



HWASUNG pot

Infinite, Green circle

We will always strive to work in a pleasant environment where agriculture can be fun and happy, and in a convenient working environment with reduced labor.

www.hspot.kr

HWASUNG pot

화성포트

HISTORY

1994

2000

2005

1994 Hwasung Chemical Established (April 15)

1995 Primary partner of Samsung Electronics

1996 Partner of LG Industrial Electric

1997 ISO9000 Certified

1999 Developed Apple Water Purifiers and registered 3 patents

2001 Developed sewage connection pipe, registered production patent

2004 Began the development of Skybed and Seedling Pots

2005 Registered patents for skybed and seedling pots, began production

2006 Design Registered for type 2 Strawberry boxes

2007 -Began the development of seedling pots for drip irrigation
-Registered patents for seedling pots for drip irrigation, began production

2012 Began development for bottom watering
Applied for registration for the design of pots for strawberry seedling
Applied for pot designs
Applied for rectangular pots patents

2013 Registered patents and designs for pot stands for bottom watering pots

2014 Registered designs for vase stands for bottom watering pots and food containers

Change, Challenge

for new creation

Change and Challenge for new creation

Hwasung Industries Co., Ltd. is a company specializes in agricultural materials. We strive to contribute to the betterment of agricultural environment by developing and producing essential materials for agriculture.

Farmers' voices are the most important to us, and we are developing our products based on their suggestions and opinions.

Hwasung Industries Co., Ltd. always listens to you.

We will be the company which is always working hard to ensure the farmers can work in convenient and refreshing work environment with reduced need of labor.

CEO, Na Daeseok



2010

2015

2021-

2015 Parent seed bed and seedling pots exported to China and Vietnam
CLEAN Workplace Certified
Newly established and operating mold Design department

2016 Exported Hwasung pot to Japan
Utility model registration of a Multibox
Multicup Bed-A patent applied and registered
Newly established corporate affiliate research lab

2017 Applied for design of strawberry containers
Applied for patents for buoys for fisheries

2018 Patent registered for pedestal to block the entry of wild animals

2019 Patent registered for bottom watering pots

2020 Registered 1 patent and 2 designs in Japan
Trademark registration in Japan

2021 Applied and registered patents for multicup series
Applied patents for multicup series in Japan
Seedling pot design registered

2022 Patent Application and Registration of Multicup Bed in Japan

Intellectual Property Right

FATENT REGISTERED INTELLECTUAL PROPERTY

Intellectual Property Rights Applied



- | Multicup bed for cultivation of strawberries by hydroponics
- | bottom watering pots for seedling
- | bottom watering pot stand for seedling
- | box for pacaking
- | Pots for hydroponics
- | cultivation pots
- | multi-layered transportation tray
- | food containers

* the list above indicates Hwasung industries' application to the Intellectual Property Office in Korea and Japan or registered.

Hwasung Pot PRODUCTS



- Type A 24
- Type B 24
- Type C 32
- Type E 24
- Type A 24 Plus
- Type C 24
- Type D 24
- Type F 8
- Type A 24 Slit
- Type C 24 Plus
- Type ED 24 Plus
- Type F 16
- Type B 24
- Type C 28
- Type E 12
- Type S 18



- I 24
- General 24
- 24 slots Tray
- I 24 Plus
- General 24-L
- 32 slots Tray
- I 32
- General 32
- Tray for type D/E/ED
- K128
- General 50



- Multicup Bed A
- Multicup Bed C5
- C bed
- Growing bed - L
- Multicup Bed NA-6
- Multicup Bed D6
- Skybed A
- Growing bed - M
- Multicup Bed C6
- Multicup Bed D4
- Multicup Bed CD5
- GH - 1000



