



hydroponic**systems**  
international



# BENEFITS FROM THE ROOTS

PROFESSIONAL GROWING SYSTEMS FOR  
AVOIDING DISEASES, IMPROVING QUALITY, INCREASING  
QUANTITY AND EXPANDING YOUR BUSINESS

We are an innovative **manufacturer** specialized in creating efficient and high quality solutions to **collect and reuse drainages** in hydroponic crops.

Since 2013, we are developing systems for hydroponic agriculture that **improve crop yield and quality**.

Our systems **avoid root diseases**, **increase the aeration** under de substrate bags and **grant the optimum oxygenation** for healthy and stronger crops.



hydroponicsystems  
international

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Our systems are in greenhouses of more than 30 countries worldwide

# SOME PROJECTS WORLDWIDE

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## WITHOUT OUR SYSTEMS



## WITH OUR SYSTEMS

- Cleaner
- More disease-free
- Further away from drains
- Free of dampness



This is a real case. On the left you can see a cultivation line without our systems: more dirt, drains in contact with the bags and therefore with the roots and worse general appearance of the plants.

On the right, a tomato growing line with our hydroponic systems: cleaner, more root isolation as the bags rest on our Spacer, so the drainage falls and leaves the system without stagnating or touching the roots.

The main objective of our drainage collection gutters in hydroponic cultivation is to keep the greenhouse free and dry from the drainages, which is essential to efficiently control it.

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Our Spacer-based systems allow the roots to be healthier and stronger, so crops will be more economically profitable. Thanks to, this will get more quantity of fruits and vegetables and with much more quality.



Prevent roots from coming out of bags and into contact with drainage water



Reduce the proliferation of diseases and their spread among plants in the same row



Allow the reuse of drainages (water + nutrients)



Save on water, fertilizer and phytosanitary products



Optimum circulation of drainages



Maximize the aeration between the substrate bag and the flow of drainages



Your project will be more economically profitable



Achieve greater production and higher quality

# BENEFITS OF USING OUR GROWING SYSTEMS



**ELEVATED**

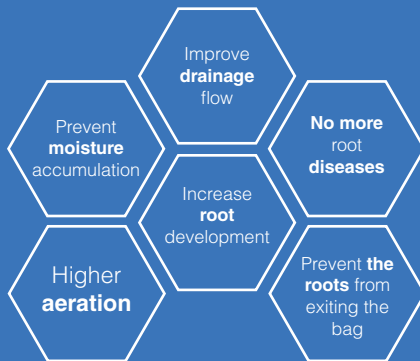
**SYSTEMS**



# HS EVOLUTION SYSTEM

The first steel gutter with Spacer incorporated

INCREASE THE PROFITABILITY OF YOUR CROPS:



SOME OPTIONS



# HS EVOLUTION STRAWBERRY SYSTEM

Designed for hydroponic strawberry crops. The most appropriate height for field work and the ideal slope to enable the most effective collection of all irrigation drainage.



## COMPONENTS



### HS SPACER ELEVATED

Single measurement:  
23,5cm x 100cm  
Ref. 020002

### HS GUTTER EVOLUTION

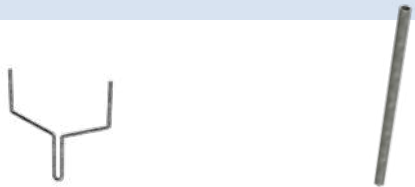
23cm x 9,2cm  
Thickness 0,5mm  
Ref. 120525

### HS EVOLUTION OUT-FLOW

Ref. 040006

### CLIP 16 · CLIP NO RING · CLIP 25

Ref. 030012 / 030013 / 030014



### HS STRAWBERRY EVOLUTION SUPPORT

Ref. 970011

### HS STRAWBERRY POST

1,5m  
Ref. 960006

## OPTIONAL



HS END SUPPORT  
STRAWBERRY  
Ref. 970007



HS COUNTER-LEG  
Ref. 970012



HS TRELLIS TAPE  
SUPPORT  
Ref. 970006



HS TAPE  
SUPPORT HOOK  
Ref. 970009



HS TRELLIS TAPE  
Ref. 970008



HS DRAIN  
OUTLET PIPE  
Ref. 040008

# HS EVOLUTION ELEVATED SYSTEM

This system has floor supports of adjustable height. It has a perfect slope for drainage water flow and efficient water collection.



