



PRODUCT INFORMATION & PROFESSIONAL GUIDE







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About Paskal

The Paskal Group is a world leader in protected horticulture. Paskal's greenhouse solutions include state-of-the-art trellising accessories, biodegradable products, and technological solutions for greenhouses as well as netting accessories and products for vineyards and orchards. Founded in 1991, our worldwide reputation for quality is built on decades of experience and expertise.

We're constantly listening & learning. We are out in the field to understand your unique requirements & to anticipate your future needs. We're passionate about improving productivity and optimizing yield which results in premium products and solutions.

Our R&D, driven by Paskal's experienced engineers, growers and world-renowned experts, focuses on sustainability and agricultural innovation such as

digital monitoring solutions that make growers' lives simpler and easier.

We're committed to always bringing you products that perform reliably for years, delivering on time and providing exceptional service & support. Our subsidiaries in the United States, Mexico, the Netherlands, Spain, Turkey and Russia, global distributor network and dedicated sales & support teams are with you every step of the way, and are dedicated to giving you peace of mind.

Paskal's sustainable agricultural accessories, coupled with our suggested growing methods, is aimed at helping you adopt superior cultivation methods which will result in higher quality crops and greater yield.

Together, we break new ground.





Greenhouse Solutions

Welcome to the world of greenhouse solutions! Get to know the full range of trellising accessories, their advantages over other products, and how to best use them.

Paskal accessories fit to the following categories:

- Tomato accessories
- Cucumber accessories
- Pepper, and courgette accessories
- Flower markers for seed production

The trellising method used with Paskal accessories provide the growers with the capacity to control their crop's quality and growth, while making their daily work easier.

The plant growth depends on several parameters:

- Greenhouse structure
- Grower's experience and skills
- Trellising height
- Country location
- Choice of the appropriate product to fit the different tomato varieties
- Crop's price on the market

When the price is high, the grower tries to extend the growing season. The estimated yield of tomatoes in greenhouse using this method is between 30 to 90 kg per 1 sqm.

Ask Your Grower

There are a number of guiding questions to ask a grower before advising. However, we strongly suggest to proceed to a general overview of the facility to better understand the grower needs:

1. Are there electric trolleys in the greenhouse for the purpose of lowering?
2. Is the grower growing tomatoes for the first time or is he/she an experienced grower?
An experienced grower is usually conservative, and not eager to change his working method.
3. Is the labor force experienced or not?
An experienced worker will have more difficulties to change his working habits.
4. Is the grower willing to use the same type of hooks with multi-seasonal trellising twines or interested in a one-season twine?
There is a perception from some conventional growers that a remaining hook with twine can lead to diseases. Therefore, they avoid leaving the hook for the following growing season. However, other growers have no problem in leaving the hook for more than one season.
5. What is the length of the crop?
 - For a higher greenhouse (above 3 meters):
The RollerHook or Metal Hook would be the recommended products.
 - For a low greenhouse (between 2.5-3 meters):
The grower usually grows between 2 to 3 crops a year; which means that the lowering cycles are minimum (2 to 3 small controlled lowering). This grower can use Mini Hook or the Rollerplast.

Both solutions are very different from each other and have their own methods of lowering.
6. What is the length of the twine needed for one season?
An experienced grower should know his needs.



Biodegradable Products

Our innovative biodegradable clips for tomatoes and cucumbers, bio arches and truss supports for tomatoes, and bio twine are engineered to be eco-friendly and sustainable. These strong and reliable bio products meet the quality standards needed to support healthy plant growth during a long season.

Our bio products are produced from raw materials complying with EN13432.

Speak to our experts to learn more.

Greenhouse heights



Number of seasons for annual growing





Tomato Accessories

Hooks

Paskal offers a wide range of hooks that are different from each other and developed for specific needs. Each has its own advantages and disadvantages.

The wide range of Paskal hooks includes the RollerHook, Roller Plast and other Metal hooks which are designed to help grow tomatoes and cucumbers.

The trellising method using hooks enables the growers to:

- Extend the plant growth (in tomatoes for example from 3-11 months)
- Protect the crop from radiation and heat damages in the top part of the plant, by controlling the plant's height
- Enable an easier harvest
- Control the crop quality
- Increase the yield



RollerHook [↗](#)

Specially developed to ensure a full control of plant's lowering at minimum cost, the RollerHook is composed of a reusable multi-seasonal metal frame and a strong disposable spool.

RollerHook can help increase labor output in leaning and lowering time by more than 20%, while at the same time, reduces the crop damage.

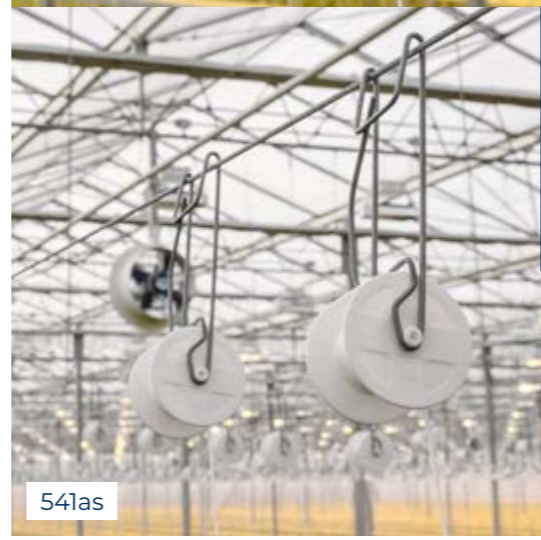
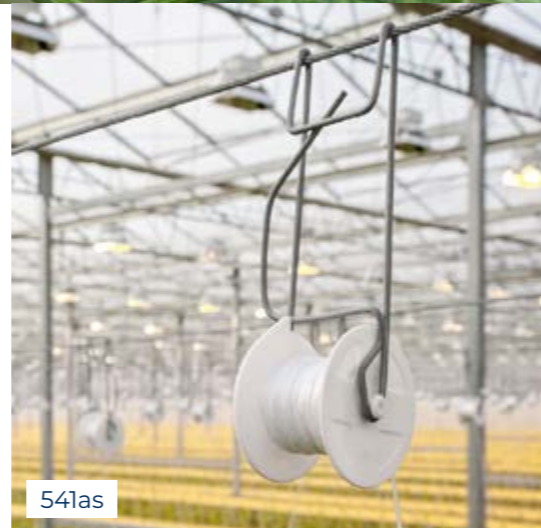
RollerHook allows an easy and efficient trellising of greenhouse tomato plants, with no need of experienced labor force.

Main use

As soon as the lower fruits are picked, the RollerHooks allow the gradual release of string throughout the growing season.

Advantages

- Quick and easy installation
- Quick lowering, 1200-1500 plants an hour
- Prevents plant "stress"
- Slow release of twine
- Special design preventing accidental slipping off the trellis wire
- Disposable spool with up to 36 meters of UV resistant (in tomatoes). Spool length of 48 meters can be used in multiple crops (4-5) and up to two years of use (in cucumbers)
- Simple to operate spool device with 25-36 meters of twine for tomatoes or 48 meters for cucumbers
- For cherry tomatoes, RollerHook with double twine spool enables two stems to be lowered at the same time with fixed space in between: reduces the cost of hooks by 50% as only one hook is needed for 2 stems (spool 17m x2)
- Minimize workers injuries and fatigue on arms and wrists
- Can be used up to three consecutive growing cycles. After two or three seasons and when spool runs out of twine, is when new spools will need to be purchased
- Low-cost use
- Multi-seasonal use
- Three-year guarantee-according to Paskal's terms and conditions
- Suitable for 2.5 to 4.0 mm trellising wire



54las

54las

54las



Metal Hooks [↗](#)

Paskal Turbo hook provides fully controlled plant lowering, while improving productivity and reducing labor costs.

The Turbo Hook is a quality metal hook including a free-fall release system, that can be released extremely fast, in one-movement!



Advantages

- Time saving
- Unique labor saving
- Reliable
- Fastest free-fall system
- One-movement hanging method
- Competitive pricing
- Quick and easy installation
- Suggested quantity: one hook per plant

Pro-Hook system is intended for heavy tomato varieties.

