

Pasture fence catalog 2022

Safety and security for your animal



New products

Discover our strong new products.

Page 8

New design

We have optimized the design of our energizers.

Page 6

Greenline

Focus with us on sustainability: Discover our green line.

From page 10



Carrier Box

14906, page 80

Polywire turbomax

17140, p. 142

hotshock AN490

10813, page 45

Our product highlights from the cover



New Product:
horizont presents its new
products with unique
features



Top Seller:
The unbeatable action
prices for selected
products



Best Choice:
Excellent products
which have a particularly
high efficiency



Wolf Control:
Excellent products
which are particularly good
for wolf defense

NEW

*Our new products
can be found on page 8*



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HORIZONT GROUP GMBH

A SUCCESSFUL HISTORY

“The family business horizont has existed for more than 75 years and has developed from a one-man operation to a Europe-wide group of companies. Social responsibility and responsible action are lived values at horizont, more now than ever.”



Innovations

The first battery-powered energiser was invented by horizont and, in doing so, laid the foundation stone for a new era in location-independent pasture management. It was later that horizont developed the first environmentally conscious, solar-powered energiser and brought a new technical novelty onto the market.

Through consistent Research and Development of new technologies and applications, many new products have been steadily introduced over the last 75 years which have set standards in the respective markets. Innumerable patents, utility models and trademarks clearly reflect this.

Tradition

The successful history of horizont began in 1945 as a one-man workshop. Livestock owners brought their energisers to Dr. Heinz Müller to be repaired. In doing so he established that some designs were potentially deadly and took the opportunity to develop energisers himself – to the benefit of people and animals. During the following decades horizont developed to become one of the most important manufacturers of pasture fence products worldwide and is behind numerous innovations and patents in this branch. In the meantime horizont has grown continuously as an owner-managed company – over three generations – and offers thousands of articles in the fields of the pasture fence and animal husbandry.

Today horizont is group of companies with locations in a number of European countries and exports products with the quality seal “Made in Germany” worldwide to over 50 countries. Horizont will also stand in the future for the values “Tradition & Continuity”, “Innovation & Quality” as well as “Service & Consultancy” and is therefore a competent and reliable partner for livestock owners worldwide.

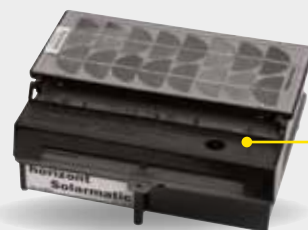
Naming the company

Every pilot knows it: The artificial horizon in an aircraft cockpit. The then development team of today’s technical standards also belonged to the electrical engineer Dr. Heinz Müller. As Dr. Müller later was looking for a new field of activity, and in 1945 founded his own company, he named in “horizont” in memory of this discovery.

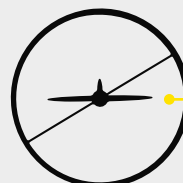
Smart devices with the latest technology



The first battery-powered energiser



The first environmentally conscious, solar-powered energiser



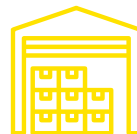
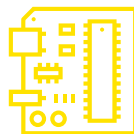
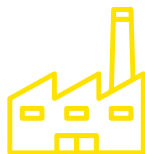
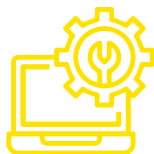
Every pilot knows it:
The artificial horizon.



From generation to generation: from left to right: The company was founded by electrical engineer Dr. Heinz Müller.; Dipl. Ing. Robert Müller took over the company management; Dipl.-Kfm. Steffen Müller is now in the 3rd generation in the senior management team.

An all-round carefree package: Everything from one source

horizont energisers and accessory products are developed according to the latest technical standards in Germany. All production steps for the manufacture of electronic components and virtually all plastic products take place in the production facilities in Germany located in Korbach.



Development
& Design

Toolmaking
& Injection Molding

Circuit Board
Assembly

Printing Techniques
& Marketing

Logistics
& Dispatch

horizont in numbers



1945
Founding



> 500
Employees



7
locations
in Europe



~ 30
Apprentices



> 40,000 m²
of production
and storage space



NEW

POWER OUTPUT

WITH A STRONG APPEARANCE

Apart from our previous design, one can also obtain horizont energisers in the trade in a new look with a fresh appearance. No matter what the design: You receive the tried and tested horizont quality! Made in Germany.

New design, new advantages:

- The **new animal graphics** allow one to quickly and intuitively select the appropriate device.
- Also the new, **simple classification of the device series** provides a transparent overview of the scope of performance and recommended use of the devices. A benefit for all
- Something has also happened optically: The **simplified design** not only delivers the most important information. Adaptation of the color tones brings more contrast and overview.



Power & Extras

turbomax®



ranger®



hotshock®



farmer®



trapper®



More information

... about all of the energiser series and their range of functions can be found on page 22.

QUALITY

NEW PACKAGING



NEW
PRODUCT

NEW

FOR A STRONG PERFORMANCE

NEW



10983



10984

ABN turbostrong

The practical ABN devices with a rechargeable battery, battery and mains power supply socket are now available, which are even more powerful than ranger ABN60 and turbomax ABN80.

P. 34



10813

Rechargeable battery-power supply unit with 5 joule

The popular and particularly powerful hotshock series has supplemented the rechargeable battery-power supply unit AN490.

P. 45

Anti-wildlife function

Blue hotshock tapes and polywires.

P. 141

17149



17211



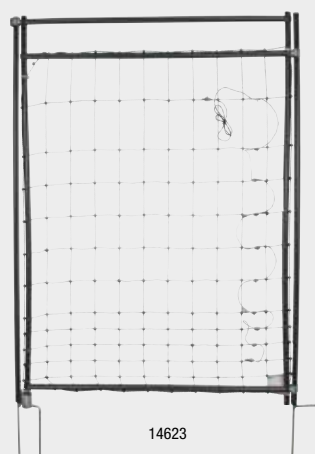
ABN30 GREEN

The first energiser which has a housing made out of bio-based plastic.
P. 28

More information about GREENLINE and sustainability at horizont can be found on page 10.



i



Safety and security without gaps

Using the new electrifiable Hot Gate for poultry netting one can very simply install a gate in poultry netting.

P. 119

Pigeon deterrent

Protection against pigeons with solar power.

P. 65



THE FUTURE IN OUR HANDS.



The first step in the direction of sustainability and the first step for continuing into the future. WE as horizont see ourselves as having the duty to be active. We can further develop together.

Sustainability is close to our heart. Therefore we are increasingly working with recycled materials, drive innovation with circular economy products and undertake, step by step, ever more to reduce our CO2 footprint. Our product and packaging design should not hinder these goals in any way. It was therefore time to design these in a more sustainable way. And we naturally wish to take this opportunity to also bring in our aesthetic sense.

SMALL STEPS LARGE GOALS

The first of the Green Line range is here.



100% BIOBASED.

ABN30 GREEN

Globally the first energiser made out of bio-based plastic.

Further information on p. 28.



The product range with ecological, environmentally friendly troughs and feeding devices for keeping poultry. Manufactured out of sugar cane and sugar beet.

This is just the beginning.



We are working every day to design our products and production processes to be sustainable for the environment and society. You will also profit from this: Look forward to many more new and sustainable products in the Greenline.

i



HORIZONT ENERGISERS WITH **SAFETY & WARRANTY**

**+1 YEAR
WARRANTY
AND MORE!**

Up to a 5 year warranty on horizon Energisers!



+1

Extension of the warranty

Register online up to 3 months after the purchase date and secure a extension of the warranty free of charge!

🔗 www.horizont.com/warranty



Repair service

Good service plays a major role at horizon. Whether in Sales or in the company's own repair workshop - at horizon there are experts available to you to assist and advise you. If, despite everything, there is onetime a defect or damage to a device (for example due to a lightning strike, moisture ingress or a similar occurrence), the technical service from horizon is available to you without delay. Many of horizon's specialist trade partners can repair your device on-site thanks to its simple modular construction or have your device repaired in the service center in Korbach, and will bridge the short repair time by lending you a device (usually about 48 hours). During the subsequent safety testing, all components of the device are checked and you receive a one-year warranty on the complete device!

🔗 www.horizont.com/reparatur



Reliably checked

All horizon energisers are subjected to an at least 24-hour continuous test - safety which you can rely on. Only those products which fulfil all of the quality criteria are accepted into the product range. Checking takes place according to pertinent EU guidelines and the safety standard EN60335776, and production is according to DIN EN ISO 9001.

EVERYTHING TO DO WITH AN ANIMAL **A STRONG PARTNERSHIP**



Do you need further products in the area of animal husbandry?

No problem: We offer a extensive range of products for animal husbandry. Together with our partner UKAL we can offer a wide range of products which satisfy all requirements.

Since January 2019 horizont group GmbH and UKAL ELEVAGE have been working together on an international level. So you can profit from a wide range of products, short delivery times and optimal availability.

See for yourself the extensive animal breeding product range:
www.agrar.horizont.com





Specials

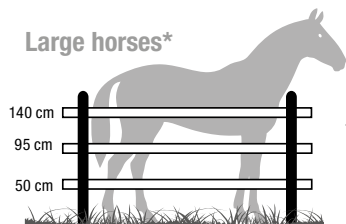
Recommended fence and netting heights

FENCE AND NETTING HEIGHTS

OUR RECOMMENDATION

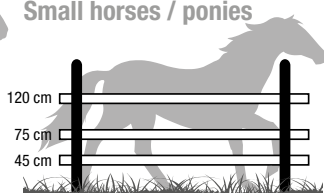
Animal husbandry

Large horses*



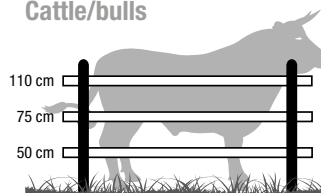
Fence height: 140 - 160 cm
Conductor material: tape
Number of conductors: 3

Small horses / ponies



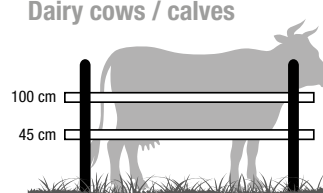
Fence height: 120 - 140 cm
Conductor material: tape
Number of conductors: 3

Cattle/bulls



Fence height: 100 - 110 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 3

Dairy cows / calves



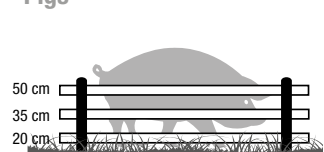
Fence height: 85 / 110 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 2

Sheep / goats



Fence height: 90 / 120 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 5

Pigs



Fence height: 50 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 3

Cats / dogs / poultry



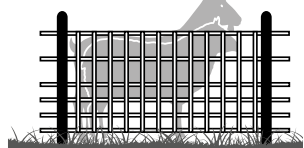
Fence height: 80 / 105 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 4

Hares / rabbits



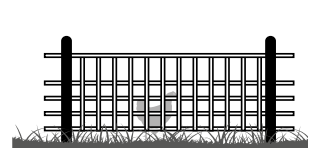
Fence height: 50 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 4

Sheep / goats



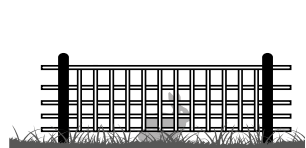
Netting height: 90 - 45 cm

Poultry



Netting height: 105 cm

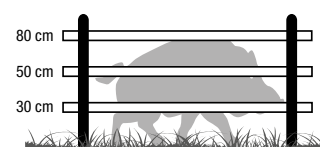
Hares / rabbits



Netting height: 50 - 75 cm

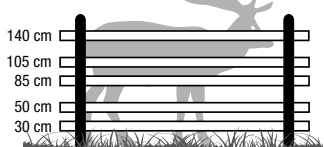
Anti-wildlife function

Wild boars



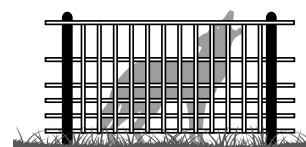
Fence height: 80 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 3

Red deer



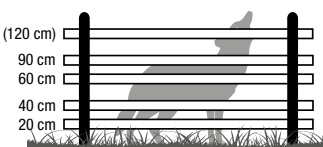
Fence height: 140 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 5

Wolves

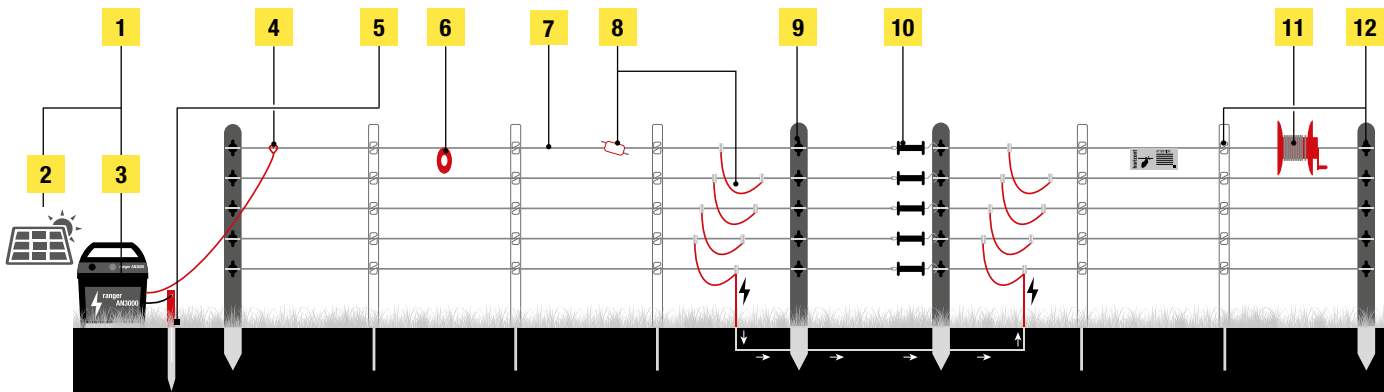


Netting height: 90 / 120 cm

Wolves



Fence height: 90 / 120 cm
Conductor material: tape, rope, polywire, wire
Number of conductors: 5



What equipment is needed for a permanent or mobile fence?

| <input checked="" type="checkbox"/> | What? | Page | Why? |
|-------------------------------------|--|-----------|--|
| <input type="checkbox"/> | 1 Energiser | 16 - 67 | The device sends a pulse into the fence. These pulses create the deterrent for the animal on the pasture fence. |
| <input type="checkbox"/> | 2 Solar solutions | 81 - 85 | Use the energy of the sun for 9 V battery powered devices and 12 V rechargeable battery powered devices. Save on battery costs and tedious recharging of the rechargeable battery. |
| <input type="checkbox"/> | 3 Energy supply | 68 - 87 | The suitable power source for your energiser: Rechargeable battery, battery, the power supply network, solar, or also a combination of these is possible. |
| <input type="checkbox"/> | 4 Connection material Lightning arrester, switch | 95 - 97 | Creates the electrical connection from the device to the fence. Lightning arresters are a must for power mains operated energiser. |
| <input type="checkbox"/> | 5 Earthing | 92 - 94 | The energy flows over the earthing post and the connecting cable out of the ground, back into the energiser. |
| <input type="checkbox"/> | 6 Checking devices Additional devices, warning signs | 98 - 101 | Checking devices are necessary for meaningful fence checking – they simplify the legally prescribed checking of the function of the fence. |
| <input type="checkbox"/> | 7 Conductor material Tapes, polywires, ropes, wires | 124 - 145 | Carries the electrical pulse in the fence. The conductor is not insulated and is routed open to create a good contact to an animal. |
| <input type="checkbox"/> | 8 Connecting and tensioning | 146 - 149 | The conductor material can be fixed in place, electrical conductive, by connectors. The connect tensioner ensures a tautly stretched conductor to avoid injuries to animals. |
| <input type="checkbox"/> | 9 Insulators | 174 - 197 | They hold the conductor material, well insulated, in position. The correct insulator should be the one suitable for the conductor material. |
| <input type="checkbox"/> | 10 Gate handles and sets | 198 - 204 | A gate is usually used multiple times daily and should be constructed to be user-friendly. |
| <input type="checkbox"/> | 11 Reels | 150 - 151 | A mobile fence or mobile sub-sections can be rapidly and simply assembled and disassembled using a reel. |
| <input type="checkbox"/> | 12 Posts | 152 - 173 | Plastic or metal posts with insulators hold and guide the conductor material along the fence and to the ground. We recommend stable wooden posts for gates and corners. |

*Do you need any support building a fence?
Then take a look at the horizon YouTube channel sometime!*



www.horizont.com/mobilzaun



www.horizont.com/festzaunbau



*Nettings can be
found from page
102*



02 | **ENERGISERS**

The heart of an electric pasture fence system is the energiser. An energiser which produces a suitable output securely supplies the electric fence system with pulses which ultimately deliver an adequate deterrent effect.

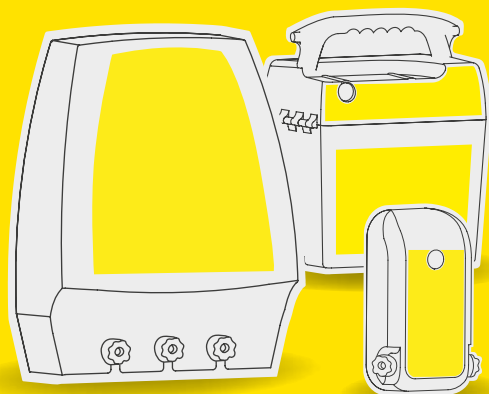
| | |
|--|--------------|
| Guide Interesting facts about energisers | S. 18 |
| An overview of the product series Find the correct product series for each application | S. 22 |
| Product guide The whole product range in a quick comparison | S. 24 |

PRODUCT RANGE

| | |
|--|--------------|
| Battery powered devices 9 V (combi / dual) | S. 27 |
| Greenline | S. 28 |
| Battery powered devices 12 V (combi / dual) | S. 36 |
| 230 V power mains operated energiser | S. 51 |
| Solar devices | S. 61 |
| Special devices | S. 57 |



INTERESTING FACTS ABOUT **ENERGISERS**



What does the energiser do?

- The device sends out short pulses of an electrical current which flow along the fence and remain unused if the fence is not touched by animals or the current drained away.
- The duration of the pulse is only 0.1 to 0.3 thousandths of a second and they are sent out every 1.15 to 2.0 seconds.

Why a closed circuit?

The circuit must be designed in such a way that it is closed by an animal touching it. It is also important to ensure that the current remains in the fence and is only ever used by touching of the fence by an animal.

What is the earthing?

- The earthing is the "counterpiece to the uncovered conductor material" in the fence.
- Through the effect of the ground and the earth stakes, the energy emitted by the device is led back into the device. The circuit is closed over the earthing if something touches the fence.

A tip: Earthing for dry ground

Earthing: The number of earth stakes quoted is for damp ground. The number of posts may need to be increased when it is dry, in summer.

What happens when an animal touches the fence?

- The animal closes the circuit. The pulse sent out by the energiser flows through the conductor material, the animal's body, the earth and the earth stakes back into the energiser. In a similar manner to a light switch, the animal or vegetation closes the circuit and the energy flows.
- The animal learns to accept the fence as a barrier.



horizont-service for you:

You receive a two to five year warranty on all horizont devices.

PREMIUM QUALITY MADE IN GERMANY

All horizont devices are made in Germany and are therefore characterized by **Premium quality.**

What have joule & volt to do with this?

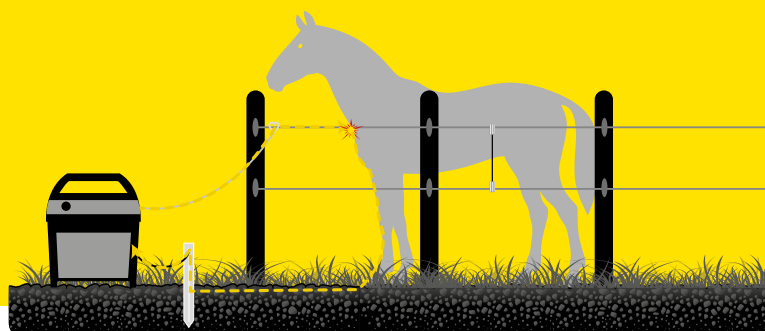
- The energy which is put into the fence is quoted in joules. The higher the value the greater the electric shock. Joules hurt!
- The voltage of the fence is measured in volts. The voltage is needed to penetrate through the insulating coat of the animal. Only then can the energy jump over to the animal. Voltage is the deliverer of that which hurts!

Why use a high quality conductor material ?

- The conductor material is the actual fence, that is the material consisting of strips, cables, strands or wire.
- The conductor material transports the current and forms the barrier for the animals. The better the material, the more current flows through the fence.
- Saving on the conductor material means practicing a false economy. A poor conductor material can, in cases of doubt, cause too much energy to be lost with the end effect that the fence does not receive any more current.
- Never knot your conductor material! Too much energy will be lost. Only use a suitable connector to guarantee the current flow.

Is high grass at the fence a bad thing?

- Yes because the grass or other vegetation diverts energy away from the fence and the fence loses energy.
- Where (high) vegetation is present the fence lengths are reduced as follows:
For medium sized growth:
Up to about 50% of the quoted fence length*
For strong growth:
Up to about 20% of the quoted fence length*



How far should the posts be spaced apart?

The following spacings between posts have proven appropriate in practice to ensure that the conductor material is optimally fastened:

- **Polywires and wires:**
6 m to 8 m (according to the material's own weight)
- **Tapes:**
3 m (for 40 mm wide strips), 5 m (for 20 mm wide strips), 6 m to 8 m (for 10 mm wide strips)
- **Electric rope:**
4 m (for a 6 - 8 mm diameter), 6 m (for a 5 - 6 mm diameter)
- **The terrain**

Take note of the local conditions! More posts will be needed if the terrain is very uneven to allow the conductor material to be mounted parallel to the ground.

What else is there to observe?

- **Important:** Never run an electric fence system and netting without an energiser!
- **Conductivity:** Particularly with high impulse energies, ensure to use a conductor material with a high conductivity and good earthing.
- **Connectors:** Never knot your conductor material - only use a suitable connector to guarantee the current flow (p. 146).
- **Warning signs:** On safety grounds you are legally required to attach this clearly visible sign, printed on both sides (p. 100) on your electric fence.
- **Circuit:** The fence must not be constructed as a closed circuit - the circuit is closed when an animal touches it.
- **Daily checking using fence testers** (p. 198)

Notice

The device features with explanations can be found on the respective product in the catalogue or over the short link for the respective device on the horizont website. Use the following link to obtain a general overview of all device features:

www.horizont.com/wzgfeatures

A tip

One thing should never be forgotten: The best energiser is useless if it is attached to a faulty fence!

How does an energiser work?

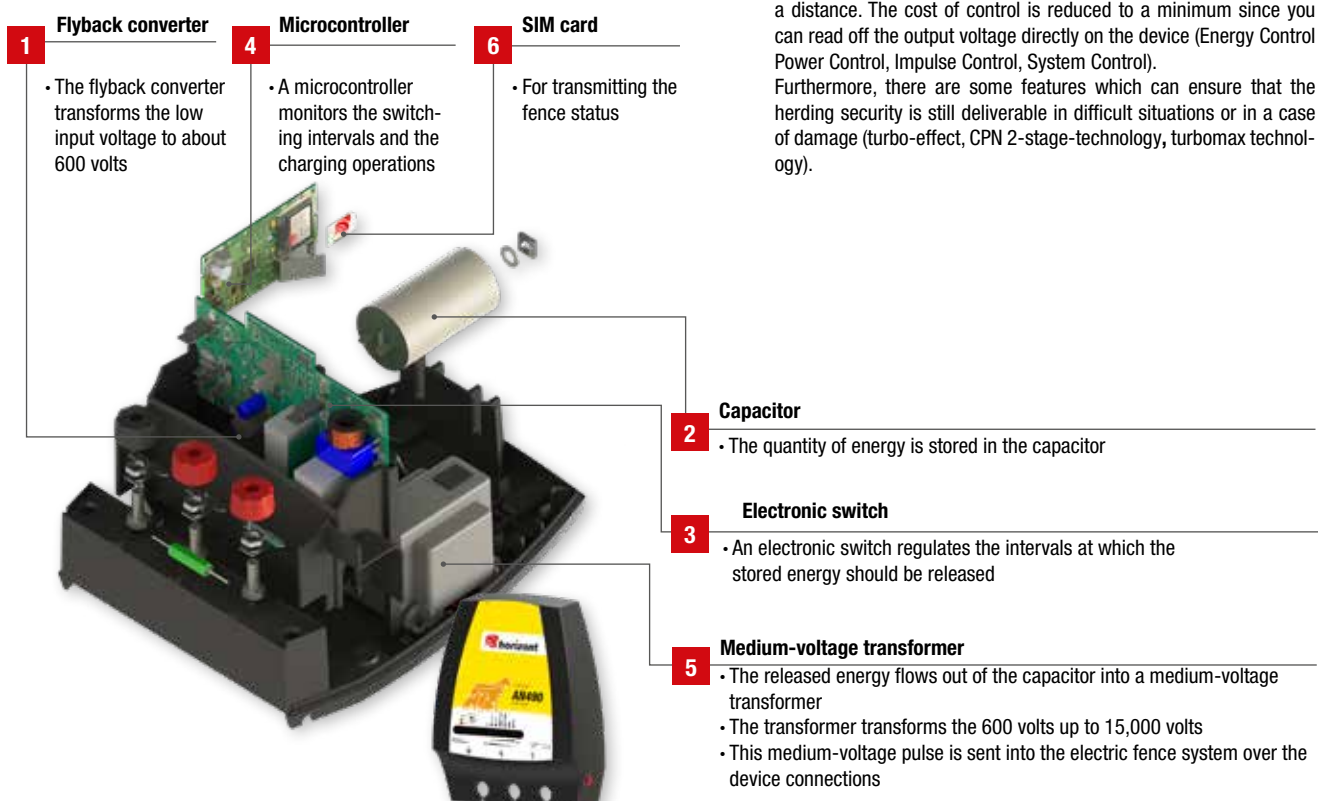
The energiser is supplied with power from the power supply network, a battery or a rechargeable battery (partly supported by solar energy). Once the device is earthed and connected to a fence, an open circuit is created. The circuit is subsequently closed over an animal when the animal touches the fence: The current flows from the fence through the animal to earth. In order to exclude the risk of a dangerous electric shock, the energiser sends the charge in the form of pulses to the fence. A high voltage must be generated for the current to flow over the animal. Also the energy must be "portioned" so that no dangerous current can flow at a high voltage.

What additional functions does a horizont energiser offer?*

horizont energisers are fitted with various, also automatic, functions. These guarantee you simple and flexible adaptation to your respective type of application, fence quality and vegetation growth. Furthermore, you can manage with less batteries over the whole electric fence season since many devices are fitted with a power saver feature (ECO Power).

The premium products are made out of a particularly stable and weather-resistant plastic. They are spray-water protected, well insulated electrically as well being suitable for high operating temperatures in sunlight. Some energisers are fitted with an LED display which provides information about the status of the fence, even from a distance. The cost of control is reduced to a minimum since you can read off the output voltage directly on the device (Energy Control Power Control, Impulse Control, System Control).

Furthermore, there are some features which can ensure that the herding security is still deliverable in difficult situations or in a case of damage (turbo-effect, CPN 2-stage-technology, turbomax technology).



* The scope of functions differs between the different housing types and energy supplies

All prices are inclusive statutory VAT.



Selection of the correct energiser

What power supply is needed?

horizont differentiates between 9 V battery powered devices, 12 V rechargeable battery powered devices, 230 V power mains operated energiser and solar devices. Many devices also combine different types of energy supply in order to offer more security and flexibility in their use. horizont also offers different housing forms which are reflected in the operating mode. The main difference lies between stationary housing forms for mounting on a wall and mobile housing forms for easy transport. Please see p. 24/25 for an overview.



Battery device
9 V



Rechargeable
battery
12 V



Mains powered
device
230 V



Solar device

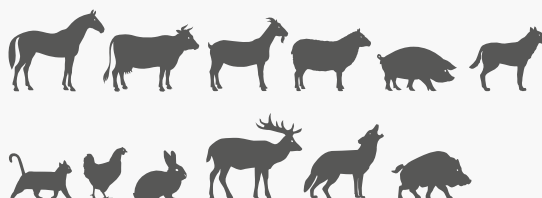
How large is the area to be fenced in?

