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Assortment 2019



*Hortilife*







For over 35 years we have been developing, producing and distributing (plastic) products for the cultivation of vegetables, softfruits and floriculture, as well as clientspecific custom-moulding items. We provide thousands of growers worldwide innovative solutions: from clips to substrate trays, and from ornamental pots to truss supports and gutters.

We are actively working on the world of tomorrow. Since 2001 we have designed and developed various products made from biodegradable and/or compostable material.

# Vegetable Cultivation

**Bato Plastics develops, produces and delivers products with which the grower ensures an efficient growth. High quality, practical use and excellent thoughtfull design are typical for our assortment. Please explore our extensive range of horticultural products.**

## **CLIPS, STRING TENSIONERS AND MORE**

Optimum support for your fruit cultivation and potted plants means better fruit quality and higher production. Bato Plastics offers a wide range of horticultural products, such as Clippers, Wire Tensioners, Tree Clasps, Truss Supports, Clip Rings and Orchid Pegs. In various sizes and colours. The cultivation products are also available in biodegradable and/or compostable material, so you can grow your fruits and plants in a sustainable manner.

Vegetable Cultivation





## CLIP

This Bato Clips make twisting in the plants unnecessary: the clip ensures optimal training of the crop and has a perfect closure. The growth of the plant is not hindered. In other words: higher production and better quality. Furthermore, the clip is simple and efficient in use.

15 / \*22 / 23 / 25 mm

**Tip:** Regular clipping onto twine with a thickness of 1,000 meter per kg gives the best result.



## CLIP

Clip 19 is a solid, strong clip with a rounded inside and outside. Therefore, it does not damage the crop or the fruit. Thanks to the self-centering closure, the clipper is easy and efficient to use. This clip is also available in biodegradable material.

This clip makes twisting in the plants unnecessary. The clip ensures optimal training of the crop and has a perfect closure. Therefore, the growth of the plant is not hindered. In other words: higher production and better quality.

19 mm

**Tip:** Regular clipping onto twine with a thickness of 1,000 meter per kg gives the best result

**BIO** also available in biodegradable material.

\* contains compostable material according to the European Standard EN 13432.



### **TRUSS SUPPORT SUPERFLEX**

The Bato Superflex Truss Support is an all-round support that offers firmness to the truss stem. This results in better quality fruit and higher production. Most importantly the Superflex Truss Support bends with the growth of the plant.

5,5 mm 



### **TRUSS SUPPORT 1000**

The Bato Truss Support 1000 6 mm is placed around the truss stem and gives the truss stem firmness. The Bato Truss Support 1000 6 mm is a flexible truss support for thick stems and bends as the plant grows. This truss support can be introduced late in the cultivation.

6 mm



### **TRUSS SUPPORT 1002**

The Bato Truss Support 1002 is a flexible, short truss support for long, thicker truss stems. The truss support is placed around the truss stem and gives the truss stem firmness. This truss support must be introduced at an early stage and bends as the plant grows.

6 mm



## TRUSS SUPPORT HMO

The Bato HMO Truss Support can be applied early in the growing process. Due to the open construction, the plant has less covered surface area. The truss support is placed around the truss stem and gives the truss stem firmness.

5,5 / \*6 mm 



## TRUSS SUPPORT U-MODEL FLEX

The Bato U-Model Flex bends as the plant grows. The truss support gives the truss stem firmness. Place the truss support around the stem of the truss. The notches on the front of the support makes it very easy to attach to young trusses.

6 mm



## TRUSS SUPPORT U-MODEL

The Bato U-Model Trust Support bends as the plant grows. The truss support gives the truss stem firmness. This results in better quality fruit and higher production.

The truss support is placed around the stem of the truss.

6 mm

**BIO**  also available in biodegradable material.

\* contains compostable material according to the European Standard EN 13432.





## TRUSS SUPPORT HMO ROUND

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The Bato Truss Support HMO Round 6.0 mm is our latest introduction and stands out because of its smooth round finish. Due to its ergonomic design, the support rests well in the hand and damage to tomatoes is prevented. You can introduce the HMO Round 6.0 mm Truss Support early in the cultivation process. Because of the open construction, the plant has less covered surface, so more air and light can get to the truss stem. The truss support is placed around the truss stem, reinforcing it, reducing the chance of truss damage, therefore resulting in higher production and better fruit quality.

