




PLANT TECHNOLOGY

AutoStix

Cutting transplanting



Providing you a turn-key
solution with strip and
machine.

What is AutoStix?

Visser developed a revolutionary system to automate the process of the sticking of cuttings, AutoStix®. Together with one of the biggest cutting producers in the world, Visser developed a system which can create great efficiency in your nursery. The system consists of a newly developed patented transplanter and a compatible special patented strip and tray that complete the system and create a turn-key concept.

AutoStix® is based on the newly developed AutoStix® Strip. The cuttings that are harvested from the mother stock, can directly be stuck in the AutoStix® Strip.

Innovative strip system

The AutoStix® Strip is a product which degrades over time. The strip has been designed to enhance and guide the development of the root system. The strip can hold cuttings with different stem diameters, yet the strip can still position the stems firmly without damaging the soft tissue.

The cuttings can be shipped at a high density. This enhances quality in the process. The cuttings can be shipped efficiently to the nursery that will further process the cuttings to grow them.





AutoStix Strips

AutoStix® creates great efficiency in your nursery. The strip has been designed to enhance and guide the development of the root system. Visser has developed a series of AutoStix® strips which are available for sticking different types of cuttings.

The concept of AutoStix® is based on the developed AutoStix® Strip. The cuttings that are harvested from the mother stock, can be directly stuck in the AutoStix® Strip. The AutoStix® Strip degrades over time and has been designed to enhance and guide the development of the root system.

The strip can hold cuttings with different stem diameters, yet the strip can still position the stems firmly without damaging the soft tissue. The strip is available in two types: one strip can hold 51 cuttings and the other can hold 34 cuttings. The system works best on 102 counts (either $51 \times 2 = 102$ or $34 \times 3 = 102$).

1. Unrooted Cuttings



2. Bare-Root Cuttings



3. Media Rooted Cuttings



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1. Unrooted Cuttings

Cuttings of different varieties and sizes are manually stuck into an AutoStix® strip in off-shore production locations. The machine will plant the cuttings, after which they start to root inside the trays until they are ready to be transplanted into the finished pot. Machines reach a capacity of up to 10.000 cuttings when sticking into trays.



**Creating great efficiency in
your nursery.**



Special rooting process in the AutoStix® strip.



2. Bare-Root Cuttings

Visser Horti Systems proudly shares the application of the open source AutoStix® concept with Basewell™ technology, which allows for the automatic transplanting of bare-root cuttings.

Dümmen Orange developed a technology for rooting cuttings in the AutoStix® strip without growing media. Basewell™ allows for the shipment of bare-root cuttings from off-shore production locations to growers, ready to transplant directly into the finish container.

The Basewell™ technology consists of a special rooting process in the AutoStix® strip, which offers various benefits for growers: reduce complexity within the growing process, decrease labor force, and optimize the use of space in nurseries.



Plugs can be filled with any type of growing medium.



3. Media Rooted Cuttings

Visser developed the revolutionary Multimedia strip with Ball Horticultural Company. The strips are filled with media, which is followed by the insertion of small holes and shipment to off-shore production locations such as Africa or Central America. The strips are wettened and cuttings can be transplanted into the new strip.

The innovative Multimedia strip is designed so that its plugs can be filled with any type of medium. When cuttings are transplanted into the strip, the rooting process can take place inside the plug. A special growing tray prevents that roots of different cuttings intersect in the Multimedia strip. For the European market, Visser Horti Systems launched the Multimedia strip together with Selecta One.



AutoStix Automation



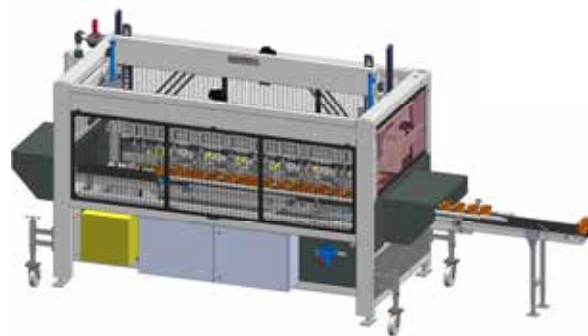
The dedicated nursery can use AutoStix® to automatically transplant the cuttings. The strips go in the machine and the machine cuts off each cell and transplants both the cell and the plant in the new plug, pot or tray. The machines can run all available strips in the system by adjusting the settings on the user friendly Siemens touch screen.