## COMPONENTS



### HS SPACER ELEVATED

Single measurement:  
23,5cm x 100cm  
Ref. 020002

### HS GUTTER EVOLUTION

23cm x 9,2cm  
Thickness 0,5mm  
Ref. 120525

### HS EVOLUTION OUT-FLOW

Ref. 040006

### CLIP 16 · CLIP NO RING · CLIP 25

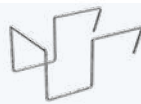
Ref. 030012 / 030013 / 030014



### HS BASE SUPPORT

30-40 cm  
Ref. 960001

▲ OPTIONAL



### HS END SUPPORT VEGETABLE

Ref. 970013



### HS VERTICAL END SUPPORT VEGETABLE

Ref. 970015



### HS STEMS SUPPORT

Ref. 970014

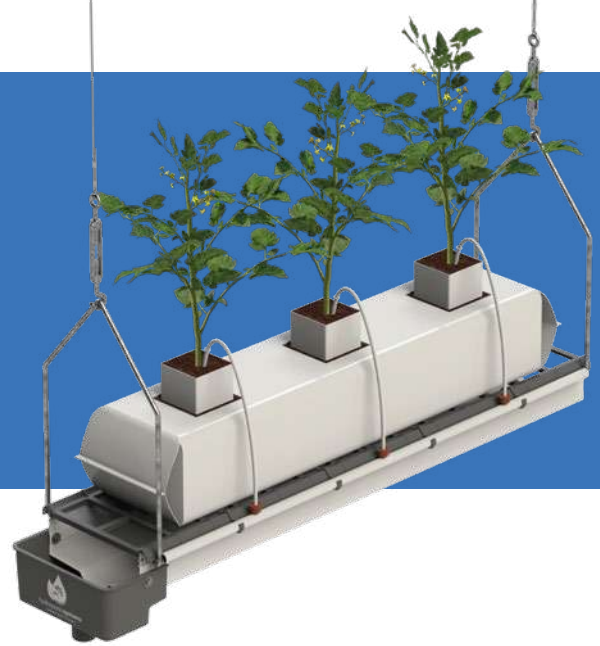


### HS DRAIN OUTLET PIPE

Ref. 040008

# HS EVOLUTION HANGING SYSTEM

This system is hung from the structure of the greenhouse, allowing the crop to be in the best position for manual work to be carried out on it, with a perfect slope for the collection of what is drained off.



## COMPONENTS



### HS SPACER ELEVATED

Single measurement:  
23,5cm x 100cm  
Ref. 020002

### HS GUTTER EVOLUTION

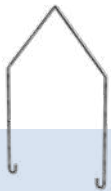
23cm x 9,2cm  
Thickness 0,5mm  
Ref. 120525

### HS EVOLUTION OUT-FLOW

Ref. 040006

### CLIP 16 · CLIP NO RING · CLIP 25

Ref. 030012 / 030013 / 030014



### HS HANGING SUPPORT

Ref. 970010

## OPTIONAL



### HS END SUPPORT STRAWBERRY

Ref. 970007



### HS COUNTER-LEG

Ref. 970012



### HS TRELLIS TAPE SUPPORT

Ref. 970006



### HS TAPE SUPPORT HOOK

Ref. 970009



### HS DRAIN OUTLET PIPE

Ref. 040008



### HS TRELLIS TAPE

Ref. 970008



### HS END SUPPORT VEGETABLE

Ref. 970013



### HS STEMS SUPPORT

Ref. 970014



### HS VERTICAL END SUPPORT VEGETABLE

Ref. 970015

# HS EVOLUTION POT HANGING SYSTEM

System designed for growing strawberries. Combine a metal gutter under a highly durable pot.