- square - size 3
- square - size 6A
- Tray - type 3
- Tray - type 6
- Circular port
- square - size 5A
- square - size 6B
- Tray - type 5
- Tray - type 6(1hole)
- Cuttage pot 32
- square - size 5B
- square - size 7
- Tray - type 5C
- Tray - type 3(tray)
- G.K250
- square - size 5C
- square - size 9



- Chip type drip hoses (Black)
- Import drip hoses
- 2 layer drip hoses (White)
- DIG Micro inline drip
- dripper(Netafim)

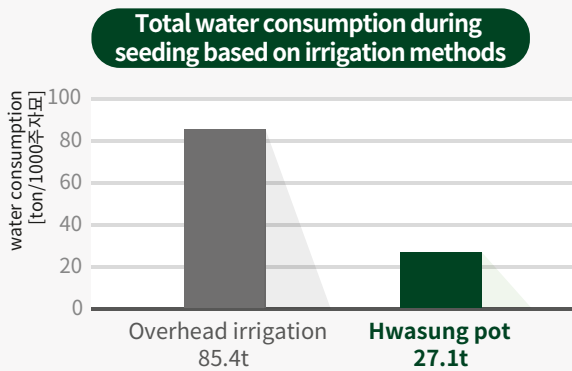


- Berry type
- Multibox
- slit type
- Stackable multibox
- general type
- Gormi filter(Blue berry)
- Round type
- Dedicated boxes
- Heart Type

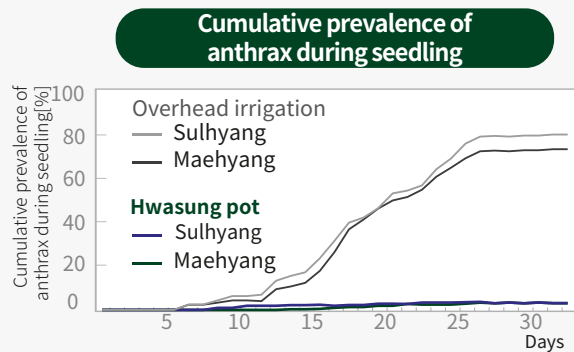
Flow Cultivationraise SEEDLINGS POT

Drip irrigation seeding box Hwasung Pot

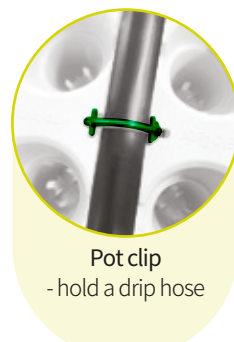
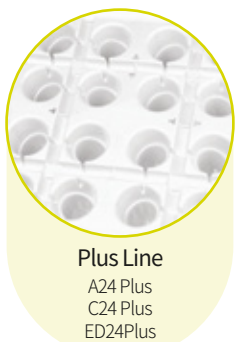
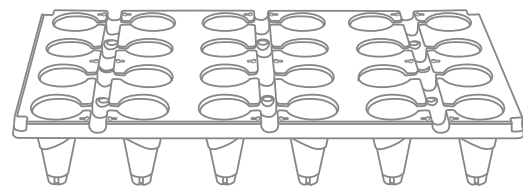
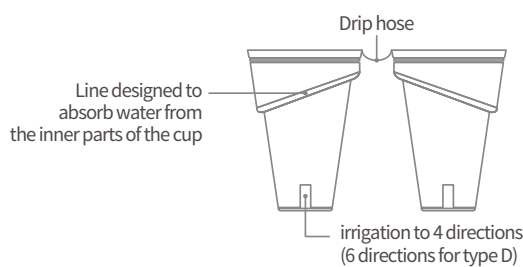
- Help minimize sun burns.
- Irrigation directed to roots with drip irrigation pathways.
- Effective in preventing various blights including anthrax.
- Prevents the dislocation of dripping hoses by dedicated pot clips.
- The lines can only be implemented in Wooreongi Pot which shortens the time for watering. Quick and even irrigation is enabled even when it's far away from dripping sources.
- Multiple dimensions are offered with a variety of choice.



