



# GrowPact

*Good start, great finish!*



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# About GrowPact

Successful growing for everyone

**GrowPact aims to provide worldwide access to good quality young plants before the year of 2050!**

## Why GrowPact?

Everyone deserves access to an abundant harvest. The increase of the world population, results in an increase of demand for (quality) food. We believe that accessibility will create possibilities. GrowPact helps to improve the cultivation of young plants in a *basic* and *easy* way.

**The result:** *more food with better quality!*



*A good start, is a great finish!*



## How?

*Creating access to good quality young plants, worldwide!*

The cultivation of young plants is the most important phase of the cultivation process of any plant. If anything goes wrong during this phase, the young plants will constantly encounter problems during the entire process. In the end, this will result in lesser yields.

## Let's make a change!

GrowPact helps to achieve better yields by making proven Dutch technology & knowledge accessible for farmers worldwide. GrowPact delivers all the necessary tools and knowledge you need during the cultivation process of young plants. All the smart technologies that exist in the high-tech machines we produce, are now available in fully manual machines!





# Your good start!

The green toolbox for healthy vegetables!

We supply the full package to start or improve the cultivation of young plants all over the world. In collaboration with our partners we can also provide the tools and knowledge for the process up to an abundant harvest.

The Green Toolbox



## Greenhouse & Storage



A controlled environment to protect your young plants is highly important for a great finish. Growpact supplies a full concept standard greenhouse, a germination chamber and a storage facility. Everything you need to start & protect your operation.

## Watering Essentials



Efficient watering is highly important for a uniform crop and long term sustainability. Therefore Growpact supplies everything you need to water the product with clean water and smart, efficient technology.

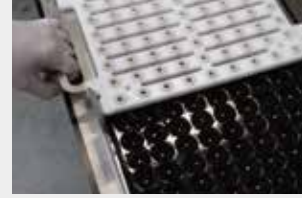
## Tools



Growpact supplies everything you need to start your project, but also to operate and sustain it. Working gloves, containers, lubricant, you name it, it is in the Toolbox!



## Seeding Essentials



Seeding efficiently with a uniform result, requires specialized knowledge. All knowledge is embedded in the Growpact Seeding Line and it's essentials. Knowledge and Smart Technology, available to everyone!



## Growing Materials



A great result has everything to do with quality input. Growpact selected the best seeds, substrate and crop protection. You can start right away with the best of the best!



## Academy



Buying a car is one thing, getting your driver's license is just as important! Therefore Growpact offers both supervision to start up your project and a helpdesk availability to sustain it! The best Dutch growers will supply you with all education you need.







## Why GrowPact

*All you need is GrowPact!*

### We offer Smart-Tech!

GrowPact chooses smart technologies at the lowest possible price. By simplifying Dutch technology, we can offer a 'basic total solution' to meet the quality requirements and gain the efficiency, necessary to improve the cultivation of young plants.



### Together we grow!

Finding a solution for every situation is a challenge! We have to collaborate with local partners to make sure that we will succeed in the mission we have. Starting or improving a young plant nursery needs support to translate the Dutch knowledge to the farmers. Local partners will have a crucial role in this translation.

GrowPact will supply the tools and knowledge to the local partners, who in their turn can help the farmers get acquainted with the new methods and techniques.

**We offer Turnkey projects!**



### Smart-Tech is:

- ✓ Low investment
- ✓ Fully manual
- ✓ Minimal amount electricity needed
- ✓ Intergration of proven technology



