



PLANT TECHNOLOGY

Potted plants automation



POTTED PLANT PRODUCTION

Visser Plant Technology

Since 1967, Visser Plant Technology has designed and manufactured machines and complete production lines for both large and small horticultural nurseries. Visser is able to supply a wide range of systems for potted plants production. As an innovative organization with global operations, Visser is a leading force in the horticultural sector.



Sign up for our newsletter

Go to www.visser.eu and be updated on new developments and case stories.



AN ALLROUND SOLUTION FOR POTTED PLANTS

Turn-key

Visser is a turnkey specialist in potted plants and has been providing fully automated patented systems for over decades. We aim to be your partner in highly efficient, high quality production. From soil preparation up to packed product, Visser provides everything you need for a clean, efficient and controlled process. With minimal labor and an organized work environment your production will be fluent and optimal.



Seeding



Filling



Soil Handling



Transplanting



Space-o-Mat



Irrigation



Packing & delivering





A good start
is a great finish!



PREPARING & PROVIDING SOIL

Soil Handling

The storage and preparation of soil substrate form the basis of the cultivation of plants. The most suitable soil preparation system can be chosen according to volume and the number of different substrates required for your process. For the storage of substrate Visser provides conveyor equipped bunkers with soil digging cranes. For substrate preparation for smaller batches Visser provides proven soil mixing systems, watering systems and glue systems.



PARTNERING IN FILLING

Pot filling

Prior to all cultivation, pots are filled with the optimal substrate. To achieve a successful growth of the root system of the plant, all pots must be filled with a constant quality and density level.

Visser partnered with the experienced high quality supplier Mayer, who specializes in pot filling. Mayer provides a wide product range from basic machines, up to high end - high capacity machines. Focusing on all essential details & design, Mayer provides the type of machines Visser gladly adds to their turn key solutions.



mayer



A wide product range
from basic, up to
high capacity machines.



VISSEER
horti systems

VTF

For a **clean filling** result.

TEMPLATE FILLING MACHINES

Pot in Tray filling

Visser supplies a wide range of tray fillers for pots. All our tray fillers reduce soil waste by means of a template, provide a clean filling result and allow you to change to different tray or pot sizes by changing the template. To complete the automation we also provide tray destackers, pot dosing units and bark spreaders. An excellent filling result will influence the quality of your finished product. Visser provides high quality equipment for the best result!



SEEDING DIRECTLY ON POTS

Seeding

Herbs can be sown directly on to pots. Visser specializes in seeding lines and provides our 'Granudine' seeder, which is perfect for seeding naked seeds in bigger amounts in pots with a high capacity.

Our mechanical plate seeder also provides options for seeding directly on pots in trays. All pelleted seeds can be sown with the plate seeder.



Accurate specialized seeding.



A CONTINUOUS WORK FLOW

Transplanting

The Visser PC11 enables transplanting directly on the potting machine. The machine can pick up plants from every source tray and plant them in the potting machine. The machine can store 50 plant combinations which can easily be changed during production. With up to 5500 plants per hour this machine is the perfect solution for a continuous workflow and an efficient environment. After the transplanter, plants can be automatically collected to be transported to the greenhouse for further cultivation.

**The perfect solution for an
efficient work flow.**



FAST AND EFFICIENT POT HANDLING

Space-o-Mat System

Visser developed a very efficient system for potting and transport of pots and trays, which has been proven internationally over the years. The Space-O-Mat system reduces labor and costs.

The Space-O-Mat system is designed to automate the entire potting and transportation process.

