



Growcoon

Smarter propagation starts here

Engineered for flexibility, built for automation –
adapt Growcoon to any crop, size or system.



1913

we make it grow

One plug. Endless possibilities.

Designed for your crop

Growcoon is a biodegradable propagation plug with a stable but flexible open net structure. When combined with high-quality propagation substrates, it forms a robust root ball that promotes healthy development. Its open design ensures optimal oxygen exchange, stimulating vigorous and uniform root growth.

Built for your system

Growcoon integrates seamlessly into all types of propagation methods:

- Sowing
- Rooting of cuttings
- Growing-on from tissue culture
- Vertical farming
- Hydroponics

It supports shorter cultivation cycles and promotes consistent, high-quality plant growth.

Fit for your tray size

Growcoon is available in a wide range of standard sizes to fit all common tray types and propagation systems. Do you need something more specific? Customised sizes can be produced on request to perfectly match your operation.

Growcoon and substrates: supporting your growth

Growcoon works effectively with loosely filled propagation substrates. For best performance, Klasmann-Deilmann offers specially developed growing media perfectly suited to the Growcoon system – ensuring healthy and fast plant growth.



More about perfect propagation substrates



Certificates on biodegradability

Growcoon complies with the standards for organic growing and therefore does not contain ingredients from genetically modified organisms.

The Growcoon Regular Type is listed by FiBL and the Dutch SKAL for organic growing and is as well on the European input list. Growcoon is also listed by Ecocert for France as compliant with the current regulation (EU) 2018/848 for organic growing.

Approved for organic growing

- Based on fully biodegradable polymers
- No harmful residues
- No pollution of crops with harmful substances
- Safe for plants, humans and environment
- SKAL listed; complies with EU regulation



Growcoon provides multiple benefits

Main advantages

- Shorter propagation cycles
- Vigorous, robust young plants
- Higher root ball stability
- Lower failure rates, especially for sensitive seedlings

Biodegradability

- 100% biodegradable
- Four types with different biodegradation rates
- Completely biological process
- Environmentally friendly
- Compostable

Cultivation

- Compact and solid root ball
- Fast root development
- Proliferation of hairy roots
- Easier sticking of cuttings, due to loosely filled substrate
- Free choice of optimal substrates depending on plant requirements

Handling

- Fits perfectly into the trays - we make Growcoons in custom sizes
- Easy to remove from the tray
- Easy selection and re-gapping for a quick dispatching process
- Easy transplanting - no damage of the root ball and no loss of substrate
- Clean handling: No contamination of trays or cultivation tables with substrate during the production process

Perfect microclimate

- Designed to fit perfectly into the tray cells
- The conical shape allows an extra oxygen buffer between Growcoon and tray cell
- Open net structure
- Use of loosely filled substrate



Watch out the video:

The biodegradation of the Growcoon

The Growcoon consists of a unique, specially developed material that is fully biodegradable. When in contact with substrate, the Growcoon is biodegraded by microorganisms, such as bacteria and fungi. During this degradation process the Growcoon is converted into water and CO₂.