Customization

- Metal hook is available in two sizes: 180 mm or 220 mm
- Twine available in different colors, thicknesses and strength
- Twine and free-fall lengths can be customized to growers' specific needs
- Different packaging options available – alternate colors of twine in same box

Paskal also offers Tail, V-hook systems.



Roller Plast [↗](#)

Roller Plast's unique design allows an easy and safe trellising of greenhouse tomato plants and the ability for fully control of the plant lowering.

Advantages

- Controlled lowering of the twine length
- Quick and easy installation
- Special lock preventing accidental slipping/ falling off the trellis wire
- Disposable spool with up to 16 meters of UV resistant twine
- Cost effective: improved productivity, reduced labor costs
- Suitable for 2.5 to 3.5 mm trellising wire
- Multi-seasonal use for the hook
- Two-year guarantee for the spool

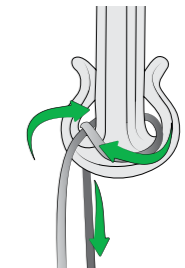
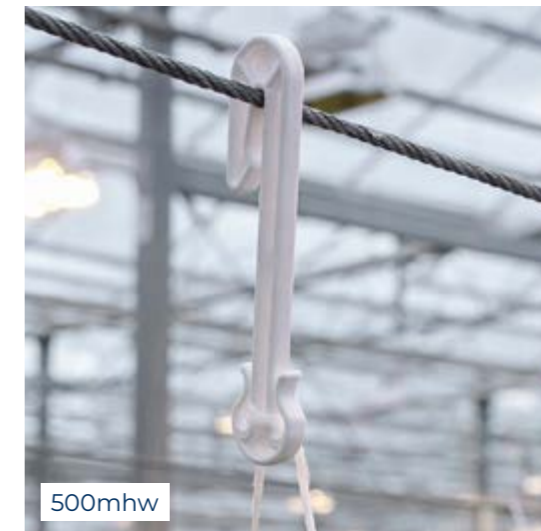
Mini Hook [↗](#)

Mini Hook offers easy, cost-effective, and an efficient way to trellis tomato plants in low and medium height greenhouse.

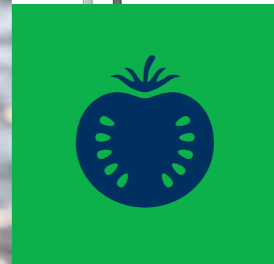
Advantages

- Easy and quick installation
- Fast lowering without the need to open and close the knot
- Easy twine release from ground level
- Cost effective
- Multi-seasonal use
- Suitable for up to 4 mm trellising wire
- Suitable for up to 1 meter lowering
- Resistant, UV protection
- Prevents friction of the twine on the wire

Before first use, it is important to receive instructions from our professional team on how to tie the twine to the Mini Hook.



Tie the twine to the Mini Hook



Twines

Paskal is using high-quality twines, including biodegradable twines, in different thickness and colors to fit best to vegetable crops:

- 1000 meters per 1 kg
- 1200 meters per 1 kg
- 1500 meters per 1 kg

For example: the weight of tomato plant is an important factor when choosing twine strength and thickness. The strength of the twine to be used depends on the tomato variety. As the length per meter decreases, the thickness increases.

The main colors of Paskal twines are white and black, but several other colors are available:

- Black twine for warm countries, such as south of France, Spain, Israel, Mexico.
- White twine for northern/colder countries, such as Canada, USA, Russia, Europe, and Australia. Northern/colder countries tend to have less sunlight in certain times of the year and white twines allows better light penetration than black.



 Biodegradable Twines 

Made according to Paskal's standards and specifications.



Ask Your Grower

In order to choose the proper twine from Paskal portfolio, ask the grower:

- What color he needs?
- What twine length he needs?
- What thickness of twine is needed?
- What is the type of crop (tomatoes, cucumber, peppers etc.)?



Clips

In order to understand which clip is needed, we first need to understand what are the different growing methods and working practices. The use of clips in vegetable crops began 25 years ago, mainly due to the cost and the required experience of the labor force in greenhouses.

There are several options to connect the plant to the twine:

- The traditional method – done by winding, where the plant is held and the trellising twine is twisted around it.
- The modern method – using clips such as Paskal clips, which allows to keep the twine parallel to the growing plant while fastening it quickly and efficiently.
- Using metal rings.

The use of clips varies between countries and growers. To understand which clip is appropriate for the crop (inner diameter), it is recommended to ask the client and advise accordingly.



With Paskal clips, trellising has never been so easy.



Tomato Clip (22-23 mm) 550kc | 550kc-12 | 550kcT-12

Specially designed to ensure a strong gripping force, the Tomato clips significantly help reduce labor costs by connecting the plants to the trellising twine in a simple click, ensuring that the clip is well fastened.

Advantages

- Easy and fast to install and to remove
- High quality
- Lightweight
- Ventilated
- Extra strong gripping force
- Does not slip along the twine
- "Click" sound system to signal correct fastening
- Time and labor costs saving (average of 1,400 clips per hour)
- Eliminates the slow and potentially stem-breaking method of twisting the plant around the trellising twine
- Upgraded design to minimize fruit damage: smooth edges, air holes around the clip to prevent fungus formation
- The ribs on the sides prevent finger slippage and ache while closing
- Available in different colors
- Available as biodegradable  

Technical recommendations

- Quantity: 10-20 clips per plant for long-term growth / 5-10 clips per plant for short-term growth
- Recommended distance between two clips is about 20 cm
- Clip placement: below the leaf



Truss Arches [↗](#)

Shaping the cluster's stem into an arch, Paskal arches prevent cluster stem damage. Truss arches support the growth of healthy tomato inflorescence and prevent the cluster from kinking, snapping or ripping at a later stage of growth.

The arch support was developed to meet the need of growers for a small and flexible cluster arch. With larger edge bumpers and a narrow stem channel, the arch can be slipped easily onto the young fruit stem and holds securely while gently trains the stem downward to prevent damage to the fruit stem.



560ac



560j1




Arches [↗](#)

561ac | 560ac | 5605, 5606

Main use

Shaping and supporting the cluster's stem in order to prevent it from bending or breaking.

Advantages

- Innovative designs
- Quick and easy installation
- Adapted to different growing methods
- Lightweight
- Providing strong and long-lasting support
- Available in two sizes 5 mm / 6 mm
- Optional as rigid or flexible
- Available as biodegradable:
560ac-bio, 561ac-bio  [↗](#)

Technical recommendations

- Quantity: between 5-15 units per plant (depending on the country and the type of tomatoes)
- Timing: only at the beginning of the flowering stage, when the flower cluster is blooming
- Arches can be selected according to the type of crop and growing method

J-Hooks [↗](#)

560j1 | 560j3-19 | 560j4

Main uses

Shaping and supporting the cluster's stem in order to prevent it from bending or breaking.

Advantages

- Innovative designs
- Quick and easy to attach
- Adapted to different growing methods
- Special design preventing cluster stem damage
- Lightweight
- Providing strong and long-lasting support
- Different shapes and lengths to facilitate the attachment

Technical recommendations

- Quantity: On each cluster

Placement

One side is attached to the cluster, while the other side is connected to the twine.

Cluster Supports

The cluster support is used during the growing period, mainly for tomato varieties with heavy clusters. Using the J-Hook helps to maintain the healthy development of the tomato, by ensuring the transport of water, nutrients and carbohydrates without bending or breaking the stem.

It's a highly effective and economical solution for preventing both the premature kinking of the fruit stem and the ripping of the entire fruit cluster from the plant's trunk due to heavy fruit weight.

The J-Hook is designed for use on clusters at any stage of growth. It helps anchoring the cluster by supporting it with the smooth round hook.

When comparing to competing products, the J-Hook is not affected by the growth rate of the plant since it is using the trellising twine for anchoring the fruit stems.



560j3-19



561ac-bio

Stem Holder [↗](#)

560sh

During the growing season using the trellising method in greenhouses, some growers choose to grow an extra side shoot (head) from the main stem in order to increase the plant density and potential yield.