Reduction of 50 to 70% in water consumption
compared to overhead irrigation



Prevalence of anthrax dropped by 60~80%
compared to overhead irrigation



Type
A



Type A24 | 600x340x100(h)
soil volume | 168ml



Type A24 Plus | 600x340x100(h)
soil volume | 210ml



Type A24 Slit | 600x340x100(h)
soil volume | 210ml

Type
B



Type B24 | 510x340x100(h)
soil volume | 168ml

Type
C



Type C24 | 510x340x100(h)
soil volume | 184ml



Type C24 Plus | 510x340x100(h)
soil volume | 184ml



Type B32 | 680x340x100(h)
soil volume | 168ml



Type C28 | 590x340x100(h)
soil volume | 184ml



Type C32 | 680x340x100(h)
soil volume | 184ml

Type
D



Type D24 | 600x400x100(h)
soil volume | 273ml

Type
E



Type E12 | 600x200x100(h)
soil volume | 184ml



Type E24 | 600x400x100(h)
soil volume | 184ml

Type
ED



Type ED24 Plus | 600x400x100(h)
soil volume | 210ml

Type
F



Type F16 | 480x480x100(h)
soil volume | 270ml

Type
S



Type S18 | 600x350x100(h)
soil volume | 215ml

Flow Cultivation Raise SEEDLINGS POT



Type
A

Hwasung pot **Type A series**



Type A24 | 600x340x100(h)
soil volume | 168ml

With wide intervals, the same number of seedlings can be produced leveraging the size of corridors and may expect the improvement of a high-density cultivation environment, providing better working conditions.



Type A24 Slit | 600x340x100(h)
soil volume | 210ml

Air slits on the side supplies enough oxygen to the roots to offer good-quality seeding. It also prevents circling and quicker rooting after transplanting with a natural root severing effect.



Type A24 Plus | 600x340x100(h)
soil volume | 210ml

Can use the space efficiently as irrigation can be directed just as the user wants, either horizontally or vertically.



Type
B

Hwasung pot Type B series

- Produce pinning seedlings in 70~90 days, or basic model optimized for cutting method



Type B24 | 510x340x100(h)
soil volume | 168ml



Type B32 | 680x340x100(h)
soil volume | 168ml

Type
C

Hwasung pot Type C series

- With 184ml of bed soil, optimized for 80~90 day production seedlings
- can be used differently accommodating to the user needs
- For 28 slot model, separate dripping lines may be used for easier management and cultivation experience.



Type C24 | 510x340x100(h)
soil volume | 184ml



Type C24 Plus | 510x340x100(h)
soil volume | 184ml



Type C28 | 590x340x100(h)
soil volume | 184ml



Type C32 | 680x340x100(h)
soil volume | 184ml

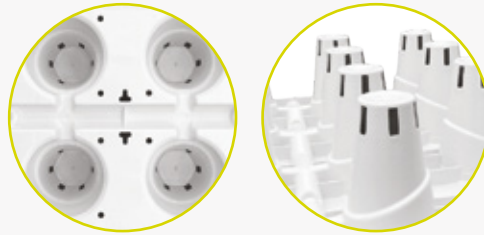


Hwasung pot **D/E/ED** series



Type D24 | 600x400x100(h)
soil volume | 273ml

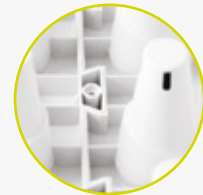
Provides the largest cup sizes and widest intervals to prevent high-density seeding and expect better root growth.



Type E24 | 600x400x100(h)
soil volume | 184ml



Type E12 | 600x200x100(h)
soil volume | 184ml



Type E 24 slot model can be **separated** and **combined** to either 12 slot or 24 slot environment.
When separated, may be utilized for stationary seeding, same as Type E 12 slot model.