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6 mm

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## TRUSS SUPPORT HOOK

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The Bato Truss Support Hook Model supports tomato trusses. The truss support is placed around the truss stem and gives the truss stem firmness, and helps prevent kinks. The truss support is attached to the stem using the hooks and supports the bottom of the stem.

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## STEMHOOK

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The Bato Stem Hook is essential in autumn cultivation. The stems are shorter in that period. Of course, Bato Stem Hooks are also perfect to use in other periods.

The construction of the hooks ensures an optimal grip on the twine: pull the fish-bone hooks behind the twine, and then place the other side behind the first or second tomato.

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10 / 12 cm

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## COURGETTE HOOK

With a Bato Courgette Hook, you can hook a vine to the twine. This ensures that the vine does not grow away from the wire. The Courgette Hook is 28 mm in diameter and the hand grip makes it easy to attach.

**28 mm**



## SIDE SHOOT HOOK

The Bato Side Shoot Hook prevents a shoot from breaking off the main stem: the shoot is hooked onto the stem. The Bato Side Shoot Hook is available in a length of 12 cm.

**12 cm**



## TOP HOOK

The Bato Top Hook ensures smooth conduction of tendrils and stems along the crop wire. The hook prevents pinching and breaking of tendrils. The hook is easy to bend open thanks to the handy tab. Each top hook can conduct several tendrils or stems.

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## BOBBIN

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The Bato Bobbin lets you lower the plant with a single movement of the hand, without lifting the plant. To do this, hang the bobbin on the crop wire. The sturdy twine gives reliable plant training. At the end of the cultivation, simply remove the twine from the bobbin. Bobbins come with twine in the desired length. First class, white, synthetic twine is used. The standard lengths are between 4 and 13 meters of twine (1,000 m/kg).

Bobbins can be supplied with up to 19 meters of twine (1,500 m/kg) on request.

Bato Bobbins are delivered loose in a box and cannot hook into each other. The Bato Bobbin is available in two versions: with and without a fixing cam. The cam provides a better fixing to the crop wire. Bobbins can also be supplied without twine, so that you can attach your own twine.



## QUICK HOOK & SQUEEZE HOOK

The Bato 18 mm Quick Hook and 19 mm Squeeze Hook prevent the stem growing off the wire. You can attach them between clipping. You also save costs, for example, by using our Quick Hook or Squeeze Hook around two clippers.

18 / 19 mm



## STEM SUPPORT

The Bato 16 cm Stem Support prevents tearing of the plants in grafted and topped tomato plants. This means your crop has less chance of diseases such as Fusarium and Botrytis.

When the plant is lowered, there is tension at the point where the two stems are attached to the main stem. Because the plant goes through a rotational force, a tear may occur where these stems are connected to the main stem. You apply the stem support before the plant is lowered for the first time.

16 mm 

**BIO**  also available in biodegradable material.



## STRING TENSIONER <sup>✓</sup>

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The Bato String Tensioner prevents damage to plants and fruits from harvest containers: you no longer have to worry about sagging or drooping plants. So, compared to traditional knots, the string tensioner is an excellent time-saving tool.

**The Bato String Tensioner has the following benefits:**

- *no more damage to plants and fruits from harvest containers*
  - *no more problems with sagging wires or hanging plants*
  - *nice tight plant rows*
  - *completely biodegradable material*
  - *faster and easier to attach compared to re-knotting*
  - *can be attached at eye level, making work easily manageable*
  - *can be attached from the ground, the use of harvesting trolleys is not necessary*
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**BIO<sup>✓</sup>** only available in biodegradable material.



## GUTTER HOSE HOOKS

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The Bato Gutter Hose Hook is used to attach an irrigation hose to the side of the gutter. The hook has an additional attachment option for hanging the dripper higher up. The hook is available for different types of gutters and irrigation hoses.

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**20 / 23 / 25 / 32 mm**

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## **GRAFTING PEG**

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The Bato plastic Grafting Peg with an iron ring is used for grafting cucumbers, paprika and melon.