**NEW**



## COMPONENTS



**HS GUTTER  
EVOLUTION POT**  
102 x 100 mm  
Thickness 0,6mm  
Ref. 120582



**HS SPACER POT**  
Single measurement  
1000 x 175 x 150 mm  
Capacity: 16L  
Ref. 020008



**HS CLIP 20  
EVOLUTION POT**  
Ref. 030015

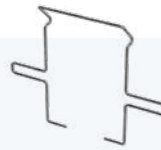


**HS OUT-FLOW  
EVOLUTION POT**  
Ref. 040007



**HS HANGING  
SUPPORT  
EVOLUTION POT**  
Ref. 970021

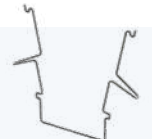
**OPTIONAL**



**HS END SUPPORT  
STRAWBERRY EVOLUTION POT**  
Ref. 970016



**HS COUNTER-LEG  
EVOLUTION POT**  
Ref. 970017



**HS TRELLIS TAPE  
SUPPORT POT**  
Ref. 970018



**HS TRELLIS TAPE**  
Ref. 970008



**HS TAPE SUPPORT  
HOOK POT**  
Ref. 970019



**HS DRAIN  
OUTLET PIPE**  
Ref. 040008

# HS EVOLUTION POT SUPPORTED SYSTEM

System designed for growing strawberries. Combine a metal gutter under a highly durable pot.