Type ED24 Plus | 600x400x100(h)
soil volume | 210ml

Large interval and most popular cell sizes, with no restriction in the direction in implementation, providing fresh environment for the seedlings.

Hwasung pot **F series**

Type
F

- may be separated and assembled in 8 or 16 slots
- Type F is cup-shaped, easily inserted into the soil directly



Type F16 | 480x480x100(h)
soil volume | 270ml



Type F8 | 480x240x100(h)
soil volume | 270ml

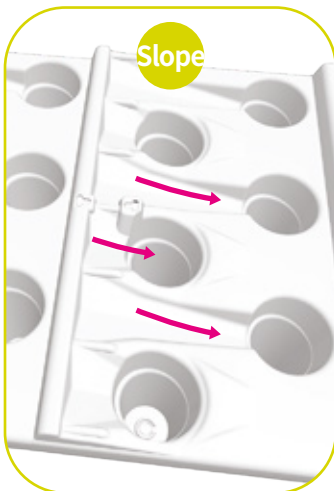
Type
S

Hwasung pot **S18**

- Better for breathing with larger cup intervals
- Enables more precise irrigation control with single-direction slopes
- May be mounted directly on the pipe using the opening on the bottom.



Type S18 | 600x350x100(h)
soil volume | 215ml



I Pot

I Pot

- May be placed directly upon a pipe, using the opening on the bottom (for I-pot 24/32 slots)
- No restriction on the direction in usage in case of I24 Plus, and may accommodate smaller spaces.



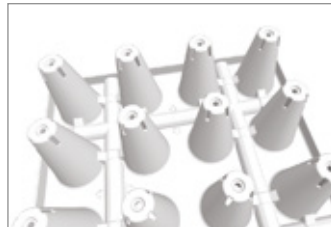
I Pot 24 | 510x340x100(h)
soil volume | 192ml



I Pot 24 | 680x340x100(h)
soil volume | 192ml



I Pot 24 Plus | 510x340x100(h)
soil volume | 185ml



K128

K128

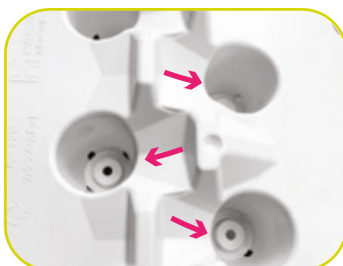
- Enables precise irrigation control as the irrigation route is set up independently, not shared by other waterways.
- Even if the mounted brackets are slightly off-level due to sinking, etc., it does not impact the irrigation.
- If used with **Jiffy** pellets, easy to use dripping hoses from the buffering.
- Provides a better growing environment designed for excellent breathability with easier drainage and wider crossed arrangement.



K128-12 | 400x350x105(70)(h)
soil volume | 158ml



K128-18 | 600x350x105(70)(h)
soil volume | 158ml



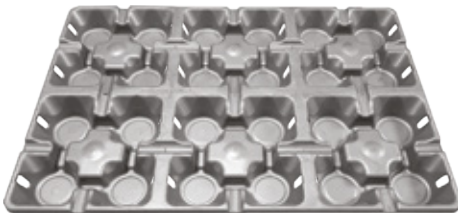
Flow Cultivationraise TRAY

Bottom irrigation Tray

- Installation is easy
- No facility changes are required if you are using Hwasung pot
- Weep hole structure to prevent overwatering
- Stronger against infectious diseases, etc., as the harmful germs cannot travel easily with the arrangement with individual trays
- Irrigation is enabled with a nutrient pump(distribution pump) by equipping drip hose brackets. Can selectively distribute water on the line with inserted runners, providing you with economical solutions