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**STANDARD**



**STICK SLOT**



**SPECIAL**



**OPTIMAL**

## GRAFTING CLIPS

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The Bato Grafting Clips were developed so plants can be grafted according to the Japanese grafting method (the so-called head-grafting) and is suitable for placing a supporting rod. Our grafting clips are made of soft and flexible material and has the correct light permeability.

- **model standard:** standard version, without stick slot
- **model optimal:** standard version but with more grip
- **model stick slot:** with a stick slot, suitable for placement with stick
- **model special:** not suitable for a stick, has more grip compared to the stick slot version

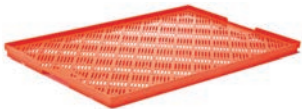
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from 1,0 to 3,5 mm

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*Bato Grafting Clip guarantees easy grafting and prevents damage to the plant during grafting and during the further growth of the plant.*

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## HL TRAY

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The Bato HL Tray is one of the most well-known Bato products. This extremely user-friendly carrier and transport tray is available in the Euro size (60x40 cm) and fits exactly on standard auction carts. Due to the grid in the bottom and the notches in the ribs at the lower edge, the HL tray is extremely suitable for cultivation on ebb and flow floors. The tray is equipped with ergonomic handgrips for easy manual and mechanical processing. Due to the minimal height of the tray you save loading space during transport. The required storage space is also considerably less.

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*The standard colour is black. When you purchase in a large-quantity, you may choose your own colour and have your company name and/or logo put on the tray.*

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## CLIP RING

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The Bato Clip Ring can be used to secure pot plants and vegetable plants on a stick or other kind of supports. The extra wide handles provide an optimal grip. The Bato Clip Ring is made of a flexible plastic and is therefore easy to attach

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**13 / 16 / 20 / 25 mm**

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*Soon available in a 20 mm light variant.*

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## **MONO CLIP**

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The Bato Mono Clip is quick and easy to place thanks to its clever suspension system. This system allows the Mono Clip to be slipped over the plant stalk without damaging the plant.

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**25 mm**

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## HYDRO TROUGH

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The Bato Hydro Trough is suitable for substrate crops where there is a constant supply of water in the tank. That means 2100 cc for the 10-litre container and 2900 cc for the 11 litre container. The hydro trough, in combination with the 50 mm drainage pipe, provides a simple, easy to change cultivation system. The drainwater pipe comes in lengths of 5,5 meters.

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**10 / 11 litre**

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**The hydro trough has an efficient internal drain-water drainage system.**

*This system continually refreshes the water supply and prevents the accumulation of unwanted substances. Two Bato Knees must be installed for this: they drain the excess water from the lowest level*

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## HYDRO TROUGH KNEE

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This Knee fits onto the Bato Hydro Troughs and drains the excess water from the lowest level in the tank. To do this, two Bato Knees must be installed in the Hydro Trough.

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## DRAINWATER PIPE

The Bato Drainwater Pipe is suitable for collecting drainwater and fits under the hydro trough, all-round trough, strawberry trough and uni trough. The drainwater pipe comes in lengths of 5,5 meters.

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## UNI TROUGH

The Bato Uni Trough is suitable for various substrates and can be placed firmly on the ground thanks to three sturdy supports under the entire width of the box. This uni trough has two drainage options: round, fully opened drainage holes at the bottom of the tank, or square drainage holes with a grid at the side of the tank. In addition, customer-specific drainage openings are possible on consultation. For the collection of drainwater from the Uni Trough choose either the 50 mm drainwater pipe or plastic U-gutter (45x50x45 mm).

17,5 litre





## BATO TROUGH

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The Bato Trough is a unique substrate holder, especially developed for placement on steel gutters or on the cultivation floor. The Bato trough is available with both a stepped bottom (for steel gutters of 15, 20 and 25 cm) or with a flat leg (for plastic gutters or on the cultivation soil). The bottom ensures maximum drainage. At the top end, the trough has 2 or 4 drain holes in a grid form. The drain holes are fitted with drip conductors: these force the water that hangs on the drain holes to flow through the gutter. The number of drain holes can vary from 0 to 8 holes. In addition, customer-specific drain holes are possible.

