



**FARMINOVA**  
plant factory

WE CAN **CHANGE**  
THE WORLD

# Agriculture...

Humankind started agriculture for the first time 10.000 years ago on Anatolia lands, Turkey, where the latest technology of agriculture is developing now.

Farminova designs, manufactures and installs facilities where you can harvest continuous, healthy and sustainable products all over the world for 365 days, in fully controlled environment.





# Farm Innovation

Farminova means innovation in farming.

Brightness of led lightening, fully controlled atmosphere and hydroponic plant growing system drive you to the future of farming.

Our technology offers you the possibility to harvest during 365 days, anywhere in the world.

You will be farmer in your city, and grow ultra healthy and tasty green crops with purple power.



# Future of Agriculture; Indoor Vertical Farming

- The plants are grown with artificial light equivalent to daylight,
- The plants are grown in aeroponic systems,
- To grow faster and in the most nutritious way, carbon dioxide, relative humidity, temperature, light intensity and other parameters are checked regularly
- Green leafy vegetables, microgreens are the mostly grown crops
- Completely isolated from the outside environment. Vertical farms are multi-level farms.





# Agriculture 4.0

*Harvest all over the world, for 365 days,  
Completely independent from external conditions,  
With the same quality, with the most perfect taste.*

# Why Vertical Farming?



## ***Continuous Production***

365 days harvest with much more efficiency comparing to a greenhouse.



## ***0% Pesticides***

Controlled environments prevent any harmful effect. Therefore, there is no need to use pesticides or herbicides.



## ***Water Efficiency***

As plants absorb nutrients directly from the water they use up 90-95% less water.



## ***Ultra Productivity***

You can achieve ultra efficiency with minimal land usage.

Shelf 2





#### **Nutritious Value**

The crops receive the nutrition they need. Therefore they are ultra healthy and ultra delicious.



#### **Controlled Environment**

As plant factories are controlled environments, they are not influenced by any external effect.



#### **Stable Quality**

Each day you can harvest the same quality and the same taste.



#### **Local Harvest**

You can grow crops where they will be consumed. You can minimize your carbon foot print.

Shelf 2

FARMINOVA  
aeroponic plant factory



# Technology

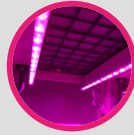
## ***Dimmable and Adjustable Spectrum LED lights***

The LED array produces full spectrum light, as well as infrared and ultraviolet light. To optimize plant growth, both the light spectrum and intensity can be tuned to different types and growth stages. Mood, both at night and throughout the day, eliminates peaks in electricity demand.

## ***Unmanned Plant Transportation System, Loader***

With Unmanned Plant Transportation System, UPTS, human contact with your crops decreases. While loading and unloading with UPTS, your efficiency maximizes because of less labor force.

*Led  
Lighting*



*Loader*





# Technology



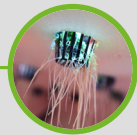
## Remote Control



## Automated Dosing System



## Aeroponics Ebb & Flow



### **Remote Monitoring**

With remote monitoring technologies, you can monitor the progress of your plants 24 hours 7 days. You can follow the growth of your plants from the time the seeds are planted to the harvest.

### **Fully Automated Dosing System**

Fully automated dosing systems perfected by Farminova's agricultural team infuse the plant growing recipes which consist of micro and macro elements. Dosing systems also provide the pH levels and electrical conductivity of the water.

### **Ebb and Flow**

Ebb and flow technique also known as flood and drain systems, in order to increase water efficiency while growing your crops.

# OUR CROPS



BASIL



OREGANO



LETTUCE



CHIVES



MUSHROOM



STRAWBERRY



KALE



PARSLEY



DILL



SPINACH



RED BASIL



# Why Farminova?

**Innovation in farming**

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## **Experience**

We have experience in food security projects in 70 countries, for 30 years

## **Turnkey Installation**

We realize turnkey installations everywhere in the world.

## **Manufacturing Power**

We are producers of panels, cooling machines, LED lights.

## **Research and Development**

We have 1500 m2 R&D area  
22 test labs

## **Service from A to Z**

Project development, production, installation, consultancy, remote monitoring, management software



*“Service from A to Z”*

## Designing

1. Concept Design
2. Project Design
3. Architectural Drawings
4. Feasibility

## Manufacturing

1. Hvac Systems
2. Dimmable Leds
3. Isolation Panels
4. Shelves
5. Robotic Systems
6. Management & Control Systems

## Installation

Turnkey installation  
all over the world

## After Sales

1. Professional Training
2. On site operation consultancy
3. After sales service
4. Warranty
5. Remote Control

# Ultra Healthy Ultra Tasty

During 365 days;

- Stable quality
- Desired harvest amount
- Fixed price
- Harvesting at the point of demand (Hyper Local)
- Minimum waste and carbon footprint
- Control on all critical parameters for continuous growth...

*grow*  
**safer.**  
**greener.**  
**faster.**

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We are on a path to benefit humanity with technology and innovation...



**UN Sustainable  
Development  
and Farminova**



WE CAN **CHANGE**  
THE WORLD

Not every crop grows everywhere, the prices and quality of the products are very variable, the population is increasing, our world is getting polluted.



# FARMINOVA

**Farminova is a brand of  
CANTEK GROUP**

Who has realized more than 15,000 food storage and processing projects in 70 countries, for 30 years; and has made many studies to establish food security awareness all over the world.



[www.cantekgroup.com](http://www.cantekgroup.com)

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# FARMINOVA

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Future of agriculture

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