

# **Plant Factory Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028**

## **Segmented By Facility Type (Greenhouses, Indoor Farms, Others), By Light (Artificial Light and Sunlight), By Growing System (Soil-Based, Non-Soil-Based, Hybrid), By Type (Fruits & Vegetables, Ornamental Plants & Flowers, Others), By Region and Competition**

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### **Abstracts**

Global Plant Factory Market has valued at USD 5.84 Billion in 2022 and is anticipated to project impressive growth in the forecast period with a CAGR of 6.03% through 2028. A Plant Factory, also referred to as a vertical farm, is an innovative and sustainable solution for cultivating vegetables indoors throughout the year. Utilizing advanced techniques, this closed growing system creates an optimal environment that includes artificial light and precise control over factors like temperature, humidity, and nutrients. By harnessing these technologies, Plant Factories enable the production of crops with enhanced growth rates and superior nutrient qualities.

Furthermore, these state-of-the-art facilities have the potential to address global food scarcity challenges by overcoming limitations imposed by seasonal variations and unfavorable weather conditions. Regardless of the geographical location, Plant Factories empower farmers to grow staple crops consistently and reliably, ensuring a stable food supply throughout the year. This breakthrough in agricultural practices represents a significant step forward towards achieving food security and sustainability in the face of a changing climate and growing population.

### **Key Market Drivers**

## Growing Demand for Fresh & Locally Grown Produce

The growth of the plant factory market is being driven by the increasing demand for fresh, locally grown produce. Consumers are placing a higher priority on the freshness, nutritional value, and sustainability of their food. Plant factories are meeting this demand by offering year-round crop production regardless of weather conditions. Through controlled environment agriculture and vertical farming technologies, plant factories are able to provide optimal growing conditions indoors, ensuring consistent crop quality. This is particularly beneficial in regions with challenging climates or limited arable land. Consumers are choosing locally grown produce for reasons such as food security, reduced carbon footprint, and support for local economies. Plant factories located in urban areas are bringing food production closer to consumers, resulting in fresher and more sustainable production. By implementing sustainable practices, such as efficient resource usage and minimal pesticide use, plant factories align with consumers' environmental concerns. The market is expected to continue growing as consumer demand for fresh, locally grown produce remains strong.

The plant factory market is flourishing as sustainability takes center stage. The increased focus on sustainability has become a driving force behind the market's growth. Plant factories offer a more sustainable approach to food production compared to traditional farming methods. These facilities utilize advanced technologies, including vertical farming and hydroponics, which significantly reduce resource consumption. Water usage in plant factories is highly efficient, as crops are grown in a controlled environment with precise irrigation systems. This efficiency helps conserve water, which is a critical global concern, and minimizes the need for pesticides by maintaining a sterile environment that prevents the intrusion of pests and diseases.

Additionally, plant factories require less land compared to traditional agriculture, as crops are cultivated vertically. This vertical stacking allows for higher crop yields within a smaller footprint. Moreover, establishing plant factories closer to urban areas reduces the carbon footprint associated with transportation and distribution, as produce can be delivered locally, reducing food miles. By embracing sustainable practices and reducing resource consumption, plant factories contribute to environmental conservation, address food security challenges, and promote a more efficient and eco-friendly approach to agriculture. As sustainability continues to gain prominence, the plant factory market is poised for further expansion and adoption as a key player in the future of sustainable food production.

## Increasing Global Population

The expectation of an increase in the global population significantly impacts the outlook on the global demand for Plant Factories. With the world's population projected to reach nearly 10 billion by 2050, the issue of food security becomes even more critical. Plant Factories, with their ability to cultivate crops in a controlled environment, present a viable solution to this impending problem. These facilities, which utilize vertical farming techniques, can produce food in large quantities while using fewer resources compared to traditional farming methods. They are not bound by seasonal restrictions and are less affected by climatic changes, providing a year-round supply of fresh produce. Moreover, the rise in urbanization and the subsequent decrease in arable lands also contribute to the growing interest in Plant Factories. As per estimates, around 80% of the global population will reside in urban areas by 2050, further intensifying the demand for these efficient farming systems. Not to mention, the increasing awareness about sustainable practices and the need to reduce the carbon footprint also adds to the appeal of Plant Factories. Thus, the surge in the global population, coupled with environmental considerations and urbanization trends, is expected to significantly increase the demand for Plant Factories worldwide.