Tray 24 | 510x340x40(h)
products applied | General 24, B24, C24, C24Plus

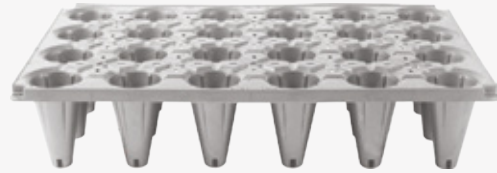


Tray D24 | 600x400x40(h)
products applied | D24, E24, ED24 Plus

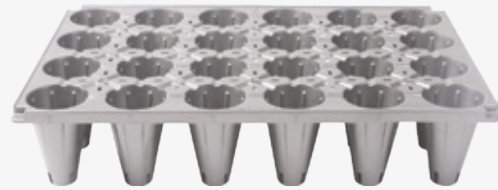


Tray 32 | 680x340x40(h)
products applied | General 32, B32, C32

General Pot



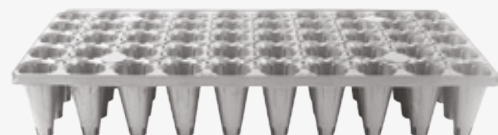
General 24 | 500x330x100(h)
Soil volume | 165ml



General 24-L | 500x340x100(h)
Soil volume | 235ml



General 32 | 660x330x100(h)
Soil volume | 165 ml



General 50 | 650x330x100(h)
Soil volume | 155ml

Seedling BOX

Parent Seed Box

Multicup Bed

- Next generation bed useable in seeding and cultivation.
- Economical with the use of appropriate amount of bed soil and prevents the blight from reusing the bed soil.
- Fosters even growth between crops without unnecessary competition.
- Even when a root of strawberry catches disease, it does not transfer to another pot.

Multi
CD



Multicup Bed - CD5 | 680x240x140(h)

Multi
A



Multicup Bed - A | 680x270x150(h)

Multi
NA



Multicup Bed - NA6 | 540x283x173(h)

Multi
C



Multicup Bed - C6 | 680x215x135(h)



Multicup Bed - C5 | 570x215x135(h)

Multi
D



Multicup Bed - D6 | 740x240 x135(h)



Multicup Bed - D4 | 500x240x135(h)



**Multi
A**

MultiCup Bed - A



MultiCup Bed - A | 680x270x150(h)



Convex dome-shaped bottom and drainage connected to the lower plane provides excellent drainage and sufficient oxygen.



Easy irrigation using dripping hoses or drippers, and reduces labor requirements

MultiCup Bed - A_Front side



MultiCup Bed - A_Upper side



MultiCup Bed - A_Bottom side





MultiCup Bed - NA6



Multicup Bed-NA6_Upper side



Multicup Bed-NA6_Bottom side



Downward slope helps prevent the flower stalk from breaking. The design allows even distribution of water even with drip hoses.



May be fixed at a position easily using dedicated pot clips.



May be used for multiple purposes by installing pipes on the bottom or integrating drip hoses.



Multi
C

MultiCup Bed - C (5/6)



MultiCup Bed - C6

680x215x135(h)



MultiCup Bed - C5

570x215x135(h)

MultiCup Bed-C6_Upper side



MultiCup Bed-C6_Bottom side



MultiCup Bed-C5_Upper side



Multi
D

MultiCup Bed - D (4/6)

- A total of 3 lines of brackets for dripping hoses.
- No restriction on irrigation of 1 or 2 lines, provides versatile options.
- Provides a better environment with wider planting intervals.



MultiCup Bed - D6

740x240x135(h)



MultiCup Bed - D4

500x240x135(h)



MultiCup Bed-D6_Upper side



MultiCup Bed-D6_Bottom side



MultiCup Bed-D4_Upper side





MultiCup Bed - CD5



Multicup Bed - CD5_Upper side



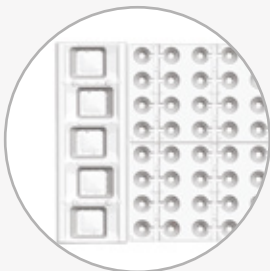
Multicup Bed - CD5_Bottom side



Irrigation in many directions
(One line in the middle,
or two lines on both sides)



Water flows easily along
the slope when watering
with two outer rows.