TO THE GREENHOUSE

1



Filling & transplanting

2

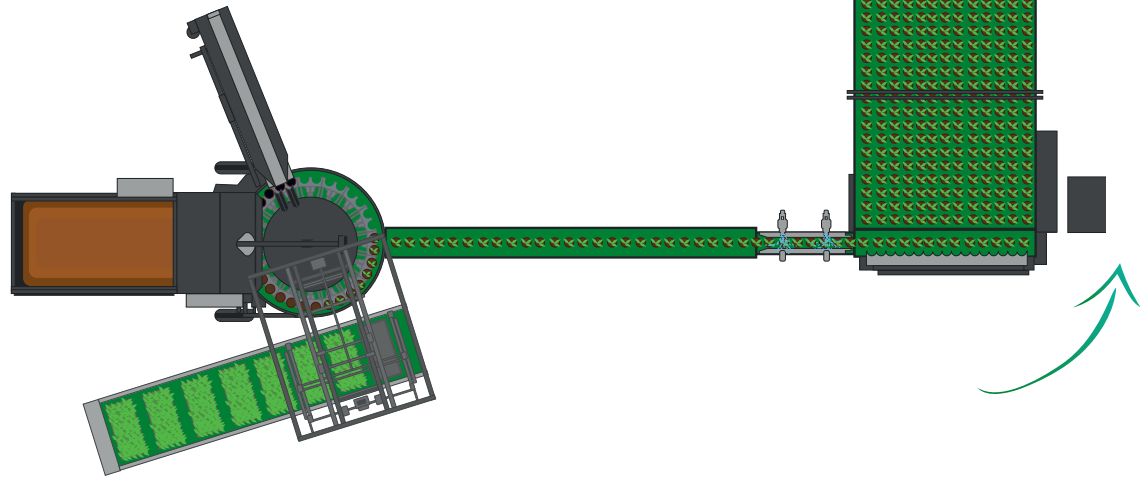


Collecting

3



Watering



The Space-O-Mat line starts with filling the pots automatically. After this, the pots will be transported by an output conveyor towards the buffer belt, where the pots will be collected and picked up with a forklift and a fork.

4



Transport to bay



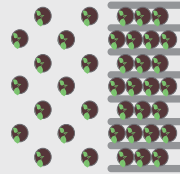
Transport to bay by double fork

5



Growing in bay

The forklift driver will bring the pots to the greenhouse, where the pots can be placed. At a later stage, the pots can be spaced with a spacing fork. When the plants are ready to be delivered, the fork can pick up the plants and then transports them to the shipping area.



6



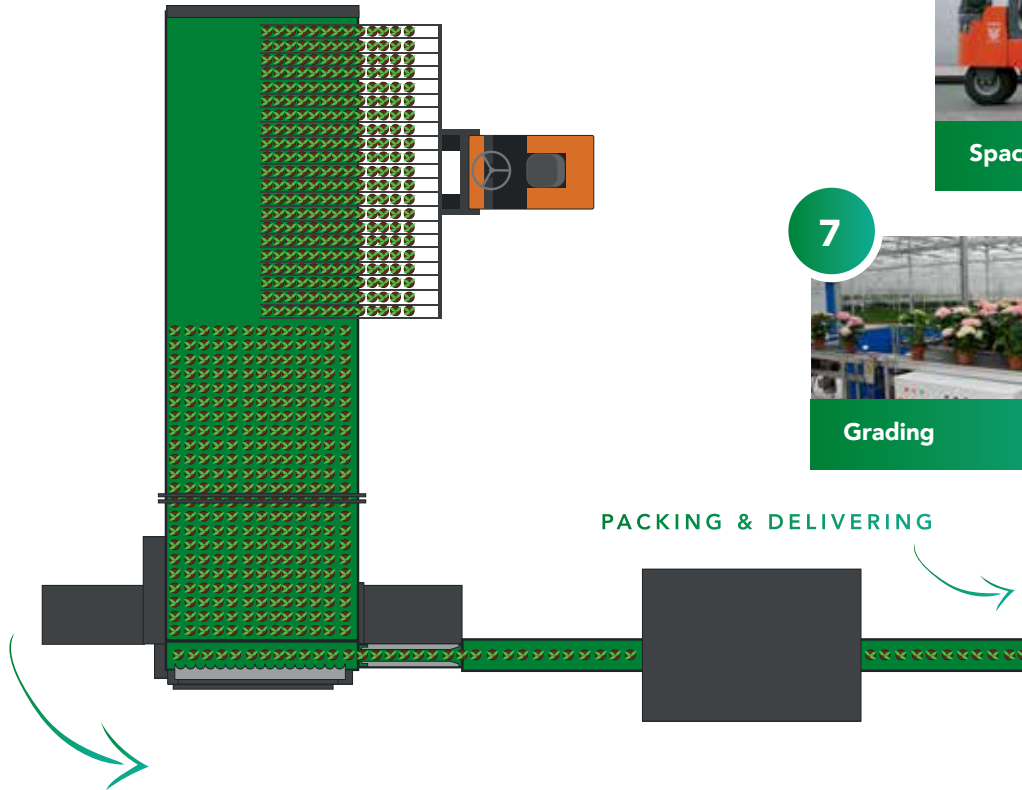
Spacing

7



Grading

PACKING & DELIVERING





ERGONOMIC & LABOR SAVING

Packing

A neatly efficiently packed plant requires a well designed automated process. Visser provides options for labeling, sleeving and automatic loading.



