

PLANT TECHNOLOGY

Potted plants automation



POTTED PLANT PRODUCTION

Viscon plant technology

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



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AN ALLROUND SOLUTION FOR POTTED PLANTS

Turnkey

Viscon 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, Viscon 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



Transplanting



Space-o-Mat



Filling



Irrigation



Soil handling



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 Viscon provides conveyor equipped bunkers with soil digging cranes. For substrate preparation for smaller batches Viscon 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.

Viscon 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 Viscon gladly adds to their turn key solutions.



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



For a **clean filling** result



TEMPLATE FILLING MACHINES

Pot in tray filling

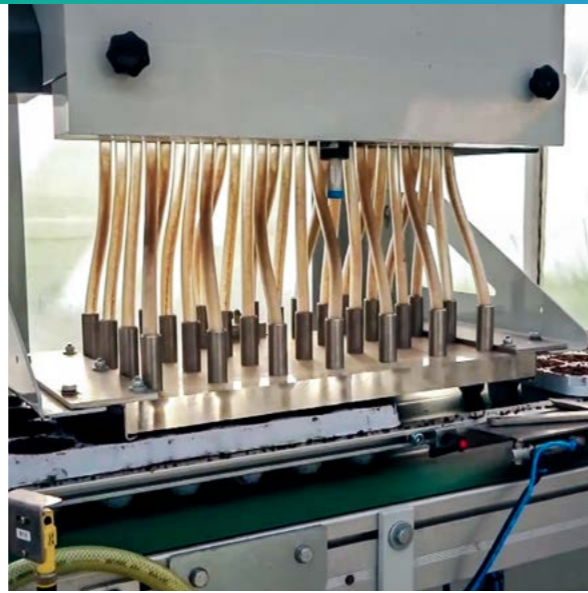
Viscon supplies a wide range of tray fillers for pots. All our tray fillers reduce soil waste by means of a template, provide a clean filling result and allow you to change to different tray or pot sizes by changing the template. To complete the automation we also provide tray destackers, pot dosing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

SEEDING DIRECTLY ON POTS

Seeding

Herbs can be sown directly on to pots. Viscon 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.



Complete filling and seeding lines



Creating high accuracy
at high speed



The perfect solution for an
efficient work flow.



A CONTINUOUS WORK FLOW

Transplanting

The Viscon 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.



FAST AND EFFICIENT POT HANDLING

Space-o-Mat system

Viscon 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.