## COMPONENTS



**HS GUTTER EVOLUTION POT**  
102 x 100 mm  
Thickness 0,6mm  
Ref. 120582

**HS SPACER POT**  
Single measurement  
1000 x 175 x 150 mm  
Capacity: 16L  
Ref. 020008



**HS CLIP 20 EVOLUTION POT**  
Ref. 030015



**HS OUT-FLOW EVOLUTION POT**  
Ref. 040007

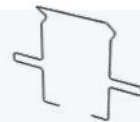


**HS STRAWBERRY POST**  
Ref. 90006



**HS STRAWBERRY EVOLUTION POT SUPPORT**  
Ref. 970020

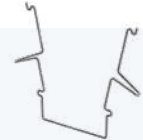
▲ OPTIONAL



**HS END SUPPORT STRAWBERRY EVOLUTION POT**  
Ref. 970016



**HS COUNTER-LEG POT**  
Ref. 970017



**HS TRELLIS TAPE SUPPORT POT**  
Ref. 970018



**HS TAPE SUPPORT HOOK POT**  
Ref. 970019



**HS TRELLIS TAPE**  
Ref. 970008

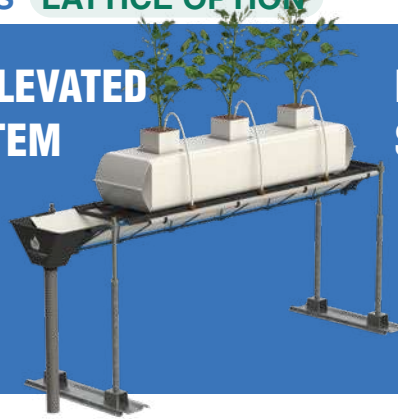


**HS DRAIN OUTLET PIPE**  
Ref. 040008

**HS HANGING SYSTEM**



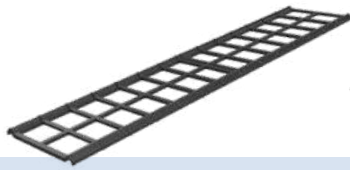
**HS ELEVATED SYSTEM**



**HS STRAWBERRY SYSTEM**



**COMPONENTS**



**HS SPACER ELEVATED**

Single measurement  
23,5 cm x 100 cm  
Ref. 020002



**HS ELEVATED GUTTER**

Development 13,5 + 13,5  
Thickness 0,7mm  
Available in white  
Ref. 110135



**HS ELEVATED OUT-FLOW**

Ref. 040003



**HS ELEVATED CAP**

Ref. 040004



**HS ELEVATED CLIP**

Ref. 030005



**HS BASE SUPPORT**

Ref. 960001



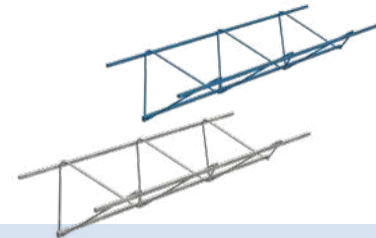
**HS STRAWBERRY SUPPORT**

Ref. 970005



**HS HANGING SUPPORT**

Ref. 970001



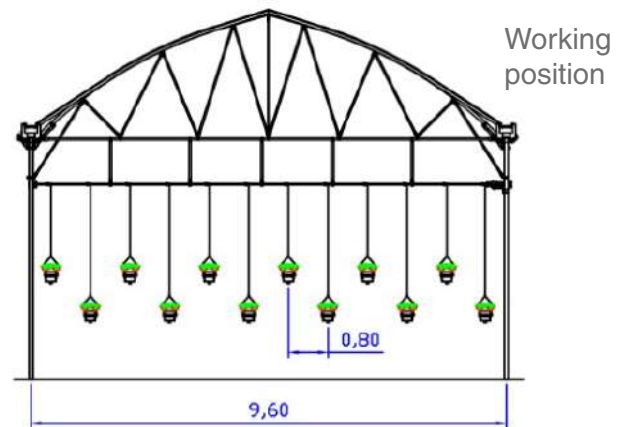
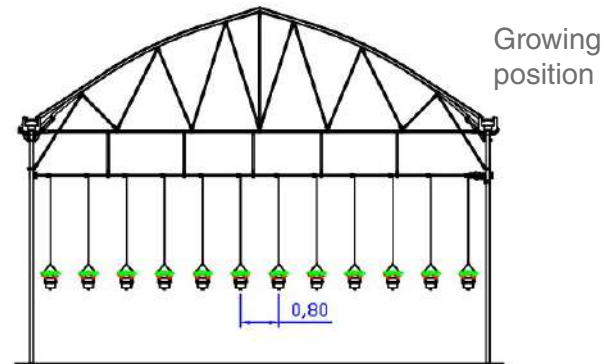
**HS METAL LATTICE**

Not lacquered/  
lacquered in blue  
Ref. 990009/990002

# HS LIFTING SYSTEM

Mobile vertical gutter system that optimises planting density as well as light and aeration, thus obtaining maximum production per hectare.

~125.000\* plants per hectare



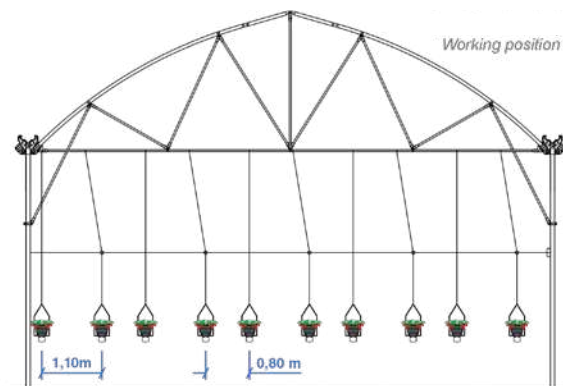
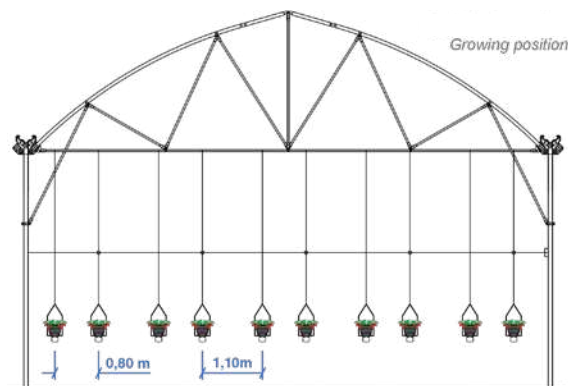
\*We recommend the best option to maximize your surface. The amount of plants, in some cases, can be even higher.