The fence length is important for the selection of the correct energiser, but also the conductor material. The performance of the energiser and the conductivity of the conductor material must match each other! horizont has summarized together the products which match with each other, in series, in order to simplify selection of suitable products. You can find an overview on p. 22. Please note that the lengths quoted are always those required under optimal conditions and do not take account of any faults and vegetation. For example, part of the energy will be diverted out the fence into the ground where there is higher vegetation present and is therefore not able to contribute to the herding performance.



What animals need to be herded?

Every animal has particular natures and reacts differently to the current pulse. The sensitivity and also the hairiness of the animals is important for correct construction of the fence. horizont has developed special pulse forms for different situations in order to provide herding security for every type of animal and every fence situation. The type of animal a device is recommended for is easy to recognize from the animal symbol:

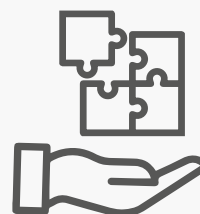


What additional functions do a horizont device offer?*

Every device has individual properties and additional functions which are advantageous according to the area of application. Some are to be found in their housing form while others are technically installed.

You can find these on the product pages under "Special features" or discover them further in our practical overview on p. 22 or under the following link:

 www.horizont.com/wzgfeatures



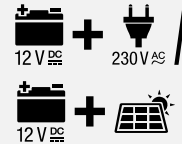


Being on the safe side with the horizont dual system



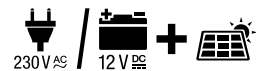
Dual

Dual devices are primarily driven by a 12 volt or a 9 volt supply. The devices can also be connected over a plug-in power supply to 230 V. The 12 volt rechargeable battery then serves as a backup rechargeable battery and is charged over the plug-in power supply. If the 230 volt power network fails, the devices can continue to operate without interruption over the rechargeable battery or the battery. Furthermore, the devices can also be powered by a solar panel in combination with a 12 volt rechargeable battery or a 9 volt battery.



Combi

Combined devices in the rechargeable battery devices range can be powered through connection to the 230 V power supply network or to a 12 V rechargeable battery. Combined devices in the battery devices range can be powered through connection to a 12 Volt rechargeable battery or a 9 Volt battery. Also a solar panel can be directly connected to the 12 V rechargeable battery or over the energiser to the 9 V battery.



! Working safely with AN energisers: Protection against the risks of fire, blazes and lightning

If used within a building the device must not be installed in fire hazardous work areas such as barns and should also be protected against mechanical damage and remain outside the reach of children. In order to protect against lightning damage, an earthed lightning protection device must be professionally installed in the fence power supply line or before the introduction into a building.

Extensive information can be found in our safety instructions:
www.horizont.com/Secura



An overview of the

PRODUCT SERIES

The innovative series idea

The right product series for every application:

The horizon electric fence series cover all applications: from hobby to professional. The components of a series guarantee an optimum interaction. Starting from the starter level series trapper® through to the premium series turbomax®, horizon offers the optimum solution for every application, whether for keeping cattle, horses, sheep/goats or small animals.

Almost all of the energisers are manufactured in Germany and pass through multi-stage Quality Assurance during production which is certified according to DIN EN ISO 9001. This offers you the greatest possible security both in using individual components as well as when using the whole finished product.

The device features with explanations can be found on the respective product in the catalogue or over the short link for the respective device.

A series overview:

Power & Extras



★★ farmer®

Ideal for calm grazing animals and normal operating conditions

The farmer® energiser series encompasses our Allrounder for pasture grazing. It is the optimum solution for calm grazing animals who can be held under normal operating conditions. There are also many devices in this series which have a dual function.

- The special pulse form develops gently in the fence system
- The high output voltages offer huge herding security

The most important features*:

- Polycarbonate
- An ON/OFF switch
- Energy Control (display of the battery/rechargeable battery performance)
- ECO Power (power saver feature)
- A very stable housing
- Power Control (pulse control)



★ trapper®

Ideal for small, simple electric fence systems

Our trapper® series is suitable for beginners and hobby livestock owners. For small and simple electric fence systems, the trapper energisers provide the optimum operation site.

- Simple handling; easy to install
- A compact housing; multiply deployable
- The output energy is set for the most frequent applications such as keeping horses

The most important features*:

- An ON/OFF switch
- Energy Control (display of the battery/rechargeable battery performance)
- A very stable housing
- Power Control (pulse control)





★★ hotshock®

Ideal for robust animals and for an anti-wildlife function

This series is excellent for repelling robust animals or for keeping long-haired and feathered animals. hotshock® energisers can therefore be used for keeping sheep and goats in a combination with netting. They control every difficult situation and are therefore also used as special solutions for repelling wildlife.

- Strong devices with the maximum output energy
- The special pulse form allows one to achieve a special level of herding security under the most difficult conditions

The most important features*:

- Polycarbonate
- An ON/OFF switch
- Energy control (display of the battery/rechargeable battery performance)
- ECO power (power saver feature)
- Impulse control (cycle sequence monitoring)
- A very stable housing
- Two fence outputs
- Power control (pulse control)



★★★ ranger®

For the highest demands and dry lands

Our professional series for the highest demands and dry location conditions. The ranger® energisers are optimally suitable for use with grazing animals such as cattle or horses. There are also many devices in this series which have a dual function.

- Device functions can be adjusted according to the situation and fencing requirement
- The special pulse form develops gently in the fence system
- A high herding performance, also in summer drought conditions

The most important features*:

- Polycarbonate
- An ON/OFF switch
- System control (Argutector fence control)
- Energy control (display of the battery/rechargeable battery performance)
- ECO power (power saver feature)
- 6-stage voltage indicator
- Impulse control (cycle sequence monitoring)
- A very stable housing
- Voltage regulator (rotary potentiometer)
- Two fence outputs
- Six modes function



★★★ turbomax®

A strong performance to meet the highest demands

Our Premium series for extreme and very special high demands. The turbomax® energisers are very powerful devices and are suitable for extremely long fences. turbomax energisers can be used as a herding system for virtually all types of animal.

- Important safety features and functions which are very useful for the user
- A special safety circuit which increases the power output if necessary

The most important features*:

- Polycarbonate
- An ON/OFF switch
- System control (Argutector fence control)
- Energy control (display of the battery/rechargeable battery performance)
- ECO power (power saver feature)
- 6-stage voltage indicator
- Turbo effect
- LED display
- Alarm function
- 2-stage-technology CPN
- Impulse control (cycle sequence monitoring)
- A very stable housing
- turbomax technology





ENERGIZERS



9 V battery powered devices

| Dual / combi | Number possible netting every 50 m | According to CEE* | Without any vegetation | With medium-height vegetation | With high vegetation | Animal husbandry | | | | | | | | Product | | |
|--------------|------------------------------------|-------------------|------------------------|-------------------------------|----------------------|------------------|---|---|---|---|---|--|---|---------------------|----------|------|
| | | | | | | | | | | | | | | Designation | Item No. | Page |
| Dual | 2 | 9.5 km | 5.5 km | 3.8 km | 0.9 km | • | • | | | • | | | • | ABN30 GREEN | 10862 | 28 |
| Combi | — | 3 km | 1.5 km | — | — | • | | | | • | | | | ★ trapper® AB12 | 14497 | 29 |
| Combi | — | 4 km | 3 km | 1 km | 0.3 km | • | • | | • | • | | | | ★ trapper® B12 | 10616 | 31 |
| Combi | — | 8 km | 5 km | 3.5 km | 0.8 km | • | • | | • | • | | | | ★ trapper® B22 | 10620 | 31 |
| Dual | 2 | 9.5 km | 5.5 km | 3.8 km | 0.9 km | • | • | | | • | | | • | ★★ farmer® ABN30 | 10891 | 32 |
| Dual | 3 | 10 km | 6 km | 4 km | 1.1 km | • | • | • | | | • | | • | ★★ hotshock® ABN37 | 10892 | 33 |
| Dual | — | 12 km | 6.5 km | 4.5 km | 1.3 km | • | • | | • | • | | | • | ★★★ ranger® ABN60 | 10983 | 34 |
| Dual | 3 | 13 km | 7 km | 4.9 km | 1.4 km | • | • | • | • | • | | | • | ★★★ turbomax® ABN80 | 10984 | 35 |



12V battery powered devices

| | | | | | | | | | | | | | | | | |
|-------|----|--------|-------|--------|--------|---|---|---|---|---|---|---|---|-------------------------|-------|----|
| Combi | 3 | 8 km | 4 km | 2 km | 0.2 km | • | • | • | • | • | • | • | | ★ trapper® AN45 | 10867 | 39 |
| Combi | 4 | 12 km | 8 km | 3.5 km | 1.2 km | • | • | • | • | • | • | • | | ★ trapper® AN80 | 10866 | 39 |
| Combi | 6 | 18 km | 12 km | 4.5 km | 1.5 km | • | • | • | • | | • | • | | ★ trapper® AN120 | 10865 | 39 |
| Dual | 6 | 30 km | 10 km | 3.5 km | 1.2 km | • | • | • | • | • | | | • | ★★ farmer® AN100 | 10896 | 41 |
| Dual | 10 | 50 km | 15 km | 4.5 km | 1.7 km | • | • | • | • | | | | • | ★★ farmer® AN200 | 10897 | 41 |
| Dual | 12 | 80 km | 18 km | 4.8 km | 1.9 km | • | • | • | • | | | | • | ★★ farmer® AN300 | 10882 | 41 |
| Dual | 6 | 40 km | 10 km | 3.5 km | 1.2 km | • | • | • | • | | | | • | ★★ farmer® AN1000 | 10855 | 43 |
| Dual | 6 | 40 km | 10 km | 3.5 km | 1.2 km | • | • | • | • | | | | • | ★★ farmer® AN1000 Solar | 10856 | 43 |
| — | 14 | 80 km | 30 km | 15 km | 8 km | • | • | • | | | • | | • | ★★ hotshock® A300 | 10613 | 44 |
| Dual | 14 | 130 km | 45 km | 20 km | 10 km | • | • | • | | | • | | • | ★★ hotshock® AN490 | 10813 | 45 |
| Dual | 12 | 90 km | 30 km | 17 km | 9 km | • | • | • | • | | • | | • | ★★★ ranger® AN360 | 10997 | 47 |
| Dual | 14 | 130 km | 45 km | 20 km | 10 km | • | • | • | • | | • | | • | ★★★ ranger® AN490 | 10857 | 47 |
| Dual | 10 | 50 km | 15 km | 4.5 km | 1.7 km | • | • | • | | | • | | • | ★★★ ranger® AN2000 | 10854 | 49 |
| Dual | 12 | 100 km | 20 km | 5 km | 2 km | • | • | • | • | | | | • | ★★★ ranger® AN3000 | 10992 | 49 |
| Dual | 14 | 130 km | 40 km | 20 km | 10 km | • | • | • | • | | | | • | ★★★ ranger® AN4800 | 10993 | 49 |
| Dual | 17 | 180 km | 55 km | 21 km | 14 km | • | • | • | | | • | | • | ★★★ turbomax® AN800 | 10749 | 50 |



230 V power mains operated energiser

| Dual / combi | Number possible netting every 50 m | According to CEE* | Without any vegetation | With medium-height vegetation | With high vegetation | Animal husbandry | | | | | | | | | | Product | | |
|--------------|------------------------------------|-------------------|------------------------|-------------------------------|----------------------|------------------|---|---|---|---|---|---|---|---|------------------------|---------------------|----------|------|
| | | | | | | | | | | | | | | | anti-wildlife function | Designation | Item No. | Page |
| — | — | 3 km | 1.3 km | 0.5 km | — | | | | | | • | • | | | | ★ trapper® N15 | 104271 | 53 |
| — | 3 | 15 km | 4 km | 2 km | 0.8 km | • | • | | • | • | • | • | | | | ★ trapper® N45 | 10864 | 53 |
| — | 6 | 40 km | 10 km | 3.5 km | 1.2 km | • | • | | | • | | | • | | | ★★ farmer® N100 | 10632 | 55 |
| — | 10 | 50 km | 15 km | 4 km | 1.4 km | • | • | | | • | | | • | | | ★★ farmer® N200 | 10996 | 55 |
| — | 16 | 120 km | 45 km | 20 km | 10 km | • | • | • | | • | • | | • | • | | ★★ hotshock® N500 | 10614 | 56 |
| — | 12 | 60 km | 20 km | 5 km | 2 km | • | • | | • | • | | | • | | | ★★★ ranger® N270 | 10608 | 59 |
| — | 16 | 100 km | 40 km | 10 km | 4 km | • | • | | • | • | | | • | | | ★★★ ranger® N420 | 10742 | 59 |
| — | 30 | 320 km | 85 km | 40 km | 25 km | • | • | • | • | • | | | • | | | ★★★ turbomax® N1430 | 10748 | 60 |



Solar devices

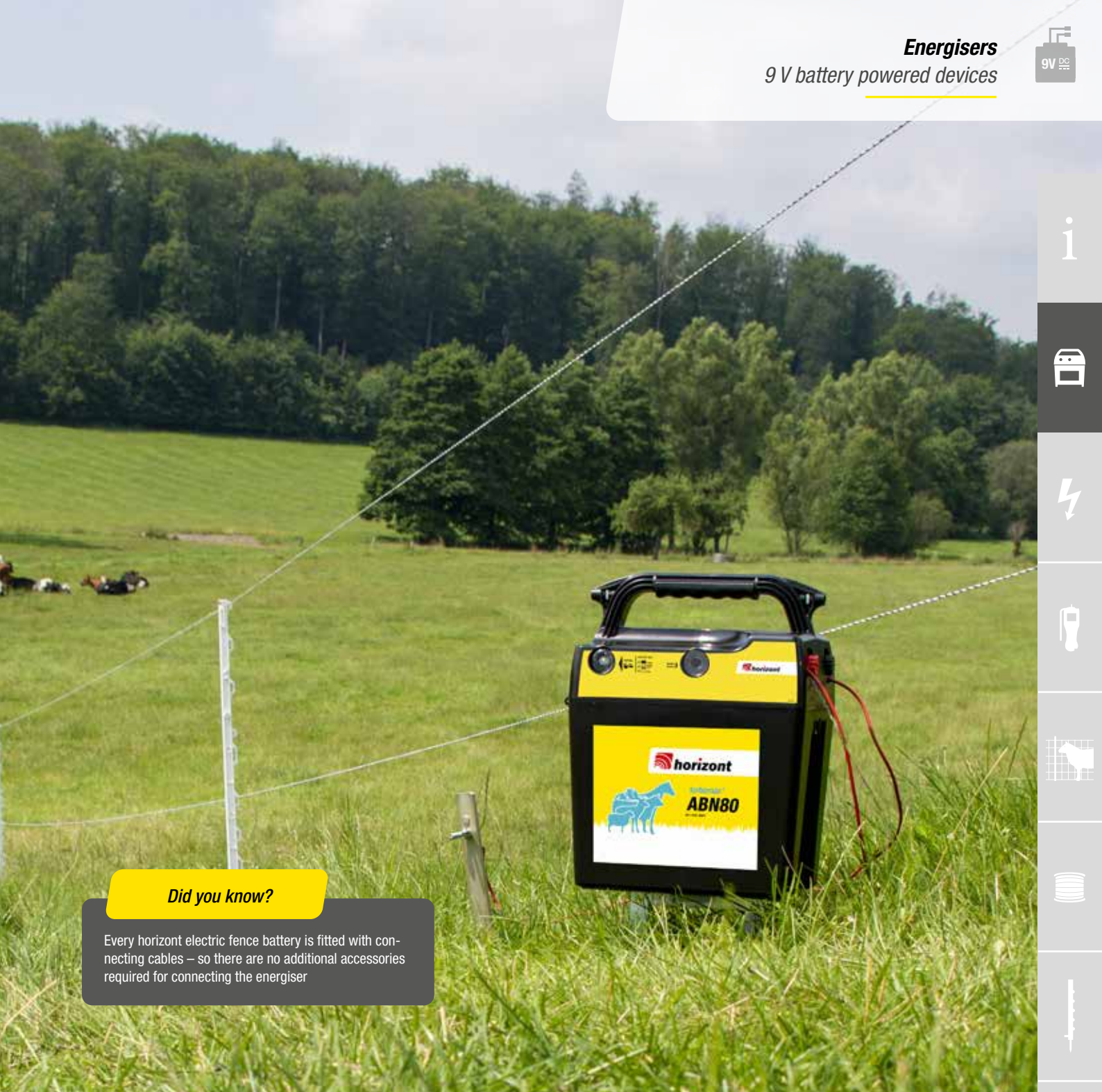
| | | | | | | | | | | | | | | | | | | |
|------|---|--------|-------|--------|--------|---|---|---|--|---|---|--|---|---|--|-------------------|----------|----|
| — | — | 8.5 km | 5 km | 3 km | 0.9 km | • | • | | | • | | | • | | | ★ trapper® AS25 | 14982 | 63 |
| — | — | 18 km | 8 km | 3.5 km | 1.2 km | • | • | | | • | | | • | | | ★ trapper® AS50 | 14983 | 63 |
| — | — | 18 km | 8 km | 3.2 km | 1 km | • | • | | | • | | | • | | | ★★ farmer® AS50 | 14485 | 64 |
| Dual | 6 | 43 km | 12 km | 4 km | 1.4 km | | | • | | | • | | • | • | | ★★★ ranger® AS120 | 10986 | 67 |
| Dual | 8 | 48 km | 14 km | 4.3 km | 1.6 km | | | • | | | • | | • | • | | ★★★ ranger® AS180 | 10987 | 67 |
| Dual | | | | | | | | | | | | | | | | birdy A | 10895-30 | 65 |



Energisers

9 V battery powered devices





Did you know?

Every horizon electric fence battery is fitted with connecting cables – so there are no additional accessories required for connecting the energiser



9 V BATTERY POWERED DEVICES

Battery powered devices are small and easy to handle. This is why they are particularly suitable for mobile use. They can be powered by a 9 volt battery or by a 12 volt super-fleece rechargeable battery. All battery powered devices can also be extended to achieve solar operation when connected to a solar panel.

The dual devices can also be connected to the 230 volt mains power network. Battery powered devices can be used in many ways. The maximum output energy of a battery powered device is limited to the performance of the batteries. Larger energies can be obtained when using a super-fleece rechargeable battery.

But be aware: Batteries cannot be re-charged or charged. Once they are discharged they must simply be disposed of appropriately.

Every horizon electric fence battery can be stored for up to two years without any significant loss of capacity.

There are two different battery types: Alkaline batteries (air oxygen batteries) and carbon-zinc batteries. Both designs are free of mercury and cadmium and are therefore environmentally friendly.

See page 70 for further information about both battery types.

9 V battery powered device

ABN30GREEN

NEW

Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible



An extremely robust housing

- Sustainable housing made out of bio-PP
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity up to 27 Ah and batteries up to 200 Ah



3 YEARS WARRANTY

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Rear view



Earth outlet

Fence exit



BIOPLASTIC



100% RECYCLABLE



**WITHOUT OIL OR OIL
DERIVATES**



GREENLINE
made by horizont

Max. Fence



| | |
|---------------------------|----------|
| Netting: | 2 x 50 m |
| According to CEE: | 9.5 km |
| Without any vegetation: | 5.5 km |
| Medium-height vegetation: | 3.8 km |
| High vegetation: | 0.9 km |

Animal husbandry:



Input:

• 0.4 J

Max. Output:

• 0.3 J

Energy consumption:

- 9 V: 28 - 36 mA
- 12 V: 24 - 28 mA

Max. Voltage:

• 10,000 V

Voltage for 500 Ω:

• 3,200 V

Dimensions (LxWxH):

• 17.5 x 24.8 x 31.9 cm

Scope of delivery:

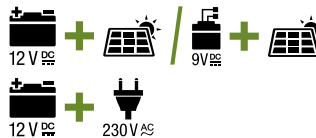
- Energiser, earth stake, fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10862 | | 149.00 |

Product information & features:

www.horizont.com/10862

Energy source:



DUAL

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

100% BIOBASED.

9 V battery powered device *trapper®*



Easy to handle housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

ON/OFF switch, power control & button for menu navigation

- Shows the activity of the device
- Flashes in sync with the pulse emission
- Two operating modes:
 1. Slow pulse sequence
 2. Normal pulse sequence

Holding device for a solar panel



Post

- For secure positioning
- With a tread surface

Underneath view



Earth outlet

Fence exit

Solar connection

12V rechargeable battery connection

Energy Source

Options for supplying power to this device:



Area of use

- Ideal for small, simple electric fence systems
- Suitable for beginners and hobby livestock owners

Special features

- Automatic switchover to solar operation
- Microprocessor controller



It is also possible to mount the device in the fence material



Hanging device for mounting on a wall and an integrated carrying handle

Combi

★ *trapper®* AB12 (*trapper* AB2)



| | | |
|---------------------------|-------------------------|--------|
| Max. Fence length: | According to CEE: | 3 km |
| | Without any vegetation: | 1.5 km |
| | With high vegetation: | 0.5 km |



Animal husbandry:



Input:

- 0.18 J

Max. Output:

- 0.12 J

Energy consumption:

- 6 V: 17 - 25 mA
- 12 V: 8 - 11 mA

Max. Voltage:

- 11,000 V

Voltage for 500 Ω:

- 2,000 V

Dimensions (L x B x H):

- 13.1 x 11.1 x 23.9 cm

Scope of delivery:

- Energiser, earth stake and end-bearing pile, fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14497 | | 159.00 |

Product information & features:

www.horizont.com/14497

Recommended accessories:

- 12 V super fleece rechargeable battery with 12 Ah (15842, p. 77) ≥ Operational life: 45/62 days* or a 6 V block battery with 50 Ah (230502E, p. 76) ≥ Operational life: 83/122 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2.5 W (14541C, p. 81)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Optionally a 12 V super fleece rechargeable battery with 12 Ah (15842, p. 77), 6 V block battery with 50 Ah (230502E, p. 76) or solar panel 2.5 W (14541C, p. 81)

9 V battery powered devices

trapper®



**2 YEARS
WARRANTY**

Cable bushing

- Intelligent cable bushing from inside the device to a solar panel

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

Integrated carrying handle

- Simple implementation with one hand is possible



Energy source

Options for supplying power to this device:



Special features

- A very stable housing
- Power Control (pulse control)
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



A secure locking mechanism – pull the fixture apart and pull off the cover



The housing serves as a transport box and protects the rechargeable battery/battery from the weather

Area of use

- Ideal for small, simple electric fence systems
- Suitable for beginners and hobby livestock owners

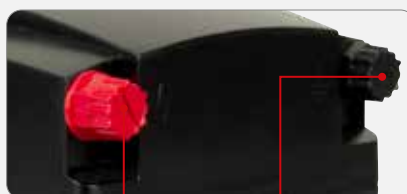
Front view



ON/OFF switch & energy control

- Shows the activity of the device
- Flashes in sync with the pulse emission

Rear view



Fence exit

Earth outlet

9 V battery powered devices

Combi

★ trapper® B12 (trapper B)



★ trapper® B22 (equistop B2)



Max. Fence length:



According to CEE: 4 km
Without any vegetation: 3 km
Medium-height vegetation: 1 km
High vegetation: 0.3 km

According to CEE: 8 km
Without any vegetation: 5 km
Medium-height vegetation: 3.5 km
High vegetation: 0.8 km

Species husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (L x B x H):

Scope of delivery:

- 0.18 J
- 0.12 J
- 9 V: 15 mA
- 12 V: 22 mA
- 8,500 V
- 1,500 V
- 19.5 x 23.3 x 25.0 cm
- Energiser, earth stake (about 30 cm), fence and grounding cables

- 0.3 J
- 0.22 J
- 9 V: 35 mA
- 12 V: 25 mA
- 9,000 V
- 2,200 V
- 19.5 x 23.3 x 25.0 cm
- Energiser, earth stake (about 30 cm), fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10616 | | 109.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10620 | | 219.00 |

Product information & features:

www.horizont.com/10616

www.horizont.com/10620

Recommended accessories:

- 12 V super fleece rechargeable battery with 12 Ah (15842, p. 77) ≥ Operational life: 41 days* or a 9 V alkaline battery with 120 Ah (15844E, p. 76) ≥ Operational life: 333 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (60140, p. 81)

- 12 V super fleece rechargeable battery with 12 Ah (15842, p. 77) ≥ Operational life: 20 days* or a 9 V alkaline battery with 120 Ah (15844E, p. 76) ≥ Operational life: 143 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (60140, p. 81)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V super fleece rechargeable battery with 12 Ah (15842, p. 77)



9 V alkaline battery with 120 Ah (15844E, p. 76)



Solar panel 2 W (60140, p. 81)

9 V battery powered device

farmer®



Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible

Holding device for a solar panel

- Simple attachment of the solar panel to the holding device
- Four different arrangement angles and a transport position of the solar panel are possible



An extremely robust housing

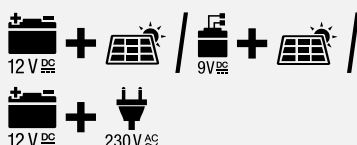
- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity up to 34 Ah and batteries up to 200 Ah

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

Options for supplying power to this device:



Dual Devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1



Area of use

- Ideal for calm grazing animals and normal operating conditions

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

Special features

- Insertion profile for the earth rod in the housing
- The upper and lower part are connected by a hinge
- The housing can be secured using a padlock
- The holding plate in the interior ensures stable fastening of rechargeable batteries and batteries
- A multi-optional storage compartment for the power supply unit when not being used
- Intelligent cable routing prevents crushed cables and leads from inside the device to a solar panel
- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

Dual

★★ farmer® ABN30
(farmer ABN4)



| | | |
|---------------------------|------------------------------|----------|
| Max. Fence length: | Netting: | 2 x 50 m |
| | according to CEE: | 9.5 km |
| | Without any vegetation: | 5.5 km |
| | With med.-height vegetation: | 3.8 km |
| | With high vegetation: | 0.9 km |

Animal husbandry:



- Input:** • 0.4 J
- Max. Output:** • 0.3 J
- Energy consumption:** • 9 V: 28 - 36 mA
- 12 V: 24 - 28 mA
- Max. Voltage:** • 10,000 V
- Voltage for 500 Ω:** • 3,200 V
- Dimensions (L x B x H):** • 17.5 x 24.8 x 31.9 cm
- Scope of delivery:** • Energiser, earth stake (double stake, about 17 cm), fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10891 | | 249.00 |

Product information & features:

www.horizont.com/10891

Recommended accessories:

- 12 V super fleece rechargeable battery with 34 Ah (14501, p. 77) ≥ Operational life: 50-59 days* or a 9 V alkaline battery with 150 Ah (14057E, p. 76) ≥ Operational life: 173-223 days*
- 230 V power supply unit (47PSU0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 5 W (14499, p. 81)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V super fleece rechargeable battery with 34 Ah (14501, p. 77) and solar panel 5 W (14499, p. 81)

9 V battery powered device **hotshock®**



Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible

Holding device for a solar panel

- Simple attachment of the solar panel to the holding device
- Four different arrangement angles and a transport position of the solar panel are possible



An extremely robust housing

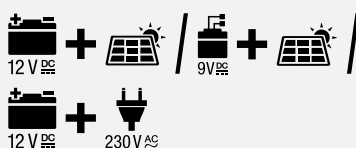
- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity of up to 34 Ah and batteries up to 200 Ah

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

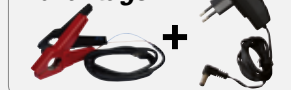
Options for supplying power to this device:



Dual Devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1



Area of use

- Ideal for robust, long-haired and feathered animals and for an anti-wildlife function
- Suitable for difficult repelling situations

Safety Instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

Special features

- Insertion profile for the earth rod in the housing
- The upper and lower part are connected by a hinge
- The housing can be secured using a padlock
- The holding plate in the interior ensures stable fastening of rechargeable batteries and batteries
- A multi-optional storage compartment for the power supply unit when not being used
- Intelligent cable routing prevents crushed cables and leads from inside the device to a solar panel
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

