

Case Study: Saeheungnong Nursery (South Korea)

About the Growcoon

Growcoon is a biodegradable propagation plug for cell trays. The open net structure of Growcoon ensures a quick root growth and optimal young plant development. Combined with a perfect fit in trays, Growcoon creates an optimal microclimate and oxygen supply for the roots. The stable net structure allows early transplanting without harming the roots.

Growcoon can be placed into propagation trays manually or automatically, prior to loosely filling the substrate on regular filling lines. The unique shape of the Growcoon allows it to use any crop specific substrate. After transplanting the plant continues healthy root development while Growcoon degrades slowly into just water and CO₂.

Growcoon & root development

Due to the open net structure of Growcoon and the loosely filled substrate, the roots spread fast and uniformly within the whole root zone. Growcoon allows space between root ball and tray for an extra oxygen buffer. These combined benefits stimulate the development of solid and compact root balls.



What Kang Hyung-soo says about the Growcoon

“We use Growcoon because it increases the transplant success rate. Cucumber crops are known to be sensitive to root damage. The net structure of Growcoon ensures that the substrate is kept together, and the roots stay protected. We can handle and transplant sooner and easier. Seedlings can be easily removed from the tray without harming the roots.”

“Growcoon shows an excellent performance in raising young cucumbers. We have a better vitality of the roots. Due to a small gap between Growcoon and the tray it offers better aeration in the rootzone. Roots are spread more evenly through the plug. It increases the reliability of our cucumber seedlings.”



Kang Hyung-soo,
CEO of Saeheungnong Plug Nursery

“People around me wondered why I use Growcoon. For me it was an innovation and a good investment. As time went by it showed its true value. When seedlings are sensitive, and cultivation days in the nursery are short Growcoon increases the transplant success rate of our seedlings.”

Growcoon & efficiency

Efficiency is important for every grower. Growcoon makes it possible to work more efficient. The Growcoons are stacked in a compact way. As a result, the cost of transport become very economical. With the use of the Growcoon Dispenser, all Growcoons will automatically be placed in trays. Moreover, transplanting becomes easier. During automation, the root ball remains intact, and the root zone is protected from damage. Growcoon even makes it possible to transplant at an earlier stage.



Growcoon & biodegradation

The Growcoon possesses unique properties that ensure the plug is completely biodegradable. When in contact with substrate, the Growcoon is biologically decomposed by micro-organisms such as fungi and bacteria. The Growcoon is gradually converted to water and CO₂. This leaves no toxic residues. This degradation process has been fully analysed by TÜV Austria, which has led to the obtaining of the OK Biodegradable Soil and OK Industrial Compost certificate.



Advantages of Growcoon

- + Shorter cultivation cycle
- + Increased efficiency
- + Biodegradable



About Saeheungnong Plug Nursery

“Since our start in 2002 Saeheungnong Plug Nursery became a well-respected grower. With a production of more than 5 million young plants per year our nursery is one of the leading vegetable seedling growers in South Korea. Saeheungnong Plug Nursery specialises in vegetable seedlings such as peppers, tomatoes, cucumbers and eggplants.”

Kang Hyung-soo,
CEO of Saeheungnong Plug Nursery