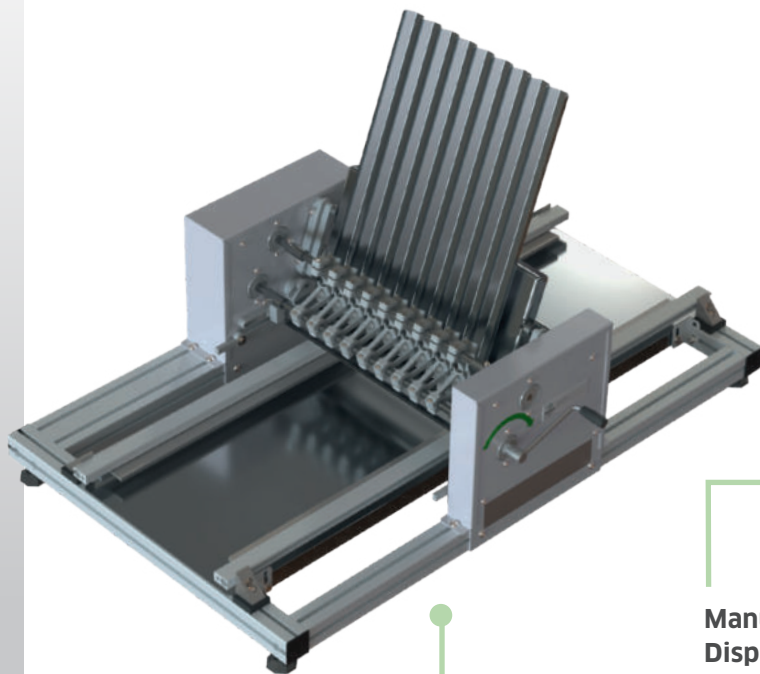
Automation that adapts to you

From manual to fully automatic – streamline your process with Growcoon dispensers

To maximise efficiency, we offer dispensers developed specifically for Growcoon use. Positioned upstream from the tray-filling machine, the dispenser automatically places Growcoons into trays with precision and speed. For smaller-scale setups, manual operation is also possible – giving you full flexibility in how you scale your process. Growcoons are delivered neatly stacked in compact boxes. The dispenser de-stacks them and places a full row across the tray width – seamlessly integrating into your production line.

Manual Growcoon Dispensers – Simple, effective, and built for efficiency

The manual Growcoon dispensers are smart and cost-effective tools for smaller-scale operations or those transitioning towards automation. Operated manually, these semi-automatic dispensers enable users to significantly increase their tray-filling speed. By simply turning the hand winch, a row of Growcoons is placed cleanly into the tray, helping to double production speed compared to manual placement. It's a straightforward and effective solution that reduces labour intensity while enhancing overall productivity – easy to operate, easy to implement.



Manual Growcoon Dispenser Basic

- Easy to operate
- 5000 Growcoons per hour
- No electricity needed
- 2-year warrantee



Manual Growcoon Dispenser Advanced

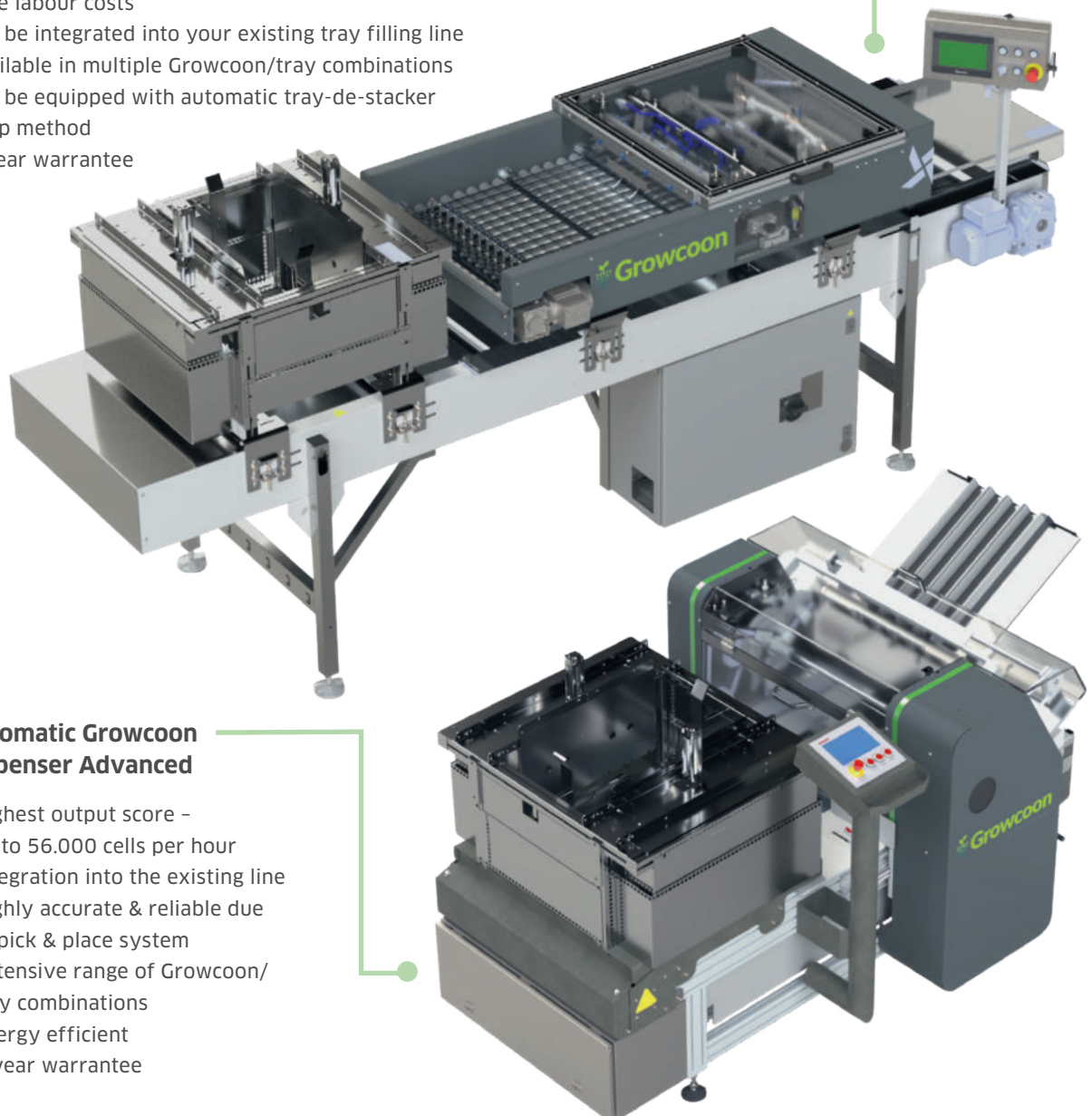
- Easy to operate
- 7500 Growcoons per hour
- Highly accurate due to pick & place system
- Available in multiple Growcoon/tray combinations
- Operator independent
- No electricity needed
- 2-year warrantee

