



MILKIIA

MILKIIA AGRICULTURE

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COMPANY PROFILE

Milkiia Agriculture, the predecessor plastic factory was founded in 2003. It is a high-tech modern enterprise specializing in designing, manufacturing and providing complete agricultural facility solutions for customers.

Products include greenhouses, hydroponic systems, irrigation systems, vertical planting racks, home smart systems, rolling benches and other accessories.

Milkiia is driven by a vision of a greener, more efficient future for agriculture. Our black and white hydroponic channels, paired with the thermal insulation quilt, are engineered to deliver superior performance in greenhouse settings. We are dedicated to supporting farmers and growers with the tools to ensure year-round growth. Your success is our priority.





Led Spectrum



Seedling Cultivation



Variety of Planting



Product Development



Sphere of Business



Internet System



Smart Agriculture



Environmental Control Equipment



Auxiliary Materials

HYDROPONIC NFT SYSTEMS

Black and White Channels

The black & white hydroponic channels are a unique product developed by Milkiia, designed to improve growing performance and durability in hydroponic systems such as NFT.

The dual-layer structure provides excellent performance:

- Outer white layer reflects sunlight, reducing heat absorption and helping maintain a stable root-zone temperature
- Inner black layer blocks light penetration, effectively preventing algae growth inside the channel

Compared with standard single-color channels, this design offers better system hygiene and more stable crop growth.



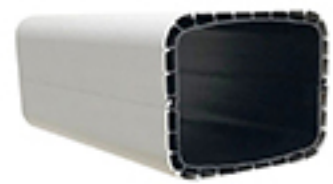
100x50mm NFT Channel



100x100mm NFT Channel



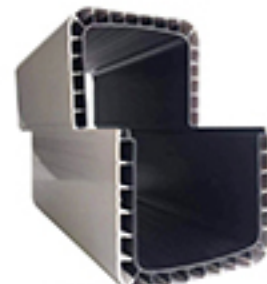
100x60mm
NFT Hollow Channel



100x80mm
NFT Hollow Channel



100x100mm
NFT Hollow Channel



100x160mm
NFT Hollow Channel

Key features:

- Unique dual-layer design
- Anti-algae performance for cleaner water circulation
- Improved temperature control
- Durable material with long service life
- Smooth inner surface for optimal water flow

Available in different sizes and hole spacing to suit various crops and project requirements.

NFT CHANNEL CASE APPLICATION



HYDROPONIC NFT SYSTEMS

White Channels

White hydroponic channels are a cost-effective and widely used solution for hydroponic systems such as NFT, suitable for both commercial farms and small-scale growing projects.

The white surface helps reflect light and reduce heat absorption, contributing to a more stable growing environment for plant roots.



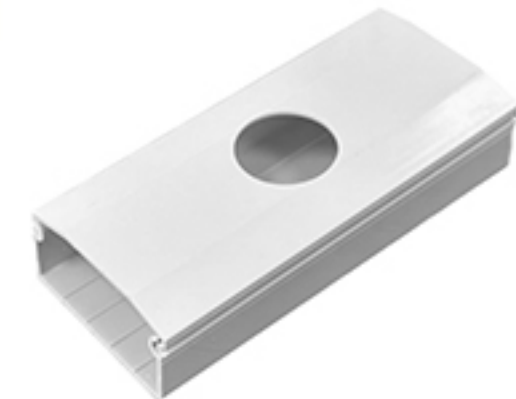
Key features:

- Unique dual-layer design
- Anti-algae performance for cleaner water circulation
- Improved temperature control
- Durable material with long service life
- Smooth inner surface for optimal water flow

Available in different sizes and hole spacing to suit various crops and project requirements.