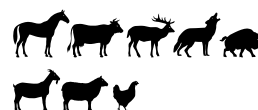
Dual

★★ **hotshock® ABN37**
(hotshock ABN5)



| | | |
|---------------------------|------------------------------|----------|
| Max. Fence length: | Netting: | 3 x 50 m |
| | according to CEE: | 10 km |
| | Without any vegetation: | 6 km |
| | With med.-height vegetation: | 4 km |
| | With high vegetation: | 1.1 km |

Animal husbandry:



| | |
|----------------------------|--|
| Input: | • 0.5 J |
| Max. Output: | • 0.37 J |
| Energy consumption: | • 9 V: 47 mA |
| | • 12 V: 35 mA |
| Max. Voltage: | • 13,000 V |
| Voltage for 500 Ω: | • 3,800 V |
| Dimensions (LxWxH): | • 17.5 x 24.8 x 31.9 cm |
| Scope of delivery: | • Energiser, earth stake (double stake, about 17 cm), fence connecting cable |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10892 | | 319.00 |

Product information & features:

www.horizont.com/10892

Recommended accessories:

- 12 V super fleece rechargeable battery with 34 Ah (14501, p. 77) ≥ Operational life: 40 days* or a 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Operational life: 150 days*
- 230 V power supply unit (47PSU0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (14511, p. 81)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V super fleece rechargeable battery with 34 Ah (14501, p. 77) and solar panel 10 W (14511, p. 81)

9 V battery powered device

ranger®


NEW

Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible

Holding device for a solar panel

- Simple attachment of the solar panel to the holding device
- Four different arrangement angles and a transport position of the solar panel are possible



An extremely robust housing

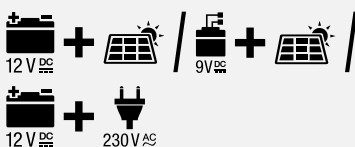
- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity of up to 34 Ah and batteries up to 200 Ah

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

Options for supplying power to this device:



Dual Devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1



Area of use

- For the highest demands and dry lands
- Suitable for grazing animals such as cattle and horses

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

Special features

- Insertion profile for the earth rod in the housing
- The upper and lower part are connected by a hinge
- Deep discharge switch off at 12 V
- The housing can be secured using a padlock
- The holding plate in the interior ensures stable fastening of rechargeable batteries and batteries
- A multi-optional storage compartment for the power supply unit when not being used
- Intelligent cable routing prevents crushed cables and leads from inside the device to a solar panel
- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

Dual

★★★ ranger® ABN60



| | | |
|---------------------------|---------------------------|----------|
| Max. Fence length: | Netting: | 2 x 50 m |
| | According to CEE: | 12 km |
| | Without any vegetation: | 6.5 km |
| | Medium-height vegetation: | 4.5 km |
| | High vegetation: | 1.3 km |

Animal husbandry:



- Input:** • 0.65 J
- Max. Output:** • 0.6 J
- Energy consumption:** • 9 V: 19 - 57 mA
- 12 V: 22 - 70 mA
- Max. Voltage:** • 11,000 V
- Voltage for 500 Ω:** • 3,600 V
- Dimensions (LxWxH):** • 17.5 x 24.8 x 31.9 cm
- Scope of delivery:** • Energiser, earth stake (double stake, about 17 cm), fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10983 | | 329.00 |

Product information & features:

www.horizont.com/10983

Recommended accessories:

- 12 V super fleece rechargeable battery with 34 Ah (14501, p. 77) ≥ Operational life: 20-64 days* or a 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Operational life: 173-223 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 5 W (14499, p. 81)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V super fleece rechargeable battery with 34 Ah (14501, p. 77), 9 V alkaline battery mit 170 Ah (12012E) and solar panel 10 W (14511)

9 V battery powered device *turbomax®*

NEW



Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible

Holding device for a solar panel

- Simple attachment of the solar panel to the holding device
- Four different arrangement angles and a transport position of the solar panel are possible



An extremely robust housing

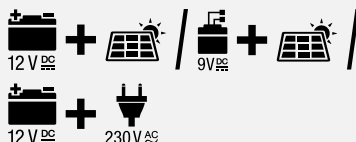
- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity of up to 34 Ah and batteries up to 200 Ah

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

Options for supplying power to this device:



Dual Devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1



Area of use

- Ideal for a strong performance to meet the highest demands
- Suitable for extremely long fences

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

Special features

- The rechargeable battery or battery is integrated into the handy transport box and is protected there against the weather
- Deep discharge switch off at 12 V
- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Fully automatic adjustment of the output to the fence status - no other settings are necessary
- Automatic switchover to solar operation
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

Dual

★★★ *turbomax® ABN80*



| | | |
|---------------------------|---------------------------|----------|
| Max. Fence length: | Netting: | 3 x 50 m |
| | According to CEE: | 13 km |
| | Without any vegetation: | 7.0 km |
| | Medium-height vegetation: | 4.9 km |
| | High vegetation: | 1.4 km |

Animal husbandry:



Input:

Max. Output:

- 0.9 J
- 9 V: 0.5 J
- 12 V: 0.8 J

Energy consumption:

- 9 V: 22 - 70 mA
- 12 V: 22 - 80 mA

Max. Voltage:

Voltage for 500 Ω:

- 11,000 V
- 4,800 V

Dimensions (LxWxH):

- 17.5 x 24.8 x 31.9 cm

Scope of delivery:

- Energiser, earth stake (double stake, about 17 cm), fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10984 | | 399.00 |

Product information & features:

www.horizont.com/10984

Recommended accessories:

- 12 V super fleece rechargeable battery with 34 Ah (14501, p. 77) ≥ Operational life: 18-64 days* or a 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Operational life: 150 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (14511, p. 81)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V super fleece rechargeable battery with 34 Ah (14501, p. 77), 9 V alkaline battery with 170 Ah (12012E) and solar panel 10 W (14511)





A tip

Only charge your special or super-fleece rechargeable battery using regulated chargers to guarantee a high operating period, and particularly ensure good aeration of the rechargeable battery.



12V BATTERY POWERED DEVICES

Large electric fence systems can be powered by rechargeable battery devices. So much energy can be taken from rechargeable batteries with large capacities that, for example, a strong 8 joule output energy can be sent to the fence from the turbomax AN800 (product, see p. 50)

All rechargeable batteries can basically be connected to a solar panel and thus, when the sunlight is strong enough, achieve recharging on the power supply network.

For devices which can accommodate a rechargeable battery in a housing, a solar charging controller is also installed in the device. This housing form offers the advantage that the energiser, rechargeable battery and solar panel form a compact unit.



12V battery powered devices *trapper*®



Input socket

- To connect to 12 V or 230 V

Fence exit

Easy to handle housing

- A particularly impact resistant housing made out of high quality ABS plastics (PC and PP)
- Material is UV resistant, splash-proof and oil resistant

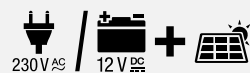
Earth outlet

Power control

- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

Options for supplying power to this device:



Combination

Combined devices can either be powered attached to the 230 V mains network power supply or to a 12 V rechargeable battery.

Advantage: 2 in 1

In the scope of delivery!



Special features

- A very stable housing
- Power Control (pulse control)
- Automatic switchover to solar operation
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Suspension device for mounting on a wall

Area of use

- Ideal for small, simple electric fence systems
- Suitable for beginners and hobby livestock owners

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

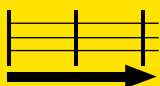
12V battery powered devices

Combi

★ trapper® AN45 (trapper AN8)



Max. Fence length:



| | |
|---------------------------|----------|
| Netting: | 3 x 50 m |
| According to CEE: | 8 km |
| Without any vegetation: | 4 km |
| Medium-height vegetation: | 2 km |
| High vegetation: | 0.8 km |

Animal husbandry:



Input:
Max. Output:
Energy consumption:
Max. Voltage:
Voltage for 500 Ω:
Dimensions (LxWxH):
Scope of delivery:

- 0.8 J
- 0.45 J
- 50 mA
- 7,900 V
- 3,300 V
- 5.8 x 12.4 x 17.2 cm
- Energiser, power supply unit, fence, grounding and rechargeable battery connecting cables

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10867 | | 109.00 |

Product information & features:

www.horizont.com/10867

★ trapper® AN80 (trapper AN12)



| | |
|---------------------------|----------|
| Netting: | 4 x 50 m |
| According to CEE: | 12 km |
| Without any vegetation: | 8 km |
| Medium-height vegetation: | 3.5 km |
| High vegetation: | 1.2 km |



- 1.2 J
- 0.8 J
- 90 mA
- 8,400 V
- 3,600 V
- 5.8 x 12.4 x 17.2 cm
- Energiser, power supply unit, fence, grounding and rechargeable battery connecting cables

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10866 | | 149.00 |

www.horizont.com/10866

★ trapper® AN120 (trapper AN24)



| | |
|---------------------------|----------|
| Netting: | 6 x 50 m |
| According to CEE: | 18 km |
| Without any vegetation: | 12 km |
| Medium-height vegetation: | 4.5 km |
| High vegetation: | 1.5 km |



- 2.4 J
- 1.2 J
- 145 mA
- 8,600 V
- 4,000 V
- 5.8 x 12.4 x 17.2 cm
- Energiser, power supply unit, fence, grounding and rechargeable battery connecting cables

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10865 | | 189.00 |

www.horizont.com/10865

Recommended accessories:

- 12 V special rechargeable battery with 63 Ah (14124, p. 77) Operational life: 52 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (14545, p. 82)

- 12 V special rechargeable battery with 88 Ah (14125, p. 77) Operational life: 40 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (14545, p. 82) or 1 x 20 W (14536, p. 83)

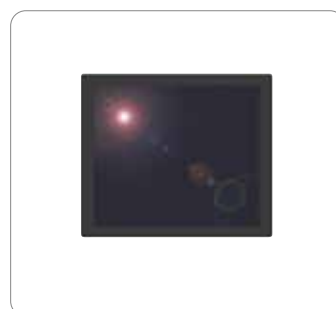
- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 29 days*
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 20 W (14536, p. 83) or 1 x 20 W (14536, p. 83)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 100 Ah (14126, p. 77)



Solar panel 10 W (14545, p. 82)



Solar panel 20 W (14536, p. 83)

12V battery powered devices

farmer®



Energy control

- A 3-stage LED control display for the capacity and function of the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Fence exit

Earth outlet

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

Energy source

Options for supplying power to this device:

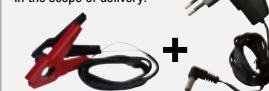


Dual Devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1

In the scope of delivery!



Special features

- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



Ventilation slots for removal of condensate



Connection socket for the power supply unit at the rear

Area of use

- Ideal for calm grazing animals and normal operating conditions

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

12V battery powered devices

Dual

★★ farmer® AN100 (farmer AN15)



★★ farmer® AN200 (farmer AN25)



★★ farmer® AN300



Max. Fence length:



| | |
|---------------------------|----------|
| Netting: | 6 x 50 m |
| According to CEE: | 30 km |
| Without any vegetation: | 10 km |
| Medium-height vegetation: | 3.5 km |
| High vegetation: | 1.2 km |

| | |
|---------------------------|-----------|
| Netting: | 10 x 50 m |
| According to CEE: | 50 km |
| Without any vegetation: | 15 km |
| Medium-height vegetation: | 4.5 km |
| High vegetation: | 1.7 km |

| | |
|---------------------------|-----------|
| Netting: | 12 x 50 m |
| According to CEE: | 80 km |
| Without any vegetation: | 18 km |
| Medium-height vegetation: | 4.8 km |
| High vegetation: | 1.9 km |

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (LxBxH):

Scope of delivery:

- 1.3 J
- 1 J
- 30 - 90 mA
- 11,500 V
- 4,200 V
- 9.0 x 19.0 x 23.3 cm
- Energiser, power supply unit, fence and grounding cables

- 2.5 J
- 2 J
- 35 - 190 mA
- 11,200 V
- 4,500 V
- 9.0 x 19.0 x 23.3 cm
- Energiser, power supply unit, fence and grounding cables

- 4.2 J
- 3 J
- 30 - 265 mA
- 11,800 V
- 6,200 V
- 9.0 x 19.0 x 23.3 cm
- Energiser, power supply unit, fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10896 | | 239.00 |

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10897 | | 269.00 |

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10882 | | 219.00 |

Product information & features:

www.horizont.com/10896

www.horizont.com/10897

www.horizont.com/10882

Recommended accessories:

- 12 V special rechargeable battery with 88 Ah (14125, p. 77) Operational life: 40-122 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 20 W (14536, p. 83)

- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 22-119 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 30 W (14537, p. 84)

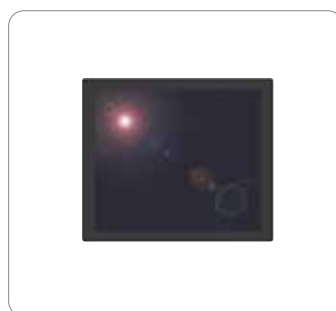
- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 16-138 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 3 x 1 m (14041-1, p. 92)
- Solar panel 1 x 30 W (14537, p. 84)

Selected accessories

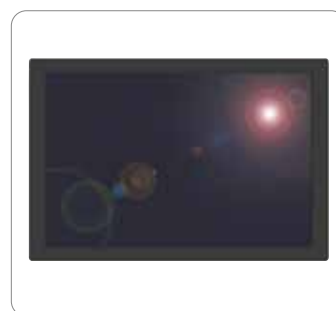
You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 100 Ah (14126, p. 77)



Solar panel 10 W (14536, p. 83)



Solar panel 30 W (14537, p. 84)

12V battery powered devices

farmer®



An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (PC and PP)
- Material is UV resistant, splash-proof and oil resistant
- The housing holds rechargeable batteries and batteries up to 265 x 192 x 225 mm in size

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible

Rear view



Fence exit

Earth outlet

Energy source

Options for supplying power to this device:



Dual devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1



Special features

- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- the rechargeable battery or battery is integrated into the handy transport box and is protected there against the weather
- Avoid contact with the rechargeable battery or the acids during transport
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



The housing can be secured using a padlock



Fixture for attachment of a suitable solar panel to the rear side of the device cover



The solar panel can be folded down to the side during transport

Area of use

- Ideal for calm grazing animals and normal operating conditions

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

12V battery powered devices

Dual

★★ farmer® AN1000



★★ farmer® AN1000Solar



Max. Fence length:



Netting: 6 x 50 m
According to CEE: 40 km
Without any vegetation: 10 km
Medium-height vegetation: 3.5 km
High vegetation: 1.2 km

Netting: 6 x 50 m
According to CEE: 40 km
Without any vegetation: 10 km
Medium-height vegetation: 3.5 km
High vegetation: 1.2 km

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (L x B x H):

Scope of delivery:

- 1.4 J
- 1 J
- 9 V: 40 - 70 mA
- 12 V: 30 - 90 mA
- 11,000 V
- 4,800 V
- 24.0 x 31.5 x 38.0 cm
- Energiser, grounding and rechargeable battery connecting cables

- 1.4 J
- 1 J
- 9 V: 40 - 70 mA
- 12 V: 30 - 90 mA
- 11,000 V
- 4,800 V
- 24.0 x 31.5 x 38.0 cm
- Energiser, fence, grounding cables, 10 W solar panel

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10855 | | 309.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10856 | | 439.00 |

Product information & features:

www.horizont.com/10855

www.horizont.com/10856

Recommended accessories:

- 12 V special rechargeable battery with 85 Ah (14894, p. 77) ≥ Operational life: 39-118 days* or a 12 V super fleece rechargeable battery with 75 Ah (14479, p. 77) ≥ Operational life: 34-104 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (14546, p. 83)

- 12 V special rechargeable battery with 85 Ah (14894, p. 77) ≥ Operational life: 39-118 days* or a 12 V super fleece rechargeable battery with 75 Ah (14479, p. 77) ≥ Operational life: 34-104 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 85 Ah (14894, p. 77)

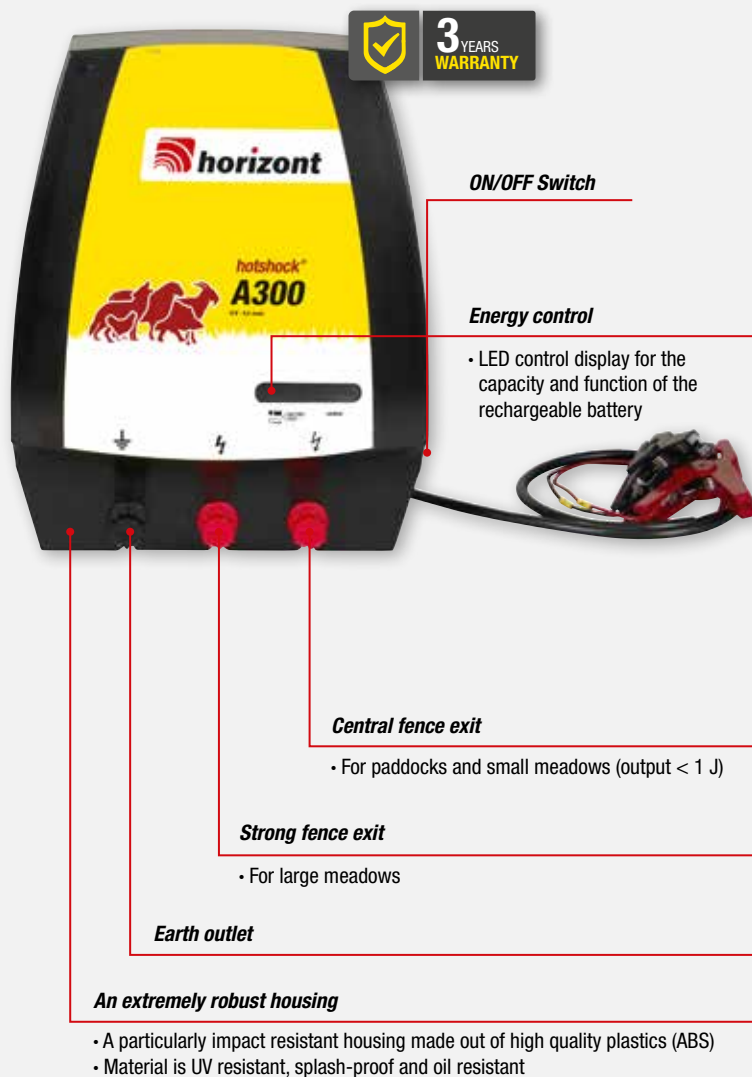


12 V super fleece rechargeable battery with 75 Ah (14479, p. 77)



Solar module 10 W with a holder (14546, p. 83)

12V battery powered device **hotshock®**



Energy source

Options for supplying power to this device:



Area of use

- Ideal for robust, long-haired and feathered animals and for an anti-wildlife function
- Suitable for difficult defense situations-

Special features

- Two fence exits for managing both a large and a small meadow or a paddock
- Automatic switchover to solar operation
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



Ventilation slots for removal of condensate



ON/OFF Switch

★★ hotshock® A300 (hotshock A50)



| | | |
|---------------------------|---------------------------|-----------|
| Max. Fence length: | Netting: | 14 x 50 m |
| | According to CEE: | 80 km |
| | Without any vegetation: | 30 km |
| | Medium-height vegetation: | 15 km |
| | High vegetation: | 8 km |

Animal husbandry:



| | |
|----------------------------|--|
| Input: | • 4 J |
| Max. Output: | • 3 J |
| Energy consumption: | • 340 mA |
| Max. Voltage: | • 11,000 V |
| Voltage for 500 Ω: | • 5,800 V |
| Dimensions (LxWxH): | • 9.9 x 22.8 x 28.4 cm |
| Scope of delivery: | • Energiser, fence, grounding and rechargeable battery connecting cables |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10613 | | 319.00 |

Product information & features:

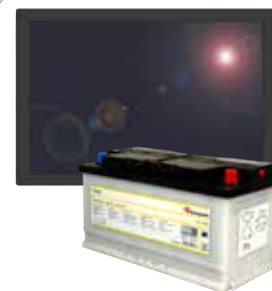
www.horizont.com/10613

Recommended accessories:

- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 12 days*
- Earth stake 3 x 1 m (14041-1, p. 92)
- Solar panel 1 x 20 W (14538, p. 83) or 1 x 30 W (14537, p. 84)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 100 Ah (14126, p. 77) and solar panel 30 W (14537, p. 84)

12V battery device hotshock®

★★ hotshock® AN490

Combi



| | | |
|---------------------------|---------------------------|-----------|
| Max. Fence length: | Netting: | 14 x 50 m |
| | According to CEE: | 130 km |
| | Without any vegetation: | 45 km |
| | Medium-height vegetation: | 20 km |
| | High vegetation: | 10 km |

Animal husbandry:



| | |
|----------------------------|---|
| Input: | • 5,9 J |
| Max. Output: | • 4.9 J |
| Energy consumption: | • 110 - 435 mA |
| Max. Voltage: | • 19,000 V |
| Voltage for 500 Ω: | • 6,300 V |
| Dimensions (LxWxH): | • 9.9 x 22.8 x 28.4 cm |
| Scope of delivery: | • Energiser, power supply unit, fence, grounding and rechargeable battery connecting cables |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10813 | | 359.00 |

Product information & features:

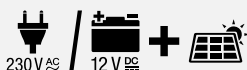
www.horizont.com/10813

Recommended accessories:

- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 9-44 days*
- Earth stake 5 x 1.5 m (15017, p. 92)
- Solar panel 1 x 50 W (14873, p. 84)

Energy source

Options for supplying power to this device:



Combined devices

Combined devices can either be powered attached to the 230 V mains network power supply or to a 12 V rechargeable battery.

Advantage: 2 in 1
In the scope of delivery!



Special features

- Two fence exits for managing both a large and a small meadow or a paddock
- Connection socket for the power supply unit at the rear
- A clear and optical information display – easy to check from a distance
- Deep discharge switch off at 12 V
- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



Ventilation slots for removal of condensate

Area of use

- Ideal for robust, long-haired and feathered animals and for an anti-wildlife function
- Suitable for difficult repelling situations

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on p. 21.

12V battery powered devices

ranger®



3 YEARS WARRANTY

ON/OFF switch
& menu button

Central fence exit

- For paddocks and small meadows (output < 1 J)

Strong fence exit

- For large meadows

Earth outlet

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

Six modes functions

1. **NORMAL:** Normal pulse sequence
 2. **SMART:** Normal pulse sequence APN*
 3. **DAY MODE:** Normal pulse sequence APN* by day; a longer pulse sequence at night
 4. **NIGHT MODE:** Normal pulse sequence APN* by night; a longer pulse sequence by day
 5. **SLOW MODE:** A slow pulse sequence APN* by day and at night
 6. **ONLY NIGHT MODE:** Normal pulse sequence APN* by night; no pulse sequence by day
- = additional energy saving, more efficiency, lower operating costs

LED control display

- **Energy control:** A 3-stage LED control display for the capacity and function of the battery or the rechargeable battery
- **Impulse control (cycle sequence monitoring)** Lights up when the device is in impaired operation
- **System control (Argutector fence indicator)** Display for a high energy consumption to maintain the output
- **Voltage indicator:** 6-stage LED indicator for checking the fence voltage

Energy source

Options for supplying power to this device:

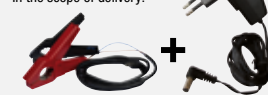


Dual devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in

In the scope of delivery!



Special features

- Two fence exits for managing both a large and a small meadow or a paddock
- Connection socket for the power supply unit at the rear
- A clear and optical information display – easy to check from a distance
- Deep discharge switch off
- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



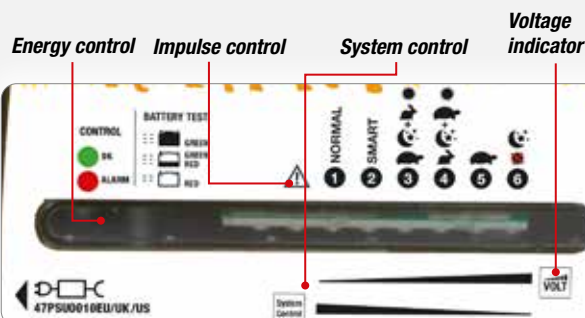
Ventilation slots for removal of condensate

Area of use

- For the highest demands and dry lands
- Suitable for grazing animals such as cattle and horses

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.



12V battery powered devices

Dual

★★★ ranger® AN360



★★★ ranger® AN490 (ranger AN70)



Max. Fence length:



| | |
|-------------------------|-----------|
| Netting: | 12 x 50 m |
| According to CEE: | 90 km |
| Without any vegetation: | 43 km |
| Medium vegetation: | 17 km |
| High vegetation: | 9 km |

| | |
|-------------------------|-----------|
| Netting: | 14 x 50 m |
| According to CEE: | 130 km |
| Without any vegetation: | 60 km |
| Medium vegetation: | 20 km |
| High vegetation: | 10 km |

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (LxWxH):

Scope of delivery:

- 4,3 J
- 3,6 J
- 70 - 320 mA
- 10.200 V
- 5.200 V
- 9,9 x 22,8 x 28,4 cm
- Energiser, power supply unit, fence, grounding and rechargeable battery connecting cables

- 5,7 J
- 4,9 J
- 70 - 450 mA
- 10.450 V
- 5.200 V
- 9,9 x 22,8 x 28,4 cm
- Energiser, power supply unit, fence, grounding and rechargeable battery connecting cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10997 | | 379.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10857 | | 419.00 |

Product information & features:

www.horizont.com/10997

www.horizont.com/10857

Recommended accessories:

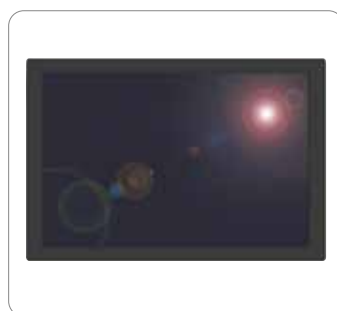
- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 13-46 days*
- Earth stake 4 x 1.5 m (15017, p. 92)
- Solar panel 1 x 30 W (14537, p. 84)
- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Operational life: 9-44 days*
- Earth stake 5 x 1.5 m (15017, p. 92)
- Solar panel 1 x 50 W (14873, p. 84)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 100 Ah (14126, p. 77)



Solar panel 30 W (14537, p. 84)



Solar panel 50 W (14873, p. 84)

12V battery powered devices

ranger®



Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible

Rotary potentiometer

- The output energy level (APN*) is pre-selectable (100% - 50%) at the rotary potentiometer

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (PC and PP)
- Material is UV resistant, splash-proof and oil resistant
- The housing holds rechargeable batteries and batteries up to 265 x 142 x 225 mm in size

Six modes functions

1. **NORMAL:** Normal pulse sequence
2. **SMART:** Normal pulse sequence APN*
3. **DAY MODE:** Normal pulse sequence APN* by day; a longer pulse sequence at night
4. **NIGHT MODE:** Normal pulse sequence APN* by night; a longer pulse sequence by day
5. **SLOW MODE:** A slow pulse sequence APN* by day and at night
6. **ONLY NIGHT MODE:** Normal pulse sequence APN* by night; no pulse sequence by day = additional energy saving, more efficiency, lower operating costs

ON/OFF switch, menu button & energy control

- An LED control display for the capacity and function of the battery or the rechargeable battery
- Shows the activity of the device
 - Flashes in sync with the pulse emission

LED control display

- **Impulse control (cycle sequence monitoring)** Lights up when the device is in impaired operation
- **System control (Argutector fence indicator)** Display for a high energy consumption to maintain the output
- **Voltage indicator:** 6-stage LED indicator for checking the fence voltage

Rear view



Earth outlet

Fence exit

Energy source

Options for supplying power to this device:



Dual devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in



Special features

- The rechargeable battery or battery is integrated into the handy transport box and is protected there against the weather
- Avoid contact with the rechargeable battery or the acids during transport
- Deep discharge switch off
- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



The housing can be secured using a padlock



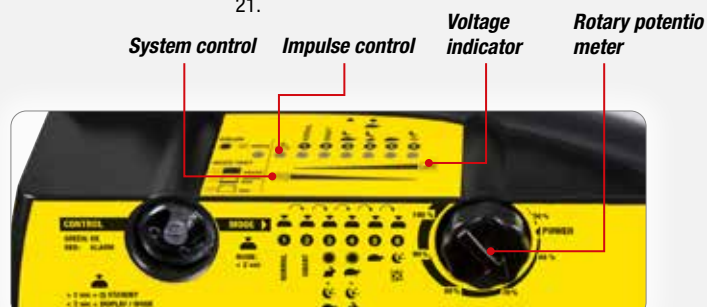
Fixture for attachment of a suitable solar panel to the rear side of the device cover

Area of use

- For the highest demands and dry lands
- Suitable for grazing animals such as cattle and horses

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.