This process is usually done after about 3 months of growth. The extra shoot that starts growing needs to be supported by the trellising wire or by the main stem. The stem holder 560sh allows this support through connecting it to the stem.

Main use

Connects additional stem to main stem.

Advantages

- Attached quickly and easily to the main stem
- Reduces the cost-eliminates the need for buying an extra metal hook (mainly for short season)
- Supports heavy stem from bending and breaking
- Protects lower cluster from ground contact
- Flexible and strong
- Easy to remove and adjust
- Reusable for several seasons



560sh



560sh

Flower Markers

Developed exclusively to facilitate the seed production process, these colorful markers enable marking of the emasculated/pollinated flowers in order to save time and labor.

Used mainly for tomatoes, cherry tomatoes, pepper and other vegetables.

The flower markers provide the grower a unique capacity to mark, control and protect their growth.



6200



Flower Markers [↗](#)

6100, 6200

By marking the emasculated flowers with colored markers, the worker can identify the flowers that are needed to be pollinated without checking the status of each flower (a process that would be much more time consuming without Paskal's markers).

Advantages

- High quality
- Quick and easy flower marking
- Available in different colors to mark the emasculated dates made during the seed production process
- Lower production cost of the seeds
- Improved crop profitability
- Better control of the pollination process
- Increased productivity: almost doubling the quantity of plants that can be taken care of, by the same labor
- Increased seed production: growers can double the amount of seeds(kg), without increasing work force
- Cost effective – increasing the lot size per grower, reducing extra workforce expenses and consequently lowering the cost on lab tests



6100



Cucumber Accessories

Cucumber Oval Clip [↗](#) (14.9-15.5 mm) 554kc | 554kcR | 554kc-natural

Specially designed for high wire cucumbers, this clip ensures a strong and safe connection of the cucumber plant to the twine.

Advantages

- Extra strong gripping force
- "Click" sound system to signal correct fastening
- Time and labor costs saving
- Upgraded design to minimize fruit damage: smooth edges, air holes around the clip to prevent fungus formation
- The ribs on the sides prevent fingers slippage and ache while closing
- Available as biodegradable: 554kc-bio [↗](#)



Cucumber production enables multiple crops per year (2-3), and one way to trellis the plants is to use a lowering/leaning system similar to the way tomatoes are grown. The main difference between tomatoes and cucumbers is the speed in which they grow, cucumbers grow much faster.

This technique of growing cucumbers allows RollerHooks and Metal hooks to be used in order to provide:

- Plant lowering control
- Crop quality control
- Ability to grow longer crops
- Increased crop yield

When growing cucumbers in a lower height greenhouses, with wire height between 1.8 to 2.5 meters, a technique called the "Umbrella System" is used, in which the crop is grown up to the wire and back downwards towards the ground. This technique can cause multiple issues including stem breakage and kinking.

To support this growing method, Paskal has developed two main products:

Radial Hook [↗](#) 505rd

Specially developed for cucumbers crop wires, this hook ensures that the stem will not break while growing up and down, eliminating the need of placing the stem above/over the wire.

Advantages

- Easy and quick installation
- Reliable
- Saves equipment and labor: no tool or experience required for installing
- Cost effective: improved productivity, reduced labor costs
- Enables easy lowering
- Prevents stem damage
- Easy and quick disposal at the end of the season
- Resistant, UV protection
- Prevents friction of the stem on the wire

Scorpion Hook [↗](#) 505ch

Developed to provide the right trellising support for the plant. Instead of placing the cucumber stem over the wire, this hook allows the plant to be lowered and grown diagonally even at a low height, by placing the stem inside the scorpion hook itself. In fact, this product makes it possible to grow, work on and treat the plant from the ground level, while supporting an efficient growth upward.

Advantages

- Easy and quick installation
- Reliable
- Time and labor cost savings: no tool or experience required for installing
- Cost effective: improved productivity, reduced labor costs
- Increased cucumbers production without interrupting the growth
- Optimized yield and revenues for the growers
- One-year use





Pepper & Courgette Accessories

Pepper

There are two main pepper growing methods:

The "Spanish Method"

This method is easier to implement when the crop is dense mainly in greenhouses that cannot carry weight.

With this method, the twines are spread out on both sides of the plants along the row, supporting them from falling to either side. As the plants grow higher, more and more twines are added horizontally.



Pepper Support [↗](#) 5700 | 5707

Specially designed for Spanish growing method.

Advantages

- Connecting two side horizontal strings to each other and to the vertical string
- Easy and fast installation
- Secure connection to the vertical string
- Improved labor productivity
- Available in two sizes: 6 and 9 cm
- One season



552kc-10

High-wire peppers

The plant is grown at a height of between 3 meters and 4 meters and each plant stem grows with the support of twine str1200 or str1500. The use of the Optimax clip enables quick attachment of the twine to the stem.

Advantages

- Better quality of the pepper
- More yield per square meter
- Proper transmission of light
- Control of the plant growth
- Growing cycle between 6 and 10 months

Jumbo Clips [↗](#) 552kc-10 | 552kcR

Specially designed to ensure a strong gripping force, this new generation of clips 24-27.5 significantly help reduce labor costs by connecting the plants to the trellising twine in a simple click, ensuring the clip is well fastened.

Advantages

- Easy and fast to install and to remove
- High quality
- Lightweight
- Ventilated
- Extra strong gripping force (breaking strength around 7 kg)
- "Click" sound system to signal correct fastening
- Time and labor costs saving (average of 1,400 clips per hour)
- Upgraded design to minimize plant damage: smooth edges, air holes around the clip to prevent from fungus formation
- Oval shape



5700





Courgette

When cultivated in low greenhouse, the courgette plant grows towards the wire by being connected to the twine thanks to two Paskal solutions:

1. Clip 5800: ensures a strong and quick connection of the plant base to the trellising twine.
2. Clip 5806: ensures a strong and quick connection of the plant stem to the trellising twine, preventing plant breakage.



5800

Courgette Clips [↗](#) 5800 | 5806

The courgette plant presents two challenges: its leaves, thickness and fleshy stem. The leaves are very large and disturb the stem. Growing courgette with this trellising method allows for a longer growth period. The twine passes through the clip and is parallel to the stem, trellising this way reduces the disruption caused by the leaves and supports a more efficient stem growth.

Advantages

- A complete solution for supporting courgettes plants
- Easy and fast installation
- Easier and faster fruit picking

Instructions of use

Courgette Clip – 5800

For the bottom of the plant. When the plant reaches 40-60 cm height.

- Connect the clip to the trellising twine and to the stem
- Support the plant with the clip
- Connect the trellising twine to the upper support cable

Courgette Clip (short) – 5806

Every 30-40 cm.

- Support the plant with the clip
- Connect the clip to the trellising twine and to the stem



5806



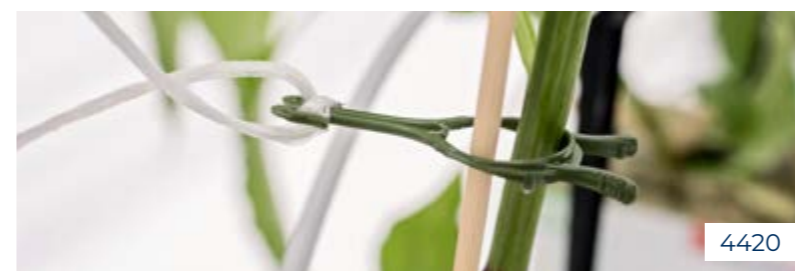
Accessories for Nurseries

First Clip 20 mm [↗](#) 4420

This clip is used to fasten small vegetable plants and little trees to a stick or other support, as well as to attach the trellis twine in the greenhouse (only at the first stage).

Advantages

- One product with two functions
- Easy and quick installation
- Cost effective
- Labor time savings
- Patent pending



4420



420 bio

Seedling Clip 20 mm [↗](#) 420

This propagation clip is used to fasten pot plants, small vegetable plants and little trees to a stick or other support.