The size that perfectly fits
2 units of Hwasung Pot
Type A, B, or C.



Soil TOOLS

Soil filler

▶ Search **Hwasung pot** on YouTube. You can see how to use it.



Soil filler for MultiCup Bed

A / NA | A-5468
CD | CD-6874



Soil filler for Hwasung pot

348 / 408 / 518 / 608 / 618-K / 618-S / 688

 **STOP!**

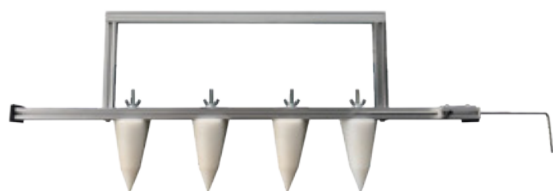
You can save time and labor to fill the soil.

The use of soil fillers can dramatically reduce the labor and time spent filling soil.



※ Crafted with lightweight and sturdy aluminum to ensure comfort for the users and tidy storage.

Soil perforator



Soil perforator | adjustment of hole quantity



Soil perforator (1hole)



Soil perforator (1hole/for drill)



The width of handrail, the number and interval of pores may be adjusted just as the users want.

Seedling BOX

Parent Seed Boxes

Sky
A



Sky Bed - A | 1000x270x80(h)
Components | Filter 1set / Bed clip

Sky Bed - A
_Upper side



Sky Bed - A
_Bottom side



Components



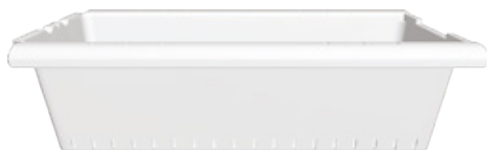
C
Bed



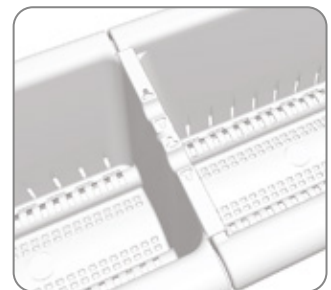
C Bed | 685x210x135(h)

Bed for seeding. Uses less amount of potting compost, therefore economical and easier to install and manage. Providing excellent breathing and drainage through holes on the sides.

G
bed



Growing Bed - L | 610x270x180(h)



G bed
M



Growing Bed - M | 600x285x100(h)



The center of the mounting part has been designed to be at the lower position to avoid it from deviating from standardized installation dimensions. Meanwhile, wider width on the upper parts allows the adjustment of the potting compost higher or lower as the user requires.

GH
1000



GH - 1000

1,000x210x150(h)

Cultivating box for European-style gutters

Holes that connect from the bottom to the side offer excellent breathing and drainage. It minimizes the loss space between products with a length of 1 meter. Also, it can be installed on top of pipes using the mounting opening on the bottom. Easy to install warm water pipes when using the gutter.



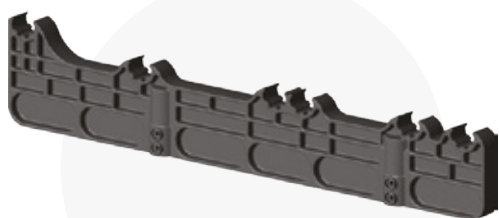
Seeding Bench

Bench

Applicable for

Drip irrigation seeding pots,
Bottom irrigation tray, General pots

· Leveraging 24, 32 slot benches allow more simple and sturdy installation of pipes for pots and trays.



Bench - 24



Bench - 32



Fixing pin



Pot clip

M 55mm / L 65mm

Flower POTS

Horticulture pots

· It exhibits less floor rooting equipped with a breathing bottom plane and side drainage for a smooth draining process. Helping the root system to grow stronger.