AutoStix® opens the opportunity to transplant big and leafy plants without damaging any leaves. The cutting device in the machine does not touch the leaves. The special gripper will pick up the plant by the cell and not 'in' the cell, as occurs in traditional systems. This special transplanter has multiple infeeds for singulated strips.



Cutting transplanting in trays

- Machines with 3 or 6 grippers
- Up to 10.000 cuttings per hour
- Saving labor costs & time



Cutting transplanting in pots

- Machine with 6 grippers (more upon request)
- Up to 13.500 cuttings per hour
- Multi color sticking in end pot

Complete production lines

The AutoStix® system comprises patented strips and trays which are suitable for Visser automation. Apart from transplanting cuttings into pots and trays, the AutoStix® concept allows for additional automation to complete production lines in the dedicated nursery.

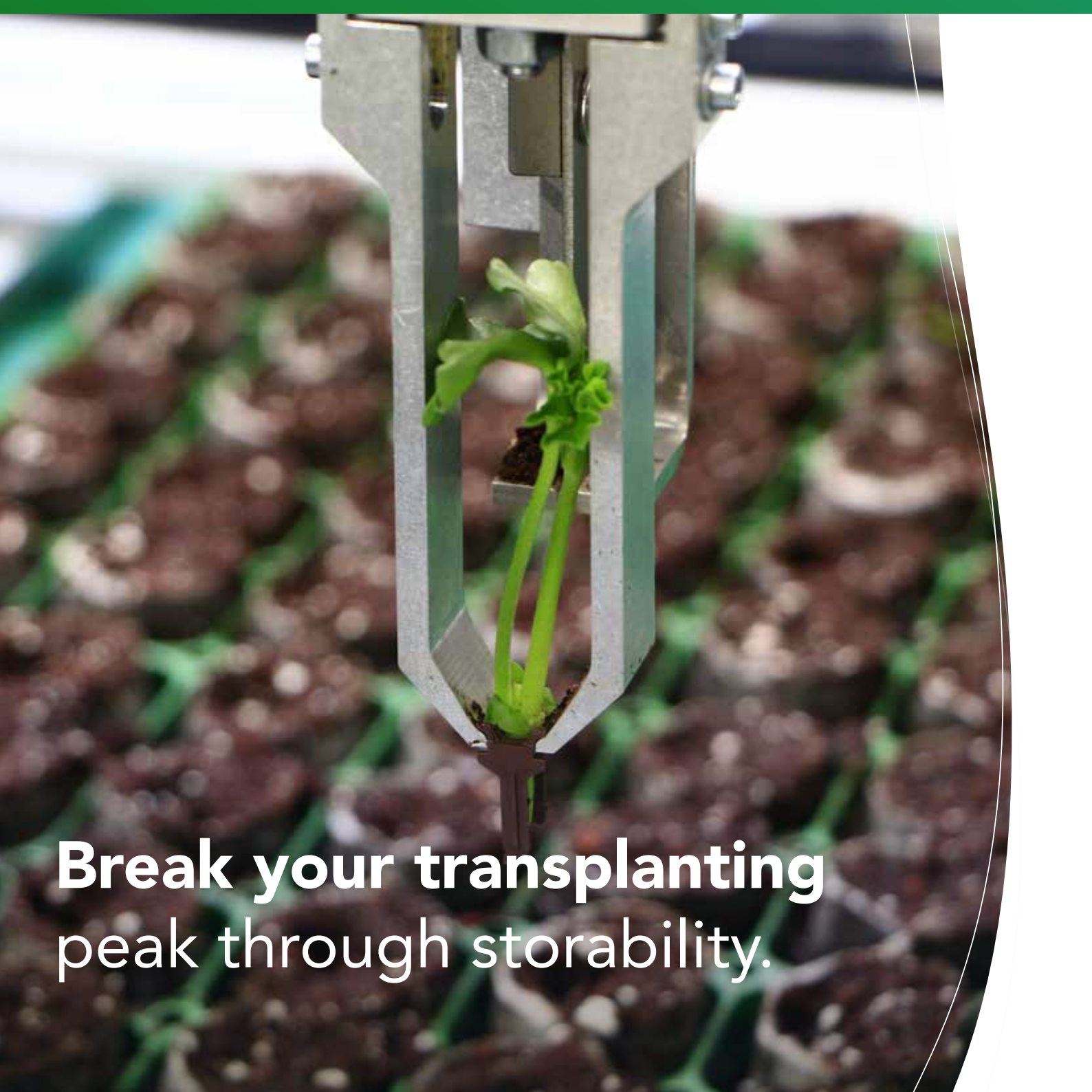
Our machines for cutting transplanting are perfect in combination with pot and tray fillers, internal transport systems in the greenhouse, and irrigation systems to complete the growing process.