Advantages

- Quick placing and easy locking
- Cost effective
- One-season use
- Internal diameter of 20 mm
- Available in different colors
- **Optional as biodegradable: 420-bio** [↗](#)





Sulfur Evaporator

Number of units / hectare

Crops	Regular	With air circulation
Tomatoes	100	40
Peppers	100	20-40
Strawberries	100	40
Cucumbers	100	40
Roses	100	40

* This information is a recommendation only. Paskal cannot be hold responsible for these suggestions.

Number of Sulfur Evaporators units/Ha will be determined according to crops. The air circulation in the greenhouse, helps to spread the sulfur equally. For example – in case of 40 units per hectare – each evaporator will cover an area of 250 m².

Type of sulfur & temperatures of operation

- Use of "Ground Sulfur" (99% sulfur)
- Ground Sulfur will changes to liquid at 112°C and to Gas at 140°C
- Sulfur Vapor (S₂) will flow in greenhouse and will "land" on leaves
- Paskal Sulfur Evaporators are operated at 140°C, NO sulfur burning risk

Installation and operation

- Horizontal balance
- 0.5 – 1 m above plants
- Operate only at night
- 100 gr / cup
- Clean & refill every 2-3 weeks

Electricity & power

- 100V – 150W 1.36 AMP
- 230V – 150W 0.65 AMP



Greenhouse Evaporator [↗](#) 570ge

Ideal way to control Powdery Mildew in greenhouses.

Main diseases to control and time of operation

- Powdery Mildew: high contamination rate – 8 hour operation
- Powdery Mildew: low contamination rates and preventive mode – 4 hour operation
- When using in conjunction with biologicals, please consult local biological control company representative

Effectiveness

Sulfur is a very effective chemical to prevent and control Powdery Mildew. It also reduces trips & mites population.



Ask Your Grower

General recommendations for greenhouse products quantity calculations:

Keep in mind that the calculation is general and that the average will vary according to the:

- Type of crop
- Weather
- Country
- Greenhouse structure

The basis for a general calculation to determine the quantity of units needed is:

- 1 ha = 10,000 sqm
- 2.5-3.5 plants per sqm (on average)
- 10,000 sqm x 2.5 or 3.5 stems = 25,000-35,000 plants per 1 ha

Hooks or Roller-Hooks: 25K-35K per 1 ha

Arches: 8 to 10 arches per plant, so number of arches required = number of plants x 8

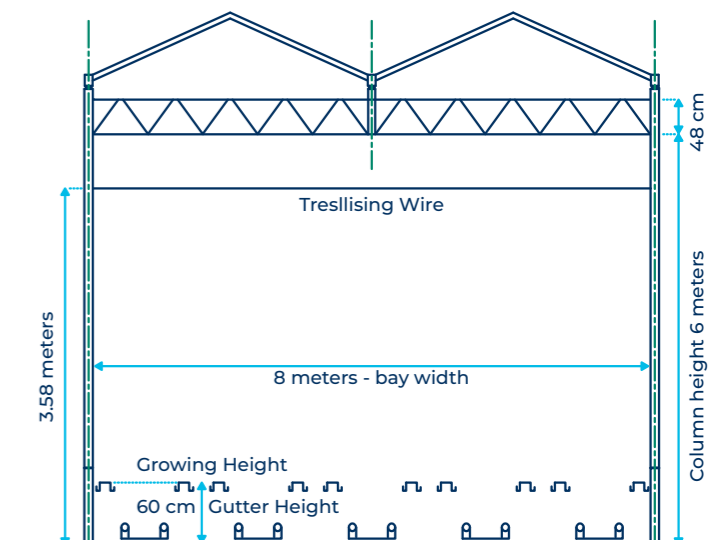
Clips: 20 to 40 clips per plant (general recommendation will be a clip every 20 cm)

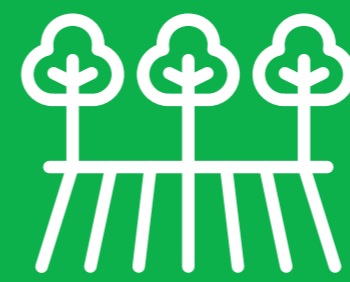
Free-Fall for Hooks: the height between the substrate to the trellis wire = free fall twine



Fertilizers go up the twine and as a result can burn the plant. That's why, the twine should not touch the ground.

General example for greenhouse structure





Open Fields Vineyard & Orchard Products

The evolving growing methods for vineyards and orchards around the world continue to be a source of inspiration, motivating growers and companies to create innovative solutions for increased efficiency.

Integrating the vineyards' ever-changing growing methods and challenges, we have been working since 1991 in close collaboration with growers, agronomists and our R&D department to develop high performance products and improve sustainability with special emphasis on young tree shaping.

We offer a wide range of vineyard and orchard accessories for all types of crops (mainly vines, apples, kiwi and summer fruits) which provide innovative solutions to protect and shape vines and young trees.

Aligned with our sustainability values, all vineyard and orchard accessories are multi-seasonal, reusable and adjusted to new growing methods.

Paskal vineyard and orchard products are intended for:

- Controlling the plant's shape
- Protection from weather and animal damage
- Labor saving (fewer working days)
- Easy and quick installation
- Suitability to specific types of crop



Multipurpose Connectors [↗](#)

1107, 1110, 1117

Developed for apple orchards, berries, kiwi and vines, these multi-purpose connectors connect the branches to the horizontal wires in order to shape and support the young trees and vines, while protecting the stem from damage.

Advantages

- Easy and quick installation
- High-quality
- Reliable
- Does not slide on the wire
- Multi-seasonal and re-usable
- Cost effective: improved productivity, reduced labor costs
- Wide variety with different lengths
- Wire diameter: 2.5-3.5 mm

Used for:

- 1107 (70mm) for kiwi only
- 1110 (100mm) for apple trees
- 1117 (170mm) has a different structure ("s" shape) and provides better grip to the wire. Prevents sliding due to winds.



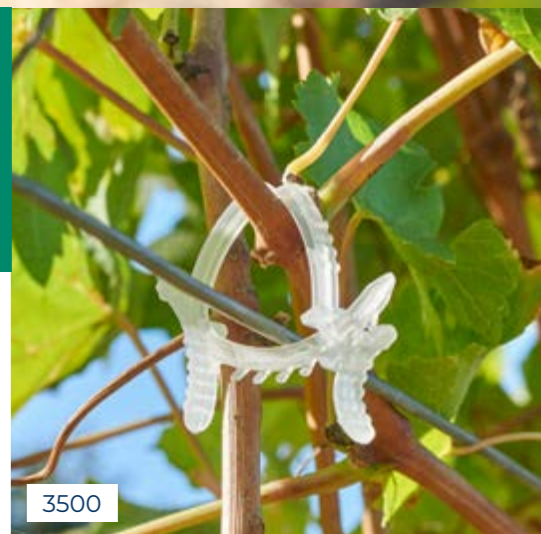
Vine Chain (20 cm, 30 cm) [↗](#)

3220, 3200

Specially designed for vineyards, these vine chains easily and efficiently connect thick branches and poles to the trellising wire. The great advantage of this product is the ability to enlarge the chains over time, and reuse it.

Advantages

- Easy and quick installation
- High-quality
- Saves equipment and labor: no tool or experience required for installation
- Easy and quick release at the end of the season
- Length of 20 cm/30 cm allows easy opening and closing of the chain, according to the needed length
- The short chain 3220 is designed to strengthen and stabilize the tree and its thick branches
- Cost effective: improved productivity, reduced labor costs
- Multi-seasonal




Vine Clip [↗](#)

3500, 3500mt

Designed for vineyards, these vine clips easily and efficiently connect thin branches to the trellising wire.

Advantages

- Easy and quick installation
- High-quality
- Saves equipment and labor: no tool or experience required for installing
- Cost effective: improved productivity, reduced labor costs
- No wire diameter limitation
- One season only
- **Available also as photodegradable**  Bio



Vineyard Rubber Band [↗](#)

3805, 3808, 3810, 3812

These rubber bands are used to tie up the stem to a supporting wire. These products can expand easily during the plant growth and do not cause any harm or girdling to the stem.