12V battery powered devices

Dual

★★★ ranger® AN2000 (ranger AN3000)



★★★ ranger® AN3000 (ranger AN5000)



★★★ ranger® AN4800 (ranger AN7000)



Max. Fence length:



| | |
|---------------------------|-----------|
| Netting: | 10 x 50 m |
| According to CEE: | 50 km |
| Without any vegetation: | 20 km |
| Medium-height vegetation: | 4.5 km |
| High vegetation: | 1.7 km |

| | |
|---------------------------|-----------|
| Netting: | 12 x 50 m |
| According to CEE: | 100 km |
| Without any vegetation: | 33 km |
| Medium-height vegetation: | 5 km |
| High vegetation: | 2 km |

| | |
|---------------------------|-----------|
| Netting: | 14 x 50 m |
| According to CEE: | 130 km |
| Without any vegetation: | 60 km |
| Medium-height vegetation: | 20 km |
| High vegetation: | 10 km |

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (LxWxH):

Scope of delivery:

- 2.7 J
- 2 J
- 65 - 215 mA
- 13,000 V
- 4,700 V
- 24.0 x 31.5 x 38.0 cm
- Energiser, fence connecting cable

- 3.5 J
- 3 J
- 75 - 275 mA
- 15,600 V
- 5,200 V
- 24.0 x 31.5 x 38.0 cm
- Energiser, fence connecting cable

- 5.7 J
- 4.8 J
- 85 - 450 mA
- 16,000 V
- 5,000 V
- 24.0 x 31.5 x 38.0 cm
- Energiser, fence connecting cable

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10854 | | 399.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10992 | | 439.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10993 | | 479.00 |

Product information & features:

www.horizont.com/10854

www.horizont.com/10992

www.horizont.com/10993

Recommended accessories:

- 12 V special rechargeable battery with 85 Ah (14894, p. 77) ≥ Operational life: 17-78 days* or a 12 V super fleece rechargeable battery with 75 Ah (14479, p. 77) ≥ Operational life: 15-69 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 20 W (14538, p. 83) or 1 x 30 W (14539, p. 84)

- 12 V special rechargeable battery with 85 Ah (14894, p. 77) ≥ Operational life: 13-78 days* or a 12 V super fleece rechargeable battery with 75 Ah (14479, p. 77) ≥ Operational life: 11-69 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 3 x 1.5 m (15017, p. 92)
- Solar panel 1 x 20 W (14538, p. 83) or 1 x 30 W (14539, p. 84)

- 12 V special rechargeable battery with 85 Ah (14894, p. 77) ≥ Operational life: 8-37 days* or a 12 V super fleece rechargeable battery with 75 Ah (14479, p. 77) ≥ Operational life: 7-33 days*
- 230 V power supply unit (47PSU-0010FEU, p. 79)
- Earth stake 5 x 1.5 m (15017, p. 92)
- Solar panel 1 x 30 W (14539, p. 84) or 1 x 50 W (14873, p. 84)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 85 Ah (14894, p. 77)

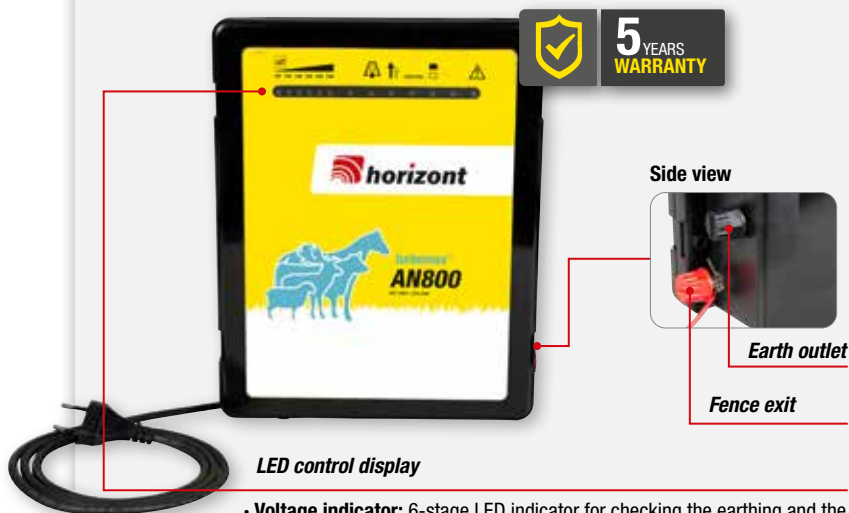


Solar panel 30 W (14539, p. 84)



Solar panel 50 W (14873, p. 84)

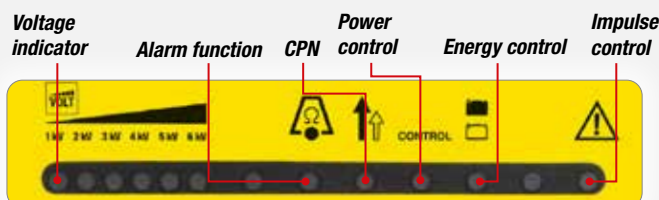
12V battery powered device turbomax®



LED control display

• **Voltage indicator:** 6-stage LED indicator for checking the earthing and the fence voltage

- **Alarm function** An optical and acoustic alarm for exceeding 400 Ohm; the fence should be checked for any interfering factors or damage
- **2-stage-technology CPN:** If faults occur, higher energies are delivered automatically, after a safety margin period of 55 seconds, into the fence (the LED lights up red), in order to maintain the herding security
- **Power Control:** Shows the activity of the device and flashes in sync with the pulse emission
- **Energy control:** An LED control display for the capacity and function of the battery or the rechargeable battery
- **Impulse control (cycle sequence monitoring)** Lights up when the device is in impaired operation



Energy source

Options for supplying power to this device:



Dual devices

Dual devices can be connected in parallel to a 230 V mains network power supply and a 12 V rechargeable battery. Uninterrupted operation is achieved if there is a power cut.

Advantage: 2 in 1



Area of use

- Ideal for a strong performance to meet the highest demands
- Suitable for extremely long fences

Special features

- Suspension device for mounting on a wall

- ON/OFF switch integrated at the side
- Connection socket for the power supply unit underneath
- A clear and optical information display – easy to check from a distance
- Deep discharge switch off
- Turbo-effect: when there are faults, the device delivers a second pulse to maintain the herding security
- turbomax technology: for fence loads > 500 Ohm, the device works with an enormously high energy potential in order to reliably supply the fence
- Automatic switchover to solar operation
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

Safety instruction

In 230 V operation, the device and the power supply unit should be installed in a room protected against moisture. Please also observe the notice on page 21.

Dual

★★★ **turbomax® AN800**
(turbomax AN160)



| | | |
|---------------------------|---------------------------|-----------|
| Max. Fence length: | Netting: | 17 x 50 m |
| | According to CEE: | 180 km |
| | Without any vegetation: | 55 km |
| | Medium-height vegetation: | 21 km |
| | High vegetation: | 14 km |

Animal husbandry:



- Input:** • 12 J
- Max. Output:** • 8 J
- Energy consumption:** 500 - 1,200 mA
- Max. Voltage:** • 12,000 V
- Voltage for 500 Ω:** • 4,400 V
- Dimensions (LxWxH):** 10.6 x 23.4 x 29.8 cm
- Scope of delivery:** • Energiser, mains plug, rechargeable battery connecting cable

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10749 | | 639.00 |

Product information & features:

www.horizont.com/10749

Recommended accessories:

- 12 V special rechargeable battery with 230 Ah (25012B, p. 77) ≥ Operational life: 8-19 days*
- Earth stake 4 x 2 m (14542-1, p. 92)
- Solar panel 1 x 50 W (14873, p. 84)
- Large volume rechargeable battery boxes (21264, p. 78)
- International warning sign (14127, p. 100)
- Ground cable (15321, p. 94)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



12 V special rechargeable battery with 230 Ah (25012B, p. 77) and solar panel 50 W (14873, p. 84)



230 V POWER MAINS OPERATED ENERGISER

Use of a power supply unit requires that you can obtain access to a mains power supply socket in the immediate vicinity of the meadow.

A power supply unit offers the following advantages compared to other power supply types:

- A higher performance
- Permanent & reliable operation attached to the 230 V power supply network
- High operating comfort - no need to replace a battery
- Also usable where there is high vegetation and difficult to herd animals
- Good consumption levels

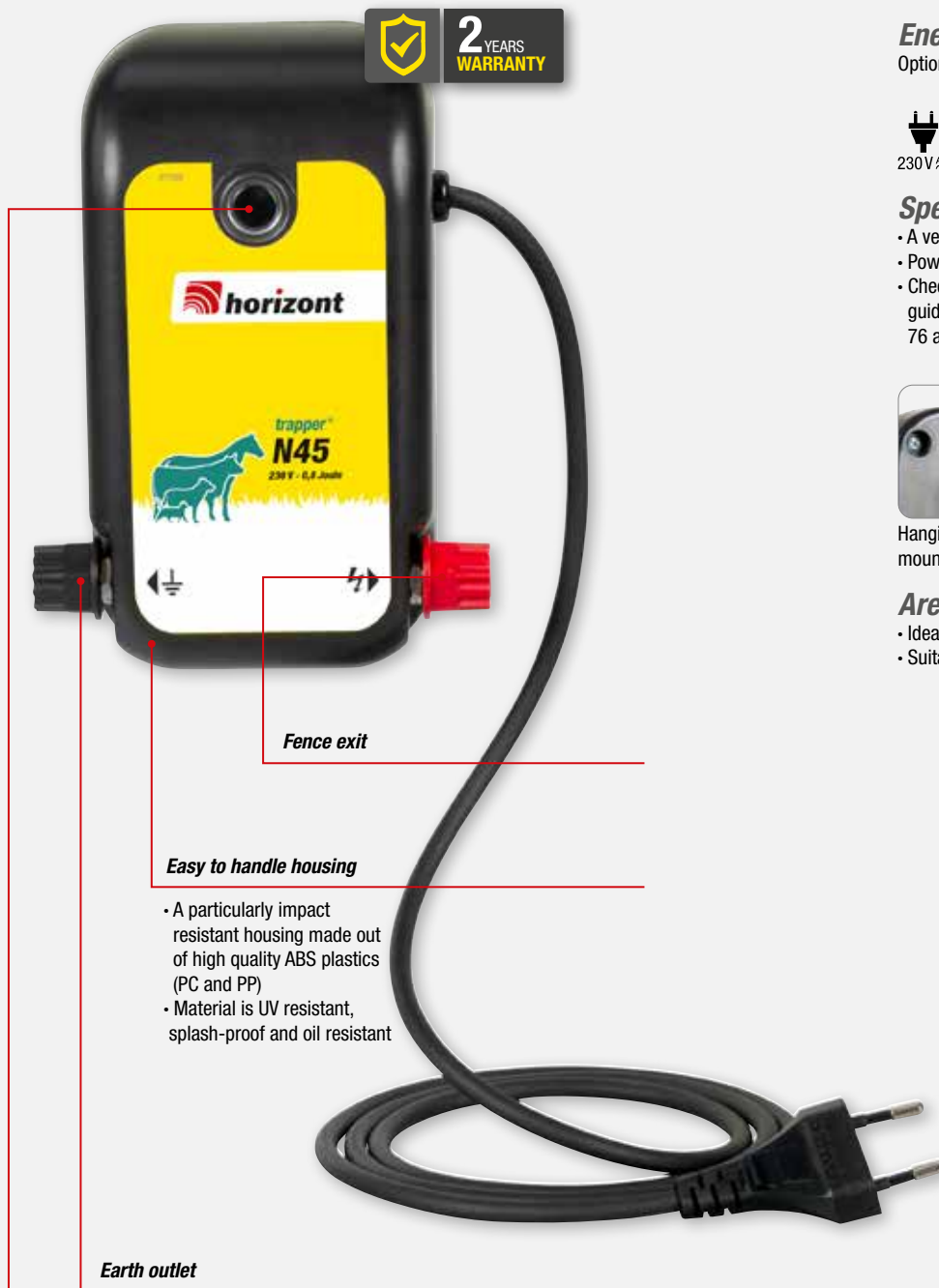


230 V power mains operated energiser

trapper®



**2 YEARS
WARRANTY**



Fence exit

Easy to handle housing

- A particularly impact resistant housing made out of high quality ABS plastics (PC and PP)
- Material is UV resistant, splash-proof and oil resistant

Earth outlet

Power control

- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

Options for supplying power to this device:



230 V $\overline{\text{AC}}$

Special features

- A very stable housing
- Power control (pulse control)
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall

Area of use

- Ideal for small, simple electric fence systems
- Suitable for beginners and hobby livestock owners



230 V power mains operated energiser

★ **trapper® N15**
(hobbygard N)



★ **trapper® N45**
(trapper N8)



Max. Fence length:



According to CEE: 3 km
Without any vegetation: 1.3 km
Medium-height vegetation: 0.5 km

Netting: 3 x 50 m
According to CEE: 15 km
Without any vegetation: 4 km
Medium-height vegetation: 2 km
High vegetation: 0.8 km

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (L x B

x H):

Scope of delivery:

- 0.25 J
- 0.15 J
- 2 W
- 6,500 V
- 2,500 V
- 5.8 x 12.4 x 17.2 cm
- Energiser, mains plug, earth stake (about 30 cm), fence and grounding cables

- 0.8 J
- 0.45 J
- 1.5 W
- 8,000 V
- 3,900 V
- 5.8 x 12.4 x 17.2 cm
- Energiser, mains plug, wall plugs, screws

| Item No. | Unit | Price in € |
|----------|------|------------|
| 104271 | | 99.95 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10864 | | 109.00 |

Product information & features:

www.horizont.com/104271

www.horizont.com/10864

Recommended accessories:

- Earth stake 1 x 1 m (14041-1, p. 92)
- farmer fence tester (14527C, p. 99)

- Earth stake 1 x 1 m (14041-1, p. 92)
- Fence connection set (15522C, p. 96)
- farmer fence tester (14527C, p. 99)

Selected accessories

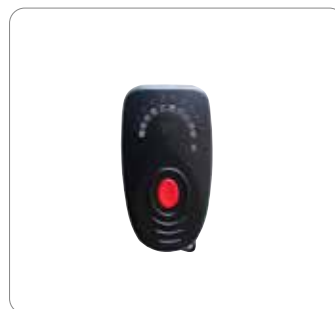
You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (14041-1, p. 92)



Fence connection set (15522C, p. 96)



farmer fence tester (14527C, p. 99)

230 V power mains operated energiser farmer®



Power control

- Shows the activity of the device
- Flashes in sync with the pulse emission

Fence exit

Earth outlet

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

Energy source

Options for supplying power to this device:



230 V AC

Special features

- A very stable housing
- Power control (pulse control)
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



Ventilation slots for removal of condensate

Area of use

- Ideal for calm grazing animals and normal operating conditions



230 V power mains operated energiser

★★ farmer® N100 (farmer N15)

★★ farmer® N200



Max. Fence length:



| | |
|---------------------------|----------|
| Netting: | 6 x 50 m |
| According to CEE: | 40 km |
| Without any vegetation: | 10 km |
| Medium-height vegetation: | 3.5 km |
| High vegetation: | 1.2 km |

| | |
|---------------------------|-----------|
| Netting: | 10 x 50 m |
| According to CEE: | 50 km |
| Without any vegetation: | 15 km |
| Medium-height vegetation: | 4 km |
| High vegetation: | 1.4 km |

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (LxWxH):

Scope of delivery:

- 1.5 J
- 1 J
- 3 W
- 9,000 V
- 4,300 V
- 9.0 x 19.0 x 23.3 cm
- Energiser, mains plug, wall plugs, screws

- 2.8 J
- 2 J
- 5 W
- 14,000 V
- 5,200 V
- 9.0 x 19.0 x 23.3 cm
- Energiser, mains plug, wall plugs, screws

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10632 | | 209.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10996 | | 239.00 |

Product information & features:

www.horizont.com/10632

www.horizont.com/10996

Recommended accessories:

- Earth stake 1 x 1.5 m (15017, p. 92)
- Fence connection set (15522C, p. 96)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)
- Lightning arrester inductor (15482, p. 95)
- Ground cable (15321, p. 94)

- Earth stake 2 x 1.5 m (15017, p. 92)
- Fence connection set (15522C, p. 96)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)
- Lightning arrester inductor (15482, p. 95)
- Ground cable (15321, p. 94)

Selected accessories

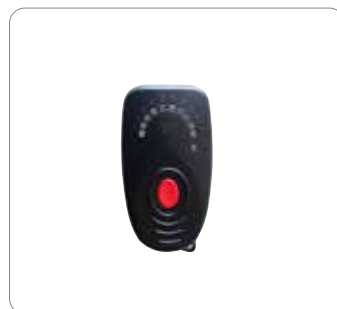
You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (15017, p. 92)



Fence connection set (15522C, p. 96)



farmer fence tester (14527C, p. 99)

230 V power supply unit hotshock®



Impulse control (cycle sequence monitoring)

- Lights up when the device falls short of its power limit – impaired operation

Central fence exit

- For paddocks and small meadows (output < 1 J)

Strong fence exit

- For large meadows

Earth outlet

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

Power control

- Shows the activity of the device
- Flashes in sync with the pulse emission

Energy source

Options for supplying power to this device:



230V AC

Special features

- Two fence exits for managing both a large and a small meadow or a paddock
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



Ventilation slots for removal of condensate

Area of use

- Ideal for robust, long-haired and feathered animals and for an anti-wildlife function
- Suitable for difficult repelling situations

★★ hotshock® N500 (hotshock N50)



| | | |
|---------------------------|---------------------------|-----------|
| Max. Fence length: | Netting: | 16 x 50 m |
| | According to CEE: | 120 km |
| | Without any vegetation: | 45 km |
| | Medium-height vegetation: | 20 km |
| | High vegetation: | 10 km |

Animal husbandry:



Input:

- 6 J

Max. Output:

- 5 J

Energy consumption:

- 8 W

Max. Voltage:

- 9,500 V

Voltage for 500 Ω:

- 6,000 V

Dimensions (LxWxH):

- 9.9 x 22.8 x 28.4 cm

Scope of delivery:

- Energiser, mains plug, wall plugs, screws

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10614 | | 319.00 |

Product information & features:

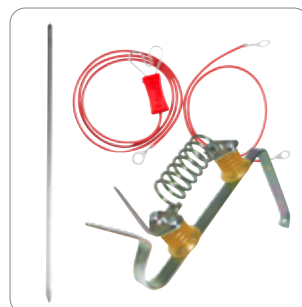
www.horizont.com/10614

Recommended accessories:

- Earth stake 2 x 1 m (14041-1, p. 92)
- Fence connection set (15522C, p. 96)
- Lightning arrester inductor (15482, p. 95)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (15017, p. 92), fence connection set (15522C, p. 96), lightning arrester inductor (15482, p. 95)



horizont special solutions for you

Announce your requests to the competent horizont employees and they will help you in professionally realizing your project. horizont works together in this area with many renowned specialists who can offer an individual complete solution on-site for problem cases.

+49 (0) 56 31 / 5 65 - 100

Energy source

Options for supplying power to this device:



230 V ^{AC}

Both devices have an extremely robust housing which is made out of specially high quality plastic (PC). The material is UV resistant, splash-proof and oil resistant

stallmaster

- A specially developed pulse generator for which the output values are matched to stall applications (cow trainer)
- The device will switch off after 4-5 pulses if the fence is touched by an animal for a longer period of time. The device is put into operation again by pulling the mains plug out of the socket for a few seconds and then inserting it again.
- Approved by the Bundesamt für Veterinärwesen (BVET)

scout N2

- The problem: From an hygienic point of view, city pigeons can be seen as belonging to a group of pests. Each year each city pigeon deposits about 10 to 12 kg of wet faeces. Building materials such as sand stone, concrete, aluminum, steel, marble and bricks are attacked by this pigeon faeces. The faeces penetrates into the material and slowly eats it away. Quite apart from the damage caused to the building by pigeon faeces, it looks unsightly and gives an uncared for impression. Furthermore pigeons can be carriers of pathogens. Also pigeon nests accumulate many kinds of vermin such as ticks and fleas, which can also infest domiciles.
- The solution: The most effective method to keep pigeons at bay is an electrical system in combination with the special pulse generator "scout® N2" from horizont. These electrical systems are virtually invisible and can be adapted as flexible profile building layout. The electrical conductors and connecting elements are made out of special alloys and create only a low electrical resistance even over longer installation paths.
- A special device exclusively suitable for protection against pigeons
- A particularly strong suppression for problem-free operation of the electrical devices in buildings

Power mains operated energiser

stallmaster



3 YEARS WARRANTY

Animal husbandry:



Input:
Max. Output:
Energy consumption:
Max. Voltage:
Dimensions (L x B x H):
Scope of delivery:
Product information & features:

- 0.15 J
- 0.10 J
- 1 W
- 5,000 V
- 7.3 x 11.1 x 14.4 cm
- Energiser, mains plug, screws, wall plugs

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10430 | | 249.00 |

Recommended accessories:

www.horizont.com/10430

- Ground cable (15321, p. 94)
- Earth stake 1 x 1 m (14041-1, p. 94)

scout N2



- 0.45 J
- 0.35 J
- 2 W
- 4,300 V
- 6.7 x 23.0 x 19.1 cm
- Energiser, mains plug, screws, wall plugs

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10407 | | 309.00 |

www.horizont.com/10407

- Ground cable (15321, p. 94)
- Two lightning arrester inductors (15482, p. 95)

The complete solution for protection against pigeons

The problem:



The solution:



Selected accessories

You will find the appropriate accessories for your horizont energiser from a comprehensive range here in the catalogue or on the horizont website, under the respective item number.



Ground cable (15321, p. 94), earth stake (14041-1, p. 92), lightning arrester inductor (15482, p. 94)

230 V power mains operated energiser ranger®



Impulse control (cycle sequence monitoring)

- Lights up when the device falls short of its power limit – impaired operation

Central fence exit

- For paddocks and small meadows (output < 1 J)

Strong fence exit

- For large meadows

Earth outlet

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

Control display

- **Voltage indicator:** 6-stage indicator for checking the fence voltage
- **Earthing checking** Display for checking the earthing

Voltage indicator

Earthing checking

Impulse control



Energy source

Options for supplying power to this device:



Special features

- Two fence exits for managing both a large and a small meadow or a paddock
- A clear and optical information display – easy to check from a distance
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Hanging device for mounting on a wall



Ventilation slots for removal of condensate

Area of use

- For the highest demands and dry lands
- Suitable for grazing animals such as cattle and horses



230 V power mains operated energiser

★★★ **ranger® N270**
(ranger N40)



★★★ **ranger® N420**
(ranger N80)



Max. Fence length:



Netting: 12 x 50 m
According to CEE: 60 km
Without any vegetation: 20 km
Medium-height vegetation: 5 km
High vegetation: 2 km

Netting: 16 x 50 m
According to CEE: 100 km
Without any vegetation: 40 km
Medium-height vegetation: 10 km
High vegetation: 4 km

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (L x B x H):

Scope of delivery:

• 3.4 J
• 2.7 J
• 5 W
• 13,500 V
• 5,400 V
• 9.9 x 22.8 x 28.4 cm
• Energiser, mains plug, wall plugs, screws

• 6 J
• 4.2 J
• 7 W
• 9,300 V
• 5,600 V
• 9.9 x 22.8 x 28.4 cm
• Energiser, mains plug, wall plugs, screws

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10608 | | 309.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10742 | | 379.00 |

Product information & features:

www.horizont.com/10608

www.horizont.com/10742

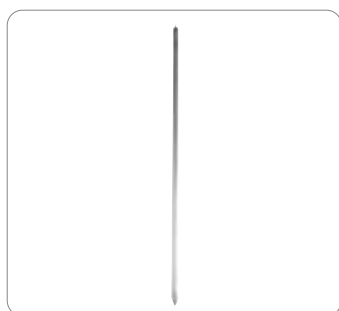
Recommended accessories:

- Earth stake 3 x 1.5 m (15017, p. 92)
- Lightning arrester inductor (15482, p. 95)
- Fence connection set (15522C, p. 96)
- International warning sign (14127, p. 100)
- Ground cable (15321, p. 94)

- Earth stake 3 x 1.5 m (15017, p. 92)
- Lightning arrester inductor (15482, p. 95)
- Fence connection set (15522C, p. 96)
- International warning sign (14127, p. 100)
- Ground cable (15321, p. 94)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (15017, p. 92)



Lightning arrester inductor (15482, p. 95)



Fence connection set (15522C, p. 96)

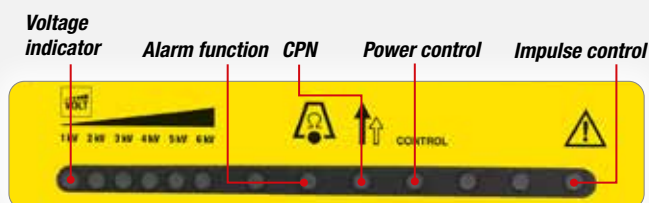
230 V power supply unit turbomax®



- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

LED control display

- **Voltage indicator:** 6-stage LED indicator for checking the earthing and the fence voltage
- **Alarm function** An optical and acoustic alarm for exceeding 400 Ohm; the fence should be checked for any interfering factors or damage
- **2-stage-technology CPN:** If faults occur, higher energies are delivered automatically, after a safety margin period of 55 seconds, into the fence (the LED lights up red), in order to maintain the herding security
- **Power Control:** Shows the activity of the device and flashes in sync with the pulse emission
- **Impulse control (cycle sequence monitoring)** Lights up when the device is in impaired operation



Energy source

Options for supplying power to this device:



230 V AC

Area of use

- Ideal for a strong performance to meet the highest demands
- Suitable for extremely long fences

Special features

- A clear and optical information display – easy to check from a distance
- Turbo-effect: when there are faults, the device delivers a second pulse to maintain the herding security



Hanging device for mounting on a wall

- turbomax technology: for fence loads > 500 Ohm, the device works with an enormously high energy potential in order to reliably supply the fence
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

★★★ turbomax® N1430
(horismart N280)



| | | |
|---------------------------|---------------------------|-----------|
| Max. Fence length: | Netting: | 30 x 50 m |
| | According to CEE: | 320 km |
| | Without any vegetation: | 85 km |
| | Medium-height vegetation: | 40 km |
| | High vegetation: | 25 km |

Animal husbandry:



| | |
|----------------------------|-------------------------|
| Input: | • 25 J |
| Max. Output: | • 14.3 J |
| Energy consumption: | • 35 W |
| Max. Voltage: | • 12,000 V |
| Voltage for 500 Ω: | • 4,600 V |
| Dimensions (LxWxH): | • 10.6 x 23.4 x 29.8 cm |
| Scope of delivery: | • Energiser, mains plug |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10748 | | 749.00 |

Product information & features:

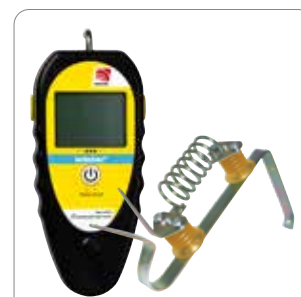
www.horizont.com/10748

Recommended accessories:

- Earth stake 7 x 2 m (14542-1, p. 92)
- Large volume rechargeable battery boxes (21264, p. 78)
- turbomax fence tester (14151C, p. 99)
- Lightning arrester inductor (15482, p. 95)
- International warning sign (14127, p. 100)
- Ground cable (15321, p. 94)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



turbomax fence tester (14151C, p. 99), lightning arrester inductor (15482, p. 95)



i



SOLAR DEVICES

The following horizon solar devices have an integrated solar module. This supports the 12 V rechargeable battery in as far as that one does not have to recharge it so often, since it discharges slower and more economically.

Solar support over the long-term is a worthwhile investment, above all in more sunny times of the year.