Square pot



Type-3 | 90x90x97(h)



Type-5A | 115x115x100(h)



Type-5B | 115x115x160(h)



Type-5C | 112x112x215(h)



Type-6A | 135x135x155(h)



Type-6B | 135x135x220(h)



Type-7 | 175x175x190(h)



Type-9 | 220x220x230(h)

Tray for Square pot



Tray for Square pot Type 3



Bottom irrigation tray
(Drip hose available for Square pot Type 3)



Square pot Type 3 + Trays



Tray - Type 5 (10 hole)
Tray - Type 6 (8 hole)



Tray - Type 5C



Square pot Type 6 + Tray 6
Color model

Overhead Flooding

IRRIGATION SYSTEM ACCESSORIES

Irrigation materials

2-Layer Drip hoses



- Excellent and world-class performance in irrigation
- Great durability with UV-blocking materials
- Long-range irrigation with low pressure
- Drip control with computers and equipped with automated cleaning feature



2Layer Drip hoses

- Two-layered drip hoses with black on the inside and white on the outside
- Shows less algae compared to generic white drip hoses, and the internal temperature of the hose is lower by 10%~20%
- Reduces contraction or expansion phenomenon, as well as magnifying glass effect within a greenhouse.

Diameter(mm)	Thickness(mm)	hole distance(cm)	Flow rate(L/hr)	length(m)	Working pressure(bar)
16	0.25	5 / 7 8.5 / 10 15	0.9~1.2	1,000 (5cm≒ 500m)	0.8~1.0

Drip hoses for transplanting



Drip hoses for transplanting

Diameter(mm)	Thickness(mm)	hole distance(cm)	Flow rate(L/hr)	length(m)	Working pressure(bar)
16	0.20 0.25 0.30	7 / 8.5 10 / 15 / 20	0.9~1.2	1,000	0.8~1.0

CHAPIN
(Made in USA)



- The brand renowned for the longest history and tradition in the world.

Diameter(mm)	Thickness(mm)	hole distance(cm)	Flow rate(L/hr)	length(m)	Working pressure(bar)
16	0.2	5	0.75	1,000	0.75~1.0

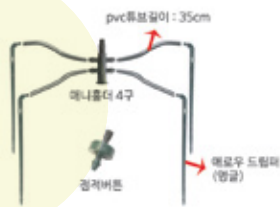
DIG Micro Inline drip
(Made in USA)



- Thin and long in-line drip with 4mm (4/7)
- Provides balanced irrigation with longer turbulent type dripper.
- Auto cleaning feature that prevents the blocking of waterways
- Rational and eco-friendly choice for agriculture and landscaping

Diameter(mm)	Thickness(mm)	hole distance(cm)	Flow rate(L/hr)	length(m)	Working pressure(bar)
4	1.10	15	2.0	300	1.0

Dripper SET



- Less failure even after long-term use with affordable price
- Easy-to use apparatus with excellent dripping capability

Set 1	Manifold + Netafim 8L (drip button) + Black PVC(35cm) + Dripper (Black)
Set 2	Manifold + Netafim 8L (drip button) + Black PVC(60cm) + Dripper (Black)
Set 3	Manifold + Netafim 8L (drip button) + White PVC(35cm) + Dripper (Black)
Set 4	Manifold + Netafim 8L (drip button) + White PVC(60cm) + Dripper (Black)
Set 5	Manifold + Netafim 8L (drip button) + White PVC(35cm) + Dripper (White)
Set 6	Manifold + Netafim 8L (drip button) + White PVC(60cm) + Dripper (White)

Transparent Containers

Clear Container

- Produced with Polypropylene, an eco-friendly material approved by the FDA in the United States.
- High customer satisfaction with durability and cute designs
- High-quality container free of concern of environmental hormones
- Consists of one-touch open/closure system and practical foldable handles



Packaging box

Case used for packaging blueberries and cherries with high-end quality

- Design and package composition may differ.