Advantages

- Easy and quick installation
- Available length: 5/8/10/12 cm
- One season only



Lock Fix [↗](#)

1313

This clip fixes the tree stem to the trellising wire when used with Vine Chain or Rubber Band.

Advantages

- Suitable for wire up to 3.5 mm
- Easy attachment, no tools needed
- Trunk injury prevention by separating the plant from the trellising wire
- Wide plug hole to thread the twine/chain/band and connect the stem
- Ensures a strong grip to the horizontal wire, preventing sliding
- Provide anchor to variety of twines for trees design
- No experienced labor force needed to design trees
- Multi-seasonal and re-usable

Short Bamboo Stake-Wire Locking [↗](#)

1318

Specially designed for orchards (apple, olives, nectarine, pomegranate) where bamboo support is needed for the lateral metal wire. This bamboo stake-wire locking ensures a strong grip to the wire, preventing sliding.

Advantages

- Easy and quick installation (with one hand)
- High-quality, made out of metal
- No limitation in thickness of wire
- Reliable
- Multi-seasonal and reusable



Fix-Clip [↗](#)

1315

This clip fixes the supporting bamboo/stake to the trellising wire.

Advantages

- Easy to install
- Strong grip to the horizontal wire
- Suitable for 2.5-3.0 mm wire and 6.0-13.0 mm stick/shoot
- Inside diameter of 8 mm



Vine Clip [↗](#)

31cb10, 31cb15, 31cb20

Specially designed for vineyards, these vine clips easily and efficiently connect metallic posts.

Advantage

- Easy and quick installation
- High-quality
- Saves equipment and labor: no tool or experience required for installing
- Easy and quick release at the end of the season (no need to cut, just pull the wires and the clip breaks and releases itself)
- Cost effective: improved productivity, reduced labor costs
- One season only
- Available length: 10/15/20 mm
- Available as biodegradable

Pheromone Twist Tie Hook [↗](#)

1320

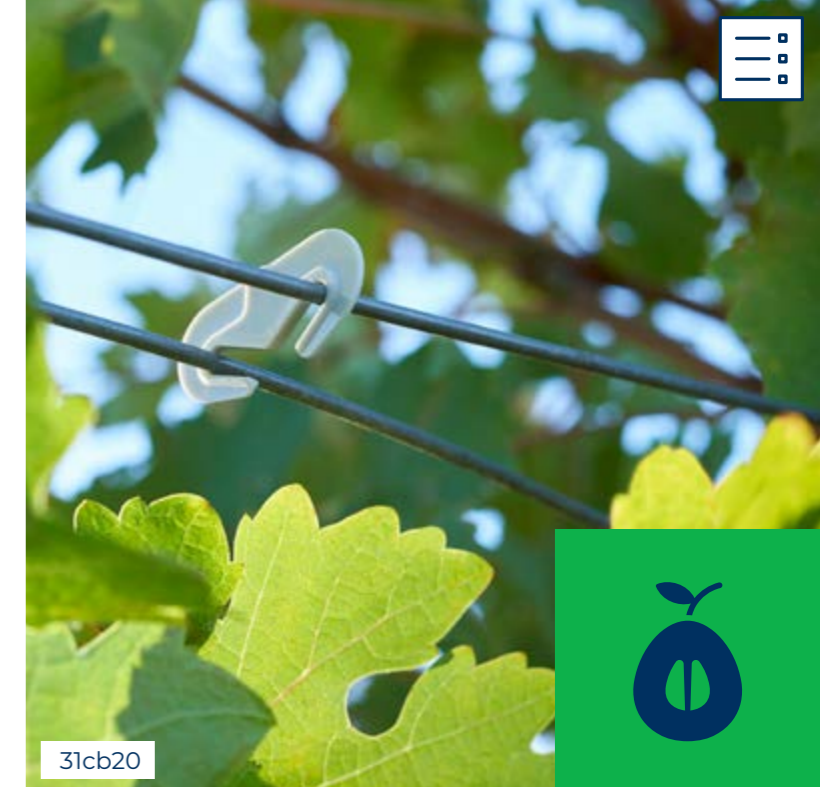
The Pheromone Twist Tie Hook is a highly visible holder of evaporable pheromone wires.

Advantages

- Easy and quick installation: allows reaching high branches without a ladder
- High-visibility: helps detecting and distinguishing between different kinds of pheromone twist ties
- Available in different colors, for use with different pheromone ties and/or different installation dates

Technical advice

Place every 10 trees for prevention. 70 twist tie hooks recommended per hectare.



Pegs for Pipes [↗](#)

7016, 7020

Attaching the irrigation pipes to the ground, these accessories allow for a more structured irrigation system.

Developed for gardens or intensive agricultural crops with drip irrigation systems.

Advantages

- Does not distort the pipe
- Does not rust overtime
- Does not extend above the pipe
- Available matching color to pipe colors (black or brown and green)
- Fits 16-17/20 mm irrigation pipes



Fixed Drop Holder with Hook [↗](#)

7116, 7120

Developed for orchards and vineyards using a hanging irrigation dripping system.

The Drop Holder Hook holds up the irrigation pipe to a supporting wire to avoid the water drop from sliding down the pipe. This method ensures that the water reaches the tree, essentially preventing drying of the tree.

Advantages

- Easy and quick installation
- Cost savings: integrated dripping system rather than "stab" drippers
- Reduced irrigation system costs
- Fits 16-17/20 mm irrigation pipes
- Two functions in one product-keeping the irrigation pipe hang on the wire and making the drop fall in the right place
- Suitable for wire diameter 2/4/5 mm



Plant Guard [↗](#)

9440, 9460, 9480

The support and protection of young trees are guaranteed with this simple to assemble plant protector.

Advantages

- Easy and quick installation
- High-quality
- Reliable: protection from extreme weather, animals and during herbicide spraying
- Easy to re-open
- Space between walls – 95 mm
- Available in three lengths: 40/60/80 cm
- Multi-seasonal and re-usable

To close the plant protectors and prevent wind opening, there is a complementary accessory (940h) to be fixed vertically (2-3 products for one plant protector).



Spread Lok Anchor [↗](#)

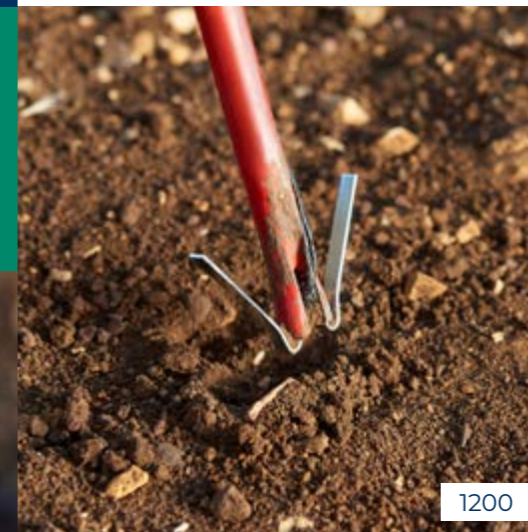
1200

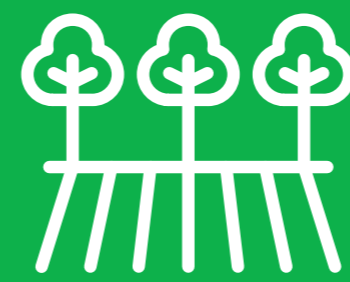
The Spread Lok Anchor allows shaping of young tree landscape by anchoring the twine that pulls the branches to the ground.

The anchor needs to be inserted into the ground diagonally and with a slight rotation of 90 degrees. The twine connected to the anchor enables to stabilize and shape the young branches while they are flexible, and therefore allowing to control and support the growth of the plant. The thickness of the twine is chosen according to the weight and strength of the branch while it is still young.

Advantage

- Easy and quick installation
- High-quality
- Long lasting
- Multi-seasonal and re-usable
- Suitable for variety of soil textures
- One applicator (120M) required for insertion into the soil





Open Fields Netting Accessories

Protecting crops with net houses reduces irrigation, prevents weather damage, extends growth, controls crop quality, and prevents animals entering and damaging crops.