# HS SWINGING SYSTEM

Horizontal mobile system of gutters that allows to increase production with an excellent cost-benefit ratio.

~105.000\* plants per hectare



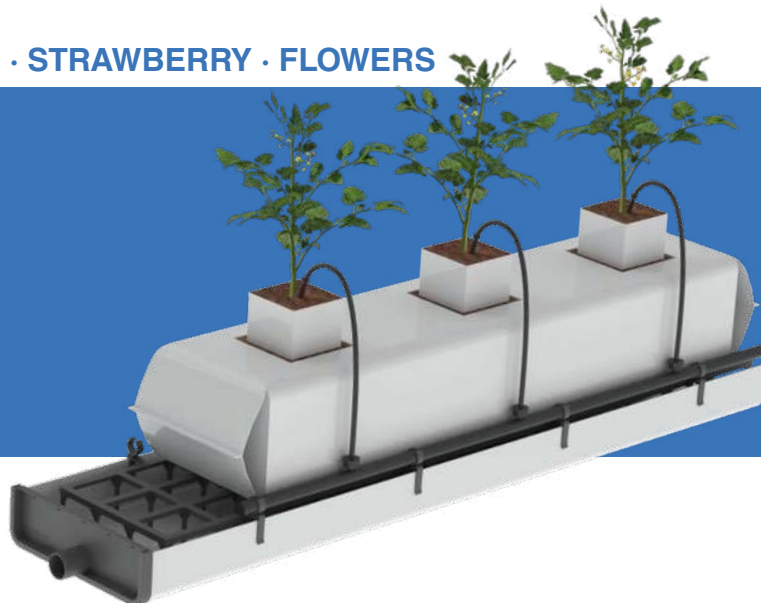
\*We recommend the best option to maximize your surface. The amount of plants, in some cases, can be even higher.



# GROUND SYSTEMS

# HS PREMIUM SYSTEM

A system for the recollection of drainages made for polypropilene and directly set on the floor.

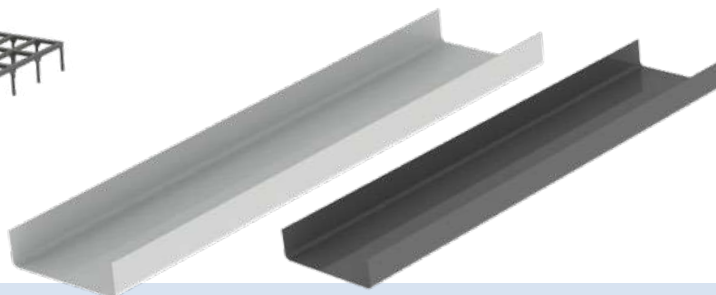


## COMPONENTS



### HS SPACER PREMIUM

Single piece  
Measure 100cm x 19cm x 6cm  
Ref. 020001



### GUTTER

Development 6,2+23+6,2cm  
Thickness 0,7mm  
Available in black and white  
Ask for customized measurements  
Ref. 010623 / 110623