Automatic Growcoon Dispensers – Full automation for large-scale success

For high-volume growers, our fully automatic Growcoon dispensers offer a powerful boost in speed and efficiency. These stand-alone machines are designed to automatically drop Growcoons into tray holes with exceptional accuracy. The ideal choice for operations producing more than two million plants per year, where time and labour savings can have a significant impact. By integrating a dispenser into your propagation line, you unlock the full potential of automated growing – accelerating output while maintaining consistency and quality across every tray.

- Fully automated process for large volumes
- 35000 Growcoons per hour
- Easy operation
- Save labour costs
- Can be integrated into your existing tray filling line
- Available in multiple Growcoon/tray combinations
- Can be equipped with automatic tray-de-stacker
- Drop method
- 2-year warrantee

Automatic Growcoon Dispenser Basic



Automatic Growcoon Dispenser Advanced

- Highest output score – up to 56.000 cells per hour
- Integration into the existing line
- Highly accurate & reliable due to pick & place system
- Extensive range of Growcoon/tray combinations
- Energy efficient
- 2-year warrantee

DISCLAIMER

The statements made in this brochure are based on our present knowledge and do not claim to be complete or fully accurate. We reserve the right to make changes. We do not offer any guarantee or accept any liability for individual cases, as all specific circumstances depend on the individual location, storage and growing conditions, which are beyond the reach of our knowledge and influence. The information given must not be considered as a substitute for individual advice. It is neither binding nor does it form part of a contract for the provision of advice or information.

Growcoon is a registered trademark of Maan Biobased Products B.V., developed and produced by Maan Biobased Products B.V. in the Netherlands. Klasmann-Deilmann holds the global distribution rights for Growcoon. Since Growcoon is a biodegradable product, it is absolutely necessary to store the product in a dry and clean place, protected from direct sunlight. Temperatures above 40 degrees (104 degrees Fahrenheit) must be avoided. For more information, please visit www.growcoon.com.



Want to try Growcoon?

Visit our website, scan the QR code for a free trial kit, or email us at info@growcoon.com



we make it grow

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