100x50mm
NFT Channel



100x50mm
NFT Channel



100x80mm
NFT Channel



100x100mm
NFT Channel

HYDROPONIC SYSTEM



Size (LxWxH) 5.0x0.6x1.5m
Customizable



Size (LxWxH) 122x122x150cm
Customizable



Size (LxWxH) 5.0x1.6x0.7m
Customizable



Size (LxWxH) 130*35*200cm
Customizable

The horizontal NFT system is the most popular hydroponic structure in vegetable hydroponic agriculture at present. It is suitable for users with large planting area, and is famous for its simple equipment construction, easy management, less investment cost and even plant growth. The small area of the user can choose to build the vertical NFT, which can effectively use the vertical space, effectively reduce the cost of equipment and the cost of the personnel management and increase the amount of the yield by about 30 percent.



Simple Combination



Soilless Culture



Non-toxic



Circular watering



Optional auto water feed



Grow bigger and faster yield



Saves water space, and fertilizers

HYDROPONIC NFT SYSTEMS

Round PVC Channels

A compact and easy-to-use hydroponic system designed for home growing. Made from durable PVC round pipes, it provides efficient water circulation and a clean growing environment. Suitable for leafy greens, herbs, and small plants like lettuce and basil. Ideal for balconies or indoor use with grow lights. Simple, space-saving, and water-efficient—perfect for beginners and home gardeners.



98x50x96cm (36 holes)



98x60x103cm (72 holes)



89x49x70cm (90 holes)



98x45x100cm (108 holes)