The solar devices offer the advantage that they are delivered completely assembled. The device can be put into operation immediately after the rechargeable battery has been fully charged. The components are perfectly matched to each other so that the devices on the fence allow a super performance.

Solar devices *trapper®*



Robust plastic solar panel

- Environmentally friendly use of the sun's energy
- A compact unit made up of the energiser and the solar module

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Ergonomic carrying handle

- Simple implementation with one hand is possible

Rear view



Earth outlet

Fence exit

Energy source

Options for supplying power to this device:



Special features

- A very stable housing
- Power control (pulse control)
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device
- Microprocessor controller



An integrated, replaceable 12 V rechargeable battery



Insertion profile for the earth rod in the housing



A 230 V charging socket for maintaining the charge of the integrated 12 V rechargeable battery



Screw cap at the rear to open the housing



Simple alignment of the solar panel to the sun due to the tilted front side

A tip

- Charge the rechargeable battery before putting in operation!

Area of use

- Ideal for small, simple electric fence systems
- Suitable for beginners and hobby livestock owners



Solar devices

★ trapper® AS25 (trapper AS35)



★ trapper® AS50 (trapper AS70)



Max. Fence length:



According to CEE: 8.5 km
Without any vegetation: 5 km
Medium-height vegetation: 3 km
High vegetation: 0.9 km

According to CEE: 18 km
Without any vegetation: 8 km
Medium-height vegetation: 3.5 km
High vegetation: 1.2 km

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (L x B x H):

Scope of delivery:

- 0.33 J
- 0.25 J
- 26 mA
- 9,000 V
- 3,000 V
- 23.1 x 37.4 x 32.0 cm
- Energiser, power supply unit, earth stake (about 30 cm), 12 V rechargeable battery, 5 W solar panel, fence and grounding cables

- 0.65 J
- 0.5 J
- 50 mA
- 11,000 V
- 3,600 V
- 23.1 x 37.4 x 32.0 cm
- Energiser, power supply unit, earth stake (about 30 cm), 12 V rechargeable battery, 10 W solar panel, fence and grounding cables

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14982 | | 299.00 |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14983 | | 359.00 |

Product information & features:

www.horizont.com/14982

www.horizont.com/14983

Recommended accessories:

- Earth stake 1 x 1 m (14041-1, p. 92)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)

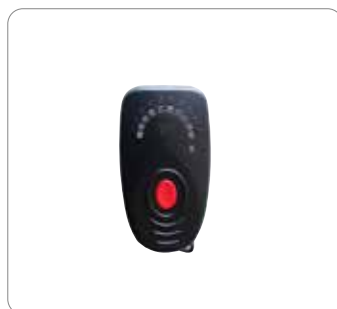
- Earth stake 1 x 1 m (14041-1, p. 92)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (14041-1, p. 92)

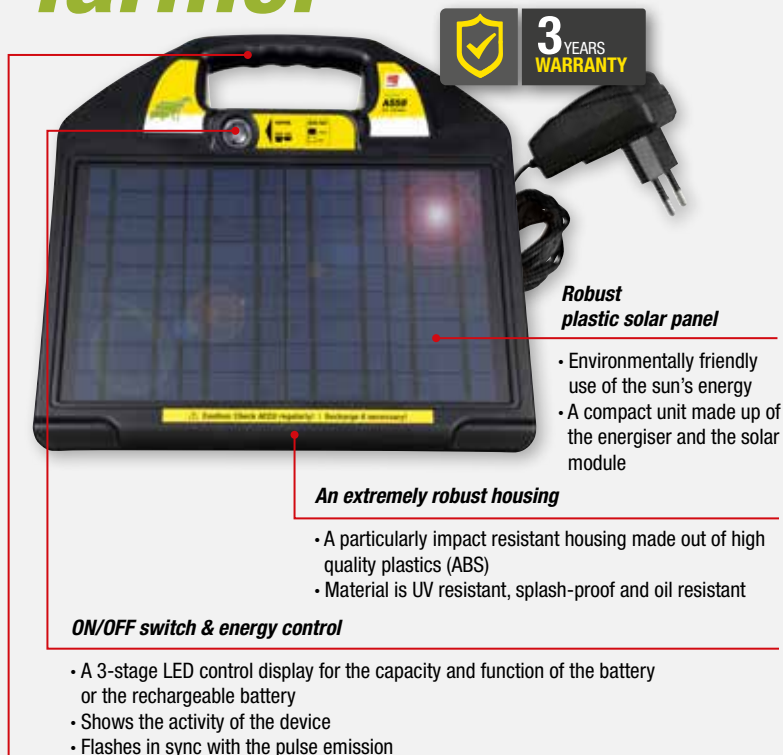


farmer fence tester (14527C, p. 99)



International warning sign (14127, p. 100)

Solar device farmer®



Ergonomic carrying handle

- Simple implementation with one hand is possible

Rear view



Energy source

Options for supplying power to this device:



Special features

- ECO Power: the power saver feature automatically adjusts the energy consumption to the status of the fence = the less energy consumption, the lower the environmental pollution and the lower the costs
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller



Insertion profile for the earth rod in the housing



A 230 V charging socket for maintaining the charge of the integrated 12 V rechargeable battery



Screw cap at the rear to open the housing



Simple alignment of the solar panel to the sun due to the tilted front side

A tip

- Charge the rechargeable battery before putting in operation!

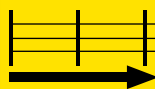
Area of use

- Ideal for calm grazing animals and normal operating conditions

★★ farmer® AS50



| | | |
|---------------------------|---------------------------|--------|
| Max. Fence length: | According to CEE: | 8.5 km |
| | Without any vegetation: | 5 km |
| | Medium-height vegetation: | 3 km |
| | High vegetation: | 0.9 km |



Animal husbandry:



| | |
|----------------------------|---|
| Input: | • 0.65 J |
| Max. Output: | • 0.5 J |
| Energy consumption: | • 20 - 50 mA |
| Max. Voltage: | • 11,000 V |
| Voltage for 500 Ω: | • 3,600 V |
| Dimensions (LxWxH): | • 23.1 x 37.4 x 32.0 cm |
| Scope of delivery: | • Energiser, power supply unit, 12 V rechargeable battery, 10 W solar panel, fence and grounding cables |

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14485 | | 369.00 |

Product information & features:

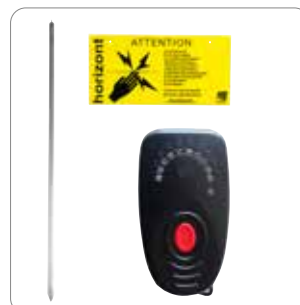
www.horizont.com/14485

Recommended accessories:

- Earth stake 1 x 1 m (14041-1, p. 92)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (14041-1, p. 92), farmer fence tester (14527C, p. 99), lightning arrester inductor (14127, p. 100)



Special device for pigeon plant *birdy A*

NEW



Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible
- The solar panel and earth stake are firmly attached to the device

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity up to 34 Ah

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Holding device for a solar panel

- Simple attachment of the solar panel to the holding device
- Four different arrangement angles and a transport position of the solar panel are possible

Energy source

Options for supplying power to this device:



Special features

- Robust plastic solar panel
- Environmentally friendly use of the sun's energy
- A compact unit made up of the energiser and the solar module
- Holding device for a solar panel
- Four different arrangement angles and a transport position
- A particularly stable housing, impact resistant plastic with a UV stabilizer
- Integrated earth stake
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device - problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001

Solar device *birdy A*



Animal husbandry:



- Input:** • 0.25 J
Max. Output: • 9-18 mA
Energy consumption: • 7,000 V
Max. Voltage: • 2,000 V
Voltage for 500 Ω: • 203 x 575 x 395.5 mm
Dimensions (LxWxH): • Energiser with a 30 W solar panel, 12 V / 34 Ah rechargeable battery, fence and grounding cables
Scope of delivery:

| Item No. | Unit | Price in € |
|----------|------|------------|
| 10895-30 | | 499.00 |

Product information & features:

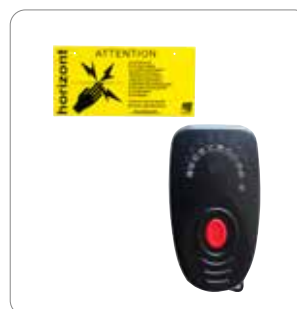
www.horizont.com/10895

Recommended accessories:

- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)

Selected accessories

You will find the appropriate accessories for your horizont energiser from a comprehensive range here in the catalogue or on the horizont website, under the respective item number.



farmer fence tester (14527C, p. 99)
International warning sign (14127, p. 100)

i



Solar devices ranger®



Ergonomic carrying handle

- Carrying comfort provided by the softgrip insert
- Simple implementation with one hand is possible
- The solar panel and earth stake are firmly attached to the device

An extremely robust housing

- A particularly impact resistant housing made out of high quality plastics (ABS)
- Material is UV resistant, splash-proof and oil resistant
- The housing can accommodate rechargeable batteries with a capacity up to 34 Ah

ON/OFF switch & energy control

- A 3-stage LED control display for the capacity and function of the rechargeable battery
- Shows the activity of the device
- Flashes in sync with the pulse emission

Holding device for a solar panel

- Simple attachment of the solar panel to the holding device
- Four different arrangement angles and a transport position of the solar panel are possible



Side view



Earth outlet

Fence exit

Energy source

Options for supplying power to this device:



Advantage: 2 in



Area of use

- Ideal for calm grazing animals and normal operating conditions

Special features

- Robust plastic solar panel
- Environmentally friendly use of the sun's energy • A compact unit made up of the energiser and the solar module
- Holding device for a solar panel
- Four different arrangement angles and a transport position
- A particularly stable housing, impact resistant plastic with a UV stabilizer
- Integrated earth stake
- Automatic switchover to solar operation
- Solar charge control, installed weatherproof in the device
- Problem-free charging from various types of rechargeable battery
- Microprocessor controller
- Checked and built according to the pertinent EU guidelines and the safety standards EN60335-7-76 and DIN EN ISO 9001



Devices can be tipped over particularly on uneven surfaces and / or by strong winds. Using the U-earth stake, devices can be positioned stably also in windy conditions and in uneven ground.



The rechargeable battery display shows the capacity, the charge level of the rechargeable battery in 3 stages. If the capacity one time drops too quickly, for example outside the season, the rechargeable battery can be slightly recharged.



The installed solar modules are characterized by their high efficiency. This is demonstrated by the small area for nominal power outputs of 20 and 30 watts. A solar charge regulator is installed in the devices.



The modules are attached to a plastic carrier plate and covered with a transparent plastic layer. The modules are installed in a plastic frame made out of polycarbonate to keep them stable.



Solar devices

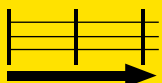
Dual

★★★ ranger® AS120

★★★ ranger® AS180



Max. Fence length:



| | |
|---------------------------|----------|
| Netting: | 6 x 50 m |
| According to CEE: | 43 km |
| Without any vegetation: | 12 km |
| Medium-height vegetation: | 4 km |
| High vegetation: | 1.4 km |

| | |
|---------------------------|----------|
| Netting: | 8 x 50 m |
| According to CEE: | 48 km |
| Without any vegetation: | 14 km |
| Medium-height vegetation: | 4.3 km |
| High vegetation: | 1.6 km |

Animal husbandry:



Input:

Max. Output:

Energy consumption:

Max. Voltage:

Voltage for 500 Ω:

Dimensions (LxWxH):

Scope of delivery:

- 1.5 J
- 1.2 J
- 28-104 mA
- 12,700 V
- 4,300 V
- 203 x 455 x 395.5 mm
- Energiser with a 20 W solar panel, 12 V / 34 Ah rechargeable battery, earth stake (double stake), fence and grounding cables, plug-in power supply

- 2.5 J
- 1.8 J
- 24-140 mA
- 11,100 V
- 4,600 V
- 203 x 575 x 395.5 mm
- Energiser with a 30 W solar panel, 12 V / 34 Ah rechargeable battery, earth stake (double stake), fence and grounding cables, plug-in power supply



| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10986 | | 359.00 |

| Item No. | Unit | Price in € |
|----------|------|---------------|
| 10987 | | 439.00 |

Product information & features:

www.horizont.com/10986

www.horizont.com/10987

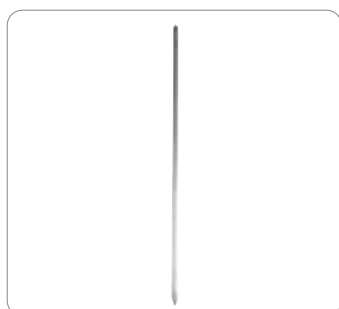
Recommended accessories:

- Earth stake 2 x 1 m (14041-1, p. 92)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)

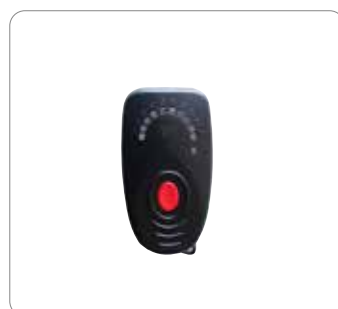
- Earth stake 2 x 1 m (14041-1, p. 92)
- farmer fence tester (14527C, p. 99)
- International warning sign (14127, p. 100)

Selected accessories

You will find the appropriate accessories for your horizon energiser from a comprehensive range here in the catalogue or on the horizon website, under the respective item number.



Earth stake (14041-1, p. 92)



farmer fence tester (14527C, p. 99)



International warning sign (14127, p. 100)



03

ENERGY SUPPLY

The pasture fence system must be energized with electricity before being put into operation to protect animals. There are certain factors to observe when selecting the correct energy supply. A power supply over power mains operated energiser is always achieved over the connection to a mains power supply network. In the case of rechargeable battery and battery powered devices, it is a matter of selecting the correct battery or the appropriate rechargeable battery for the respective energiser. In order to achieve an energy supply for as long as possible, supported and, above all, sustainable use of solar panels is possible.

Guide

Interesting Facts about Energy Supply

p. 70

Product guide

The practical overview which allows one to quickly find the suitable power source for your energiser

p. 72

PRODUCT RANGE

Dry and monobloc batteries

p. 76

12 V rechargeable batteries

p. 77

Accessories for rechargeable batteries and batteries

p. 78

Chargers and power mains operated energiser

p. 79

Carrying and safety boxes

p. 80

Solar solutions

p. 81

Solar holding devices

p. 86



INTERESTING FACTS ABOUT ENERGY SUPPLY

The pasture fence system must be energized with electricity before being put into operation to protect animals. There are certain factors to observe when selecting the correct energy supply. A power supply over power mains operated energiser is always achieved over the connection to a mains power supply network. In the case of rechargeable battery and battery powered devices, it is a matter of selecting the correct battery or the appropriate rechargeable battery for the respective energiser. In order to achieve an energy supply for as long as possible, supported and, above all, sustainable use of solar panels is possible.

1. Alkaline and carbon-zinc battery (9 volt)

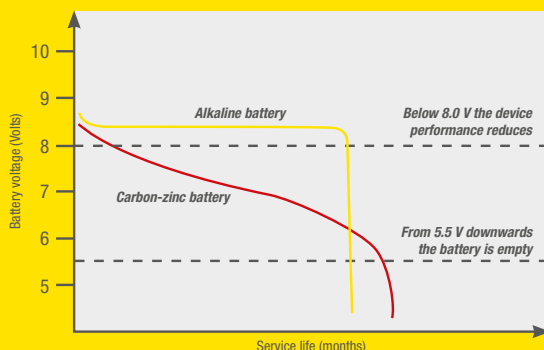
There are two different battery types. There are alkaline batteries (so-called air-oxygen batteries) and then there are carbon-zinc batteries. Both designs delivered by horizon are free of mercury and cadmium and are therefore environmentally friendly.

Alkaline battery:

The special feature of alkaline batteries is the voltage curve. These batteries maintain the same high voltage over almost their whole service life (see yellow carbon-zinc battery) and therefore guarantee a high herding security during their period of use – also when using powerful battery-powered devices.

Carbon-zinc battery:

The voltage curve for carbon-zinc batteries drops steadily over their service life (see the red carbon-zinc battery). From a battery voltage of about 5.5 V batteries are considered to be empty and must be replaced. Less powerful devices are powered by a carbon-zinc battery. The continuous drop in voltage does not impair the important herding voltage in the fence for low power requirements.



The alkaline battery is first activated through contact with oxygen. Before connecting it to the energiser, the sticker on the cover of an alkaline battery must be removed completely in order to activate it through contact with oxygen.

A tip

- Batteries cannot be recharged: your battery is empty when it has a (residual) voltage of 5.5 V and should be disposed of – every horizon battery can be stored for up to two years without any significant loss of capacity
- Every horizon battery is fitted with connecting cables – so there are no additional accessories required for connecting the energiser
- Only charge your special or super-fleece rechargeable battery using regulated chargers to guarantee a high operating period - optimal accessories can be found here: p. 79
- Ensure good aeration of the rechargeable battery

2. Super-fleece and special rechargeable battery (12 volt)

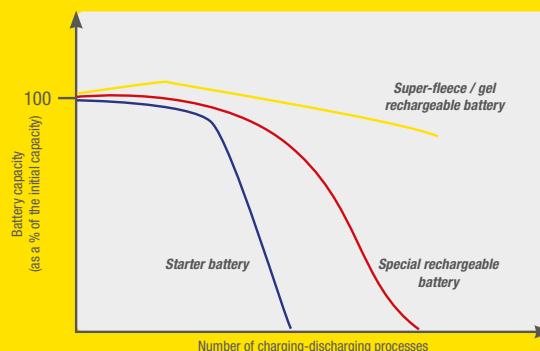
For energisers horizon recommends use of a super-fleece or a special rechargeable battery. Commonly used automobile starter batteries (rechargeable battery) have a decisive disadvantage for use with energisers due to a high self discharge. Furthermore they are only cycle-resistant to a limited extent, that is they can only tolerate significantly fewer charging/ discharging processes.

Super-Fleece Rechargeable Battery:

The horizon super-fleece rechargeable batteries for 12 V energisers are filled. They have a low self discharge and are very cycle-resistant. Super-fleece rechargeable batteries are completely closed which means that it is not possible for liquids to leak out, and the silicic acid is completely bound inside in fleece. Also topping up of battery acids is not necessary. During transport and operation one does not have to worry about the orientation of the rechargeable batteries; it makes no difference whether they lying down or standing. There is no need to order an additional connecting cable to connect a horizon super-fleece rechargeable battery since this is already in the scope of delivery of the rechargeable battery.

Special rechargeable battery:

The special rechargeable batteries from horizon are dry charged. In this case it is recommended to check the acid level once every four weeks. The acid level can be seen directly on the rechargeable battery at the Min. and Max. markings. The rechargeable battery should be fully charged before putting it into operation so that your energiser can be attached afterwards, problem-free. The poles of your special rechargeable battery should always be protected against the weather in order to promote a long service life and to avoid unwanted discharge. It is best to place your rechargeable battery on a firm and even substrate. For this it is recommended, for example, to use a large rechargeable battery transport box (p. 80). There is even space for your energiser in this box; it is lockable and therefore both the rechargeable battery and the energiser are protected against theft. You will not need an additional connecting cable to connect your rechargeable battery to your energiser; this is directly installed on the horizon energiser.

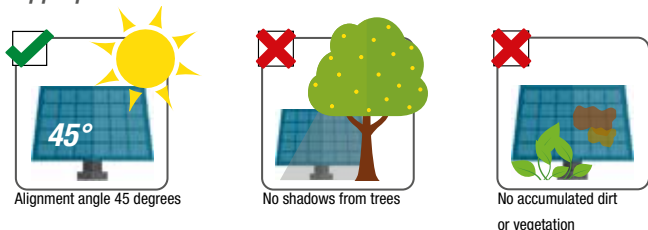


3. Solar

These days electrical power is being every more frequently generated using photovoltaic means since one wishes not only good for themselves but also for the environment. Ultimately one is saving on fossil fuels by generating power with a solar plant. In this way everyone can have a positive influence in the eco-balance. It is particularly this point about sustainability and environmental friendliness which can also be realized through additional use of horizon solar panels in combination with energisers.

All 50 watt solar panels from horizon have a practical charge regulator which adapts the voltage automatically so that the energisers and rechargeable battery are not damaged. Furthermore the horizon product range includes further solar panels with various different higher watt values. These solar panels are not fitted with an integrated charge regulator. This is installed in the device or is not necessary for the correct combination of the solar panel and a special rechargeable battery.

Appropriate Use of a Solar Panel:

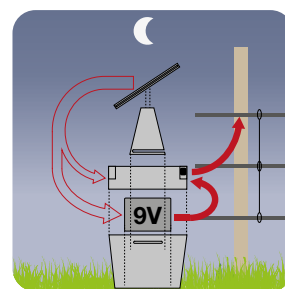
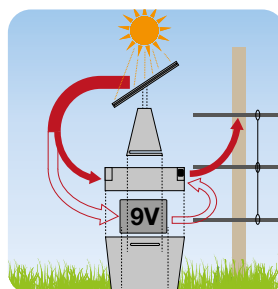


If you wish to check your rechargeable battery, unclamp the solar panel beforehand and wait about 15 minutes before measuring the voltage on the rechargeable battery. In this way you can be sure that you can also measure the true performance of the rechargeable battery – with support from the solar panel. You can keep the solar panel connected if you are measuring the rechargeable battery performance in the dark.

Your rechargeable battery can be charged over the solar panel. The first charging of the rechargeable battery – before its commissioning or before the beginning of the pasture season – should, however, take place over a regulated charger (p. 79). You could never exclusively power an energiser just with a solar panel. You must always attach a battery or a rechargeable battery as a buffer. Every 9 V and 12 V device from horizon can be additionally powered by a solar panel.

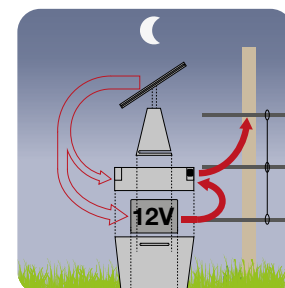
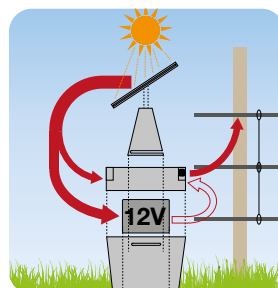


4. Commissioning a solar panel



Operation of an energiser with a solar panel and a battery:

- Operation of the energiser during the day over a solar panel is possible when there is sufficient sunlight
- Operation of the energiser at night over connected 9 V battery
- Take note: The battery will not be charged by the solar panel!



Operation of an energiser with a solar panel and a

rechargeable battery:

- Operation of the energiser during the day over a solar panel is possible when there is sufficient sunlight as well as simultaneous charging of the attached 12 V rechargeable battery
- Operation of the energiser at night over a connected 12 V rechargeable battery

Photovoltaic cells gather the sun light and convert it into electrical energy

The charge regulator integrated in the energiser provides protection against overcharging if necessary

The electrical impulse is led over the connecting cable into the fence

The rechargeable battery stores the energy generated



ENERGY SUPPLY

horizont recommends the following combination or additions for an optimal solar solution:

| Energiser | Energy | | Solar panel | Accessories Holding device |
|--|--|---|--|---|
| | Rechargeable battery | Battery | | |
|  ★ trapper® AN45 10867, p. 39 |  ★★★ 12 V special 63 Ah 14124, p. 77 | |  ★★ 10 watt solar panel 14545, p. 82 |  ★★ Holding device with post 14923, p. 86 |
|  ★ trapper® AN80 10866, p. 39 |  ★★★ 12 V special 88 Ah 14125, p. 77 | |  ★★ 10 watt solar panel 14545, p. 82 ★★★ 20 watt solar panel 14536, p. 83 |  ★★ Holding device with end-bearing pile 14923, p. 86 |
|  ★ trapper® AN120 10865, p. 39 |  ★★★ 12 V Special 100 Ah 14126, p. 77 | |  ★★★ 20 watt solar panel 14536, p. 83 |  ★★ Holding device with end-bearing pile 14923, p. 86 |
|  ★ trapper® B12 / B22 10616 / 10620, p. 31 |  ★★★ 12 V super fleece 12 Ah 15842, p. 77 |  ★★★ 9 V alkaline battery 120 Ah 15844E, p. 76 |  ★★ 2 watt solar panel 60140VP, p. 81 | |
|  ★ trapper® AB12 14497, p. 29 |  ★★★ 12 V super fleece 12 Ah 15842, p. 77 |  ★★★ 6V monobloc battery 230502E, p. 76 |  ★★★ 2.5 watt solar panel 14541C, p. 81 | |
|  ★★ farmer® ABN30 10891, p. 32 |  ★★★ 12 V super fleece 34 Ah 14501, p. 77 |  ★★★ 9 V alkaline battery 170 Ah 12012E, p. 76 |  ★★ 5 watt solar panel 14499, p. 81 | |



| <i>Energiser</i> | <i>Energy</i> | | <i>Solar panel</i> | <i>Accessories</i> | |
|--|---|---|--|--|--|
| | <i>Rechargeable battery</i> | <i>Battery</i> | | <i>Holding device</i> | <i>Transport / safety box</i> |
|  ★★ farmer® AN100 10896, p. 41 |  ★★★★★ 12 V special 88 Ah 14125, p. 77 | |  ★★ 10 watt solar panel 14545, p. 82 ★★★★★ 20 watt solar panel 14536, p. 83 |  ★★★★★ Holding device 14143, p. 86 |  ★★★★★ Safety box 14444 / 14906, p. 80 |
|  ★★ farmer® AN200 / AN300 10897 / 10882, p. 41 |  ★★★★★ 12 V special 100 Ah 14126, p. 77 | |  ★★ 10 watt solar panel 14545, p. 82 ★★★★★ 30 watt solar panel 14537, p. 84 |  ★★★★★ Holding device 14143, p. 86 |  ★★★★★ Safety box 14444 / 14906, p. 80 |
|  ★★ farmer® AN1000 / AN1000 Solar 10855 / 10856, p. 43 |  ★★★★★ 12 V AGM rechargeable battery 60 Ah 14548, p. 79 ★★★★★ 12 V super fleece 75 Ah, 14479, p. 79 | |  ★★ 10 watt solar panel 14545, p. 82 | | |
|  ★★ hotshock® A300 10613, p. 44 |  ★★★★★ 12 V special 100 Ah 14126, p. 77 | |  ★★ 20 watt solar panel 14536, p. 83 ★★★★★ 30 watt solar panel 14537, p. 84 |  ★★★★★ Holding device 14143, p. 86 |  ★★★★★ Safety box 14444 / 14906, p. 80 |
|  ★★ hotshock® ABN37 10892, p. 33 |  ★★★★★ 12 V super fleece 34 Ah 14501, p. 77 |  ★★★★★ 9 V alkaline battery 170 Ah 12012E, p. 76 |  ★★ 10 watt solar panel 14511, p. 81 | | |

Notice

You will find further product recommendations from horizon on the next pages.