Since nets have a minimum lifespan of five years, using the right net connectors is the best way to extend its lifespan and significantly reduce unexpected costs due to damage.

Growers rely on Paskal's high quality connectors to provide the most reliable and durable connection for netting structures to ensure ongoing crop protection all year round.

Paskal's net connectors are manufactured with top-quality raw materials and offer high UV protection, which directly affect the strength and durability of the net – especially when dealing with constant changing weather conditions.

The connectors also positively influence the gripping force, which is crucial in preventing damage to the structure.



Elliptic Net Connector [↗](#) 820en

Innovative design, one-of-a-kind product that enables fastening of nets without finished edges (for proper installation use it together with Pin Connector 8514).

Advantages

- Quick and efficient installation for all types of nets
- Intended for connecting between nets or for connecting nets to cables
- Designed with broad surface and rounded edges to protect the net
- Developed especially for knitted nets
- UV protected and long lasting
- Ongoing crop protection from the weather and any external threats
- Reliability and top quality
- Increase nets lifespan
- Recommended distance between the connectors: 50 cm

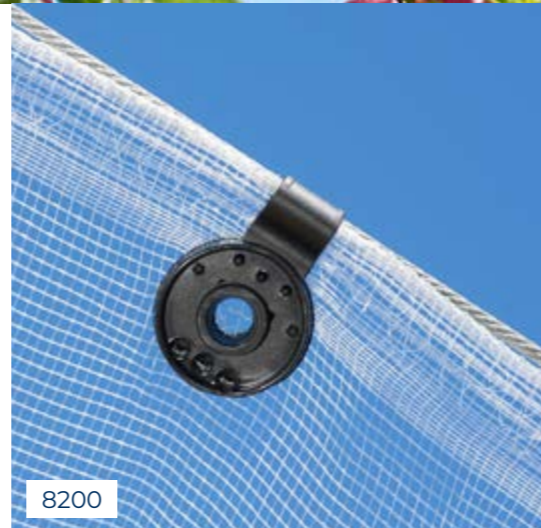
Net Connectors [↗](#) 8100, 8200

Paskal high quality net connectors are designed to provide the most reliable and durable connection to netting structures. These products indented for connecting nets to each other and cable to nets.

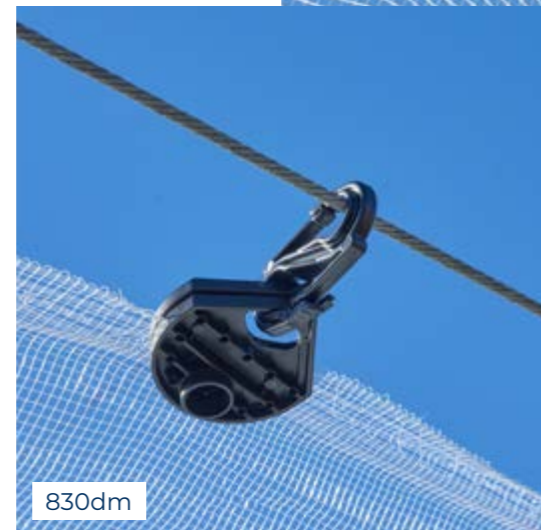
- 8100 - Connecting nets to each other
- 8200 - Connecting nets to cable
- 8100bh - Connecting nets to cable

Advantages

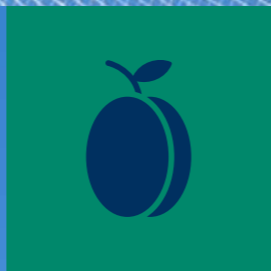
- Ongoing crop protection from the weather and any external threats
- Secured connection
- Quick and efficient installation for all types of nets
- Reliability and top quality
- Durability and anti UV
- Increase nets lifespan
- Versatile - fits to different type of nets
- Recommended distance between the connectors: 30-50 cm



8200



830dm

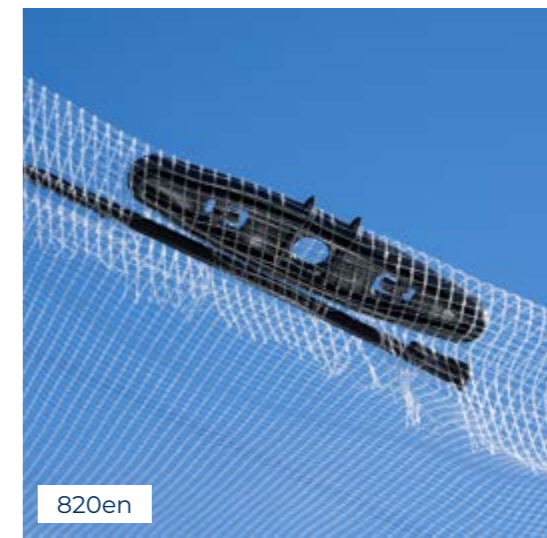


Diamond Net Connector [↗](#) 830dm

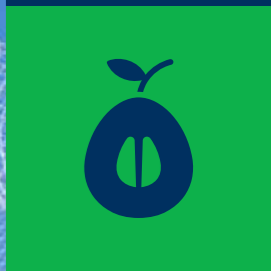
This product is designed with a broad surface area and rounded edges to protect the net. It is equipped with a central locking pin that prevents the connector from becoming unfastened, even under severe conditions.

Advantages

- Ongoing crop protection from the weather and other external threats
- Quick and efficient installation for all types of nets
- Reliability and top quality
- UV protected and long lasting
- Increase nets lifespan
- Fitting to different type of nets
- Recommended distance between the connectors: 30-50 cm



820en



Double Grip [↗](#) 870rd

Connects the net to the cable at the top of the roof.

Advantages

- Easy, rapid installation and dismantling
- Designed for the European market to resist hail damage
- Designed with a broad surface and rounded edges to protect the net against harmful weather conditions
- UV protected and long lasting
- Allows rolled net to be secured with a rubber band (870eb)

Elastic with Ball for Double Grip [↗](#) 870eb

This complementary accessory holds the net as a sleeve, enabling to save precious time at the end of season when dismantling and storage is required.

Advantages

- Quick and easy installation for all types of nets
- Reliability and top quality
- Durability and anti UV
- Specially made to fit product 870rd



870rd



870eb

Radial Net Connector [↗](#) 865rd, 860rd

These accessories have been developed to securely connect netting sheets to the upper cable.

Advantages

- Can be opened and closed easily
- Connecting sheets to each other allows for fast installing and removing
- Improved labor productivity
- Strong and resistant, designed for heavy weight
- Rounded borders to prevent damage of the net
- Reliable
- Long-lasting crop protection
- Easy and quick installation
- Available for all types of anti-hail covering systems
- UV protected and long lasting
- Fits also for 50 mesh net (865rd)



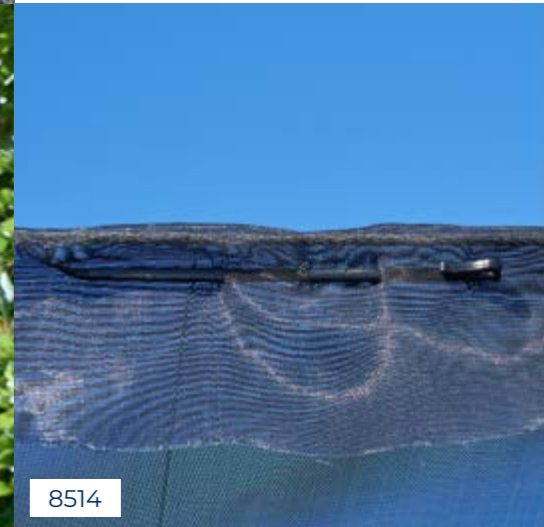
860rd

Pin Connector for Net [↗](#) 8514, 8514-4

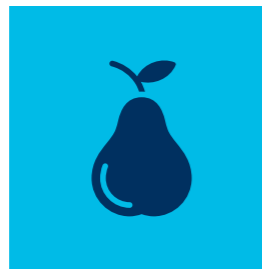
Designed for rapid installation and to connect between nets or to connect net to cable, with no need for additional accessories. The pin connector provides a safe and long-lasting connection.