Pineapple Growing Tower

BASIC



PRODUCT SPECIFICATION

6 Layers	670mm (Dia) * 1100mm (H)
8 Layers	670mm (Dia) * 1400mm (H)
10 Layers	670mm (Dia) * 1700mm (H)

PARAMETER SPECIFICATION

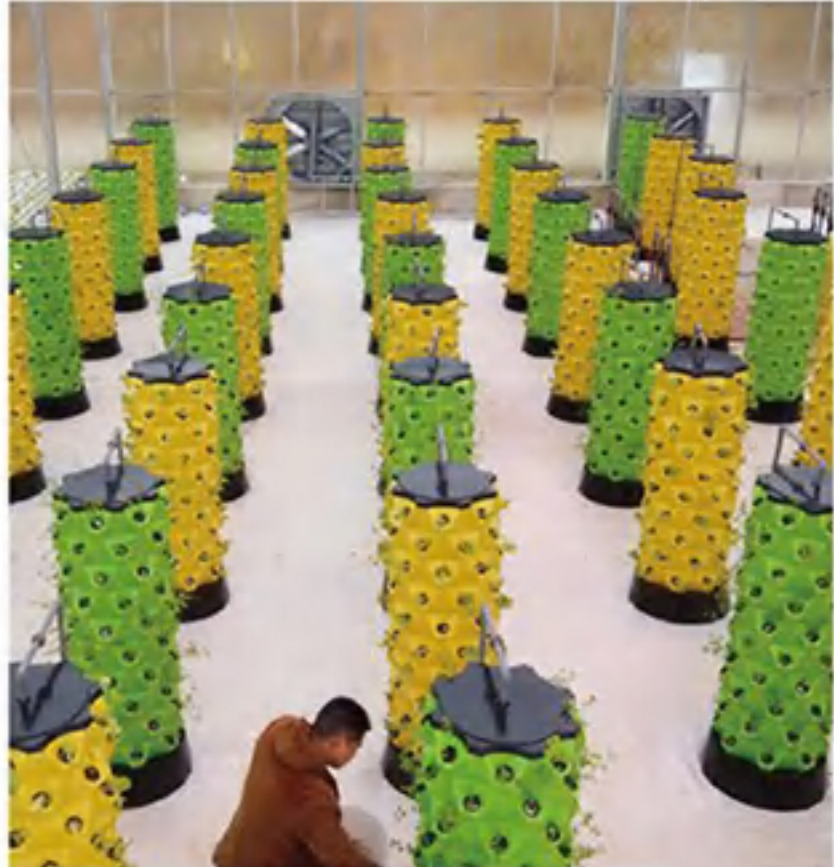
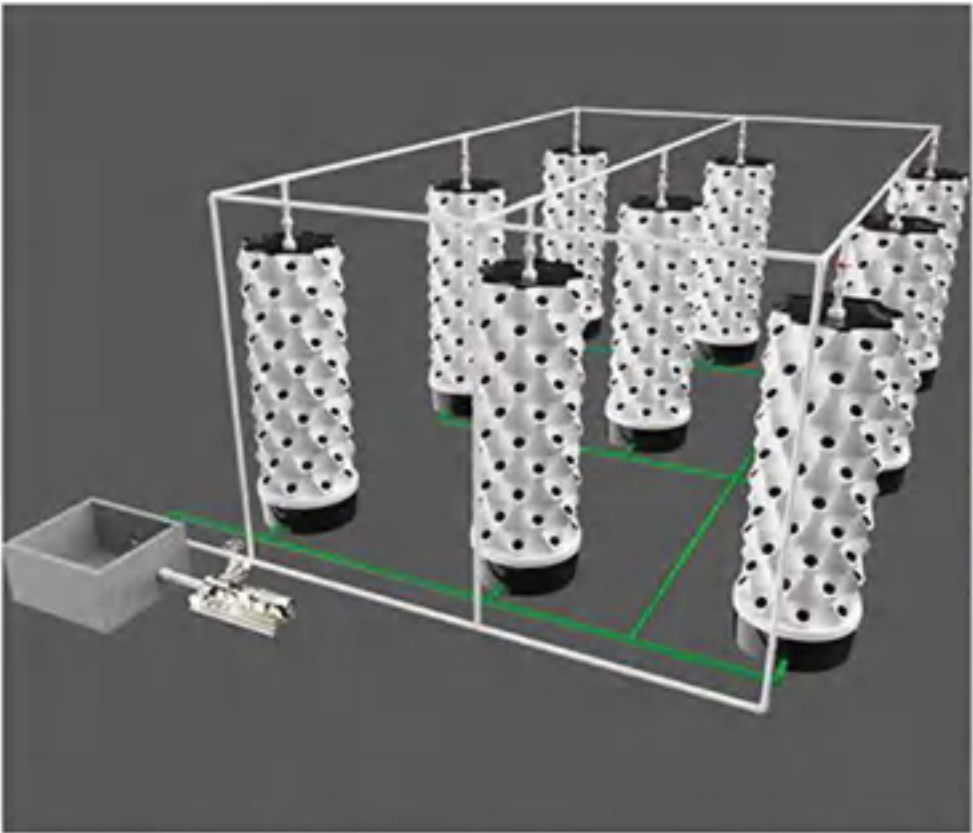
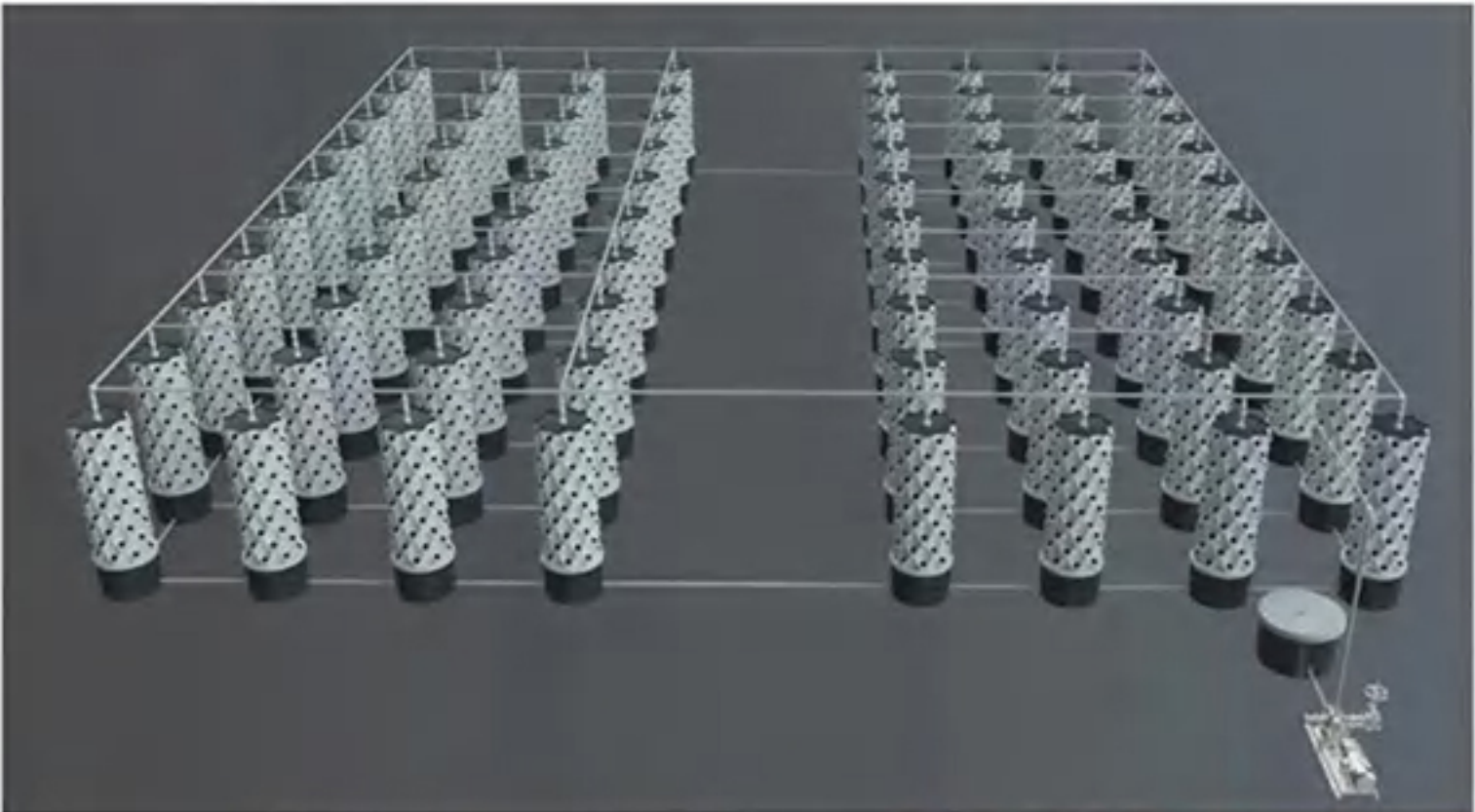
Name of product	Pineapple Growing Tower (Basic)
Material	Environmentally Friendly Plastic
Package Size(cm)	68(Dia) * 35(H) / 68(Dia) * 44(H) / 68(Dia) * 44(H)
Water pump voltage	110-240V, 2500L/H, 15W
Planting	48/64/80
Water tank	30L
Product color	White / Yellow / Green
Customized	The size can be customized according to your needs



