

Astronaut Spacesuit Market By Type (EVA Suits, IVA Suits) , By Design (Soft Suits, Hard Shell Suits, Skin Tight Suits, Hybrid Suits) By Application (EVA Activities, IVA Activities) : Global Opportunity Analysis and Industry Forecast, 2024-2033

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Abstracts

Astronaut Spacesuit Market

The astronaut spacesuit market was valued at \$0.9 billion in 2023 and is projected to reach \$1.7 billion by 2033, growing at a CAGR of 6.6% from 2024 to 2033.

An astronaut spacesuit is a set of clothing that acts as a miniature spaceship for individuals during space exploration. It is equipped with essential components that protect astronauts from the potential threats of being outside the vehicle for their mission, including extreme temperature, radiation, and debris. There are two major components of an astronaut spacesuit, a pressure garment and a life support system. A pressure garment is a body-shaped structure of spacesuits that shields the body and enables mobility.

Increase in investments in space exploration projects & associated infrastructure from government agencies and private companies has propelled the development of the astronaut spacesuit market. In addition, efforts by stakeholders to promote commercial space tourism in the future are expected to fuel the demand for lightweight & comfortable spacesuits and augment the market growth in the coming years. In recent times, the deployment of smart materials and innovative manufacturing techniques such as 3D printing has become a prominent trend in the astronaut spacesuit market. 3D printing enables customization of spacesuits according to the size of each astronaut and smart materials are poised to enhance their overall functionality.

However, limited number of missions and astronauts make the space industry a niche landscape that prevents large-scale commercialization of the astronaut spacesuit market and hampers its growth. On the contrary, the partnership of space agencies with luxury fashion brands and space infrastructure developers to create cutting-edge spacesuits is presenting lucrative opportunities for market expansion. For instance, Prada—an Italian luxury fashion house—and Axiom Space—a provider of space infrastructure—are working in collaboration to design a spacesuit to be used for NASA's Artemis 3 mission to the moon.

Segment Review

The astronaut spacesuit market is segmented into type, design, application, and region. On the basis of type, the market is bifurcated into EVA suits and IVA suits. Depending on design, it is divided into soft suits, hard shell suits, skintight suits, and hybrid suits. As per application, it is classified into EVA activities and IVA activities. Region wise, it is analyzed across North America, Europe, Asia-Pacific, Latin America, and Middle East & Africa.

Key Findings

On the basis of type, the EVA suits segment held a high share of the market in 2023.

Depending on design, the hard shell suits segment acquired a high stake in the market in 2023.

As per application, the EVA activities segment dominated the market in 2023.

Region wise, North America was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global astronaut spacesuit market include The Boeing Company, Collins Aerospace, David Clark Company, Austrian Space Forum, Space Exploration Technologies Corp, Final Frontier Design, NPP Zvezda, Garrett AiResearch, Oceaneering International, and Sure Safety India Ltd. 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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Key Market Segments

Astronaut Spacesuit Market By Type (EVA Suits, IVA Suits) , By Design (Soft Suits, Hard Shell Suits, Skin Tigh...

By Type

EVA Suits

IVA Suits

By Design

Soft Suits

Hard Shell Suits

Skin Tight Suits

Hybrid Suits

By Application

EVA Activities

IVA Activities

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

UK

Russia

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Rest of Asia-Pacific

Latin America

Brazil

Argentina

Rest of Latin America

Middle East and Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East and Africa

Key Market Players

The Boeing Company

Collins Aerospace

David Clark Company

Austrian Space Forum

Space Exploration Technologies Corp

Final Frontier Design

NPP Zvezda

Garrett AiResearch

Oceaneering International

Sure Safety India Ltd.

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