*Translating Dutch horticultural knowledge to everyone in the world!*





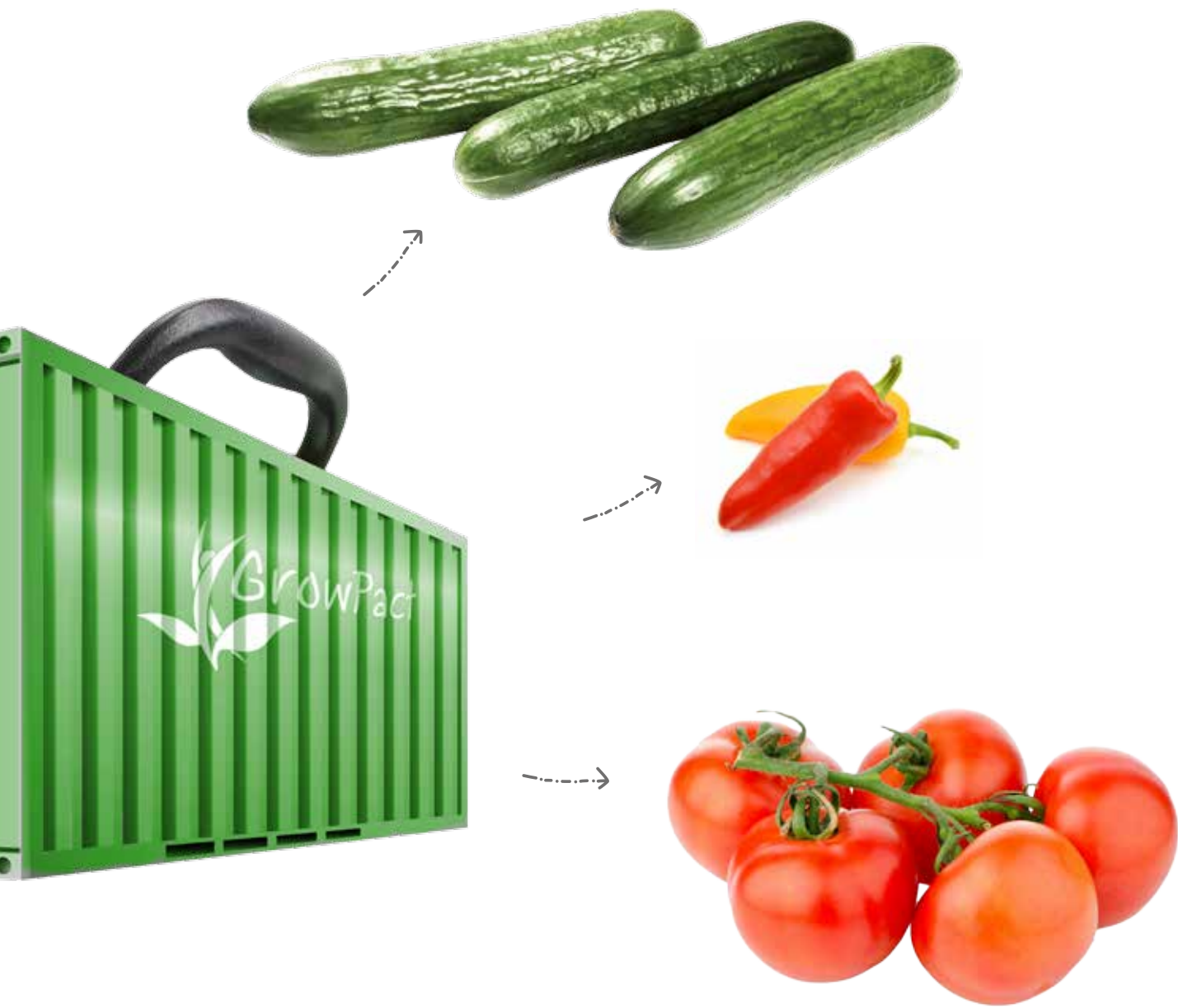


# Assemble your Growpackage

Choose what to grow!







*The solution to start your own small or medium-sized vegetable production.*



# Seeding essentials

Choose your supplies!

### Cultivation pot:

For optimal growing conditions for the young plant and easy transplanting.



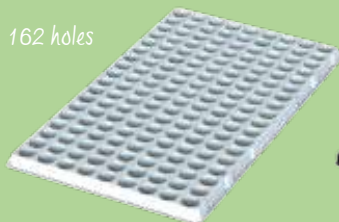
28/18



### Trays

For optimal efficiency and optimal growing circumstances!