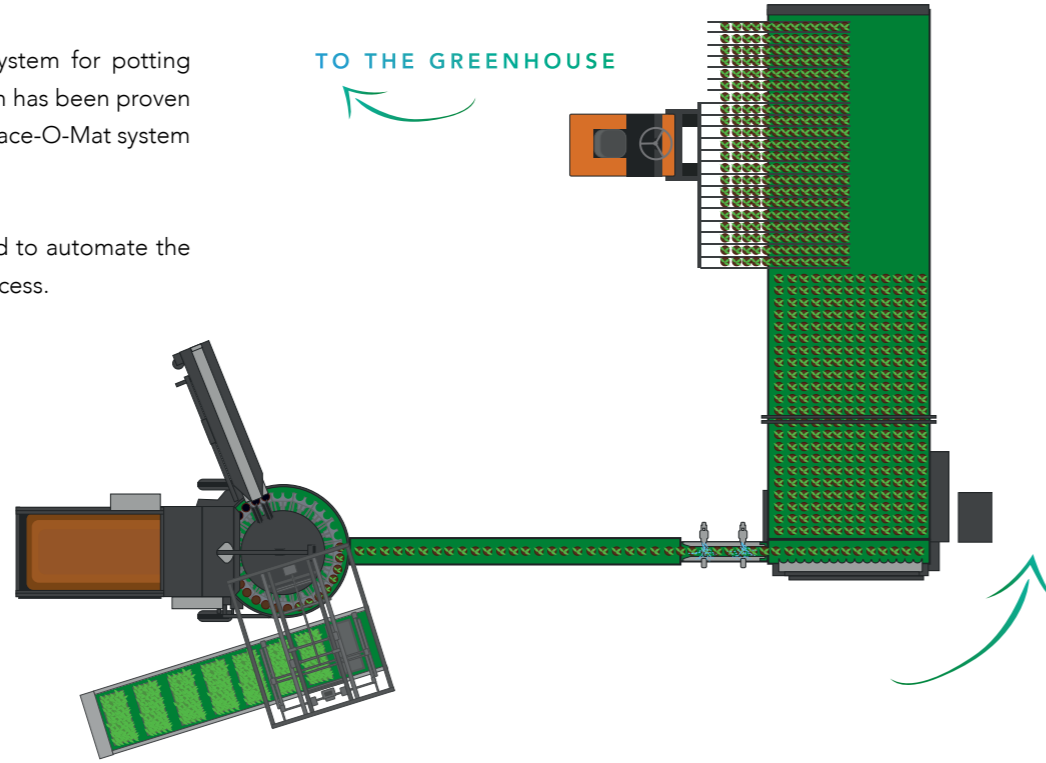
1 Filling & transplanting



2 Collecting



3 Watering



TO THE GREENHOUSE

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

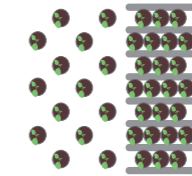


5 Transport to bay by double fork



6 Growing in bay

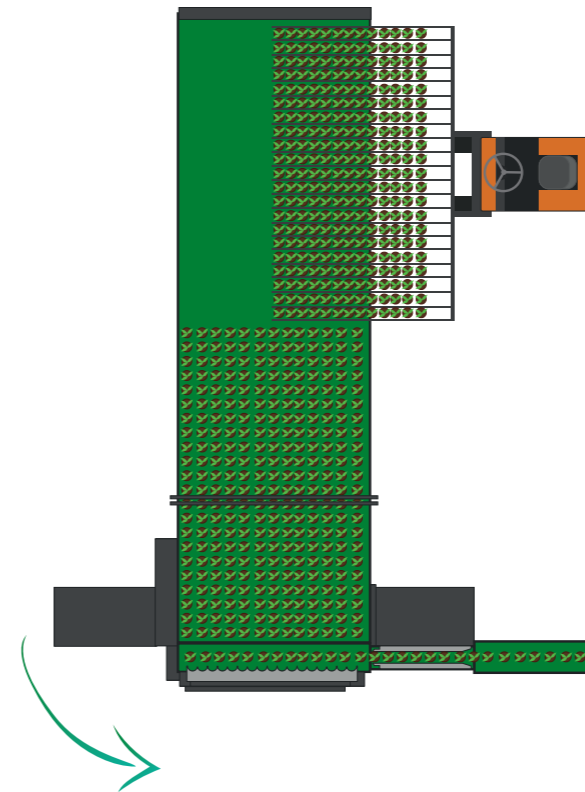
The forklift driver will bring the pots to the greenhouse, where the pots can be placed. At a later stage, the pots can be spaced with a spacing fork. When the plants are ready to be delivered, the fork can pick up the plants and then transports them to the shipping area.