PRECISION & CONTROL

Irrigation

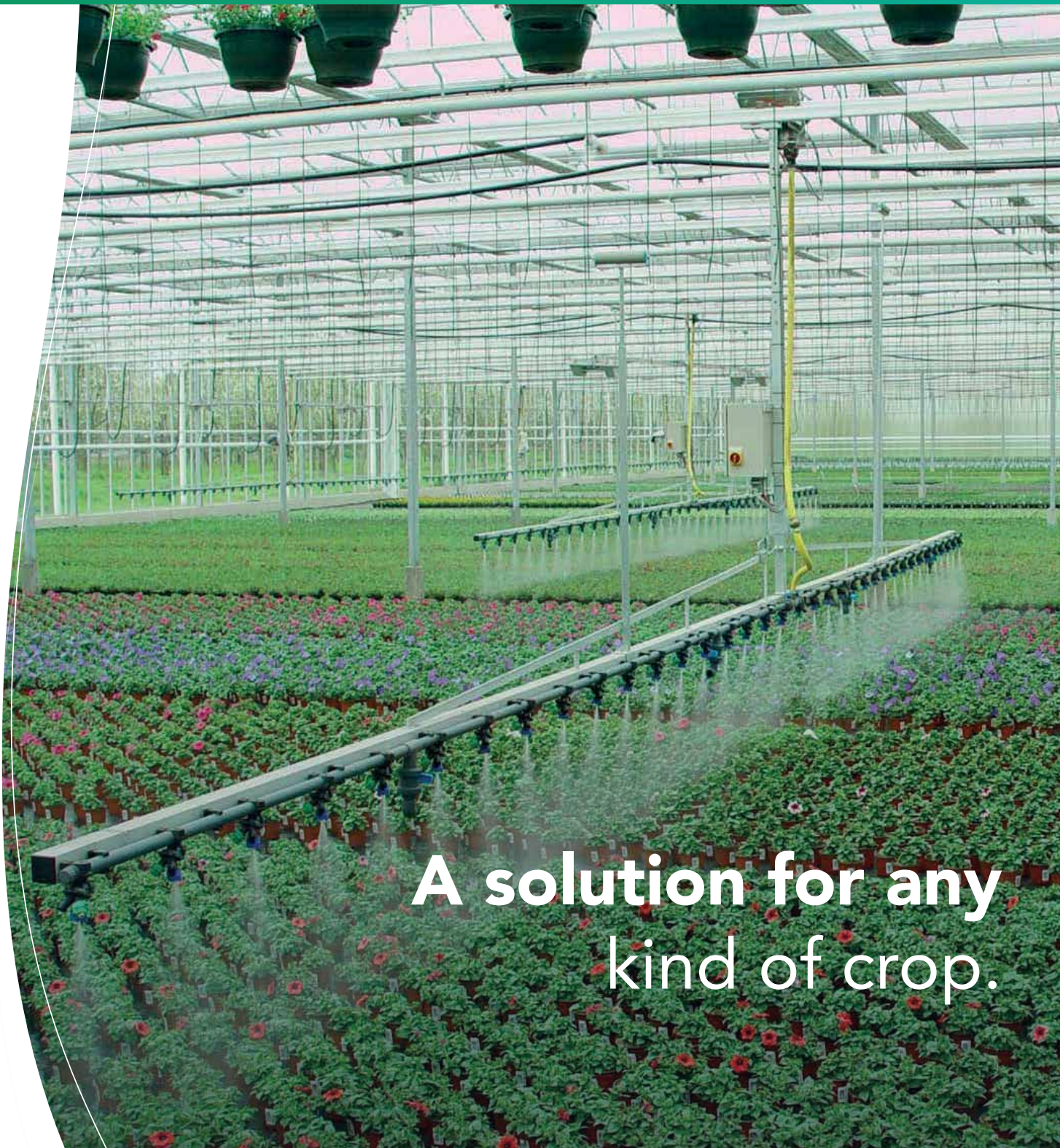
Irrigation and crop care are the basic needs of all plants. Through the years, Visser has accumulated a lot of expertise in this area and has developed a wide range of spraying and watering booms.

For every kind of crop, a spraying or watering boom has been designed for the specific application.

Solutions include: a fixed boom for each bay for maximum capacity, mobile systems for efficient use and a fully-automatically operating system that moves the spraying or watering boom from bay to bay according to a preprogrammed schedule.

Each system is individually assembled to accommodate your wishes and adjusted to specifications such as greenhouse layout, type of crop and operating requirements. All this results in a spraying or watering boom system that will operate to your full satisfaction.





**A solution for any
kind of crop.**

PLANT DELIVERY

Dynagrip

Visser designed a delivery system which includes grading, buffering on the ebb and flow floor, collecting and packing. The unique Dynagrip can transport pots of different sizes and runs at a high capacity for efficient preparation of your finished product.



Grading for buffering



Buffering product

Product handling around main processes is our vast experience.