Additional automation with AutoStix®:

- ✓ Pot or tray fillers
- ✓ Cutting transplanters (AutoStix®)
- ✓ Internal transport systems
- ✓ Irrigation beams







**Break your transplanting
peak through storability.**

Quality & process advantages

Quality

Using AutoStix® provides you with an optimal uniformity of your product. Each and every plant is being planted at the exact same depth, which enhances the uniform growth of your cuttings.

Process

AutoStix® provides many advantages besides automation. The system provides storability of the plants over a specific period of time. Storage of the plants may differ for every operating party. This also depends on the variety of cuttings. The ability to store cuttings helps to break the harvesting peak at the motherstock farm, or to break the transplanting peaks at the grower.

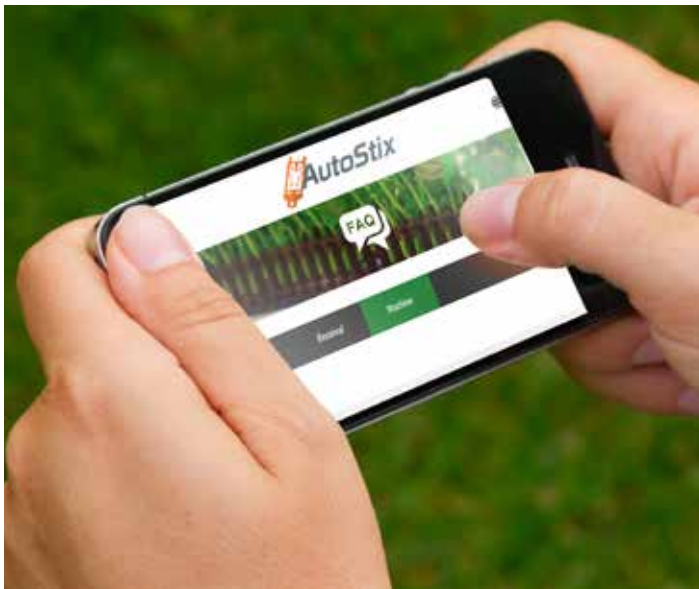