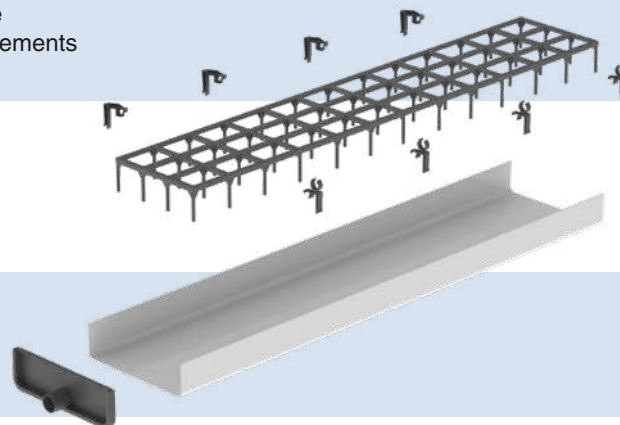
### OUT-FLOW

Out-flow diameter 25 mm  
Ref. 040001



### CLIP · CLIP 16 · CLIP 25

Availables for pipes of 16mm to 25mm in diameter and without piping  
Ref. 030008 / 030001 / 030007

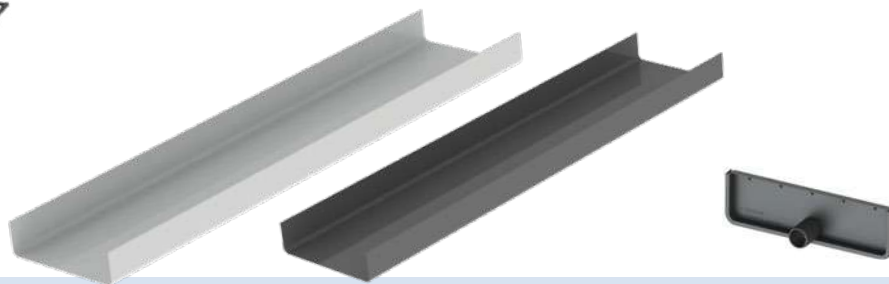
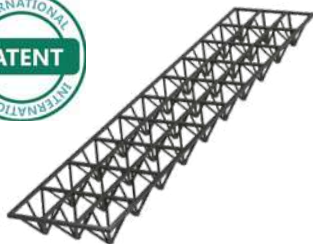


# HS ECO SYSTEM

Soil system with good capacities for horticultural cultivation at a spectacular price.



## COMPONENTS



### HS SPACER ECO

Single piece  
Measure 98cm x 19cm x 6cm  
Ref. 020004

### GUTTER

Development 6,2+23+6,2cm  
Thickness 0,7mm  
Available in black and white  
Ask for customized measurements  
Ref. 010623 / 110623

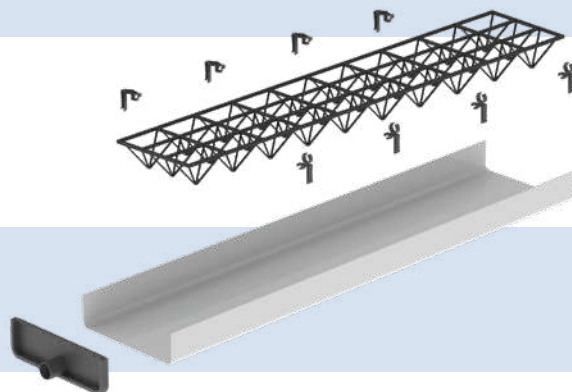
### OUT-FLOW

Out-flow diameter 25 mm  
Ref. 040001



### CLIP · CLIP 16-E

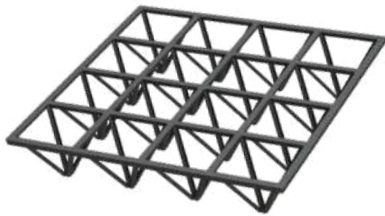
Availables for pipes of 16mm in diameter and without piping  
Ref. 030008 / 030011



# HS HYDROPOT SYSTEM

System specially designed for crops in all types of pots even those of large size (40L).