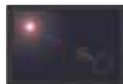






















i





ENERGY SUPPLY

horizont recommends the following combination or additions for an optimal solar solution:

| Energiser | Energy | | Solar panel | Accessories | |
|---|---|--|--|--|--|
| | Rechargeable battery | Battery | | Holding device | Transport / safety box |
|  ★★★ ranger® AN360 10997, p. 47 |  ★★★ 12 V special 100 Ah 14126, p. 77 | |  ★★★ 30 watt solar panel 14537, p. 84 |  ★★★ Holding device 14143, p. 86 |  ★★★ Safety box 14444 / 14906, p. 80 |
|  ★★★ ranger® AN490 10857, p. 47 |  ★★★ 12 V special 100 Ah 14126, p. 77 | |  ★★★ 50 watt solar panel 14873, p. 84 |  ★★★ Holding device 14143, p. 86 |  ★★★ Safety box 14444 / 14906, p. 80 |
|  ★★★ ranger® ABN60 10983, p. 34 |  ★★★ 12 V super fleece 34 Ah 14501, p. 77 |  ★★★ 9 V alkaline battery 170 Ah 12012E, p. 76 |  ★★★ 30 watt solar panel 14537, p. 84 | | |
|  ★★★ ranger® AN2000 / AN3000 10854 / 10992, p. 49 |  ★★★ 12 V special 85 Ah 14894, p. 77 ★★★ 12 V super fleece 75 Ah 14479, p. 77 | |  ★★ 20 watt solar panel 14536, p. 83 ★★★ 30 watt solar panel 14537, p. 84 | | |
|  ★★★ ranger® AN4800 10993 p. 49 |  ★★★ 12 V special 85 Ah 14894, p. 77 ★★★ 12 V super fleece 75 Ah 14479, p. 77 | |  ★★★ 30 watt solar panel 14537, p. 84 ★★★ 50 watt solar panel 14873, p. 84 | | |
|  ★★★ turbomax® AN800 10749, p. 50 |  ★★★ 12 V special 230 Ah 25012B, p. 77 | |  ★★★ 50 watt solar panel 14873, p. 84 |  ★★★ Holding device 14143, p. 86 |  ★★★ Rechargeable battery boxes 21264, p. 78 |
|  ★★★ turbomax® ABN80 10984, p. 35 |  ★★★ 12 V super fleece 34 Ah 14501, p. 77 |  ★★★ 9 V alkaline battery 170 Ah 12012E, p. 76 |  ★★★ 30 watt solar panel 14537, p. 84 | | |

Expert choice

Livestock owners recommend sustainable solar energy as an additional power supply and for securing the herding security. For example the 20 watt solar panel (14536, p. 85) has unbreakable solar cells made out of plastic and are therefore optimally suitable for use on pasture land.

i





Excellent

The Danish newspaper „Grene Kramp“ in a battery test series precisely tested the products from various manufacturers and their capacities

The alkaline batteries for the turbomax® series from horizont, during testing, delivered the best and clear-cut results.

After 50 days the horizont batteries were still delivering an impressive voltage of 7.5 Volt.

BEST CHOICE

9 V alkaline battery ★★★ turbomax®

Suitable for:

Advantage:

Storage:

Disposal:

- All 9 V pasture fence battery powered devices
- A higher voltage curve over the whole service life provides for an optimal device function
- For up to two years
- Included in the price

| Item no. | Designation | Power output | Width | Height | Depth | Unit | Price in € |
|----------|-----------------|--------------|---------|---------|---------|------|----------------|
| 14896E | turbomax® AB200 | 9 V / 200 Ah | 12.5 cm | 16.0 cm | 19.0 cm | 1 | 50.95 |
| 12012E | turbomax® AB170 | 9 V / 170 Ah | 12.5 cm | 16.0 cm | 19.0 cm | 1 | 40.95 |
| 12012PE | turbomax® AB170 | 9 V / 170 Ah | 12.5 cm | 16.0 cm | 19.0 cm | 45 | 1849.00 |
| 14057E | turbomax® AB150 | 9 V / 150 Ah | 11.0 cm | 11.5 cm | 16.5 cm | 1 | 36.95 |
| 15844E | turbomax® AB120 | 9 V / 120 Ah | 11.0 cm | 11.5 cm | 16.5 cm | 1 | 33.95 |
| 15509E | turbomax® AB75 | 9 V / 75 Ah | 11.0 cm | 11.5 cm | 16.5 cm | 1 | 25.95 |
| 15848E | turbomax® AB55 | 9 V / 55 Ah | 11.0 cm | 11.5 cm | 16.5 cm | 1 | 21.95 |

www.horizont.com/Item No.



15004E

15034E

www.horizont.com/Item No.

9 V carbon-zinc battery ★★★ ranger®

Suitable for:

Advantage:

Storage:

Disposal:

- All 9 V pasture fence battery powered devices
- A cost-effective alternative to the conventional alkaline battery
- Carbon-zinc batteries have a lower voltage curve than alkaline batteries over their whole service life
- For up to two years
- Included in the price

| Item no. | Designation | Power output | Width | Height | Depth | Unit | Price in € |
|----------|--------------|--------------|---------|---------|---------|------|--------------|
| 15004E | ranger® SB90 | 9 V / 90 Ah | 12.5 cm | 16.0 cm | 19.0 cm | 1 | 28.95 |
| 15034E | ranger® SB55 | 9 V / 55 Ah | 11.0 cm | 11.5 cm | 16.5 cm | 1 | 17.99 |



253967

230502

www.horizont.com/Item no.

6V monobloc battery ★★★

Suitable for:

Performance:

Storage:

Disposal:

- energiser trapper AB12 (14497, p. 29)
- High load capacity
- For up to two years
- Included in the price

| Item no. | Designation | Power output | Width | Height | Depth | Unit | Price in € |
|----------|--------------------------|--------------|--------|--------|---------|------|--------------|
| 253967E | High performance battery | 6 V / 7 Ah | 6.5 cm | 6.5 cm | 11.0 cm | 1 | 3.99 |
| 230502E | COMPACT | 6 V / 50 Ah | 6.5 cm | 6.5 cm | 11.0 cm | 1 | 19.99 |

A tip

All 9 V battery powered devices fit into the large and small battery housing. Alkaline batteries deliver an optimal herding voltage and should be used for powerful battery powered devices. Our product guide helps you select the suitable battery (p. 72). Furthermore, every horizont battery is free from mercury and cadmium.

12 V rechargeable battery

★★★ *special*

Suitable for:

- All 12 V pasture fence devices
- Extremely low self discharge
- A high cycle-resistance, dry charged
- already filled with battery acid

Storage:

- For up to two years

Charging:

- In order to avoid damage, please only charge with recommended chargers



www.horizont.com/ItemNo.

| Item no. | Power output | Capacity | Width | Height | Depth | Weight (without acid) | Unit | Price in € |
|----------|---------------|----------|---------|---------|---------|-----------------------|------|------------|
| 14124 | 12 V / 63 Ah | C20 | 24.6 cm | 17.5 cm | 19.0 cm | 10 kg | 1 | 139.00 |
| 14894 | 12 V / 85 Ah | C20 | 27.8 cm | 17.5 cm | 19.0 cm | 13 kg | 1 | 159.00 |
| 14125 | 12 V / 88 Ah | C20 | 35.3 cm | 17.5 cm | 19.0 cm | 15 kg | 1 | 169.00 |
| 14126 | 12 V / 100 Ah | C20 | 35.3 cm | 17.5 cm | 19.0 cm | 17 kg | 1 | 199.00 |
| 25012B | 12 V / 230 Ah | C20 | 48.0 cm | 27.0 cm | 21.0 cm | 62 kg (incl. acid) | 1 | 549.00 |

Excellent

Energisers require only low current flows to function optimally. Conventional automobile starter batteries are not suitable for powering energisers precisely for this reason; they are designed to deliver a particularly large current flow. Thus automobile starter batteries would be strongly loaded due to the low current flow – as required by an energiser – and their service life would be enormously curtailed. The 12 V special rechargeable battery from horizon is designed to deliver this low current flow and is therefore optimal suitable for delivering power to energisers. This also guarantees a very long service life.



12 V rechargeable battery

★★★ *super fleece / AGM rechargeable battery*

- Suitable for:**
- Types 15842 and 12025: 9 V pasture fence battery powered devices
 - Type 14501: hotshock energisers® ABN37 (10892), farmer® ABN30 (10891)
 - Type 14974: farmer energisers® AN1000 (10855), ranger® AN2000 (10854), ranger® AN3000 (10992)
 - Type 14479: farmer energisers® AN1000 (10855), ranger® AN2000 (10854), ranger® AN3000 (10992), ranger® AN4800 (10993)

- Advantage:**
- The horizon super fleece rechargeable battery has an extremely low self discharge Nevertheless when not used it is recommended to discharge it regularly, for example once every 2 months.

Maintenance:

- Maintenance-free

Storage:

- In any warehouse

Charging:

- In order to avoid damage, please only charge with recommended chargers (14864, 14863, p. 79)

Scope of delivery:

- Connecting cable for a super-fleece rechargeable battery (90439C)



www.horizont.com/ItemNo.

| Item no. | Designation | Design | Capacity | Width | Height | Depth | Unit | Price in € |
|----------|--------------|--------------|----------|---------|---------|---------|------|------------|
| 15842 | 12 V / 12 Ah | Super-fleece | C20 | 15.0 cm | 9.8 cm | 9.5 cm | 1 | 76.95 |
| 12025 | 12 V / 27 Ah | Super-fleece | C20 | 17.5 cm | 16.6 cm | 12.5 cm | 1 | 109.00 |
| 14501 | 12 V / 34 Ah | Super-fleece | C20 | 19.5 cm | 18.0 cm | 13.0 cm | 1 | 149.00 |
| 14974 | 12 V / 55 Ah | Super-fleece | C20 | 21.0 cm | 10.0 cm | 17.5 cm | 1 | 149.00 |
| 14479 | 12 V / 75 Ah | Super-fleece | C20 | 26.0 cm | 20.5 cm | 17.0 cm | 1 | 289.00 |
| 14548 | 12 V / 60 Ah | AGM | C20 | 24.0 cm | 20.0 cm | 17.0 cm | 1 | 199.00 |
| 14549 | 12 V / 80 Ah | AGM | C20 | 31.0 cm | 20.0 cm | 17.5 cm | 1 | 219.00 |
| 14600 | 12 V / 95 Ah | AGM | C20 | 35.0 cm | 19.0 cm | 17.5 cm | 1 | 239.00 |

Advantages of AGM rechargeable batteries:

- a long service life and a low self discharge
- maintenance-free (does not need to be topped up)
- Assembly is possible in any position without leakage
- excellent for difficult to reach locations

! Working safely with 12 V rechargeable batteries: Please observe the next page.

! Working safely with 12 V rechargeable batteries:



Do not smoke;
no naked flames; no sparks



Wear protective
goggles



Sulfuric acid



Keep out of the reach of
children



Observe the oper-
ating manual



An explosive gas
mixture

Extensive information can be found at: www.horizont.com/SichererUmgang



**Large volumerechargeable
battery boxes**

Suitable for: • 12 V special rechargeable battery with 230 Ah (25012B, p. 77)

Advantage: • Lockable with sufficient storage space for an energiser and re-chargeable battery
• Protect against the weather and theft

www.horizont.com/21264

| Item no. | Unit | Price in € |
|----------|------|------------|
| 21264 | 1 | 189.00 |



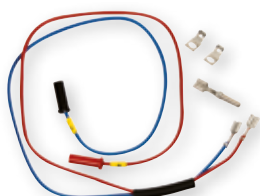
90501C



47BL1-2

**Rechargeable battery
connecting cable ★★**

Suitable for: • Connection to rechargeable batteries
• Type 90501C: 9 V energisers on 12 V special rechargeable batteries
• Type 90439C: 9 V energisers on super fleece rechargeable batteries
• Type 47BL1-2: trapper energisers® AN



90439C

| Item no. | Designation | Unit | Price in € |
|------------|--|------|------------|
| 90501C | for 12 V Special rechargeable battery, crocodile clips | 1 | 18.99 |
| 47BL1-2 | for trapper® AN devices | 1 | 15.95 |
| 90439C | for a super-fleece rechargeable battery | 1 | 9.99 |
| 47PLAS0237 | Connecting terminal, individual, black | 1 | 3.99 |
| 47PLAS0235 | Connecting terminal, individual, red | 1 | 3.99 |

www.horizont.com/Item No.

Charger charge box 3.6 A

- Suitable for:**
- 12 V special rechargeable batteries (p. 77) and super-fleece rechargeable batteries (p. 77) from 1.2 to 120 Ah
- Charging process:**
- Fully automatic and regulated
 - LED charge status indicator
 - Pulse/trickle/permanent charging
 - 230 V / 50 Hz operating voltage
- Protection:**
- Dust proof and splash-proof
- Scope of delivery:**
- Nylon bag
 - Adapter cable with pole clamps
 - Adapter cable with ring crimp terminal
 - Adapter cable with a plug for a cigarette lighter

Charging times for rechargeable batteries:

| | | |
|-------|--------|-----------|
| 15842 | 12 Ah | 4 hours |
| 12025 | 27 Ah | 6.5 hours |
| 14479 | 34 Ah | 10 hours |
| 14124 | 63 Ah | 14 hours |
| 14125 | 88 Ah | 21 hours |
| 14126 | 100 Ah | 23 hours |



www.horizont.com/14863

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 14863 | 1 | 83.95 |

Charger charge box 3.5 - 7.0 A

- Suitable for:**
- 12 V special rechargeable batteries (p. 77) and super-fleece rechargeable batteries (p. 77) from 14 to 230 Ah
- Charging process:**
- Fully automatic and regulated
 - LED charge status indicator
 - Pulse/trickle/permanent charging
 - 230 V / 50 Hz operating voltage
- Protection:**
- Dust proof, splash-proof, overheating and reverse polarity protection
- Scope of delivery:**
- Nylon bag
 - Adapter cable with pole clamps
 - Adapter cable with ring crimp terminal
 - Adapter cable with a plug for a cigarette lighter

Charging times for Rechargeable batteries:

| | | |
|--------|--------|----------|
| 15842 | 12 Ah | 4 hours |
| 12025 | 27 Ah | 5 hours |
| 14479 | 34 Ah | 5 hours |
| 14124 | 63 Ah | 8 hours |
| 14125 | 88 Ah | 11 hours |
| 14126 | 100 Ah | 12 hours |
| 25012B | 230 Ah | 29 hours |



www.horizont.com/14864

| Item no. | Unit | Price in € |
|----------|------|---------------|
| 14864 | 1 | 149.00 |

Excellent

The charger charge box 3.5 - 7.0 A is particularly powerful. The charging process is extremely quick but is still gentle for the rechargeable battery and charger since the charge box autonomously selects the respective number of amperes for charging. Also 12 Volt rechargeable batteries can be charged at the same time.



230 V power supply unit ★★ for energisers

- Suitable for:**
- Dual and combined devices (see Item No. below)

| Item no. | Designation | Unit | Price in € |
|--------------|---|------|--------------|
| 47PSU0008EU | trapper® AN: 10865, 10866, 10867 | 1 | 25.95 |
| 979211 | farmer® AN (up to construction year 2013): 10637, 10636 | 1 | 25.95 |
| 47PSU0010FEU | ranger® AN: 10993, 10992, 10854 farmer® AN: 10855, 10856 farmer® ABN30: 10891 hotshock® ABN37: 10892 | 1 | 25.95 |
| 47PSU0010EU | ranger® AN: 10857, 10997, 10858 farmer® AN: 10896, 10897, 10882 | 1 | 27.95 |



The illustration is just an example and shows the 47PSU0010EU

www.horizont.com/Item.No.



www.horizont.com/14906



Carrier box ★ for 12 V devices

- Suitable for:**
- 100 Ah rechargeable battery, solar panel holder, energisers for the series: trapper®, farmer®, ranger®, hotshock® and turbomax®
- Usage:**
- Light-weight transport of the energiser and rechargeable battery
- Material:**
- 1.5 mm galvanized
- Accessories:**
- Solar module holding device (14143, p. 86)

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|---------|------|------------|
| 14906 | 45.0 cm | 45.0 cm | 33.0 cm | 1 | 169.00 |

Safety box ★★★ electrifiable

- Suitable for:**
- All AN pasture fence devices with a fixture for mounting on a wall
- Anti-theft protection:**
- Lockable and electrifiable
 - Any unauthorized person touching the box receives a deterrent electric shock
 - Only the owner of the safety box can open the box with the aid of an insulated key
- Scope of delivery:**
- The safety box with two insulated key and a earth stake
- Accessories:**
- A 10 to 50 watt solar module
 - Solar module holding device (14143, p. 86)



www.horizont.com/14444



| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|---------|------|------------|
| 14444 | 27.3 cm | 44.5 cm | 53.0 cm | 1 | 269.00 |

Solar kit ★★ 2 watts

- Suitable for:** • Energiser: trapper® B12 (10616, p. 31), trapper® B22 (10620, p. 31), older equiSTOP 9 V devices
- Attachment:** • The solar kit is simply pushed onto the recessed grip of the energiser
- Scope of delivery:** • Complete with a connecting cable (50 cm), aluminum frame and push-on appliance
- Charge regulator:** • Not necessary since the charge regulator is installed in the recommended horizont energiser or is not needed
- Material:** • Solar panel: monocrystalline, frame: Aluminum



| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|--------------|
| 60140VP | 31.0 cm | 18.5 cm | 2.5 cm | 1 | 63.95 |

www.horizont.com/60140

Solar kit ★★ 2 watts

- Suitable for:** • Pasture fence battery powered devices from year of manufacture 1981 of the series ranger® and turbomax®
- Attachment:** • The solar kit is mounted directly on the carrying handle, which is just pushed on,
- Scope of delivery:** • 50 cm cable length
- Charge regulator:** • Yes
- It is also possible to put it into operation with energisers from other manufacturers
- Material:** • Solar panel: monocrystalline
• Frame: Aluminum



| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|--------------|
| 15264F | 31.0 cm | 18.5 cm | 2.5 cm | 1 | 74.95 |

www.horizont.com/15264F

Solar kit ★★★ 2.5 watts

- Suitable for:** • trapper® energiser AB12 (14497, p. 31)
- Attachment:** • The solar kit is pushed above onto the housing
- Scope of delivery:** • Connecting cable (50 cm)
- Charge regulator:** • Not necessary since the charge regulator is installed in the recommended horizont energiser or is not needed
- Material:** • Solar panel: monocrystalline
• Frame and swivelable holder: Plastic



| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|--------------|
| 14541C | 25.5 cm | 11.0 cm | 1.0 cm | 1 | 53.95 |

www.horizont.com/14541C

Solar kit ★★★ 5 and 10 watt

- Suitable for:** • Energisers: hotshock® ABN37 (10892, p. 33), farmer® ABN30 (10891, p. 32)
- Attachment:** • The solar kit is screwed in by means of an integrated holding device at the side into fixing points on the device
- Scope of delivery:** • 40 cm cable length
- Charge regulator:** • Not necessary since the charge regulator is installed in the recommended horizont energiser or is not needed
- Material:** • Solar panel: monocrystalline
• Frame: Plastic
- Scope of delivery:** • Solar panel with screws for fastening on the energiser



| Item no. | Power output | Length | Width | Height | Unit | Price in € |
|----------|--------------|---------|---------|---------|------|---------------|
| 14499 | 5 W | 39.0 cm | 26.5 cm | 13.7 cm | 1 | 119.00 |
| 14511 | 10 W | 39.0 cm | 26.5 cm | 13.7 cm | 1 | 179.00 |

www.horizont.com/14499
www.horizont.com/14511



www.horizont.com/141451



Solar module ★★ 5 watt

- Suitable for:**
- Older energisers farmer®/ ranger® A2000, A3000
 - 12 V Special rechargeable battery with 63 Ah (p. 77)
- Attachment:**
- Mounting on the device: with a solar holding device (14462, p. 86)
 - Mounting on the ground: with a solar holding device (14923, p. 86)
 - Mounting on the carrier or safety box: with a solar holding device (14907, p. 87 and 14192, p. 87)
- Scope of delivery:**
- Connecting cable (2 m)
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizon energiser or is not needed
- Material:**
- Solar panel: monocrystalline, frame: Aluminum

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|--------------|
| 141451 | 25.5 cm | 29.6 cm | 2.5 cm | 1 | 63.95 |



www.horizont.com/14152



Solar module

★★ 5 watt with holding device

- Suitable for:**
- Older energisers farmer®/ ranger® A1000, A2000, A3000
 - Safety box (14444, p. 80)
 - 12 V Special rechargeable battery with 63 Ah (p. 77)
 - Carrier box (14906, p. 80) in combination with the clip-on device (14156, p. 87)
- Attachment:**
- The solar kit is simply pushed onto the clip-on device
- Scope of delivery:**
- Connecting cable (40 cm)
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizon energiser or is not needed
- Material:**
- Solar panel: monocrystalline, frame: Aluminum

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|--------------|
| 14152 | 25.5 cm | 29.6 cm | 2.5 cm | 1 | 95.95 |



www.horizont.com/14545



Solar module ★★ 10 watt

- Suitable for:**
- Energisers: trapper AN80, trapper AN120
 - Rechargeable batteries up to 85 Ah
- Attachment:**
- Mounting on the device: with a solar holding device (14462)
 - Mounting on the ground: with a solar holding device (14923)
 - Mounting on the carrier or safety box: with a solar holding device (14143)
- Scope of delivery:**
- Connecting cable (1.8 m), connection terminals
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizon energiser or is not needed
- Material:**
- Solar panel: monocrystalline, frame: Plastic

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|---------------|
| 14545 | 39.0 cm | 29.6 cm | 2.8 cm | 1 | 139.00 |

Solar module ★★★ 10 watt with holding device

- Suitable for:**
- Energisers: farmer AN1000
 - Rechargeable batteries up to 85 Ah
- Attachment:**
- Mounting on the device: over a premounted solar holding device (14462)
 - Mounting on the ground: with a solar holding device (14923)
 - Mounting on the carrier or safety box: with a solar holding device (14143)
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizon energiser or is not needed
- Material:**
- Solar panel: monocrystalline
 - frame: Plastic
- Scope of delivery:**
- Solar panel with holding device and screws for fastening to horizon energisers, connecting cable (40 cm)



www.horizont.com/14546

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|---------------|
| 14546 | 39.0 cm | 29.6 cm | 2.8 cm | 1 | 149.00 |

Solar module ★★★ 20 watt

- Suitable for:**
- Energisers: trapper® AN80 (10866), trapper® AN120 (10865), farmer® AN100 (10896), farmer® AN200 (10897), farmer® AN300 (10882), farmer® AN1000 (10855)
 - Rechargeable batteries from 85 to 100 Ah
- Attachment:**
- Mounting on the device: with a solar holding device (14462, p. 86)
 - Mounting on the ground: with a solar holding device (14923, p. 86)
 - Mounting on the carrier or safety box: with a solar holding device (14143, p. 86)
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizon energiser
- Material:**
- Solar panel: monocrystalline, frame: Plastic
- Scope of delivery:**
- One 20 watt solar panel with a plastic frame, one connecting cable (1,8 m) with flat connectors, 6.3 mm crocodile clips



www.horizont.com/14536

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|---------------|
| 14536 | 45.5 cm | 39.0 cm | 2.8 cm | 1 | 219.00 |

Best choice

These solar modules are particularly light and unbreakable. The plastic frame with the rounded corners and solar cells are made out of plastic are extremely impact resistant.

BEST CHOICE

Solar module ★★★ 20 watt with holding device

- Suitable for:**
- Energisers: trapper® AN80 (10866), trapper® AN120 (10865)
 - Rechargeable batteries from 85 to 100 Ah
- Attachment:**
- Mounting on the device: with a solar holding device (14462, p. 86)
 - Mounting on the carrier or safety box: with a solar holding device (14143, p. 86)
- Scope of delivery:**
- 40 cm cable length
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizon energiser
- Material:**
- Solar panel: monocrystalline
 - frame: Plastic
- Scope of delivery:**
- One 20 watt solar panel with a plastic frame and holder, one connecting cable (40 cm) with flat connectors, 6.3 mm crocodile clips



www.horizont.com/14538

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|---------------|
| 14538 | 45.5 cm | 39.0 cm | 2.8 cm | 1 | 249.00 |



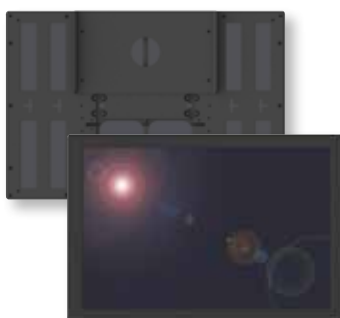
www.horizont.com/14537

Best choice

These solar modules are particularly light and unbreakable. The plastic frame with the rounded corners and solar cells are made out of plastic are extremely impact resistant.



www.horizont.com/14539



Solar module ★★★ 30 watt

- Suitable for:**
- Energisers: farmer® AN200 (10855), farmer® AN300 (10882), hotshock® A300 (10892), ranger® AN360 (10997), ranger® AN2000 (10854), ranger® AN3000 (10992), ranger® AN4800 (10993)
 - Rechargeable batteries with 100 Ah
- Attachment:**
- Mounting on the device: with a solar holding device (14462, p. 86)
 - Mounting on the ground: with a solar holding device (14923, p. 86)
 - Mounting on the carrier or safety box: with a solar holding device (14143, p. 86)
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizont energiser
- Material:**
- Solar panel: monocrystalline, frame: Plastic
- Scope of delivery:**
- One solar panel with a plastic frame, one connecting cable (1,8 m) with flat connectors, 6.3 mm crocodile clips

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|------------|
| 14537 | 57.5 cm | 39.0 cm | 2.8 cm | 1 | 269.00 |

Solar module

★★★ 30 watt with holding device

- Suitable for:**
- Energisers: farmer® AN200 (10855), farmer® AN300 (10882), hotshock® A300 (10892), ranger® AN360 (10997), ranger® AN2000 (10854), ranger® AN3000 (10992), ranger® AN4800 (10993)
 - Rechargeable batteries with 100 Ah
- Attachment:**
- Mounting on the device: with a solar holding device (14462, S. 86)
 - Mounting on the carrier or safety box: with a solar holding device (14143, p. 86)
- Charge regulator:**
- Not necessary since the charge regulator is installed in the recommended horizont energiser
- Material:**
- Solar panel: monocrystalline, frame: Plastic
- Scope of delivery:**
- One solar panel with a plastic frame and holder, one connecting cable (40 cm) with flat connectors, 6.3 mm crocodile clips

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|------------|
| 14539 | 57.5 cm | 39.0 cm | 2.8 cm | 1 | 279.00 |



www.horizont.com/14873

Best choice



The particularly powerful 50 watt solar module is fitted with a practical and directly integrated charge regulator. This special advantage protects the rechargeable battery from solar energy during charging. Thanks to the charge regulator, overcharging can be excluded. Apart from its high efficiency, the solar panel is also characterized by its efficient solar cells. There is no risk of injury on sharp edges since these are protected by plastic covers.

Solar module ★★★ 50 watt

- Suitable for:**
- Energisers: turbomax® AN800 (10749), hotshock® A300 (10613), ranger® AN490 (10857), ranger® AN4800 (10993)
 - Super-fleece rechargeable batteries up to 100 Ah
 - 12 V Special rechargeable battery with 230 Ah
- Attachment:**
- Mounting on wooden posts, for example (14131, p. 148): Two solar holding devices (14143, p. 86)
- Charge regulator:**
- Yes
- Material:**
- Solar panel: monocrystalline, frame: Aluminum
- Scope of delivery:**
- Complete with a connecting cable, aluminum frame and charge regulator

| Item no. | Length | Width | Height | Unit | Price in € |
|----------|---------|---------|--------|------|------------|
| 14873 | 98.5 cm | 44.5 cm | 3.5 cm | 1 | 339.00 |



FLEXIBLE – PRACTICAL – EFFICIENT

SOLAR POWER

made by horizon

Rechargeable battery-solar devices

Energisers with optimally matched rechargeable batteries and plastic solar modules for the best possible use of solar energy.

Solar compact devices

A plastic solar module and replaceable 12 V rechargeable battery in a compact and light device housing. Simple charging through a 230 V charging socket.