Pineapple Growing Tower is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.

PINEAPPLE GROWING TOWER PROJECT DISPLAY

Pineapple Growing Tower is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.



HYDROPONIC TOWER SYSTEMS

Vertical Hydroponic Tower



PARAMETER SPECIFICATION

Product name:	Vertical Hydroponic System
Product size:	53*53*165cm
Package size:	53*53*44cm
Product material:	Food PP
Layers:	5/7/9 layers
Number of planting hols in each layer:	5
Product color:	White + Green
Weight:	9KG

HYDROPONIC TOWER SYSTEMS

Rainfall Hydroponics of Petal Column



Petal column rain water culture facility is a fixed device composed of a special cultivation bowl. Four-petal planting basin is equipped with water culture cup. The column can not only make full use of the limited cultivation space, but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.

PUMP SPECIFICATION

Output	DC 24V
Input	AC 100~240V
Power	10W

45L 450*450*300mm



PRODUCT SPECIFICATION

Product name	Vertical hydroponics system
Product size	40.5*40.5*132cm
Package size	50*50*41cm
Product material	Food PP
Layers	8/10/ layers
Number of planting holes in each layer	5
Product color	White/Grey
Weight	7KG



Grow Light Option



8/10/12 LAYERS

RAINFALL HYDROPONICS PROJECT DISPLAY

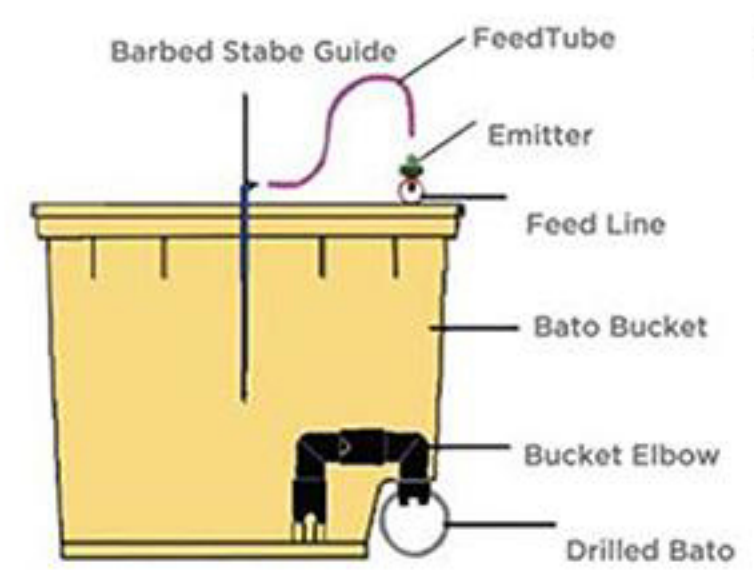
Rainfall Hydroponics is a fixed device composed of special cultivation bowls. The column can not only make full use of the limited cultivation space but also satisfy different layout forms to create a beautiful three-dimensional agricultural landscape effect.



Dutch Bucket Cultivation System



- Soilless culture
- High quality food grade plastic
- Easy set up
- Grow bigger and faster yield
- Saves water space, and fertilizers
- Food Grade
- Circular watering
- Optional auto water feed



PRODUCT SPECIFICATION

Size(L*W*H):	30x25x23cm
Color	Yellow, White or Black
With Drain Elbow	Yes
Usage	Hydroponic planting vegetables or garden use
Material	PP
Advantage	Easy to installation and environment friendly
Customized	The color can be customized according to your need

Used for planting flowers, salads, vegetables, herbs, potatoes, fruits, etc

AVAILABLE IN THREE COLORS



DUTCH BARREL CULTIVATION PROJECT DISPLAY

Dutch pail has been widely used in global modern water cultivation farm that can improve productive efficiency and food security.



HYDROPONIC GROWING SYSTEMS

Ebb and Flow Bench

Product Parameter

Flood Tray Size:

0.61 × 1.83 m (≈ 2' × 6') 0.91 × 1.83 m (≈ 3' × 6')

1.22 × 1.22 m (≈ 4' × 4') 1.22 × 2.44 m (≈ 4' × 8')