## COMPONENTS



### HS SPACER HYDROPOT

Single piece  
Measure 30cm x 30cm x 6cm  
Ref. 020003



### HS GUTTER

Development 6,2+34+6,2cm  
Thickness 0,7mm  
Available in black  
Ask for customized measurements  
Ref. 010634



### HS DRAINAGE UNIT END

Ref. 040005



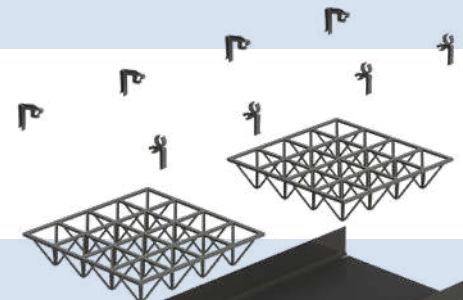
### CLIP · CLIP 16-E · CLIP 25

Availables for pipes of 16mm to 25mm in diameter and without piping  
Ref. 030008 / 030011 / 030007



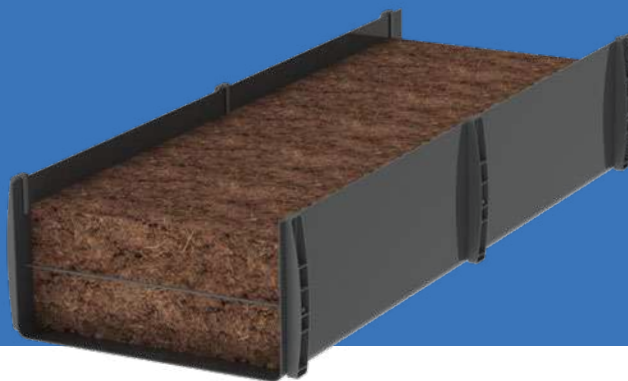
### HS PLASTIC RIVET

Ref. 050005



# BULK SYSTEM

For any kind of substrate.



## COMPONENTS



### HS GUTTER

Development 16,5 + 30 + 16,5 cm  
Thickness 0,7 mm  
Drilled  
Ref. 011630



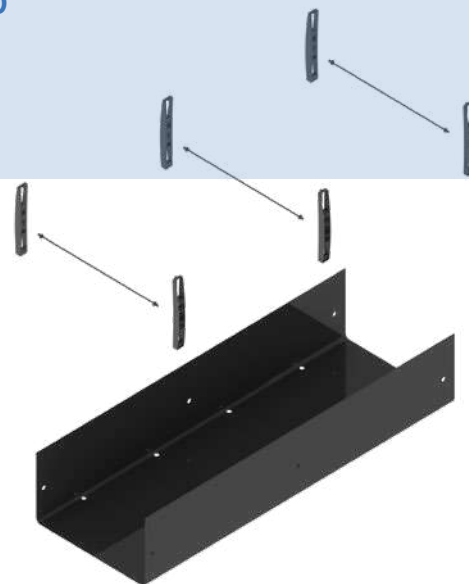
### HS BRACE

Ref. 030009



### HS CORD

Ref. 030010

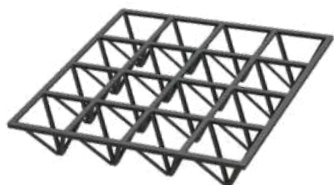


# COMBINED SYSTEM

This option combines the Hydropot and Bulk systems granting the crops the advantages of a Spacer.



## COMPONENTS



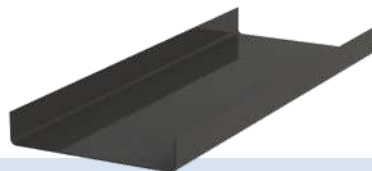
### HS SPACER HYDROPOT

Single piece  
Measure 30cm x 30cm x 6cm  
Ref. 020003



### HS GUTTER

Development 16,5 + 30 + 16,5 cm  
Thickness 0,7 mm  
Ask for customized measurements  
Ref. 011630



### HS GUTTER

Development 6,2+34+6,2cm  
Thickness 0,7mm  
Available in black  
Ask for customized measurements  
Ref. 010634