7 Spacing



8 Grading



PACKING & DELIVERING





ERGONOMIC & LABOR SAVING

Packing

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



PRECISION & CONTROL

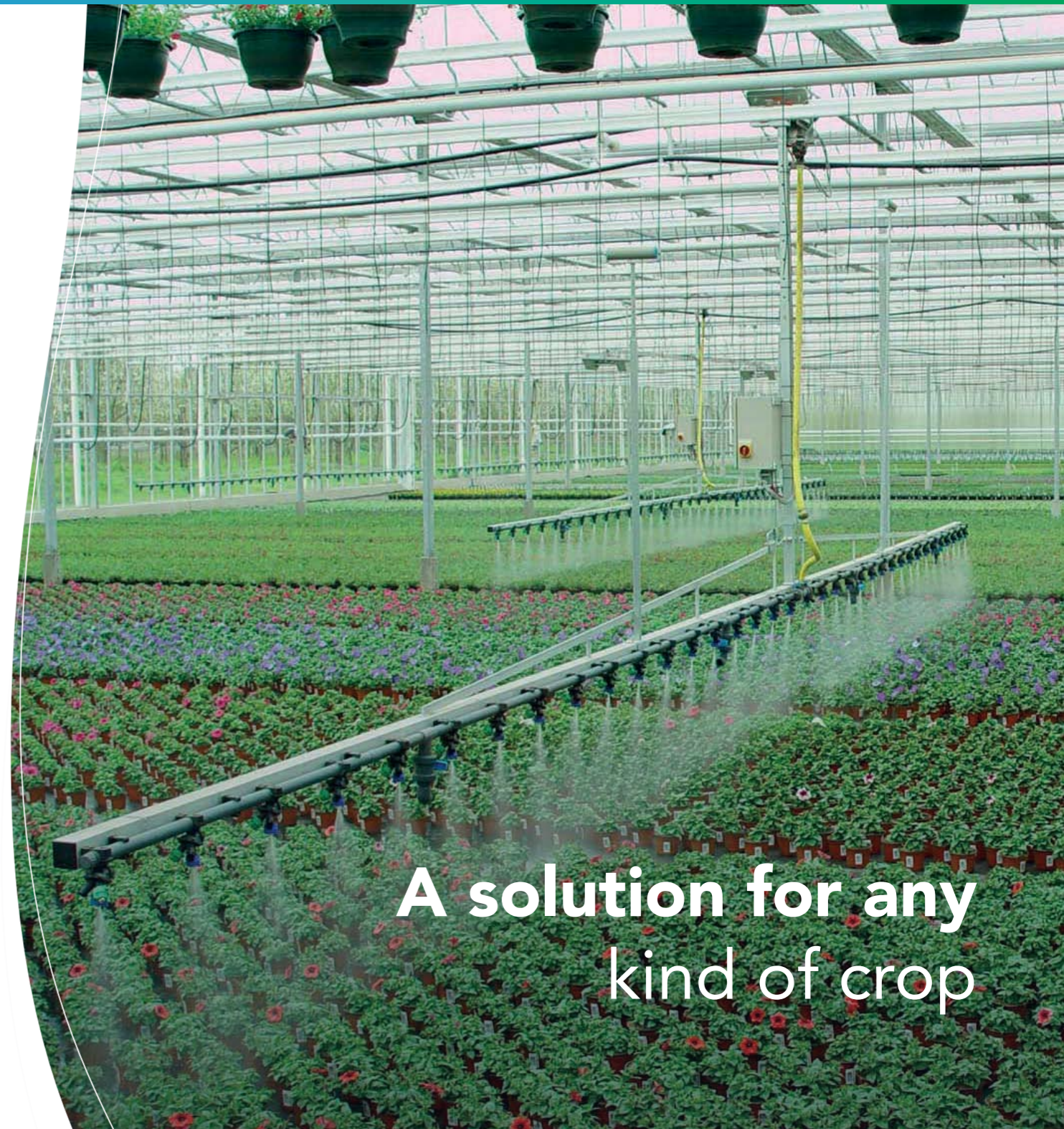
Irrigation

Irrigation and crop care are the basic needs of all plants. Through the years, Viscon 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**

ADDING VALUE

Grown with WaterWick

Grown with WaterWick is a unique cultivation method which accelerates the cultivation speed of your plants and stimulates sustainable growing. The WaterWick growing method can be integrated into any greenhouse structure using tables and concrete floors.

The plant draws water from a reservoir via the WaterWick and provides any plant with the exact right amount of water. This technique is a great solution to grow more uniform, sustainable, and energy efficient!



The next big step in
sustainable growing!

Excellence in sustainable plant production



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