

# **Underground Mining Market By Product (Supported, Unsupported, Caving) , By Operator (Contract Mining, Operator Mining) By Application (Coal Mining, Metal Mining, Mineral Mining, Others) : Global Opportunity Analysis and Industry Forecast, 2024-2033**

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## **Abstracts**

### Underground Mining Market

The underground mining market was valued at \$23.1 Billion in 2023, and is projected to reach \$28.5 Billion by 2033, growing at a CAGR of 2.1% from 2024 to 2033.

Underground mining involves the extraction of minerals, ores, and other geological materials from the underground surface of the earth. In this form of mining, holes are created on the earth's surface by blasting. On average, underground mining involves digging up to 1,000ft deeper into the Earth's surface. However, for some minerals such as uranium the earth is dug up to an extreme range of 6,500ft.

Surge in the expansion of industrialization and urbanization has boosted the demand for metals & minerals, hence driving the growth of the underground mining market. In addition, scarcity of resources on the upper surface of the earth is increasing the requirement for underground mining to dig deeper and extract resources. The market development is significantly propelled by advancements in technology, including automation and improved ventilation systems. Moreover, real-time monitoring technique is boosting the adoption of innovative mining technologies as the technique ensures improved worker safety and amplified productivity. The trend of AI has assimilated into the operations of underground mining. Mining companies have begun to use the attributes of AI such as data analytics and automation to optimize their operations, reduce downtime, and lower the maintenance costs. AI further facilitates the

prediction of geotechnical conditions, assisting the mining companies in decision making regarding risk mitigation.

However, underground mining is a cost-intensive procedure as it requires significant expenditure for different activities such as ventilation, drilling, ground support, and safety measures. This hampers the development of the underground mining market. Furthermore, the market growth is subject to several regulatory measures pertaining to worker safety, environment protection, and resource management. Compliance with these regulations is an intricate and time-consuming process, which delays the development. According to Statista, a global data and business intelligence platform, the net profit margin of the global mining industry has declined from 25% in 2010 to 14% in 2022. Contrarily, explorations in deep-sea mining and advancements in underwater robotics for extraction are poised to open new avenues for the market expansion.

## Segment Review

The underground mining market is segmented into product, operator, application, and region. On the basis of product, the market is divided into supported, unsupported, and caving. Depending on operator, it is bifurcated into contract mining and operator mining. As per application, it is classified into coal mining, metal mining, mineral mining, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa.

## Key Findings

On the basis of product, the supported segment acquired a high stake in the market in 2023.

Depending on operator, the contract mining segment held a high market share in 2023.

As per application, the coal mining segment accounted for a high market share in 2023.

Region wise, Asia-Pacific is anticipated to be the highest revenue generator by 2033.

## Competition Analysis

The major players of the global underground mining market include BHP, Anglo-American PLC., Rio Tinto, Vale SA, Implats Platinum Limited, MMC Norilsk

Nickel PJSC, Amur Minerals Corporation, Alcoa Corporation, The Redpath Group, and GBF Underground Mining Company Limited. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships to strengthen their foothold in the competitive market.

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Average Consumer Expenditure

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## Key Market Segments

### By Product

Supported

Unsupported

Caving

### By Operator

Contract Mining

Operator Mining

### By Application

Coal Mining

Metal Mining

Mineral Mining

Others

### By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Argentina

Rest of

Middle East Africa

South Africa

UAE

Saudi Arabia

Rest of Middle East Africa

Key Market Players

BHP

Anglo American PLC.

Rio Tinto

Vale SA

Implats Platinum Limited

MMC Norilsk Nickel PJSC

Amur Minerals Corporation

Alcoa Corporation

The Redpath Group

GBF Underground Mining Company Limited

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