A TIP

Use two solar holding devices for very windy locations (14143, S. 86)

Plastic solar modules

Exclusive at horizon: Light, stable, unbreakable and powerful plastic solar modules. Can be used with all commonly used energisers and rechargeable batteries.



www.horizont.com/14923



Solar holding device ★★ with a post

- Suitable for:**
- 5 W solar module (141451, p. 82)
 - 10 W solar module (14545, p. 82)
 - 20 W solar module (14536, p. 83)
 - 30 W solar module (14537, p. 84)
- Attachment:**
- Fasten the retaining plate to the solar module and the metal rod with a footstep
 - The solar module can simply be erected with the post next to the energiser
- Material:**
- pole: galvanized iron
 - Retaining plate: Aluminum
- Length:**
- 62 cm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14923 | 1 | 34.95 |



www.horizont.com/14143



Solar holding device ★★★

- Suitable for:**
- Electrifiable safety box (14444, p. 80)
 - carrier box (14906, p. 80)
 - 5 W solar module (141451, p. 82)
 - 10 W solar module (14545, p. 82)
 - 20 W solar module (14536, p. 83)
 - 30 W solar module (14537, p. 84)
 - 50 W solar module (14873, p. 84)
- Tilt:**
- The tilt angle can be adjusted in the range 15 to 75 degrees
- Scope of delivery:**
- With fastening screws
- Material:**
- aluminum

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14143 | 1 | 62.95 |



www.horizont.com/14462



Solar holding device ★★★

- Suitable for:**
- 5 W solar module (141451, p. 82)
 - 10 W solar module (14545, p. 82)
 - 20 W solar module (14536, p. 83)
 - 20 W solar module (14538, S. 83)
 - 30 W solar module (14537, p. 83)
 - 30 W solar module (14539, S. 84)
 - Energisers: farmer® AN100 (10855), ranger® AN2000 (10854)
- Attachment:**
- Simply fasten to the hold points on the energiser and solar panel
- Material:**
- Powder coated aluminum

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14462 | 1 | 44.95 |

Solar holding device ★★clip-on device

- Suitable for:**
- Solar holding device with a short end-bearing pile 14907
 - Electrifiable safety box (14444, p. 80)
 - Carrier box (14906, p. 80)
- Attachment:**
- Simply screw onto the holding device, safety box or carrier box and put on the solar module
- Material:**
- Iron, powder coated

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14156 | 1 | 21.95 |



www.horizont.com/14156

Solar holding device ★★ with a short post

- Suitable for:**
- 5 W solar module (141451, p. 82)
 - 10 W solar module (14545, p. 82)
 - 20 W solar module (14536, p. 83)
 - 30 W solar module (14537, p. 84)
- Attachment:**
- Fasten the retaining plate to the solar module
 - The holding device can be used by placing it on the clip-on device (14156 or 14192)
- Material:**
- Stake: iron, galvanized
 - Retaining plate: Aluminum

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14907 | 1 | 25.95 |



www.horizont.com/14907

Solar holding device ★★

- Suitable for:**
- Holding device (14907, p. 87)
 - Older energisers: farmer® A1000, ranger® A3000
- Attachment:**
- Screw on the holding device place it on the solar module
- Material:**
- Iron, powder coated

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14192 | 1 | 14.99 |



www.horizont.com/14192

Earth stake Rechargeable battery devices

- Suitable for:**
- A ground and load bearing post with a footstep, total length 66cm
- Attachment:**
- Screw on the holding device and place it on the solar module
- Material:**
- Galvanized

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14899 | 1 | 12.99 |



www.horizont.com/14899



horizon

horizon

hotshock

ABN37



Particularly an electric fence performs its function through the deterrent effect of electric pulses. The electric fence itself only represents a minor mechanical barrier. Therefore the function of the electric fences is so important and one can only establish the security it offers by checking. Earthing is an inconspicuous element which nevertheless plays a very significant role in the system of the electric fence. Only correct earthing guarantees an optimal herding security.

Guide

Interesting facts about earthing & checking

p. 90

PRODUCT RANGE**Earthing**

- Earthing posts
- Underground cable

p. 92

Connecting

- Lightning arrester and fence switch
- Connecting cable

p. 95

Checking

- Fence tester
- Testing devices
- Accessories

S. 98



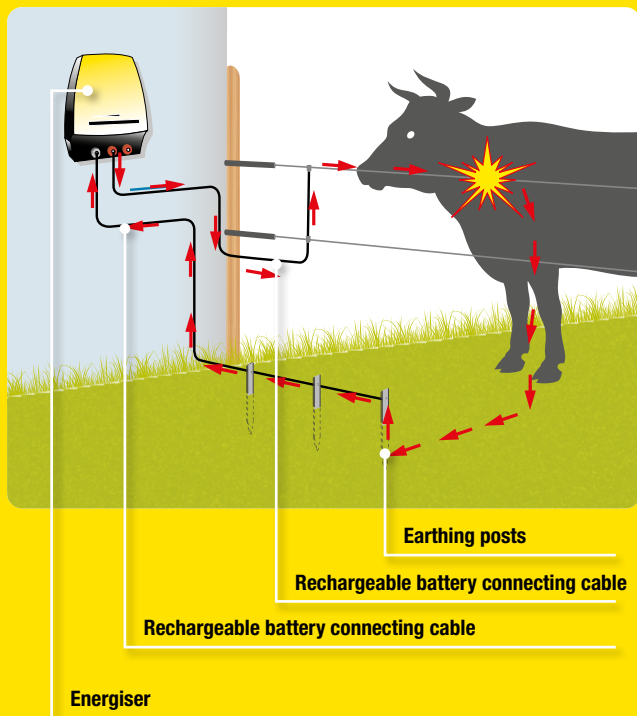
INTERESTING FACTS ABOUT

EARTHING & CHECKING

1. Why is earthing on the fence so important?

The most important prerequisite for an optimal herding security as well as full device performance on the fence is perfect earthing. The fence system is a circuit in which current flows.

Take note: The fence must not be constructed to close an electric circuit but is closed instead by an animal touching it. Thus the current flows from the energiser through the conductor, the animal's body (or vegetation) over the earth, through the earthing posts and to the device. In a case of inadequate earthing, less current flows as a result and the deterrent effect on the animal is less. The danger: The animal breaks out or comes into the fenced off area.



Close the electric circuit using the correct earthing

A tip: Detecting faults

✓ For rapid and precise fault detection:

For long feed lines from the energiser on the fence, connect these every 50-100 m in a junction box. This can easily be opened and the cables checked for good functionality by measuring the voltage. This could simplify fault detection greatly, particularly for cables rounded in the soil.

2. What should be taken into account concerning the nature of the ground?

The ground can have a very high resistance and the herding security of the pasture fence system can be greatly impaired. The goal is to minimize the ground resistance and this is achieved by obtaining good conductivity of the soil. Moist soils with a good turf promote conductivity while dry soils with little grass vegetation makes good earthing difficult. Also difficult weather conditions, such as a snow and a frost layer, can greatly impair the earthing. In the case of a sandy substrate it recommended to use an open or uninsulated ground conductor with regular spacing to achieve earthing. The less the soil conducts electricity, the more earthing posts one should use.

3. How does one properly earth an electric fence?

One or more earthing posts are placed in the ground, at least 1 m deep, until they reach damp earth. When using a number of earthing posts, one maintains a distance of 3 m between them. The earthing posts are then connected with the aid of a high voltage cable and a connecting cable to the energiser. The decisive factors are the number and depth of the earthing posts: The more and the deeper, the better. Take note: Only use galvanized, stainless materials for earthing since a layer of rust can greatly impair the effect.



A checklist for earthing

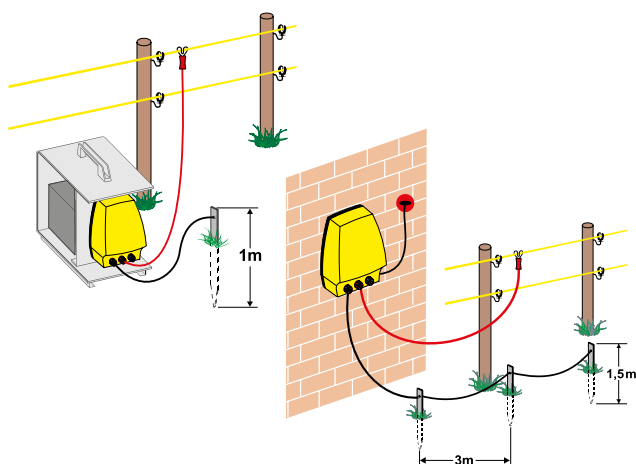
- ✓ Energiser (from p. 18)
- ✓ Earthing post (from p. 92)
- ✓ Grounding cable & connecting cable (from p. 96)
- ✓ Fence tester (from p. 98)

4. When and how is the earthing checked?

The reliability of the earthing should be checked when putting the pasture into operation in Spring and in the Summer dry periods. Also check when there are faults in the fence and when re-installing an energiser. One can use a certain measuring device for this, the fence tester (S. 100-102).

The test operates as follows: You cause a short circuit by placing iron posts on the electrical conductor about 100 m from the device. Ensure a good contact to the conductor and hammer the post at least 30 cm into the ground. The fence voltage will now drop to 2000 V (to 1000 V for dry soils).

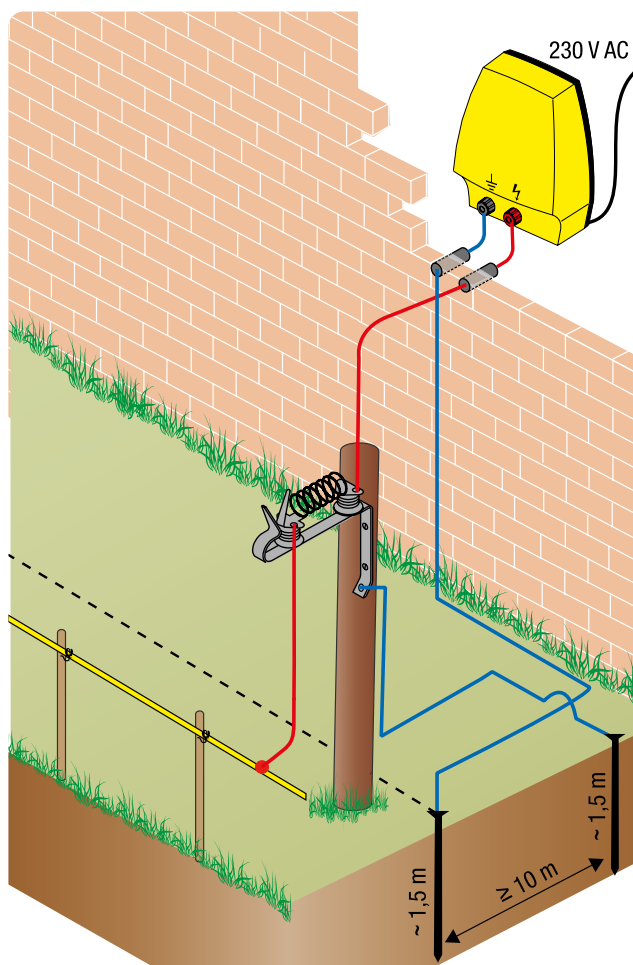
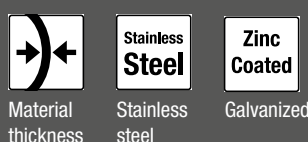
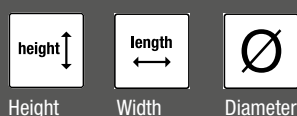
The ground rod of the voltmeter is inserted into the ground about 1 m from the last ground rod of the energiser and the measurement contact to the last ground rod of the energiser maintained. The value should be below 1000 V. Note: The smaller the value, the better. You should normally check your fence system daily and look out for your animals. Written documentation helps to verify that you have performed checking.



Important icons for this chapter:

Icons describing the product:

These icons describe properties of the properties of the earthing and checking.



Lightning arrester inductor for larger systems on buildings

5. What safety regulations must be observed?

When earthing the energiser one should maintain a minimum distance of 10 m to other earthing systems (e.g. building earthing) in order to prevent flash over of the voltage (for example during a lightning strike). This safety distance is important not to endanger the house earthing including water and power supply lines. The distance of the earthing to the energiser and the lightning arrester should also be at least 10 m.

The energiser can be destroyed by an excessively high voltage (such as that from a lightning strike); the fence is no longer functional and an animal can break out. One can prevent this by mounting a lightning arrester between the energiser and the fence system. This is regulation inside a building. It is seen as a recommendation for assembly outside of buildings. If one uses a power supply unit it is particularly meaningful to do this since the current on the power network can flash over.

A so-called lightning arrester inductor effectively protects the energiser against damage caused by a lightning strike and excessively high voltages.



• A large contact surface to the ground ensures efficient earthing

 www.horizont.com/Item No.



3 mm

Zinc Coated




14542-1 15017 14041

T-earth stake ★★★


Suitable for: • Rechargeable batteries and power mains operated energiser
Length: • 200 cm
Material: • Angle iron, galvanized
Material thickness: • 3 mm
Scope of delivery: • Complete with a connecting screw

| Item No. | Unit | Price in € |
|----------|------|--------------|
| 14542-1 | 1 | 24.95 |

Suitable for: • Rechargeable batteries and power mains operated energiser
Length: • 150 cm
Material: • Angle iron, galvanized
Material thickness: • 3 mm
Scope of delivery: • Complete with a connecting screw



| Item No. | Unit | Price in € |
|----------|---|--------------|
| 15017 |  | 50.95 |
| 15017-1 | 1 | 18.99 |

Suitable for: • Rechargeable batteries and power mains operated energiser
Length: • 100 cm
Material: • Angle iron, galvanized
Material thickness: • 3 mm
Scope of delivery: • Complete with a connecting screw

| Item No. | Unit | Price in € |
|----------|---|--------------|
| 14041 |  | 41.95 |
| 14041-1 | 1 | 14.99 |

Earthing and end-bearing pile
with angular piece ★★

- Suitable for:**
 - horizont battery powered devices from year of manufacture 1981: currently: turbomax® (10285), (10555), (10841), (10616, p. 33), (10620, p. 31)
- Length:**
 - 32 cm
- Material:**
 - Galvanized
- Material thickness:**
 - 2 mm
- Scope of delivery:**
 - Complete with a connecting screw

| Item No. | Design | Unit | Price in € |
|----------|----------------------------------|---|--------------|
| 88178 | Earthing post with angular piece |  | 10.99 |
| 80054 | Individual earthing post |  | 6.99 |



[www.horizont.com/Item No.](http://www.horizont.com/Item%20No.)

length

↔

32 cm


↔

2 mm

Zinc Coated

Earthing and end-bearing pile ★★

- Suitable for:**
 - 9 V battery powered devices
- Advantage:**
 - A hole must be drilled into the battery box to assemble it, which means that the earthing post is firmly screwed to the device
- Length:**
 - 25 cm

| Item No. | Unit | Price in € |
|----------|---|--------------|
| 14178 |  | 12.99 |



www.horizont.com/14178

length

↔

25 cm



www.horizont.com/Item No.

Flexible gate/fence/ground cable

- Usage:**
- Above ground and below ground fence feed lines, connection to earthing rods and for power supply at gates
- Advantage:**
- Double insulated
 - Copper conductor
 - The dielectric strength is < 20,000 V
 - 14523: Incl. eyelets for connection

| Item No. | Coil | Diameter | max. feed length | Resistance | Unit | Price in € |
|----------|------|----------|------------------|------------|------|--------------|
| 14523U | 8 m | 1.6 mm | 8 m | 0.01 Ω/m | 1 | 9.95 |
| 14524 | 50 m | 1.6 mm | 500 m | 0.01 Ω/m | 1 | 31.95 |



www.horizont.com/Item No.



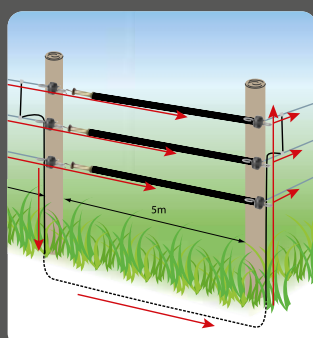
Underground/connecting/feed cable

- Usage:**
- Above ground and below ground fence feed lines, connection to earthing rods and for power supply at gates
- Advantage:**
- Double insulated
 - Conductor made out of galvanized iron wire
 - The dielectric strength is < 20,000 V

| Item No. | Coil | Diameter | max. feed length | Resistance | Unit | Price in € |
|----------|-------|----------|------------------|------------|------|---------------|
| 15321 | 10 m | 1.6 mm | 500 m | 0.07 Ω/m | 1 | 14.99 |
| 14040 | 25 m | 1.6 mm | 500 m | 0.07 Ω/m | 1 | 23.95 |
| 15525 | 50 m | 1.6 mm | 500 m | 0.07 Ω/m | 1 | 49.95 |
| 15956 | 100 m | 1.6 mm | 500 m | 0.07 Ω/m | 1 | 84.95 |
| 15516 | 100 m | 2.5 mm | 1,000 m | 0.035 Ω/m | 1 | 139.00 |

Product tip

In order to protect the underground cable it is meaningful to route this in a protective hose or pipe.



Take a look at our YouTube channel sometime!

This explains the horizont pasture fence guide; correct construction of a pasture fence gate.

www.horizont.com/torbau



A gate in a pasture fence should always be constructed out of the gate set with a ground cable running in parallel. In this way the fence will still be electrified over the ground cable when the gate is opened. For a closed gate, the gate handle sets are electrified over the gate handle mounted in the

gate handle insulator. The conductor material is to be mounted in an insulator which is not connected to the fence. In this way the gate is only energized when it is closed. A gate handle lying on the ground can then no longer create any diversions of power or faults.


Lightning arrester inductor ★★

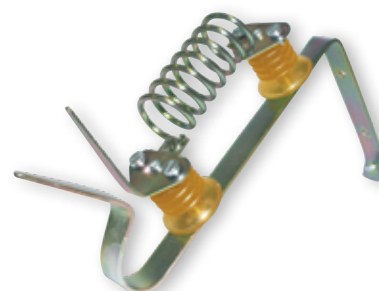
Suitable for:

- Electric fence installation at building installations

Advantage:

- Effectively protects the energiser from damage due to a lightning strike and an excessively high voltage

| Item no. | Unit | Price in € |
|----------|---|------------|
| 15482 |  | 17.99 |



www.horizont.com/15482

Product tip

Energisers with two fence outputs need two lightning arresters!



Safety instruction:

In order to protect against lightning damage, an earthed lightning spark gap must be installed in the fence power supply line to the building, or before introduction into a building. The lightning protection device must be installed professionally when the device is attached inside the building.

The wiring is to be undertaken by the specialist according to the assembly manual. Do not bring together the lightning protection earth electrode and the signal ground of the electric fence system

Lightning protection device ★

Suitable for:


- Mobile battery and rechargeable battery powered devices < 1 J

Advantage:

- Assembly on the wall or on the fence

Dimensions:

- 12 x 6.5 cm

| Item no. | Unit | Price in € |
|----------|---|------------|
| 14085C |  | 18.99 |



www.horizont.com/14085C



12 cm



6.5 cm

Fence switch ★★

Suitable for:


- For switching the current on and off

Advantage:

- Two outputs can be switched
- Can be used independently of the energiser

Dimensions:

- 6 x 12 cm

| Item no. | Unit | Price in € |
|----------|---|------------|
| 14865C |  | 13.99 |

Switch positions:

- 0 = Off
- I = Fence system 1
- II = Fence system 2
- I+II = Fence systems 1 and 2



www.horizont.com/14865C



6 cm



12 cm

On/Off switch★★

Suitable for:


- For switching the current on and off

Advantage:

- One fence system or individual sections of the fence can be switched
- Can be used independently of the energiser

Dimensions:

- 12 x 6.5 cm

| Item no. | Unit | Price in € |
|----------|---|------------|
| 14084C |  | 15.99 |



www.horizont.com/14084C



12 cm



6.5 cm



www.horizont.com/15522C

Zinc
Coated



Fence connection set ★★

- Suitable for:** • Heart-shaped clip for connection to tape up to 12 mm (from p. 132), rope (from p. 136), polywire (p. 140) and wire (from p. 144)
- Advantage:** • A high voltage cable of the heart-shaped clip with a reinforced plastic coating for avoiding voltage flash overs
- Material:** • Galvanized
- Scope of delivery:** • Connecting cable 100 cm, ground cable 50 cm

| Item no. | Unit | Price in € |
|----------|---|-------------|
| 15522C |  | 8.99 |



www.horizont.com/10286C

length
↔


100 cm

Zinc
Coated



Fence terminal ★★

- Suitable for:** • Connection between the device and tape up to 40 mm (from p. 132), rope (from p. 136), polywire (p. 140) and wire (from p. 144)
- Advantage:** • A high voltage cable with a reinforced plastic coating
• Safe and secure contact, particularly for large energies
- Cable length:** • 100 cm
- Material:** • Galvanized

| Item no. | Unit | Price in € |
|----------|---|-------------|
| 10286C |  | 9.99 |

Fence connection set ★★★

- Suitable for:** • Crocodile clips for connection to tape up to 40 mm (from p. 132), rope (from p. 136), polywire (p. 140) and wire (from p. 144)
- Advantage:** • The connecting cable has a reinforced plastic coating to avoid voltage flash overs
- Cable length:** • 150 cm
- Material:** • Stainless steel
- Scope of delivery:** • Connecting cable with ring eyelets, crocodile clips

www.horizont.com/14879C

length
↔

150 cm


Stainless
Steel



| Item no. | Unit | Price in € |
|----------|--|--------------|
| 14879C | Fence connection set  | 10.99 |

Device and ground connection set ★★★

- Suitable for:**
- Heart-shaped clip for connection to tape up to 12 mm (from p. 132), rope (from p. 136), polywire (p. 140) and wire (from p. 144)
 - Grounding cable for fastening onto a ground rod
- Advantage:**
- A high voltage cable with a reinforced plastic coating
- Material:**
- Galvanized
- Scope of delivery:**
- Ground rod, 2 m fence connecting cable, 3 m grounding cable, warning sign

| Item no. | Unit | Price in € |
|----------|---|------------|
| 15858C |  | 23.95 |




www.horizont.com/15858C

Zinc Coated

Grounding cable complete with a screw

- Suitable for:**
- Connection between the ground rod and the energiser
- Advantage:**
- High voltage cable with double insulation
 - Complete with a connecting screw
- Cable length:**
- 90 cm
- Material:**
- Stainless steel


| Item no. | Unit | Price in € |
|----------|---|------------|
| 90150C |  | 7.49 |



www.horizont.com/90150C

Fence terminal ★★★

- Suitable for:**
- Connection between the device and fence material of tape up to 40 mm (from p. 132)
- Advantage:**
- A high voltage cable with a reinforced plastic coating
 - For a safe and secure contact, particularly for large energies
- Cable length:**
- 100 cm
- Material:**
- Stainless steel

| Item no. | Unit | Price in € |
|----------|---|------------|
| 10447C |  | 6.99 |



www.horizont.com/10447C

length
100 cm

Stainless Steel

Fence terminal ★★★

- Suitable for:**
- Connection between the device and fence material of rope up to 6 mm (from p. 136)
- Advantage:**
- A high voltage cable with a reinforced plastic coating
 - For a safe and secure contact, particularly for large energies
- Cable length:**
- 70 cm

| Item no. | Material | Unit | Price in € |
|----------|------------|---|------------|
| 10593C | galvanized |  | 7.99 |



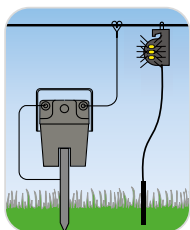
www.horizont.com/Item No.

length
70 cm

Stainless Steel

Earthing & checking

Fence tester for daily checking / A permanently installed fence tester



 www.horizont.com/14082C



Fence tester ★ Isotester 6000

Advantage:


- Simple and quick checking of the fence system
- Fence voltage display in 3 stages: 2,000 V, 4,000 V and 6,000 V

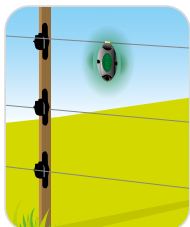
Operation:

- Without a battery

Scope of delivery:

- Fence tester

| Item no. | Unit | Price in € |
|----------|---|------------|
| 14082C |  | 15.99 |



 www.horizont.com/14149C



Fence tester ★★ Flash 2000

Advantage:


- Optical function display in twilight and in darkness
- The device lights up in sync with the current pulse and goes out under a fence voltage of 2,000 V
- The measuring device does not need an earthing connection (it is simply hung on fence material)
- An additional deterrent for wild animal fences

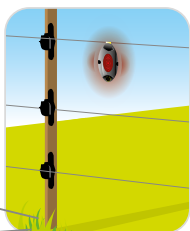
Operation:

- By battery

Scope of delivery:

- Fence tester, 3 V lithium battery CR2032

| Item no. | Unit | Price in € |
|----------|---|------------|
| 14149C |  | 30.95 |



 www.horizont.com/15537C



Fence tester ★★ volt alarm

Advantage:


- Optical function display in a case of dropping of the fence voltage
- The measuring device does not need an earthing connection (it is simply hung on fence material)
- Two modes can be set per switch (Stage 1: lighting up the lamp for a fence voltage below 2,000 V, Stage 2: lighting up the lamp for a fence voltage below 4,000 V)

Operation:

- By battery


Scope of delivery:

- Fence tester, 3 V lithium battery CR2032

| Item no. | Unit | Price in € |
|----------|---|------------|
| 15537C |  | 31.95 |

Fence tester ★ farmer®

- Advantage:**
- 10 recessed LEDs – very good legibility also for a strong incidence of light
 - The recessed button prevents unintended operation
 - No earthing over the earthing cable is necessary
 - Battery checking display
- Operation:**
- By battery (two* CR2016 3V lithium batteries)
- Scope of delivery:**
- Fence tester and 2 batteries

| Item no. | Unit | Price in € |
|----------|---|--------------|
| 14527C |  | 26.95 |



www.horizont.com/14527C

Fence tester ★★★ ranger®

- Advantage:**
- Digital indicator for exact reading off of the voltage
 - The device switches on automatically when there is a fence voltage present
 - Non-slip insulation of the earthing post allows safe operation
 - When not in use the cable can be wound around the fence tester – simple handling and additional protection against damage
- Operation:**
- By battery
- Scope of delivery:**
- Fence tester, battery


| Item no. | Unit | Price in € |
|----------|---|--------------|
| 14496C |  | 54.95 |



www.horizont.com/14496C

Fence tester ★★★ turbomax® fence scout

- Advantage:**
- A measuring device for the fence voltage, current strength and as a fault finder
 - Measurement range up to 10,000 V
 - Display of the direction of current flow
 - Direction indicator in the case of a fault
 - Display illumination
 - Acoustic signals
 - With a battery checking display
- Operation:**
- By battery
- Scope of delivery:**
- Fence tester, 9 V mono-bloc battery, belt bag

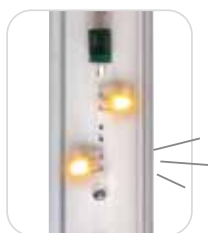
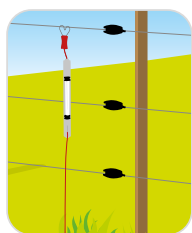
| Item no. | Unit | Price in € |
|----------|---|---------------|
| 14151C |  | 169.00 |



www.horizont.com/14151C

Earthing & checking

Accessories | checking | fence tester for daily checking



Fence tester ★★★ neonlight

Advantage:

- Optical function display in twilight and in darkness
- Made in the design of a neon lamp with LEDs
- The device lights up in sync with the current pulse and goes out under a fence voltage of 2,000 V
- An additional deterrent for wild animal fences

Operation:

Scope of delivery:

- Without a battery
- Fence tester

| Item no. | Unit | Price in € |
|----------|------|------------|
| 10424C | 1 | 32.95 |

www.horizont.com/10424C

Notice

The SMS socket should be attached in a room protected from moisture.



SMS socket ★ DRH-301-V4 master

Advantage:

- A completely new build with a 4G LTE module
- Works with all European SIM cards: 2G, 3G, 4G LTE
- Integrated time switch
- Alarm function; works with radio sensors
- An alarm message in a case of power failure via SMS or a call

Operation:

Scope of delivery:

- Max. of four SLAVE units can also be switched
- Operation by app is possible
- Local power mains operation
- SMS socket, SIM card not included

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14936 | 1 | 189.00 |

www.horizont.com/14936

International warning sign ★★

Suitable for:

Dimensions:

Scope of delivery:

- For fastening onto conductor material
- 20 x 10 cm
- The warning sign is printed on both sides; a cable tie for fastening

length
20 cm



| Item no. | Unit | Price in € |
|----------|------|------------|
| 14127 | 4 | 9.99 |
| 14127C | 4 | 10.99 |

www.horizont.com/Item No.

