentally friendly processes.

Asia-Pacific held the highest market share in terms of revenue in 2021, accounting for nearly half of the global metal cutting gas market, and is likely to dominate the market during the forecast period. This region is expected to witness the fastest CAGR of 4.6% from 2022 to 2031. Several manufacturers have increased the production capacities for metal cutting gases. For instance, Indian Oil Corporation Ltd. has launched Indane NANOCUT that enhances the efficiency of LPG as cutting gas in terms of high flame temperature, low oxygen consumption, and reduces cylinder inventory, thereby leading to the better economy to the user. This innovative product launch is expected to drive the overall potential sales of metal cutting gas market in the Asia-Pacific region.

The metal cutting gas industry plays a crucial role in the manufacturing and construction sectors, as it provides the gases and technology necessary for various metalworking applications. It continues to evolve and adapt to meet the changing needs of the industrial sector while addressing environmental and safety concerns.

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- Total Energies SE,
- Hornet Cutting Systems,
- Ador Welding Limited,
- Bharat Petroleum Corporation Limited,
- LEVSTAL,
- NISSAN TANAKA CORPORATION,
- Indian Oil Corporation Ltd,
- Haco,
- Brothers gas

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