### Increased Investment in Research & Development

In the rapidly evolving global market, an increased investment in Research & Development (R&D) is projected to fuel the worldwide demand for plant factories. Advanced research can unearth innovative cultivation techniques, energy-efficient growth systems, and viable ways to maximize crop yield in these controlled environments. The incorporation of cutting-edge technology, achieved through enhanced R&D investments, can lead to the development of high-performance plant factories capable of producing crops year-round, regardless of climatic conditions. The potential to sustainably offer fresh, locally-grown produce can stimulate demand globally, particularly in urban regions with limited arable land. Furthermore, advancements in genetic research can lead to the cultivation of disease-resistant and climate-tolerant crop varieties, substantially increasing productivity and, therefore, market demand. By ensuring a consistent supply of high-quality produce and mitigating the risks associated with traditional agriculture, plant factories present a compelling proposition in the global market. The continuous evolution of these facilities, propelled by robust R&D investment, sets the stage for a significant surge in global demand.

### Advancements in Technology & Automation

Technological advancements play a pivotal role in driving the expansion and innovation

within the market. Breakthroughs in LED lighting technology have significantly improved energy efficiency and reduced operating costs for indoor farming. By utilizing advanced automation and control systems, farmers can now precisely monitor and adjust environmental factors such as temperature, moisture, and nutrient delivery, ensuring optimal plant growth conditions. These technological advancements not only enhance operational efficiency and increase productivity within Plant Factories but also contribute to improved resource utilization, making indoor farming more sustainable and environmentally friendly.

As technology continues to evolve, the scalability and viability of the market are further enhanced. The remarkable benefits of these advancements attract investments and foster innovation within the industry, paving the way for even more exciting developments in the future. With ongoing research and continuous improvement, the potential for indoor farming to revolutionize the agricultural landscape is boundless.

## Key Market Challenges

### High Upfront Costs Associated with Establishing a Plant Factory

Highly advanced and efficient, plant factories present an innovative solution to food production challenges, particularly in regions with extreme climates or limited arable land. Despite these benefits, the high upfront costs associated with establishing a plant factory are a significant obstacle, potentially diminishing global demand. Setting up a plant factory requires substantial capital investment in advanced technologies like artificial lighting, automated systems, and climate control mechanisms. Additionally, the operational costs including energy consumption, maintenance, and labor costs further compound the financial burden. In developing countries, where such technologies are often unaffordable, the adoption of plant factory systems may be particularly low. Even in developed markets, entrepreneurs and businesses may hesitate to invest due to the financial risks involved. As a result, while plant factories promise a futuristic approach to sustainable agriculture, their high establishment costs could lead to a decrease in global demand, unless solutions are found to make them more economically viable.

### Market Acceptance Among Consumers

Market acceptance among consumers is a crucial factor influencing the demand for any product or service. In the context of Plant Factories, a recent trend of adopting more natural, traditional, and organic farming methods may adversely impact their global demand. Consumers, increasingly aware and concerned about the environment and

their health, are shifting their preferences towards organically grown produce that reflects the essence of natural farming methods. The idea of factory-produced plants might not resonate with their new preferences, leading to a gradual decrease in demand. Additionally, the perception of plants produced in a factory setting might be construed as less fresh or less natural, further deterring consumers. Furthermore, consumers' suspicions about the use of growth hormones or genetic modifications in plant factories can exacerbate this trend. Even though plant factories promise a higher yield and consistent quality, they may face a significant demand challenge if they fail to align with evolving consumer preferences. Thus, market acceptance, driven by consumer sentiment and preferences, could potentially decrease the global demand for Plant Factories.

## Key Market Trends

### Expansion of Vertical Farming & Urban Agriculture

Global demand for Plant Factory is anticipated to surge significantly due to the expansion of vertical farming and urban agriculture. The underlying drive stems from the escalating urban population and the resultant squeeze on arable land, making vertical farming an optimal solution for food production. Leveraging vertical planes, these farms not only increase yield per unit area but also ensure year-round cultivation, independent of climatic fluctuations. Furthermore, urban agriculture promotes local food production, greatly reducing the carbon footprint associated with long-haul transportation of farm produce. As cities become more self-sufficient in food production, the reliance on Plant Factory technology intensifies. This technology, encompassing advanced hydroponics, aeroponics, and aquaponics systems, facilitates the precision control of growth parameters, boosts yield, and reduces resource wastage. Additionally, these closed-loop systems are pesticide-free and consume significantly less water compared to conventional farming. The convergence of these factors propels the global demand for Plant Factory, aligning with the broader sustainability and urban resilience goals.

