Logistic solutions in the greenhouse

*Crop Treatment, Harvesting, Transport, Pest and Disease control*

- High quality materials
- Cost and labour saving
- Safe and ergonomic crop management
- A solution for each situation
With his smooth, modern looks, the BENOMIC distinguishes itself directly in our line of pipe rail trolleys. The trolley is completely redesigned and improved. The BENOMIC can be used for nursing and harvesting the crop and can reach a height up to 300 cm.

Smooth surface
With the water-resistant, smooth surface the BENOMIC can be cleaned easily. This will increase the hygiene level in your greenhouse and reduce virus- and other infections. No bolts or edges, holes or other obstacles where dirt can and will stick. Also the plants will benefit from the smooth surface and crop damage will reduce.

Scissor
The speed of the lift have been improved. Compared to the BRW 185 the lift is almost twice as fast, from 0,11 to 0,25 m. per second. Also the maximum lift capacity has increased from 250 to 300 kg.

Simplicity / Maintenance
After lifting the top cover, all service parts are easily accessible. This will simplify the maintenance works and in the end will reduce costs.

Speed, power and controls
We have replaced the 0,18 kW motor by a 0,37 kW electrical motor, twice as strong! By doing so we have increased the driving speed from 40 m. to 60 m. per minute. Long lasting, clearly arranged switches for easy and reliable operation.

Platform height
Due to its unique design the platform is easily accessible in its lowest position.

Motor control
The BENOMIC is equipped with a very reliable motor management system controlling the driving speed from slow to fast by means of a simple potentiometer. This system ensures enough power when moving at very low speeds.

Elevator
With one push on the button the BENOMIC lift itself up. This makes it possible to maneuver the trolley sideways from path to path.

Standard options
12/24V power socket and Toolbox

This product is coated with an environmentally friendly powder and come with an original CE- certification. Designed for 55 cm center to center pipe rail system with 51 mm heating pipes. Other specifications on request.

The rise of the BENOMIC doesn’t mean that the regular pipe rail trolleys distinguish. For every nursery a different type of trolley is required. That’s the reason the BRW 150, 170 & 185 are still available.
Technical data

<table>
<thead>
<tr>
<th></th>
<th>Pipe rail trolley 150</th>
<th>Pipe rail trolley 170</th>
<th>Pipe rail trolley 185</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>150cm</td>
<td>170cm</td>
<td>185cm</td>
</tr>
<tr>
<td>Width</td>
<td>42cm</td>
<td>52cm</td>
<td>52cm</td>
</tr>
<tr>
<td>Height with single scissor</td>
<td>150cm</td>
<td>170cm</td>
<td>170cm</td>
</tr>
<tr>
<td>Height with double scissor</td>
<td>X</td>
<td>270cm</td>
<td>290cm</td>
</tr>
<tr>
<td>Lifting wheels</td>
<td>Manual</td>
<td>Manual / hydraulic</td>
<td>Hydraulic</td>
</tr>
<tr>
<td>Tube diameter</td>
<td>51mm</td>
<td>51mm</td>
<td>51mm</td>
</tr>
<tr>
<td>Battery</td>
<td>24/115aH</td>
<td>24V/110aH</td>
<td>24V/110aH</td>
</tr>
<tr>
<td>Power</td>
<td>0,37kW</td>
<td>0,18kW</td>
<td>0,18kW</td>
</tr>
</tbody>
</table>

Easykit

The Benomic EasyKit is especially designed for all these daily jobs where an advanced hydraulic pipe rail trolley is not strictly necessary. Everything that’s not directly necessary for the proper working of a pipe rail trolley you won’t find on this innovative budget model.

Because of the smart design and since there is no hydraulic system on board we reduced the possibility of technical problems. Maintenance is quite simple and with an optional service- or spare part kit can be handled within your own company.

As a result of the innovative, smart design and its simplicity, the price of the trolley is relatively low. For this reason it’s a good alternative for peak times when you are in need of some extra trolleys.

BENOMIC AGV

“Automatically Guided Vehicle”

Advantages of the Benomic AGV harvesting wagon with hydraulic scissor:

- Improved working conditions
- Labour-saving
- Easy to work at heights without having to climb or stretch
- Easy to control
- Easy to move thanks to the hydraulic lifting system
- Optional integrated trailer platform
- Very long life-cycle

Harvesting trolleys

For every crop different kind of harvesting trolley is required. Brinkman delivers all kind of harvesting trolleys in several sizes, measurements and features.

Easy Track

Multifunctional harvest trolley with 4 air tires. The Easy Track is designed with a dual control mechanism which ensures that both the front and rear wheels can be independently controlled. As a result, he has both forward and backward the same steering. The speed of the Easy Track can be infinitely adjusted with the potentiometer, which is mounted on the side of the chassis with the drive control, battery level indicator and the charging socket. The plateau is a plate completely covered, here are the two traction batteries.
**BENOMIC Leaf picking cart**

With the new Benomic Leaf Picking Cart Brinkman offers you the best and efficient solution for tomato leaf picking in your greenhouse. The Benomic Leaf Picker is easy to handle and very maneuverable on the concrete path. You can work on various height between 5 and 40 cm above the pipes. The controls are simple with only switches for speed, direction and an emergency switch on the dashboard. All this makes the Benomic Leaf Picker the most easy to use cart on the market.

**Robocar**

The Robocar is a fully automated electric tractor for internal transportation. The Robocar can be used both manually and automatically. In the automatic mode the Robocar will find its own way driving on an induction wire, constructed in the concrete floor.

**Advantages:**
- Labor savings due to unmanned, fully automated transportation
- Very reliable and minimal maintenance
- Communicates with every post-harvest processing system
- Operates almost soundless
- Infinitely / stepless adjustable speed (0-4 km/h)
- Optical pressure and ultrasonic sensors for undesirable obstacles
- Makes logistic processing system effective, simple and convenient

The Robocar can be used in almost every crop. Have a look at a selection of the projects we’ve installed. To watch the Robocar in practice, click on the picture and have a look at the different YouTube movies, made in a Cucumber-, a Gerbera-, a Pepper- and a Tomato crop.

**Meto automatic spraying trolley**

The Meto automatic spraying trolley is intended for use with automatic crop spraying. This means you do not have to present during spraying and this in turn creates better working conditions. The Meto automatic spraying trolley can produce labour savings, as it can spray a whole greenhouse automatically.

The computer controlled Meto is easily operated. The control panel has touch controls, is compact and easy to read. You can enter user requirements by using a dialogue programming feature to which the computer requests answers.

**Meto Transport trolley**

The Meto Transport trolley is meant for moving the Meto spraying robot from path to path. When using the Meto Transport trolley in combination with the Meto spraying robot you do not have to be present in the greenhouse while spraying. This means that the crop spraying process is fully automated.

The computer controlled Meto is easily operated. The control panel, similar to that of the Meto spraying robot, has waterproof touch controls, is compact and easy to read. You can enter user requirements by using a dialogue programming feature to which the computer requests answers. For example it is possible to program a “do not spray path”.

For more information about equipment for crop treatment, harvesting, transport or pest and disease control, please contact your Brinkman area manager or contact Royal Brinkman International +31 174 446 100 or visit www.brinkman.com