Collecting (graded) product for buffering



Assembling for packing

Flexible in pot and plant sizes.

The unique patented gripper makes it possible to process different pot- and plant sizes with the same gripper. Dynagrip adapts to the required pot size, just by entering the right size on your computer. No mechanical modifications are required whatsoever.

Flexible in buffer capacity

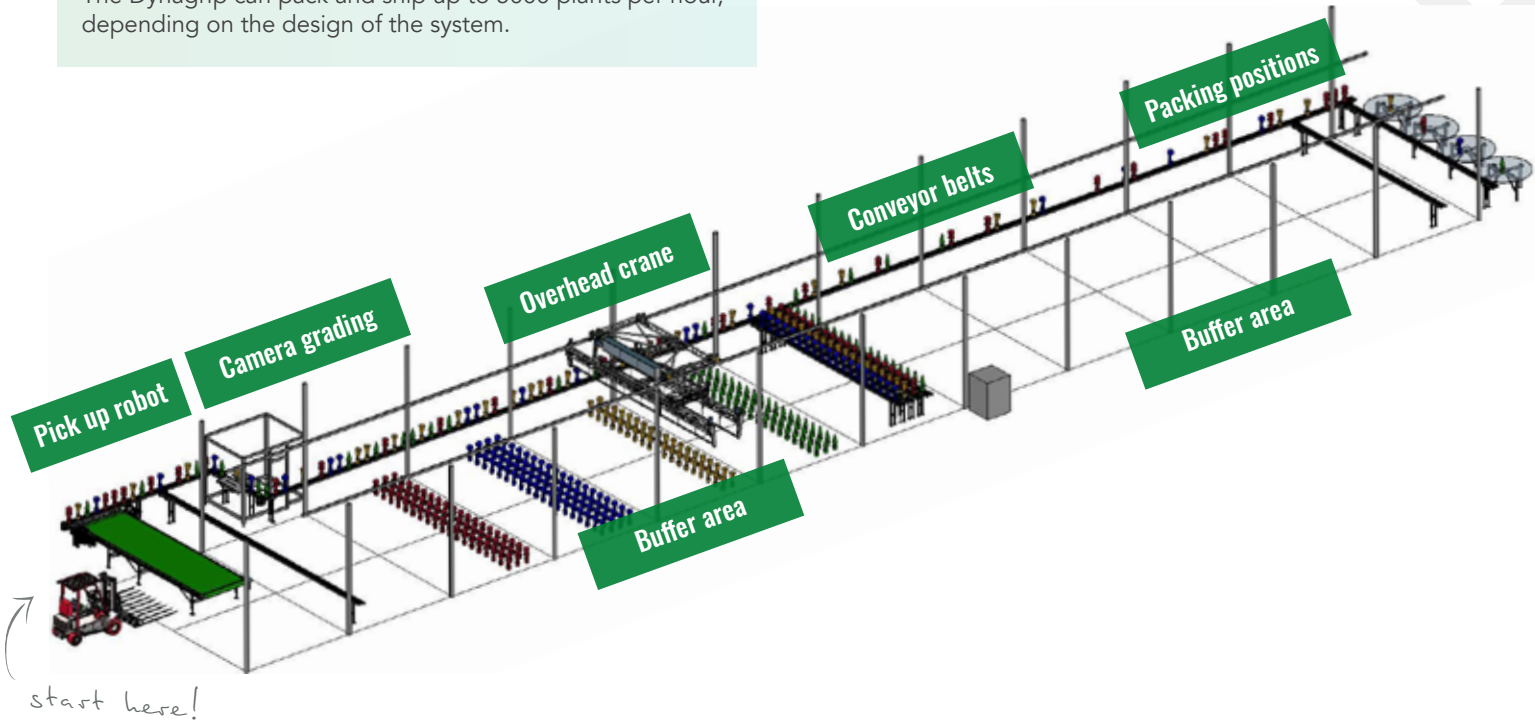
The buffer capacity is adjustable at any time. Sometimes more space is required, sometimes less space is sufficient. Just press the button and let the Dynagrip do its work.

Flexible in business operations

Delivering, Just in Time, buffering, return goods and plant grading. The user-friendly software is able to do all these things without any mechanic modifications.

High capacity

The Dynagrip can pack and ship up to 5000 plants per hour, depending on the design of the system.



ADDING VALUE

WaterWick

A self-watering system for plants which can be applied automatically. The plant draws water from a reservoir via the WaterWick ClickStick and provides any plant with the exact right amount of water. This technique inside the product is a great solution to shorten your cultivation period, to improve quality in the supply chain and to improve shelf life. Eventually it makes consumers satisfied and happy with their plant!





Let your plant
water itself!

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