162 holes



L488 x B288 x H36

50 holes



L488 x B288 x H47,1

28 holes



L488 x B288 x H67

18 holes



L488 x B288 x H67



### Grow box

For optimal efficiency and optimal growing circumstances!



for the 162/50 tray

L500 x B300 x H130



for the 28/18 tray

L500 x B300 x H200





# Smart Seeding technology

## Seeding line & transplanting line

- ✓ High production capacity
- ✓ No Electricity required
- ✓ The seeding/transplanting line has been made for every tray (162/50/28/18 and 8)
- ✓ Seeding possibilities and transplanting possibilities
- ✓ Easy to use and labour-intensive (max 6 people)



### Cassette + plates

- ✓ Easy stock overview
- ✓ Seeding of the 162/50/28 and 18 tray is possible
- ✓ Seeding can take place on a remote location
- ✓ Easy to use!
- ✓ The use of a compressor is sufficient



### Germination area

- ✓ Constant temperature and humidity
- ✓ Easy to use
- ✓ Trays can easily be retracted
- ✓ Can be used for the 162/50/28 and 18 cavity tray

### Hand seeder with the cassette system







# Transplanting

*Start the transplanting process!*

The transplanting process is really important for any plant. With GrowPact you can easily transplant your plants into bigger pots. Thanks to our manual tray popper, transplanting was never this easy!

## **Benefits**

- ✓ Efficient transplanting
- ✓ Manual and professional
- ✓ High capacity



*Knowledge and Smart Technology,  
available for everyone.*







The young plants are now

**FINISHED**





# Watering

Easy uniform watering!

Efficient watering is highly important for a uniform crops. The GrowPact watering boom has been designed to provide uniform watering results and is easy to operate.

## Benefits

- ✓ Efficient watering
- ✓ Flexible and fully manual
- ✓ User friendly



Watering boom

- ✓ Flexible to use
- ✓ Controlled by a rail system
- ✓ Manual control with uniform irrigation
- ✓ Possibility to add nutrients

Water pump



Hose



Dosatron



Water silo



# Greenhouse & Storage

Everything in just one container!

Together with our partners we developed a special greenhouse and storage facility. Depending on your requirements we have different options for the selection of your greenhouse. The greenhouse is sustainable, solid and conform to Dutch standards. The GrowPact container is both your transport and your storage facility. The storage system contains a special climate control system to optimize the germination process.

## Container

- ✓ 2 x 40 ft containers
- ✓ Construction above the container
- ✓ Air conditioning / climate control
- ✓ Solar energy / aggregate
- ✓ Storage / office



## Greenhouse

20 m x 40 m

20 m x 80 m

## Standard

Insectscreen  
Lock  
2 doors

## Options:

Double or single foil  
Ridge ventilation

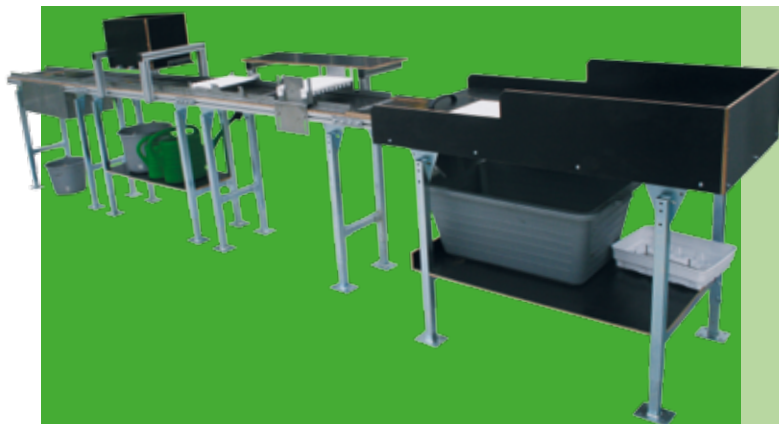






# Seeding lines

Smart solutions



*The Growpact manual Seeding Line is the most basic seeding solution Growpact has to offer. The only connection needed is a water supply, no electricity or pressurized air is needed. For easy shipment, the machines are made to fit on a pallet.*

## Growpact manual Seeding Line

Dimensions L x W x H:	5160 x 700 x 1750 (± 100) mm
Capacity:	50 - 70 trays per hour
Air consumption:	-
Total power:	-
Connection(s):	GEKA-hose fitting for water supply
Tray size:	Visser Supplies trays 162/50/28/18 holes
Options:	Plates for different tray sizes
Features:	Fully manual