Berry Type



100g (500ea)
105x85x40(h)



250g (400ea)
140x115x55(h)



500g (200ea)
180x125x65(h)



1kg (100ea)
230x185x70(h)

Slit Type



500g (200ea)
185x125x90(h)



800g (100ea)
195x195x85(h)



1kg (100ea)
228x185x85(h)



2kg (50ea)
297x235x100(h)

General Type



800g (100ea)
195x195x85(h)



1kg (100ea)
228x185x85(h)



2kg (50ea)
297x235x100(h)

Round Type



055
200x85(h)



085
257x93(h)

Heart Type



300g (high:200ea)
168x150x60(h)



300g (low:220ea)
168x150x47(h)



500g (high:150ea)
200x175x65(h)

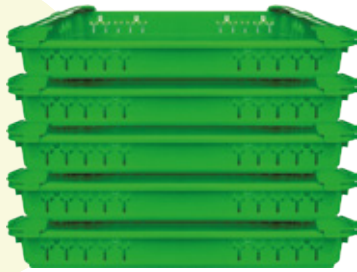


500g (low:160ea)
200x175x55(h)

Multi BOXES

Multibox

| 505x330x78(h)



- Features breathing holes to maintain freshness, and easy structure to fix the buffer material
- Harvested in one row, less loss during selection process
- Light weighted boxes makes for easy
- Good for efficient use of space as the design allows a stable multi-layer stack through effective weight distribution.
- Save more than 70% by stacking up and storing



Stackable Multibox

| 350x320x100(h)



- It is easier to load when using the product
- Save more than 60% of space by stacking up and storing
- Easy to work with, with comfortable weight
- Good for efficient use of space as the design allows a stable multi-layer stack through effective weight distribution



Gormi filter (Blue berry)

| 495x355x50(h)



1set | Tray, 13mm, 15mm, 17mm, 19mm (made from ABS)







Economical manual blueberry filter featuring practical composition and reasonable price.









Actual size from the left 13mm,15mm,17mm,19mm

Hwasung Pot PRODUCT SPEC


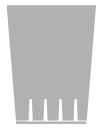



Hwasung Pot

	Type A/B	Type C/E	Type D	Type A Plus	Type F	Type S
Shape						
Cup Size (soil volume)	Ø55×Ø20 (168ml)	Ø55×Ø25 (184ml)	Ø65×Ø35 (273ml)	Ø55×Ø28 (210ml)	Ø75×Ø15 (270ml)	Ø56×Ø34 (215ml)
Cup spacing	100mm / 85mm	85mm	100mm	100mm / 85mm	120mm	110mm / 200mm






General Pot/I-Pot/K128

	G 24/32	G 24-L	G 50	I-pot 24/32	I-pot 24 Plus	K128
Shape						
Cup Size (soil volume)	Ø55×Ø20×100 (165ml)	Ø65×Ø35×100 (235ml)	Ø52×Ø20×100 (155ml)	Ø55×Ø34×100 (184ml)	Ø60×Ø28×100 (184ml)	Ø51×Ø40×70 (158ml)
Cup spacing	85mm	85mm	85mm	85mm	85mm	100mm

MultiCup Bed

	Multi-A	Multi-C	Multi-AD	Multi-CD	Multi-NA
Shape					
Cup Size (soil volume)	120×89×150 (1,680ml)	110×87×135 (1,540ml)	110×126×135 (1,820ml)	110×126×135 (1,820ml)	146×100×133 (1,750ml)
Cup spacing	170mm	110mm	120mm	135mm	180mm

Parent Seed Boxes

	C Bed	Growing bed-L	Growing bed-M	GH-1000	Sky bed-A
Shape					
Cup Size (soil volume)	685x210x135(h) 15.7L	610x270x180(h) 25.2L	600x285x100(h) 15.1L	1000x210x150(h) 23.3L	1000x270x80(h) 20.7L

HWASUNG pot



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