Advantages

- Quick and efficient installation for all types of nets
- The connecting method and surface area (140mm) ensure net durability
- Equipped with a locking mechanism to prevent the release of the pin
- Reliability and top quality
- Durability and anti UV
- Increases the nets lifespan
- Recommended distance between the connectors: in accordance with the structure requirements
- Can be used with Elliptic Net Connector (820en)



8514





890ov

Oval Ring [↗](#)

890ov

Developed for users of netting sheets who frequently open and close the sheets.

This product connects between the net connectors (830dm, 820en, 8100bh, 8400) to construction cable or between two netting sheets.

Advantages

- Totally closed and therefore ideal for strong winds protection
- An economical solution for connecting nets
- Made of top-quality material with UV protection
- Reliable
- Long-lasting crop protection
- Easy and quick installation
- Improving labor productivity
- Retain the sheets, improving labor productivity
- Gripping force of 100 kg



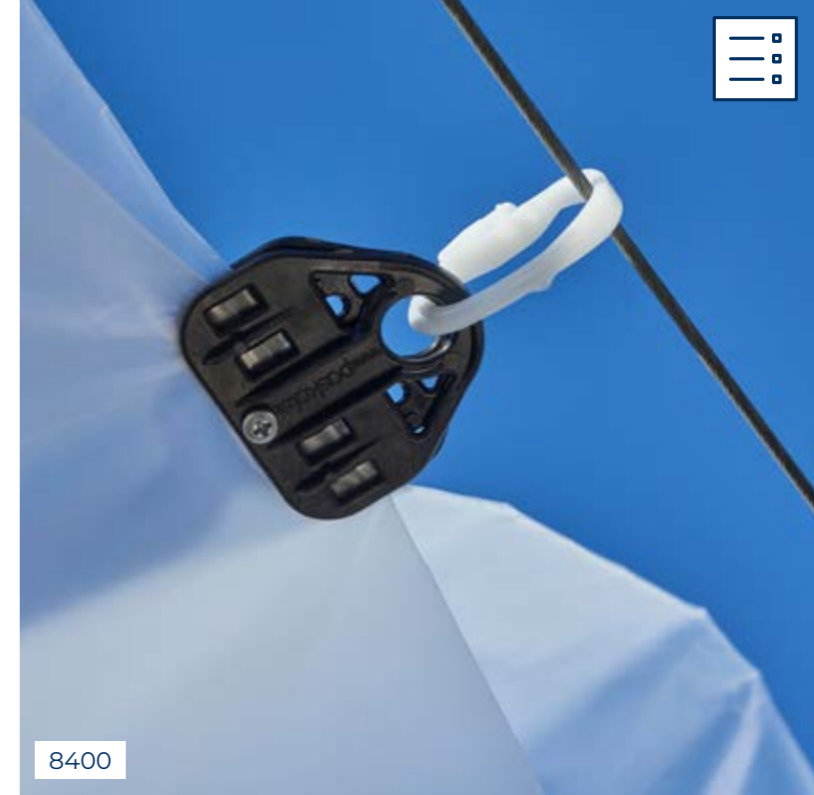
Poly Connector [↗](#)

8400

Specially designed to connect polyethylene film (up to 700µ thick) to the cable, the Poly connector offers a secured grip with a steel screw.

Advantages

- Ongoing crop protection from the weather and any external threats
- Quick and easy installation
- Reliability and top quality
- Durability and anti UV
- Covering film lifespan extension
- Used as an alternative to metal rings
- Does not harm the film and prevents rips
- Broad surface area not to harm the film and prevents rips
- Screw is included for stronger lock



8400



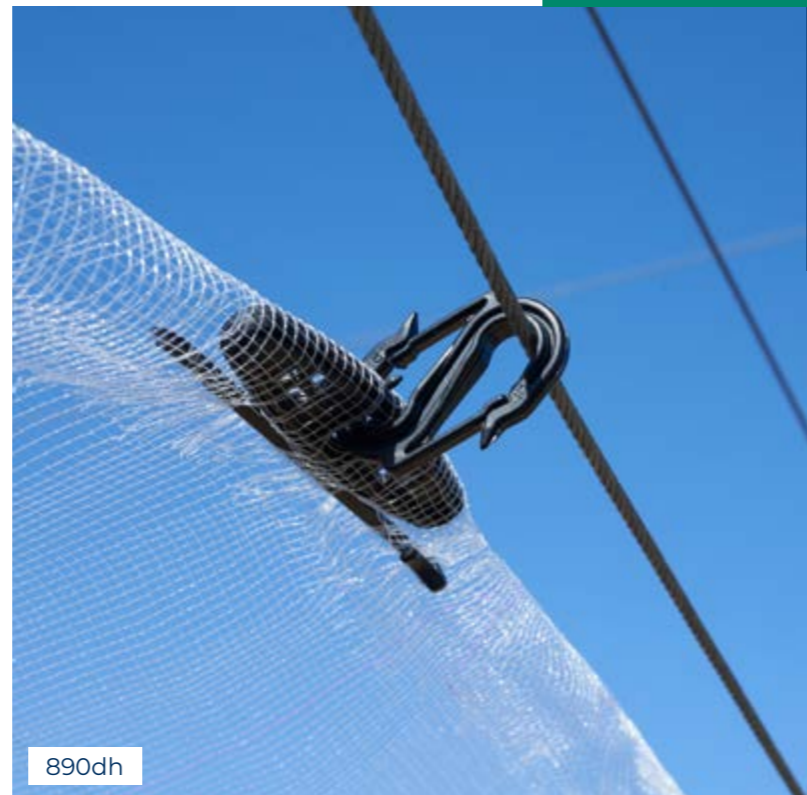
Double Hook [↗](#)

890dh

Paskal's net connector hooks ensure easy dismantling and reinstallation of the nets, while keeping the structure in place.

Advantages

- Opened on both sides, connected to the Diamond connector on one side and to the metallic wire on the other side
- An economical solution for connecting nets
- Made of top-quality material with UV protection
- Reliable
- Long-lasting crop protection
- Easy and quick installation
- Gripping force of 45 kg



890dh





Packaging Information



GREENHOUSE ACCESSORIES

Excluding
Mex

Part Number	Product Description	Family Description	Unit	Box QT	Boxes per high pallet	Boxes per low pallet
540m	Rollerhook - metal part	RollerHook	K	0.55	48	40
540p	Twine spacer - black	RollerHook	K	1.10	24	24
540pw	Twine spacer - white	RollerHook	K	1.10	-	24
541spw12w	Rollerhook white spool 12 white	RollerHook	K	0.55	32	28
541spb25b	Rollerhook black spool 25 black	RollerHook	K	0.55	32	28
541spw25w	Rollerhook white spool 25 white	RollerHook	K	0.55	32	28
541spb32b	Rollerhook black spool 32 black	RollerHook	K	0.55	32	28
541spw32w	Rollerhook white spool 32 white	RollerHook	K	0.55	32	28
541spb36b	Rollerhook black spool 36 black	RollerHook	K	0.55	32	28
541spw36w	Rollerhook white spool 36 white	RollerHook	K	0.55	32	28
542spb17b	Rollerhook black spool 17*2 black	RollerHook	K	0.55	24	24
542spw12w	Rollerhook white spool 12*2 white	RollerHook	K	0.55	32	28
542spb12b	Rollerhook black spool 12*2 black	RollerHook	K	0.55	32	28
511pk9+3b-12	Metal hook 18 cm 9+3 black 1200	Metal Hook	K	0.42	72	64
511pk12+3w-12	Metal Hook 18 cm 12+3 white 1200	Metal Hook	K	0.31	72	64
534h	Rollerplast hook black	Roller Plast	K	0.80	30	24
534hw	Rollerplast hook white	Roller Plast	K	0.80	24	24
531spw9+3w	Rollerplast white spool 12m (9+3) white	Roller Plast	K	0.80	32	28
531spw12+3w	Rollerplast white spool 15m (12+3) white	Roller Plast	K	0.80	32	28
531spb9+3b	Rollerplast black spool 12m (9+3) black	Roller Plast	K	0.80	32	28
531spb12+3b	Rollerplast black spool 15m (12+3) black	Roller Plast	K	0.80	32	28
500mhw	Mini hook - white	Vegetables	K	6.00	36	28
500mh	Mini hook - black	Vegetables	K	6.00	36	28
str1000w	White twine 1000, 6 kg	Twines	kg	6.00	160	160
str1000b	Black twine 1000, 6 kg	Twines	kg	6.00	160	160
str1200w	White twine 1200, 6 kg	Twines	kg	6.00	160	160
str1200b	Black twine 1200, 6 kg	Twines	kg	6.00	160	160
str1500w	White twine 1500, 6 kg	Twines	kg	6.00	160	160
str1500b	Black twine 1500, 6 kg	Twines	kg	6.00	160	160
str650bio	Biodegradable twine - ZO-Visju 5+1	Twines	kg	24.00	28	28
550kc	Tomato clip (23 mm)	Clips	K	10.00	24	20
550kc-12	Optima clip 23 mm	Clips	K	12.00	24	20
550kcT-12	Optima brown clip 23 mm	Clips	K	12.00	24	20
550kcBio-8	Optima clip bio	Clips	K	8.00	36	28
550k-bio	Biodegradable tomato clip	Clips	K	6.00	32	28
550k	Quick tomato clip	Clips	K	9.00	24	20