**Integration of Smart technologies**  
**Flexible for seeding and transplanting**  
**Modular seeding line, consisting of 4 modules.**  
**The 4 modules fit on 2 pallets.**

## Growpact semi-automatic Seeding Line

Dimensions L x W x H:	5160 x 700 x 1750 (± 100) mm
Capacity:	80 - 100 trays per hour
Air consumption:	11 m <sup>3</sup> /hour
Total power:	0.37 kW
Connection(s):	GEKA hose fitting for water supply 5-pin power plug (IEC 60309 - red plug type) (400V AC, 63A, 50 Hz)
Tray size:	Visser Supplies trays 28/18 holes
Options:	Nozzle heads 0,25/0,3/0,4/0,5/0,6/0,7
Features:	Semi-automatic

**Integration of Smart technologies**  
**Fits to small scale Viscon hydroponics project**



*The semi-automatic Seeding line is a more advanced version of the manual seeding line. The seeding process is made easier by a vacuum seeding mechanism, which is integrated in the seeding line. This seeding line requires a water and an electricity supply to operate. The integration of the vacuum seeding mechanism raises the production of the seeding line by 20-30 trays per hour.*







# Hand Seeder & Watering

Smart solutions



*The Growpact Hand Seeder is a single module, containing the same vacuum seeding mechanism as used in the semi-automatic seeding line. The vacuum seeding mechanism is mounted on a stainless steel table, ensuring a clean, stainless working space.*

## Growpact Hand Seeder

<b>Dimensions L x W x H:</b>	1500 x 600 x 1200 (± 50) mm
<b>Capacity:</b>	100 - 120 plates per hour
<b>Air consumption:</b>	11 m <sup>3</sup> /hour
<b>Total power:</b>	0.37 kW
<b>Connection(s):</b>	5-pin power plug (IEC 60309 – red plug type) (380 V AC, 63 A, 50 Hz)
<b>Tray size:</b>	Visser Supplies trays 162 cavity seeding line
<b>Options:</b>	Plates fit on Growpact manual seeding line
<b>Nozzle heads:</b>	0,25/0,3/0,4/0,5/0,6/0,7
<b>Features:</b>	Semi-automatic

### Integration of Smart technologies

## Growpact Watering Beam

<b>Dimensions L x W x H:</b>	1080 x 9400 x 1310 (± 50) mm
<b>Air consumption:</b>	-
<b>Total power:</b>	-
<b>Connection(s):</b>	GEKA hose fitting for water supply
<b>Options:</b>	Different nozzles Greater/smaller widths possible on request

### Features:

Integration of Smart technologies  
Separate pressure gauge left/right beam  
Ability to fold and turn to fit through doorways  
Adjustable beam height  
Adjustable handlebar height



*The Growpact Watering Beam is used to evenly irrigate the full width of the greenhouse in one go. The watering Beam runs on a narrow rail through the centre of the greenhouse, spreading out to a total width of max. 9.4 metres. The water flow can be reduced mechanically. The left and right side of the beam can be controlled separately, where the flow can be determined by checking the pressure gauges at the left and right side of the handlebar.*





## Academy

*Education as foundation*

Access to the right knowledge is highly important to make your business a success! GrowPact provides you the right knowledge to start your own young plant nursery. Supervision and an online helpdesk are included.



## Growing Materials

*All you need to grow*



Good quality of growing materials is fundamental for a good result. GrowPact will provide you the best growing materials that you need for your cultivation.



## Tools

*The essence of your growth*



During the cultivation process your care is highly essential. GrowPact provides all the tools you need to sustain the growth!







# Why invest in GrowPact

The basic solution for all farmers worldwide!

## We offer:

- ✓ Social return - Employment
- ✓ Economic return - Regional development
- ✓ Financial return - Profit

*That's our return on investment!*



*Investing in communities!*



## The opportunities:

Thanks to good quality young plants you can now offer uniform and quality crops, which means you can be supplier to:

- ✓ Local markets
- ✓ Retail markets
- ✓ Export markets





**Growpact creates opportunities through providing:**

- ✓ Specialized education & knowledge
- ✓ Integration of proven technology
- ✓ Tools that enhance success
- ✓ A proven successful business model

*Friend of GrowPact*