### PLASTIC RIVET

Ref. 050005



### CLIP · CLIP 16-E · CLIP 25

Availables for pipes of 16mm to 25mm in diameter and without piping  
Ref. 030008 / 030011 / 030007



### HS BRACE

Ref. 030009



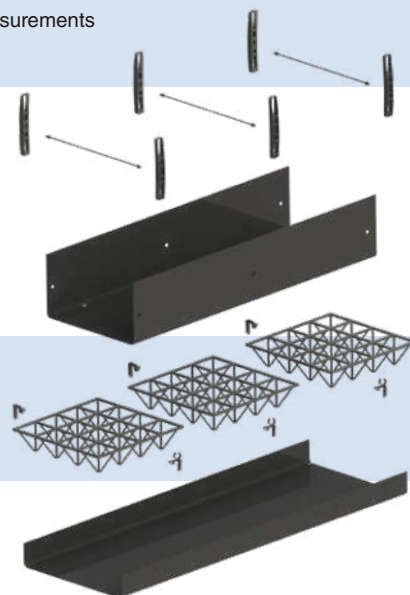
### HS CORD

Ref. 030010



### HS DRAINAGE UNIT END

Ref. 040005



# MEDICAL CANNABIS

## INCREASE THE PROFITABILITY

Our systems are ideal for the healthy and strong growth of cannabis plants for medical use.





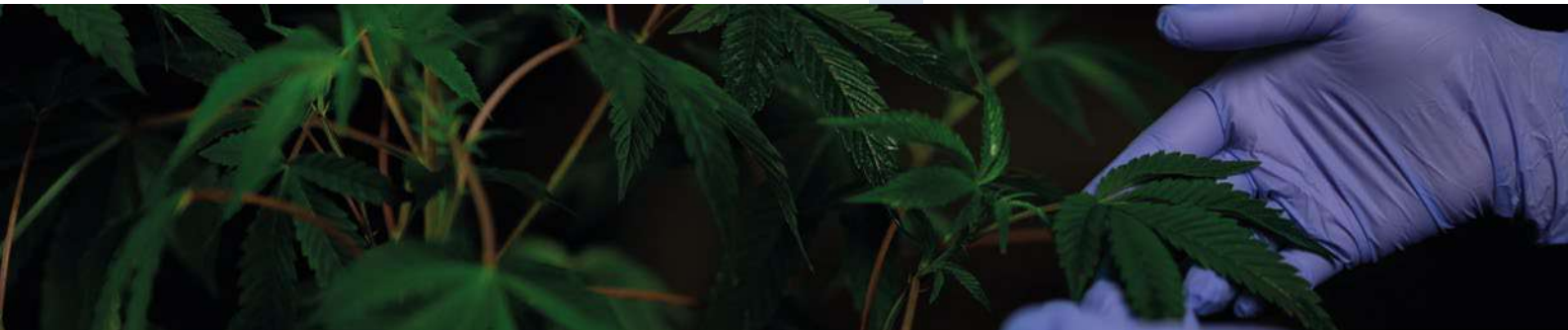
# HS PREMIUM SYSTEM HS EVOLUTION SYSTEM

Recomended for the flowering and vegetative phase.



# HS HYDROPOT SYSTEM

Recomended for mother plants.



# WATER SAVING



## HYDROPONICS

In the coming years it will be essential that the agriculture adopt farming methods capable of optimize the use of water and this is achieved with the assistance of the hydroponic crops.

## FUTURE

The future of modern agriculture goes through the optimal use of one of the most limited and most important resources: water.



## CHALLENGE

The agriculture of the future will be able to face the great challenge of producing more with less resources thanks to **hydroponic crops**.

# WATER USAGE PER 1KG OF TOMATOES

**60L**

Open field with drip irrigation

**22L**

Greenhouse hydroponic system without recycling

**10L**

Greenhouse hydroponic system with recycling

**4L**

High-tech closed greenhouse with



hydroponic systems  
LABORATORIES





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