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**16,5 litre**

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*All Bato pots can be steam-cleaned, under certain conditions, and is therefore suitable for years of use.*

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## SUBSTRATE CONTAINER

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This Bato Substrate Container is very sturdy and suitable for all types of cultivation gutters and cultivation substrates. The holes drain the water completely. This means there is less chance of diseases. The long legs ensure sufficient air flow to prevent outgrowth.

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**9 / 13 / 16 litre**

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## ALLROUND TROUGH

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The Bato Allround Trough stands firm on the ground thanks to two sturdy legs. The trough has various drainage options: 2 open, round drain holes at the bottom, 2 round drain holes with cross at the bottom, 2 square drain holes at the side and 2 square drain holes at the side with a grid. Other alternatives are possible on request. The drainwater pipe comes in lengths of 5,5 meters. The U-gutter can be supplied at almost any desired length.

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**11 litre**

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*For special substrates, it is best to choose a drainage with a cross or a full grid. This prevents the substrate from being washed away. For the collection of drainwater, you can opt for the 50 mm drainwater pipe or the plastic U-gutter (45x50x45 mm).*

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## VARIO TROUGH

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The Bato Vario Trough is ideally suitable for cucumber cultivation, but also suitable for other substrate crops. The trough is unique in that you can determine the number of drainage openings to suit your own requirements: you can choose a maximum of three openings per side, and on the short sides you can use the possibility of 4 centimetres of extra drainage from the bottom.

All drainage openings are provided with grids to prevent the substrate from leaching. Because there are no legs, the substrate tray can be easily shifted without damaging the ground cover foil. The folded edge is constructed in such a way that the tray can also be used in growing racks. The trough can also be used in a steel gutter system.

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**11 litre**

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## BATO GUTTERS

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Bato Gutters are a watertight and environmentally friendly solution for the collection and recirculation of drainwater in vegetable and flower cultivation. Our gutters are suitable for any installation with substrate mats, substrate troughs or substrate buckets. These items are available in various sizes, lengths, accessories and is processed according to your wishes, folded on row lengths (or multiples) and rolled up. The maximum roll length depends on the drain hole dimensions in combination with thickness of material. The various gutters are available in two colours; black and white and in three versions: The rectangular gutter, V-Gutter and the Mega-Gutter.

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**0,8 / 1,0 / 1,2 mm**

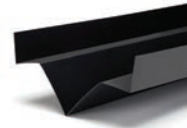
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*The rectangular gutter can be used as a drain on the ground. The V-Gutter and Mega-Gutter can be used as a discharge channel under a cultivation system.*

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**RECTANGULAR GUTTER**



**V-GUTTER**



**MEGA-GUTTER**



## DRAINPLUG

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For the connection of the plastic gutter to the underground central drainage system.

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## GUTTER BRIDGES

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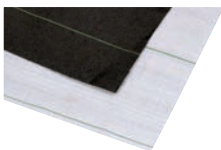
The Bato Gutter Bridges are used to support substrate mats. The free space under the substrate mat ensures good drainage.

The gutter bridge is available in widths of 15, 20 and 25 cm. Bato delivers a drainplug for the connection of the plastic gutter to the underground central drainage system.

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15 / 20 / 25 cm

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## GROUND COVER

The Bato Ground Cover keeps your nursery clean: it prevents weed growth and root growth into the soil. The fabric is loosely-woven, has a water-permeable capacity of 12 litres per m<sup>2</sup>/second, is UV-stabilized and has a very long lifespan (depending on the sun intensity). The ground cover can be steam cleaned and can withstand a maximum temperature of 130 degrees. It can be delivered ready made-up to a maximum of 2,500 square meters, with standard cap seam or tension-free cap seam. A tension-free cap seam prevents ripples in the ground cover.

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## FIX PIN

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The Bato Fix Pin is a plastic nail for securing the ground cover. This PP (polypropylene) nail is cheaper and faster than iron staples.

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## PLASTIC SHEETING

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Bato Flexible Plastic Sheet Material is used for various purposes. The sheet material prevents unwanted root spreading, especially with various bamboo species, and this can prevent a lot of irritation!

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*In addition you can also use the sheet material in order to prevent unwanted burrowing pests such as moles.*

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## CLIPPING BAG

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The Bato Clipping Bag is a handy bag for clipping operations. You carry the clipping bag, which closes firmly, close to the body, for a comfortable working posture.

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