

# Global Smart Plant Factory Systems Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Smart Plant Factory Systems market size was valued at US\$ 3293 million in 2025 and is forecast to a readjusted size of US\$ 8585 million by 2032 with a CAGR of 14.3% during review period.

Smart Plant Factory Systems refer to integrated controlled-environment crop production platforms designed for year-round, standardized and reproducible plant cultivation in fully enclosed or highly controlled facilities. These systems typically combine artificial lighting, multi-layer cultivation racks, hydroponic or aeroponic nutrient delivery, HVACD and CO<sub>2</sub> control, airflow management, water treatment, fertigation, sensors, climate computers, automation, robotics, crop recipes, AI-based decision support and cloud-based farm management software. This research focuses on commercial, research and engineering-grade systems, including plant factories with artificial lighting, modular vertical farms, container farms, seedling plant factories, speed-breeding facilities, medicinal plant production systems and core subsystems that enable these facilities to operate as industrialized plant production platforms.

Based on our research, the smart plant factory systems industry should be understood as an equipment, automation and software-driven segment within controlled environment agriculture, rather than as a pure vertical farm operating business. The most investable part of the value chain is not necessarily the sale of leafy greens, but the underlying system architecture that enables predictable crop production: LED lighting, climate control, fertigation, sensors, multi-layer cultivation structures, farm automation, crop recipes and digital control platforms. A broad market definition that includes the retail value of produce grown in vertical farms would significantly overstate

the addressable market for suppliers. This report therefore applies a narrow supplier-side definition and focuses on system, equipment, software, automation and engineering revenues.

From a product roadmap perspective, the industry is moving from simple stacked racks and LED-based hydroponics toward integrated crop production platforms. The most competitive solutions now combine lighting recipes, water and nutrient recirculation, HVACD, CO<sub>2</sub> management, real-time sensors, cloud control, automation and crop-specific algorithms. This shift favors suppliers that can reduce energy cost per kilogram, shorten crop cycles, improve uniformity and support multiple crop categories. Leafy greens remain the entry application, but stronger economics are increasingly found in seedlings, medicinal plants, speed breeding, research facilities, high-value herbs, functional crops and climate-resilient local supply models.

Industry consolidation is likely to continue. The acquisition of Certhon by DENSO and the acquisition of Freight Farms' assets by Growcer show that the sector is moving from venture-funded expansion toward industrial ownership, asset-light technology models and more disciplined deployment. Pure farm operators remain exposed to electricity prices, labor cost, capex intensity and premium produce demand, while system suppliers with reusable technology across greenhouses, indoor farms, research facilities and seedling production have more resilient business models. Over 2026–2032, growth should remain positive, but investors and customers will increasingly distinguish between technically proven suppliers and capital-intensive operating models.

This report is a detailed and comprehensive analysis for global Smart Plant Factory Systems market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Smart Plant Factory Systems market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Smart Plant Factory Systems market size and forecasts by region and country,

in consumption value (\$ Million), 2021-2032

Global Smart Plant Factory Systems market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Smart Plant Factory Systems market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Smart Plant Factory Systems
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Smart Plant Factory Systems market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DENSO Corporation, Priva B.V., Bosman Van Zaal, Gakon Netafim, Ridder Group, Hoogendoorn Growth Management, Viscon Group, Intelligent Growth Solutions Ltd., Urban Crop Solutions, Logiqs B.V., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market segmentation

Smart Plant Factory Systems market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Artificial Light Plant Factory

Solar Plant Factory

Combined Use of Sunlight and Artificial Light

#### Market segment by Cultivation Technology

Hydroponics

Aeroponics

Substrate Cultivation

Hybrid / Other Controlled Cultivation

#### Market segment by Crop Type

Leafy Greens

Seedlings

Medicinal Plants

Other Crops

#### Market segment by Application

Commercial Crop Production

Breeding & Research

Medicinal & Functional Plants

Demonstration & Education

Remote / Urban Food Supply

Market segment by players, this report covers

DENSO Corporation

Priva B.V.

Bosman Van Zaal

Gakon Netafim

Ridder Group

Hoogendoorn Growth Management

Viscon Group

Intelligent Growth Solutions Ltd.

Urban Crop Solutions

Logiqs B.V.

Green Automation Group

Viemose DGS

TTA-ISO

KG Systems B.V.

SANANBIO

4D Bios

N.THING Inc.

Growcer

FarmBox Foods

Netled Oy

AEssenseGrows

LettUs Grow

Growlink

Climate Control Systems Inc.

Argus Controls

CropKing Inc.

AmHydro

ZipGrow Inc.

Beijing AgriGarden

Beijing Kingpeng Global Technology Co., Ltd.

Leafyman Technology

Teclion Shandong Agricultural Science and Technology Co., Ltd.

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Smart Plant Factory Systems product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Smart Plant Factory Systems, with revenue, gross margin, and global market share of Smart Plant Factory Systems from 2021 to 2026.

Chapter 3, the Smart Plant Factory Systems competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Smart Plant Factory Systems market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Smart Plant Factory Systems.

Chapter 13, to describe Smart Plant Factory Systems research findings and conclusion.

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