### Diversification of Crop Varieties

Diversification of crop varieties is predicted to significantly augment the global demand for plant factories. This is primarily due to the increasing need for high-yield, resilient crop varieties that can effectively adapt to various climatic conditions, particularly in the face of climate change. Plant factories offer a controlled environment for crop production, allowing farmers to grow diverse crops throughout the year, regardless of external weather conditions. This is particularly crucial for cultivating less common, but

high-demand crops that may not flourish in conventional outdoor farming environments. Furthermore, the ability to cultivate diverse crops in a single location reduces dependency on imports, thereby promoting local agriculture and enhancing food security. Additionally, plant factories employ advanced technologies, such as automated farming and hydroponics, which increase crop yield and quality, further driving demand. Consequently, as the need for crop diversification grows, so too does the appeal of plant factories, paving the way for a sustainable farming future and stimulating global demand.

## Segmental Insights

### Facility Type Insights

Based on the Facility Type, Greenhouses are currently the dominant segment in the Global Plant Factory Market. These enclosed structures have gained immense popularity due to their cost-effectiveness and versatility in cultivating a wide range of crops throughout the year. With their controlled environment, greenhouses provide optimal conditions for plant growth, protecting them from external factors such as extreme weather conditions and pests. This advantage allows farmers and growers to have a consistent yield and supply of fresh produce, meeting the demands of consumers regardless of the season. In contrast, Indoor Farms and Other alternatives, while offering their own advantages, may come with higher costs and specific requirements or limitations that make them less accessible for some growers.

### Light Insights

Based on the Light, the Global Plant Factory Market is currently dominated by artificial light, primarily due to its ability to offer consistent and controllable conditions for plant growth. Unlike sunlight, which is influenced by weather conditions and seasonal changes, artificial light can be tailored to meet specific plant requirements, promoting efficient growth and higher crop yield. This does not diminish the importance of sunlight in traditional farming methods, but in the scope of the Plant Factory Market, artificial light holds the upper hand.

With its precise control over light intensity, spectrum, and duration, artificial light provides a stable and optimized environment for plants to thrive. By leveraging advanced lighting technologies such as LED and fluorescent lamps, plant factories enable year-round cultivation regardless of external factors like climate or location. This level of control allows growers to optimize growth parameters, including temperature,

humidity, and nutrient delivery, resulting in accelerated growth rates and improved crop quality. Moreover, artificial light offers the flexibility to simulate various natural lighting conditions, such as different photoperiods or light spectra, to mimic specific environmental conditions or induce desired plant responses. This capability opens up new possibilities for research and experimentation in plant physiology and biochemistry, further advancing our understanding of plant growth and development. The dominance of artificial light in the Global Plant Factory Market is a testament to its unparalleled advantages in providing consistent and customizable conditions for plant cultivation. As technology continues to advance, we can expect further refinements and innovations in lighting systems that will revolutionize the way we grow plants and meet the demands of a growing population.

## Regional Insights

The Asia-Pacific region, particularly China, holds a dominant position in the Global Plant Factory Market. This can be attributed to several factors. Rapid urbanization has led to a surge in the demand for locally sourced, fresh produce. Additionally, technological advancements in vertical farming and controlled environment agriculture have revolutionized the way plants are grown, allowing for higher yields and more efficient use of resources. Furthermore, the increasing awareness about food safety and the demand for pesticide-free produce have further fueled the growth of the plant factory market in this region. The combination of these factors has propelled the Asia-Pacific region, especially China, to the forefront of this industry.

## Key Market Players

Gotham Greens Farms LLC

Bowery Farming Inc.

Freight Farms

Plenty Unlimited Inc.

AeroFarms, LLC

BrightFarms Inc.

Iron Ox, Inc

AppHarvest, Inc

Vertical Harvest Farms

Dream Harvesting Farming Company LLC

Report Scope:

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

Plant Factory Market, By Facility Type:

Greenhouses

Indoor Farms

Others

Plant Factory Market, By Light:

Artificial Light

Sunlight

Plant Factory Market, By Growing System:

Soil-Based

Non-Soil-Based

Hybrid

Plant Factory Market, By Type:

Fruits & Vegetables

Ornamental Plants & Flowers



Others

Plant Factory 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

Kuwait

Turkey

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Plant Factory Market.

## Available Customizations:

Global Plant Factory market report with the given market data, Tech Sci 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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