GREENHOUSE ACCESSORIES

Excluding
Mex

Part Number	Product Description	Family Description	Unit	Box QT	Boxes per high pallet	Boxes per low pallet
551k	Tomato clip - black (UV)	Clips	K	9.00	24	20
551kc	Tomato clip black	Clips	K	10.00	24	20
552kc	Jumbo clip (25 mm)	Clips	K	9.00	24	20
552kc-10	Jumbo clip (optimax)	Clips	K	10.00	24	20
552kcR	Jumbo green clip (25 mm), black color	Clips	K	9.00	24	20
554kc	Cucumber oval clip	Clips	K	18.00	24	20
554kc-natural	Cucumber oval clip, natural	Clips	K	18.00	24	20
554kcR	Green cucumber oval clip, black color	Clips	K	18.00	24	20
554kc-bio	Cucumber oval clip bio	Clips	K	12.00	32	28
560ac	Flexible arch	Supporters	K	17.00	36	28
561ac	Top flex arch 6 mm	Supporters	K	23.00	36	28
561ac-bio	Top flex arch 6 mm biodegradable	Supporters	K	23.00	32	28
5605	Arch - cluster support - 5 mm	Supporters	K	24.00	36	28
5606	Arch - cluster support - 6 mm	Supporters	K	24.00	36	28
560j1	"J-Hook" - cluster support	Supporters	K	15.00	36	28
560j3-19	Optima J -double cluster support	Supporters	K	19.00	36	28
560j4	Agro J hook	Supporters	K	10.00	36	28
560sh	Stem holder	Supporters	K	5.50	36	28
6100h	Hard flower marker - variety of colors	Flower Markers	K	50.00	56	48
6100s	Soft flower marker - variety of colors	Flower Markers	K	50.00	56	48
6200s	Cherry marker - variety of colors	Flower Markers	K	100.00	56	48
505rdb	Radial Hook - black	Vegetables	K	2.00	36	28
505rdw	Radial Hook - white	Vegetables	K	2.00	36	36
502ch	ClipHook	Vegetables	K	5.00	36	28
505ch	Scorpion hook	Vegetables	K	2.30	24	20
505ch-b	Scorpion hook black	Vegetables	K	2.30	24	20
5043m	Greenhouse metal hook	Vegetables	K	0.50	100	100
5525	Tomato clip (27 mm)	Vegetables	K	5.00	30	24
5700	Pepper support (9 cm)	Vegetables	K	5.50	36	28
5707	Pepper support (6.0/7.5)	Vegetables	K	9.00	36	28
5800	Courgette clip	Vegetables	K	3.50	36	28
5806	Courgette clip (short)	Vegetables	K	6.00	36	28
4420	First clip 20 mm	Nurseries	K	13.00	36	28
420	Seedling clip 20 mm	Nurseries	K	20.00	36	28
420-bio	Seedling clip 20 mm bio	Nurseries	K	20.00	32	28
570ge	Greenhouse evaporator	Vegetables	ea	12.00	36	28



VINEYARD & ORCHARD PRODUCTS

Excluding
Mex

Part Number	Product Description	Family Description	Unit	Box QT	Boxes per high pallet	Boxes per low pallet
1107	Multi-purpose connector 70 mm	Vineyards & Orchards	K	10.00	56	48
1110	Multi-purpose connector 100 mm	Vineyards & Orchards	K	8.00	56	48
1117	Multi-purpose connector 170 mm	Vineyards & Orchards	K	8.00	36	28
1313	Lock-Fix	Vineyards & Orchards	K	1.00	48	48
1315	Fix-clip (3.0/13.0)	Vineyards & Orchards	K	3.00	48	48
1318	Short bamboo wire-strake locking	Vineyards & Orchards	K	1.50	48	48
1320	Pheromone twist - tie hook - variety of colors	Vineyards & Orchards	K	10.00	56	48
3200	Vine chain 30 cm	Vineyards	K	2.50	56	48
3220	Vine chain 20 cm	Vineyards	K	2.50	56	48
3500	Vine clip	Vineyards	K	6.00	36	28
3805	Vineyard rubber band - 5 cm	Vineyards & Orchards	K	15.00	30	30
3808	Vineyard rubber band - 8 cm	Vineyards & Orchards	K	12.00	30	30
3810	Vineyard rubber band - 10 cm	Vineyards & Orchards	K	4.50	30	30
3812	Vineyard rubber band - 12 cm	Vineyards & Orchards	K	4.50	30	30
31cb10	Vine clip cb10	Vineyards	K	20.00	48	48
31cb15	Vine clip cb15	Vineyards	K	20.00	48	48
31cb20	Vine clip cb20	Vineyards	K	15.00	48	48
7016	Peg for 16 mm pipe - black	Irrigation	K	1.00	56	48
7020	Peg for 20 mm pipe	Irrigation	K	1.00	56	28
7116	Fixed drop holder with hook 16 mm	Irrigation	K	6.00	32	28
7120	Fixed drop holder with hook 20 mm	Irrigation	K	6.00	36	28
9440	Plant protector 40 cm	Plant Protector	K	0.10	43	43
9460	Plant protector 60 cm	Plant Protector	K	0.10	30	30
9480	Plant protector 80 cm	Plant Protector	K	0.10	21	21
1200	"Spread Lok" anchor	Vineyards & Orchards	K	2.00	50	50
120M	"Spread Lok" applicator	Vineyards & Orchards	ea	*1.00	0	0

* One unit not packed in a box.

NETTING ACCESSORIES

Excluding
Mex

Part Number	Product Description	Family Description	Unit	Box QT	Boxes per high pallet	Boxes per low pallet
8100	Net connector	Net Connectors	K	0.80	56	48
8100bh	Net connector bh	Net Connectors	K	0.80	56	48
8200	Net connector with bridge	Net Connectors	K	1.00	36	28
830dm	Diamond net connector	Net Connectors	K	0.80	36	28
820en	Elliptic net connector	Net Connectors	K	1.00	56	48
870rd	Double grip	Net Connectors	K	1.00	24	20
870eb	Elastic with ball for double grip	Net Connectors	K	0.50	40	40
860rd	Radial net connector	Net Connectors	K	1.10	24	20
865rd	Radial net connector for 50 mesh	Net Connectors	K	1.00	32	28
8514	Pin connector for net - 140 mm	Net Connectors	K	4.50	48	48
8514-4	Pin Connector for net - 140 mm	Net Connectors	K	4.00	32	28
8514s-4	Strengthened pin connector for net - 140 mm	Net Connectors	K	4.00	32	28
890dh	Double hook-acetal	Net Connectors	K	2.00	48	48
890ov	Oval ring	Net Connectors	K	3.50	48	40
890vw	Multi purpose hook	Net Connectors	K	4.00	48	48
8400	Poly connector	Net Connectors	K	0.40	56	48





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