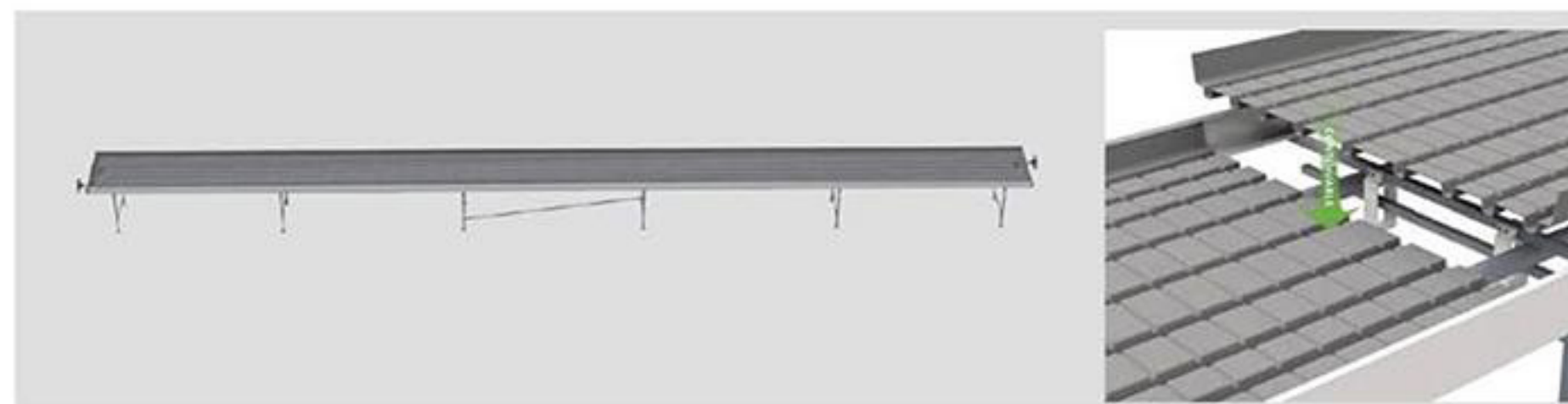
Tray Material: ABS

Frame Material: Aluminum Alloy

Support Structure: Hot-dip Galvanized Steel Pipe

Length: Extendable by Splicing

Optional Accessories: Filter Net, Inlet & Outlet, Rubber Base, Grow Light Support



HYDROPONIC GROWING SYSTEMS

Multi-Layer Raft Hydroponic System

Designed with a multi-layer structure and movable system, this ebb & flow bench maximizes space utilization while maintaining flexibility in operation. Each layer can be easily accessed, and the movable design allows for convenient management, cleaning, and layout adjustment. The length can be customized, and grow light placement can be integrated according to project requirements. Ideal for nurseries and high-density seedling production, it improves efficiency and makes full use of limited growing space.

Length _(mm)	Width _(mm)	Height _(mm)	Layers	Load-bearing	Material
2440	1200	2500	2	2~3T	ABS Tray Galvanized Pipe
2440	1200	3500	3	2~3T	ABS Tray Galvanized Pipe



HYDROPONIC GROWING SYSTEMS

Multi-Layer Raft Hydroponic System

A space-efficient hydroponic system designed with a multi-layer structure to maximize production within limited areas. The system uses floating rafts for stable plant growth and uniform nutrient distribution. Length and layout can be customized according to site conditions, and grow lights can be integrated for indoor or low-light environments. Ideal for leafy greens and large-scale seedling or vegetable production.



A variety of specifications



1270*650*1308
1530*650*1308



1270*650*1756
1530*650*1756



1270*650*2200
1530*650*2200



* ABS Tray+Galvanized Pipe

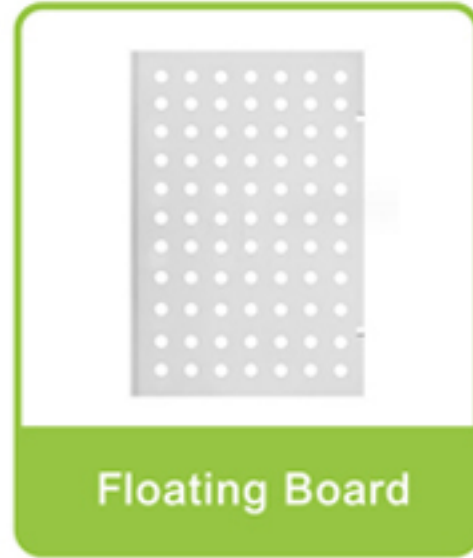
MULTI-TIER MOVABLE RACK SYSTEM



HYDROPONIC ACCESSORIES



Grow Light



Floating Board



Sponge



Hole Plug



End Cap



Bundle Connector



Net Pot



Water Pump



Elbow Connector



Buoy



Seedling Tray



Water Tank

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