

Mushroom Cultivation Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Button Mushroom, Oyster Mushroom, Shiitake Mushroom, and Others), By Phase (Composting, Spawning, Casing, Pinning, Harvesting), By Form (Canned, Frozen, Fresh, Dried, Others), By Technique (Bedding and Cushion), By Region & Competition, 2021-2031F

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Abstracts

The global mushroom cultivation market is set to expand from USD 19.11 billion in 2025 to USD 27.14 billion by 2031, achieving a 6.02% CAGR. This sector involves the precise agricultural production of fungi, employing sterilized substrates such as compost to ensure peak yields. This growth is primarily fueled by a rising demand for plant-based proteins and increasing consumer appreciation for the functional health advantages of mushrooms.

Additionally, the culinary versatility of mushrooms allows for their integration into diverse dietary plans, maintaining their appeal among health-conscious consumers. However, the industry faces substantial challenges from high operational costs, specifically those related to labor and energy for climate control, which can constrain profit margins and scalability. Consumer preferences for particular high-value varieties are evident, with crimini mushrooms alone making up 52.2% of all organic fresh mushroom dollar sales in 2025, as reported by The Mushroom Council.

Market Driver

The mushroom cultivation industry is significantly propelled by the rising global adoption of plant-based and vegan diets, as consumers increasingly seek sustainable and texture-rich alternatives to animal proteins. Fungi, especially darker varieties, are highly valued for their dense, meaty consistency and umami flavor, positioning them as essential ingredients in meat-substitute formulations and plant-forward culinary applications. This dietary shift has directly stimulated higher production volumes for mushroom types aligning with meat replacement trends, with the sales volume of brown mushrooms, including Portobello and Crimini varieties, increasing by 8% to 196 million pounds during the 2024-2025 season, according to the USDA National Agricultural Statistics Service.

A parallel catalyst driving demand is the increasing consumer awareness of mushrooms' nutritional and medicinal benefits, leading to a preference for products offering functional health advantages and clean-label assurances. Shoppers are gravitating towards mushrooms for their immune-boosting properties and rich nutrient content, a trend that has notably bolstered the organic market segment. This niche expansion significantly contributes to the industry's overall financial strength; sales of organic mushrooms in the US rose by 6.7% to \$249 million in 2024, and the total value of sales for the United States mushroom crop reached \$1.10 billion in 2025.

Market Challenge

The global mushroom cultivation market's expansion faces a substantial barrier due to the high operational costs associated with labor and energy for climate control. These financial pressures directly compress profit margins, thereby impeding producers' capacity to invest in modernizing facilities or expanding production. Mushroom cultivation is notably labor-intensive, especially during harvesting, and demands precise, energy-dependent environmental regulation to ensure crop viability, leading to consistently high fixed costs irrespective of market price changes.

Consequently, producers frequently experience reduced capital liquidity, which limits their ability to scale operations to meet escalating global demand. Recent industry findings underscore the severity of these overheads, revealing that labor costs alone accounted for between 60% and 66% of total production costs in 2024, as per the American Mushroom Institute. This disproportionate expense structure leaves growers vulnerable to even slight increases in wage rates or energy prices, ultimately compromising the financial viability of expanding production cycles and effectively stalling market growth despite positive demand trends.

Market Trends

The mushroom cultivation sector is undergoing a significant transformation with the integration of robotic systems for automated harvesting, a trend that is critically addressing labor shortages and ensuring consistent crop quality. Producers are increasingly deploying autonomous platforms capable of precisely identifying, picking, and packing mushrooms, thereby mitigating the financial risks associated with reliance on manual labor. This technological shift is attracting substantial capital to scale operations and optimize harvest cycles, enabling growers to sustain continuous production schedules independent of human labor availability.

Another key trend is the development of mushroom-infused nutraceutical and CPG formulations, which is prompting cultivators to diversify their crop portfolios towards high-value medicinal strains for the wellness market. Manufacturers are capitalizing on the nootropic properties of specific fungi, such as Lion's Mane, by incorporating concentrated extracts into convenient formats like beverages and supplements, a distinct shift from the traditional fresh culinary segment. This evolution incentivizes growers to adopt specialized substrates and processing capabilities to meet the precise specifications of health-focused product lines, with 4AG Robotics recently securing CAD 40 million in Series B funding for its autonomous harvesting platform and sales of mushrooms in the cognitive health category reaching \$12.6 million, a 28.6 percent increase from the previous year.

Key Market Players

Smithy Mushrooms Ltd.

Rheinische Pilz Zentrale GmbH

Monaghan Mushrooms Ltd

Walsh Mushrooms Group

South Mill Mushrooms Sales Inc.

Hirano Mushroom LLC

Gourmet Mushrooms, Inc.

Fresh Mushroom Europe NV

L F Lambert Spawn Co

Polar Shiitake Oy

Report Scope

In this report, the Global Mushroom Cultivation Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Mushroom Cultivation Market, By Type

Button Mushroom

Oyster Mushroom

Shiitake Mushroom

Others

Mushroom Cultivation Market, By Phase

Composting

Spawning

Casing

Pinning

Harvesting

Mushroom Cultivation Market, By Form

Canned

Frozen

Fresh

Dried

Others

Mushroom Cultivation Market, By Technique

Bedding

Cushion

Mushroom Cultivation Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Mushroom Cultivation Market.

Available Customizations:

Global Mushroom Cultivation Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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