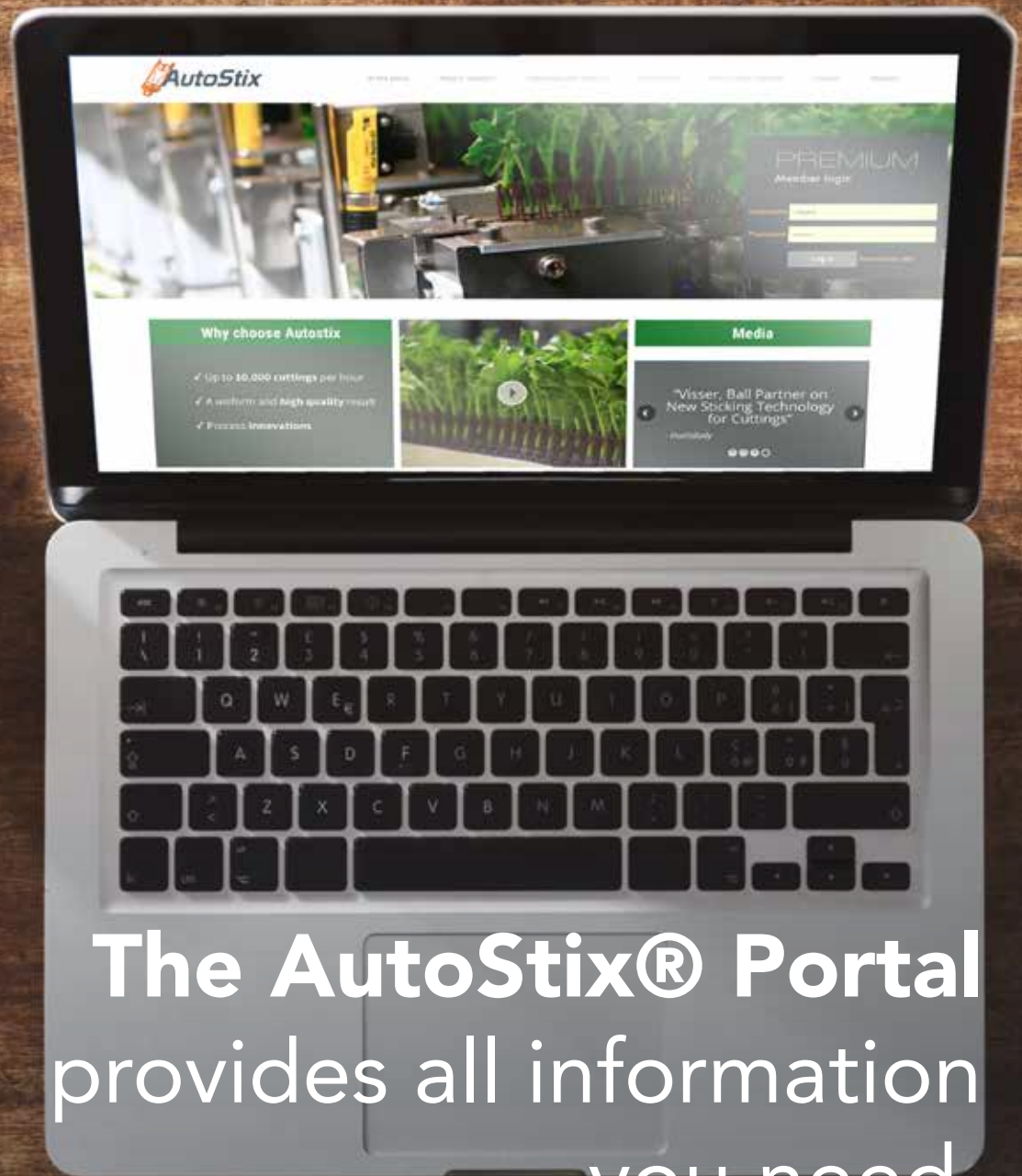
PLANT TECHNOLOGY

AutoStix Portal

AutoStix® provides many different advantages for the grower: a better consistency and uniformity with shipped cuttings, easier and more reliable counting, automatic transplanting, and the option for buffering in the peak seasons. Machine owners and AutoStix® harvesting farms can access additional information and benefits regarding the technology in a unique portal: the AutoStix® Portal.

Apart from growers' testimonials the AutoStix® Portal provides you with information about the working of the open source system and participating suppliers. Moreover, the portal grants you access to the main advantages of AutoStix® to help you become even more successful with AutoStix®.





The AutoStix® Portal
provides all information
you need.

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