LUDA farm solarcharger 3 W ★★

Suitable for:

Advantage:

- Luda fencealarm (38LUD1072)
- Charges the Luda fencealarm during a sunny day
- The Luda fencealarm does not have to be removed to charge it
- Stable frame and holder
- Light construction of the solar panel and frame made out of plastic
- Monocrystalline solar panels
- With a swivel joint for ideal alignment to the sun



| Item no. | Unit | Price in € |
|-----------|------|------------|
| 38LUD1085 | 1 | 87.95 |

www.horizont.com/38LUD1085

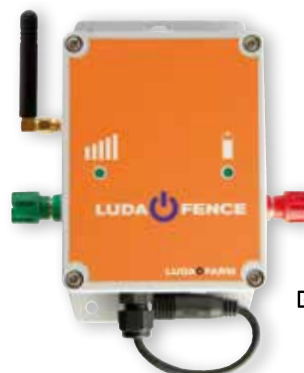
LUDA fencealarm ★★

Advantage:

Operation:

Scope of delivery:

- Fence monitoring by mobile telephone, therefore saving up to 50 work hours per year
- Fence voltage monitoring with an alarm function
- Can be integrated anywhere in the fence system
- Can be used independent of location wherever there is an adequate GSM network cover
- Free download of the My.Luda.Farm app for monitoring
- Integrated, chargeable rechargeable battery
- Luda.FenceAlarm fence sensor, outdoor charger 220 V, earth rod, outdoor charging cable 12 V, fence and ground terminal, integrated SIM card



www.horizont.com/38LUD1072

| Item no. | Unit | Price in € |
|-----------|------|------------|
| 38LUD1072 | 1 | 309.00 |

A tip

Use all functions in the My.Luda.Farm app!



| Range of functions | Free | Alarm+ |
|--|-----------------------------|---|
| Automatic alarms | - | ✓ |
| Unlimited number of alarm recipients | - | ✓ |
| Fence voltage graph™ 1 | - | 30 days |
| Frequency of status updating | Every 48 hours ² | In the case of a change in voltage ³ |
| An alarm indicating a low battery charge level | ✓ | ✓ |
| Price in € | 0 | 60 €/year ⁴ |



05 | NETTING

Construction of complete fences is significantly simplified by using netting. Posts, connectors or polywires are already built into every netting section. Additionally all netting offers practical protection against predators and intruders from outside.

Product guide **p. 104**
Interesting facts about netting

Product guide **p. 106**
The practical overview which allows one to quickly find suitable netting

PRODUCT RANGE

Sheep and goats netting **p. 108**

Topic: Wolf defense **p. 115**

Anti-wolf netting **S. 113**

Poultry netting **p. 118**

Small animal netting **p. 121**

Accessories **p. 122**
• Replacement posts
• Repair sets



INTERESTING FACTS ABOUT NETTING



horizont-service for you:
A two year warranty on the
UV stability of all netting.

PREMIUM QUALITY
MADE IN GERMANY

All horizon netting is made
in Germany and is therefore
characterized by
Premium quality.

1. The function of netting

A net consists of horizontal and vertical polywires. These polywires are manufactured using monofilament plastic fibers and the current-carrying polywires are made out of wires.

A quality feature here is the number and thickness of the wires. In the case of plastic monofilaments, the factors which play a decisive role are also their resistance to sunlight and their mechanical strength. Therefore horizon plastic monofilaments are made out of high quality polyethylene (known as PE for short) with an additive for UV stabilization.

The stability of the netting (for specific applications involving more extreme weather conditions such as wind and snow loads as well as uneven terrain) can be further increased by using special reinforcements of the vertical polywires as well as plastic strips.

There are also various posts with different heights and thicknesses to provide for optimal vertical fixing of the netting.

There are different designs of netting according to the application which differ according to the spacing between the polywires and their number, as well as the arrangement of the current-carrying polywires.

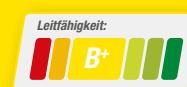
2. The purpose of the netting

As a livestock owner you have the option to enclose or exclude your animals with a pasture fence or electrified netting. Animals which have thick fur or plumage such as poultry, sheep and goats, are ideally herded using electrified netting. Due to their body size, small animals such as cats, dogs or rabbits are also suited to herding using electrified netting. The same rule can be applied to defending against wild animals or wolves; the horizon product range offers optimal nettings but also polywire fence solutions for these applications.

Meaningful classification of the various types of netting takes place according to the various types of animal, whether sheep/ goats, poultry, as well as small animal nettings (rabbits, cats).

The conductivity:

Achieving the required herding pulse energy can be supported by a high electrical conductivity (the polywires or wires). Information about the conductivity can be found respectively for the horizon netting types from the symbol, for example symbol A++, which represents the highest conductivity.



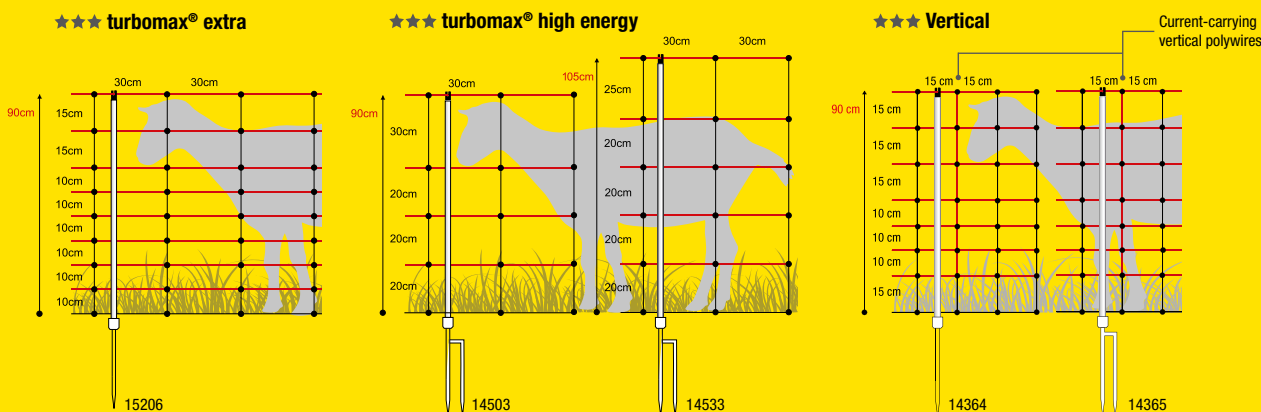
When using netting on particularly dry grounds it is meaningful to use netting with ground conductors. For this application the dry ground prevents the necessary transport of electrical pulse energy back to the ground connection of the energiser when the netting is touched by an animal. The ground conductor of the respective netting can be a replacement device for returning the pulse to the energiser. Netting should ideally be used without a ground conductor as soon as the ground can transfer the pulse, since, in this case, increased electrical energy is diverted over the vegetation unused into the ground.

A tip

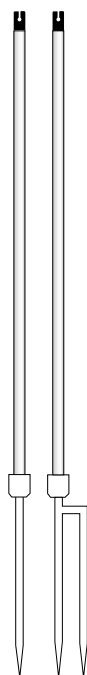
There should be no vegetation under the netting; this should be removed before installation. According to the netting, the lowest current-carrying conductor is 5, 10 or 20 cm above the ground. In this case this important conductor is closer to the ground and possibly the vegetation than virtually any other electric fence.

The vegetation situation:

Vegetation at the operation site also plays a major role in selection of suitable netting. Thus, for an increased distance to the lower current-carrying polywires (see below turbomax® high energy 14503, 14533) or a certain number and arrangement of the current-carrying vertical polywires (see below Vertical nettings 14364, 14365), diversion of unused energy into the ground which was intended for the herding performance can be reduced considerably. The pulse-type energy of the energiser is therefore optimally available in the required intensity for the herding security should an animal touch the netting. If one of the lowest polywires is standing in vegetation (see below turbomax® Extra 15206) this can have a negative effect on the herding performance – due to the power diversions.



3. Selection of the correct poles



The posts are selectable according to the nature of the ground and preference (individual or double tip poles).

Single tip poles:

- To be used in stony ground or in mountains

Double tip poles:

- Use for loose or firm, stone-free ground
- The footstep allows the post to be anchored in the ground without using tools
- A double tip pole provides greater stability

The posts from horizon are particularly stable. The post material is optimized specially for multiple tensile loads which arise when pulling out netting poles. The high strength and adapted elasticity as well as the special connection technology of the post with the ground spikes ensure a particularly long service life compared to traditional posts when used for mobile netting.



The stranded insulator near the ground, which is on the post-ground spike, ensures close contact to the spike. This can then support the conductivity of netting with an electrical ground wire.

An electrical connection to the current-carrying polywires can be avoided through use of further posts for depressing the lower polywire for uneven ground conditions. Furthermore, also possible gaps which, for example, wild animals can use as a sneak through", are removed in this way.

4. Connection to an energiser

horizont offers special energisers for herding of animals with insulating wool, hair or feather coats. Since the nettings are often, in practice, erected in vegetation, the horizon energisers are designed for precisely such conditions.

Recommendation



The hotshock® series for sheep, goats, poultry and wild animals as well as defense against wolves.

The farmer® series for small animals.
All product series can be found on page 22.



All prices are inclusive statutory VAT.

5. Assembling and disassembling netting

Link

The following topics are summarized together in practical video sequences: www.horizont.com/ytSchafnetz

Clearing the meadow surface:

Why is clearing the installation surface so important for netting?

On the cleared corridor under the installed netting, the first current-carrying polywire is not overgrown with vegetation. The vegetation is therefore not able to divert energy out of the netting into the ground. No energy is lost out of the netting when the first current-carrying polywires are free of vegetation.

Posts:

How can I select the optimal post?

Posts with a double tip can enter well into the ground due to the wide tread surface. In the case of stony ground, however, the double tip finds it difficult to enter the ground. It is better to use a single tip post.

Corner with a post:

How does a corner solution work for a sheep netting fence with an additional post?

The additional post for the sheep netting is necessary when there is no integrated post available in the corner. Here one can, for example, use a plastic post as "standard".

Connecting sheep nettings:

How is netting overlapping for arranged sheep netting?

This is done at the locations at which the nettings meet. This means that the nettings at this location are properly tensioned in parallel, in the specified length. The important thing is that the cable ends of the netting planned to be used are connected conductively together.

Connecting sheep nettings electrically conductive together:

How are the nettings connected conductively together at both starting points?

Both cable ends of the netting are wound in an orderly fashion around the posts so that they do not protrude unnecessarily. Then both clips on the ends are plugged in together without use of tools to create a clean electrical contact on the fence.

Securing sheep:

How is the gap between the netting and the ground due to hollows circumvented? Lambs or even sheep could sneak through under the fence. It is very important to check a sheep netting fence! The netting can be clamped to the ground using the ground pegs supplied. In this way better herding security is achieved.

Connecting the energiser:





The energiser should be connected to the netting connecting clips. This allows the best contact power.

Rolling up sheep netting:

The netting is rolled onto the posts. The actual netting (polywire) is then curled around the posts. The netting is connected together using the cords.



NETTING

| Animal husbandry | | | Anti-wildlife function | Netting height | Netting length | Tip | | Ground conductor |
|---|---|---|---|----------------|----------------|------------------|------------------|------------------|
|  |  |  |  | cm | m | Single tip poles | Double tip poles | |
| • | | | | 120 | 50 | | • | • |
| • | | | | 90 | 50 | • | | |
| • | | | | 90 | 50 | | • | |
| • | | | | 105 | 50 | • | | |
| • | | | | 105 | 50 | | • | |
| • | | | | 120 | 50 | | • | |
| • | | | | 90 | 50 | • | | |
| • | | | | 90 | 50 | | • | |
| • | | | | 90 | 50 | • | | |
| • | | | | 90 | 50 | | • | • |
| • | | | | 105 | 50 | | • | |
| • | | | | 105 | 50 | | • | • |
| • | | | | 120 | 50 | | • | |
| • | | | • | 90 | 50 | • | | |
| • | | | • | 90 | 50 | | • | |
| • | | | • | 105 | 50 | • | | |
| • | | | • | 105 | 50 | | • | |
| • | | | • | 90 | 50 | • | | |
| • | | | • | 90 | 50 | • | | |
| • | | | • | 90 | 50 | | • | |
| • | | | • | 145 | 50 | | • | |
| • | | | • | 90 / 120 | 50 | | • | |
| • | | | • | 90 / 120 | 50 | • | | |
| • | | | • | 90 | 50 | | • | |
| • | | | • | 105 | 50 | | • | |
| • | | | • | 105 | 50 | | • | • |
| | • | | | 105 | 50 | • | | |
| | • | | | 105 | 50 | | • | |
| | • | | | 105 | | | | |
| | • | | | 105 | 50 | • | | |
| | • | | | 105 | 25 | • | | |
| | • | | | 105 | 50 | | • | |
| | • | | | 105 | 50 | | • | |
| | | • | | 50 | 25 | • | | |
| | | • | | 50 | 50 | • | | |
| | | • | | 65 | 50 | • | | |

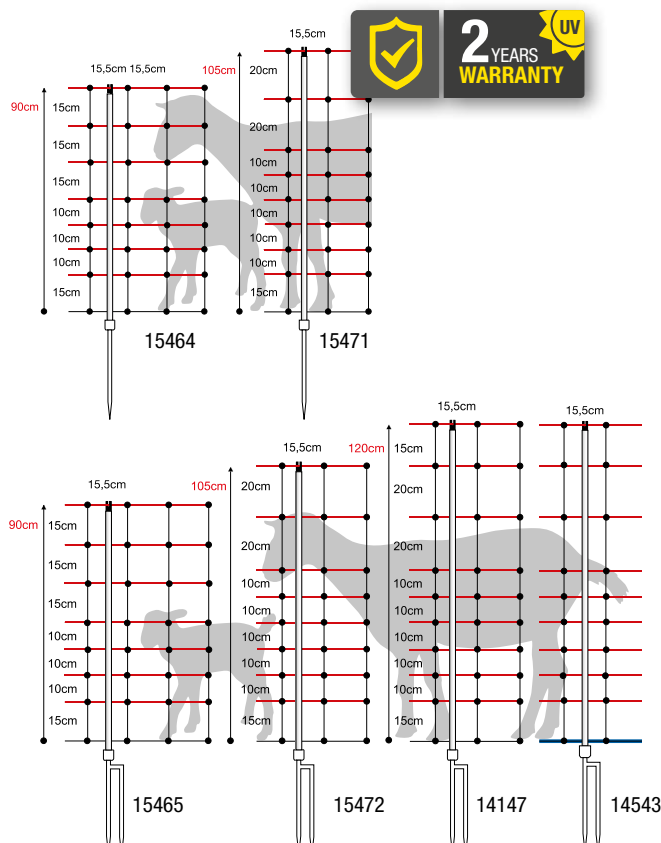


- very suitable for
- restrictedly suitable for

| Ω / m | Conductivity | | | | | | Product | | |
|--------------|-----------------|----------------|---|----------------|---|---|--------------------------------------|----------|------|
| | A ⁺⁺ | A ⁺ | A | B ⁺ | B | C | Designation | Item No. | Page |
| 0.84 | | | | • | | | ★★ horinetz | 14543 | 108 |
| 1.15 | | | | | • | | ★★ horinetz | 15464 | 108 |
| 1.15 | | | | | • | | ★★ horinetz | 15465 | 108 |
| 1.01 | | | | | • | | ★★ horinetz | 15471 | 108 |
| 1.01 | | | | | • | | ★★ horinetz | 15472 | 108 |
| 0.84 | | | | • | | | ★★ horinetz | 14147 | 108 |
| 0.33 | | | • | | | | ★★ horinetz energy | 14954 | 108 |
| 0.1 | • | | | | | | ★★ horinetz high energy | 14590 | 109 |
| 0.1 | • | | | | | | ★★ horinetz high energy | 14591 | 109 |
| 0.1 | • | | | | | | ★★ horinetz high energy | 14592 | 109 |
| 0.1 | • | | | | | | ★★ horinetz high energy | 14593 | 109 |
| 0.1 | • | | | | | | ★★ horinetz high energy | 14594 | 109 |
| 0.1 | • | | | | | | ★★ horinetz high energy | 14595 | 109 |
| 0.29 | | • | | | | | ★★★ turbomax® extra | 15206 | 110 |
| 0.29 | | • | | | | | ★★★ turbomax® extra | 15219 | 110 |
| 0.28 | | • | | | | | ★★★ turbomax® extra | 15207 | 110 |
| 0.28 | | • | | | | | ★★★ turbomax® extra | 15221 | 110 |
| 0.33 | | | • | | | | ★★★ turbomax® plus | 14955 | 111 |
| 0.17 | • | | | | | | ★★★ Vertical | 14364 | 112 |
| 0.17 | • | | | | | | ★★★ Vertical | 14365 | 112 |
| 0.81 | | | | • | | | ★★ horinetz super | 14967 | 113 |
| 1.15 | | | | | • | | ★★ horinetz super plus | 14925 | 114 |
| 1.15 | | | | | • | | ★★ horinetz super plus | 14992 | 114 |
| 0.33 | | | • | | | | ★★★ turbomax® high energy | 14503 | 116 |
| 0.33 | | | • | | | | ★★★ turbomax® high energy | 14533 | 116 |
| 0.32 | | | • | | | | ★★★ turbomax® high energy plus earth | 14534 | 117 |
| 0.74 | | | | • | | | ★★ ranger® | 15587 | 118 |
| 0.74 | | | | • | | | ★★ ranger® | 15693 | 118 |
| | | | | | | | hotgate poultry gate | 14623 | 119 |
| | | | | | | | ★ ranger® security* | 34618 | 120 |
| | | | | | | | ★ ranger® security* | 34619 | 120 |
| | | | | | | | ★ ranger® security* | 34620 | 120 |
| | | | | | | | ★ ranger® security* | 34621 | 120 |
| 1.01 | | | | | • | | ★★ farmer® super | 15195 | 121 |
| 1.01 | | | | | • | | ★★ farmer® extra | 15576 | 121 |
| 0.90 | | | | • | | | ★★ farmer® plus | 14895 | 121 |

* The sheep and goats nettings ranger® security (34619, 34621, 34618, 34620) are not electrifiable.





Sheep and goats netting

★★ horinetz



Suitable for:

- Sheep and goats
- Defense against wolves and repelling wild boars

Lower mesh size:

Advantages:

- 15.0 cm high and 15.5 cm wide
- Good conductivity and a very long service life
- A high load capacity is possible

Scope of delivery:

- One set of horinetz herding netting complete
- 14 plastic posts with single or double tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a single tip 13 mm dia., 90 cm high (15022-1, p. 122) or 105 cm high (15026-1, p. 122)

Accessories:

- Replacement post with a double tip 13 mm dia., 90 cm high (15022-2, p. 122), 105 cm high (15026-2, p. 122) or 120 cm high (14384-2, p. 122)

www.horizont.com/Item No.

| Item No. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|------------|
| 15464 | 90 cm | 50 m | Single tip poles | 14 plastic poles | white | yellow/black | 8 | 7 | 1.15 Ω/m | 1 | 94.95 |
| 15465 | 90 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 8 | 7 | 1.15 Ω/m | 1 | 99.95 |
| 15471 | 105 cm | 50 m | Single tip poles | 14 plastic poles | white | yellow/black | 9 | 8 | 1.01 Ω/m | 1 | 104.95 |
| 15472 | 105 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 9 | 8 | 1.01 Ω/m | 1 | 109.00 |
| 14147 | 120 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 10 | 9 | 0.84 Ω/m | 1 | 129.00 |
| 14543 | 120 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 10 | 9 + 1 ground conductor | 0.84 Ω/m | 1 | 129.00 |



One of the most conductive nettings on the market!

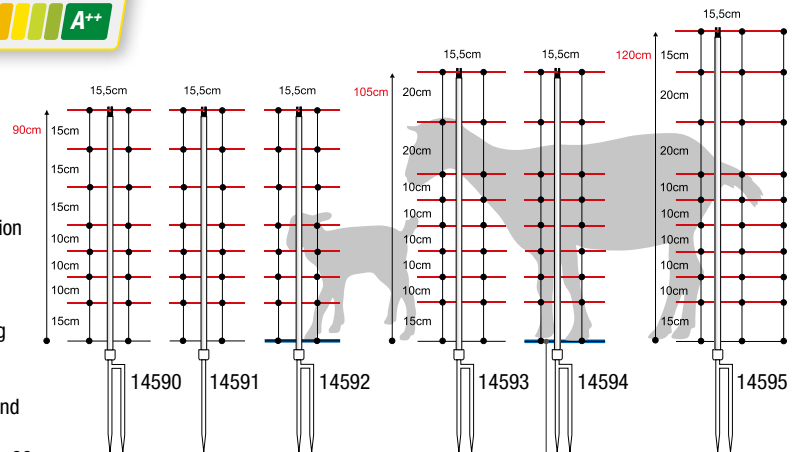


Sheep and goats netting



★★ horinetz high energy

- Suitable for:**
- Sheep and goats
 - Defense against wolves and repelling of wild boars
- Lower mesh size:**
- 15 cm high and 15.5 cm wide
- Advantages:**
- Little diversion of energy, also for high vegetation due to non-current carrying lowest polywires
 - Good conductivity and a very long service life
 - A high load capacity is possible
- Scope of delivery:**
- One set of horinetz high energy herding netting complete
 - 14 plastic posts with single or double tips
 - One repair set, one warning sign and two ground pegs
- Accessories:**
- Replacement post with a single tip 13 mm dia., 90 cm high (15022-1, p. 122) or 105 cm high (15026-1, p. 122)
 - Replacement post with a double tip 13 mm dia., 90 cm high (15022-2, p. 122), 105 cm high (15026-2, p. 122) or 120 cm high (14384-2, p. 122)



The additional ground conductor ensures good earthing, also in dry conditions.

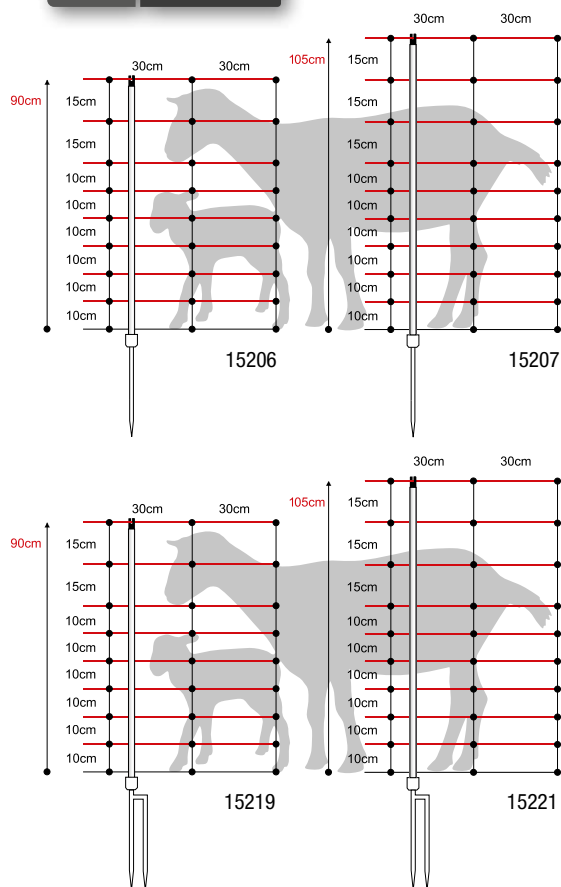
www.horizont.com/Item No.

| Item No. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal polywires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|----------------------|----------------------------|------------|------|---------------|
| 14590 | 90 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 8 | 7 | 0.1 Ω/m | 1 | 109.00 |
| 14591 | 90 cm | 50 m | Single tip poles | 14 plastic poles | white | yellow/black | 8 | 7 | 0.1 Ω/m | 1 | 109.00 |
| 14592 | 90 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 8 | 7 + 1 ground conductors | 0.1 Ω/m | 1 | 119.00 |
| 14593 | 105 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 9 | 8 | 0.1 Ω/m | 1 | 119.00 |
| 14594 | 105 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 9 | 8 + 1 ground conductors | 0.1 Ω/m | 1 | 129.00 |
| 14595 | 120 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 10 | 9 | 0.1 Ω/m | 1 | 139.00 |

A tip

horizont recommends energisers from the hotshock® series for the electrification of herding nettings.





Sheep and goats netting



★★★ turbomax® Extra

Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars

Lower mesh size:

- 10 cm high and 30 cm wide

Advantages:

- High stability due to special vertical connections
- The small mesh spacings prevent lambs from breaking out.
- Profi-Net with a high conductivity – for more security
- White with black outer edges for more contrast with the environment and increased visibility
- horizontal quality with a high quality copper conductor

Scope of delivery:

- One set of herding netting complete, 50 m long
- 14 plastic posts with single or double tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a single tip 13 mm dia., 90 cm high (15022-1, p. 122) or 105 cm high (15026-1, p. 122)
- Replacement post with a double tip 13 mm dia., 90 cm high (15022-2, p. 122) or 105 cm high (15026-2, p. 122)

Accessories:



Connecting clip



Head insulator



Foot rest with double tip poles

 www.horizont.com/Item No.

| Item No. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|---------------|
| 15206 | 90 cm | 50 m | Single tip poles | 14 plastic poles | white | white/black | 9 | 8 | 0.29 Ω/m | 1 | 99.95 |
| 15219 | 90 cm | 50 m | Double tip poles | 14 plastic poles | white | white/black | 9 | 8 | 0.29 Ω/m | 1 | 109.00 |
| 15207 | 105 cm | 50 m | Single tip poles | 14 plastic poles | white | white/black | 10 | 9 | 0.28 Ω/m | 1 | 119.00 |
| 15221 | 105 cm | 50 m | Double tip poles | 14 plastic poles | white | white/black | 10 | 9 | 0.28 Ω/m | 1 | 129.00 |



Sheep and goats netting



★★★ turbomax® Plus

Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars

Lower mesh size:

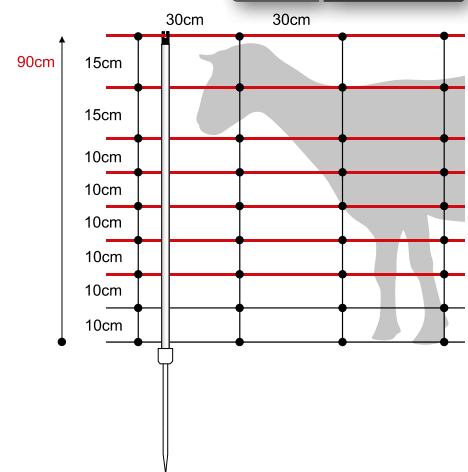
- 10 cm high and 30 cm wide

Advantages:

- The lowest two polywires are not current carrying - no diversions of power and therefore no vegetation clearing mowing necessary
- Stability due to rigid perpendiculars
- A long service life due to robust conductor material
- White polywires with black outer edges for more contrast with the environment and increased visibility
- horizontal quality with a high quality copper conductor
- One set of turbomax high energy herding netting complete, 90 cm high, 50 m long
- 14 plastic posts with single tips
- One repair set, one warning sign and two ground pegs
- Connection accessories
- Replacement post with a single tip 13 mm dia., 90 cm high (15022-1, p. 122)

Scope of delivery:

Accessories:



 www.horizont.com/14955

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal polywires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|----------------------|----------------------------|------------|------|------------|
| 14955 | 90 cm | 50 m | Single tip poles | 14 plastic poles | white | white/black | 9 | 7 | 0.33 Ω/m | 1 | 97.95 |

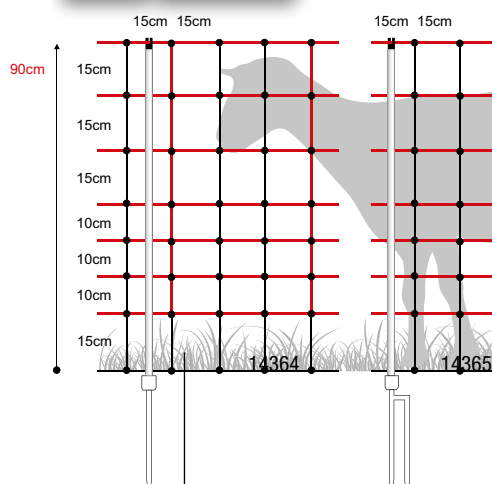
A tip

horizont recommends energisers from the hotshock® series for the electrification of herding nettings.



Netting

Sheep and goats netting



Horizontal and vertical current-carrying polywires secure a permanent power supply also in the case of a breakage

Exclusive

The vertical sheep and goats netting is particularly suitable for areas with strong vegetation growth due to its vertical conductors. The conductivity and herding security are maintained despite this.

Sheep and goats netting



★★★ Vertical

Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars

Lower mesh size:

- 15 cm high and 15 cm wide

Advantages:

- Double security through vertical current flow - the power supply is secured also for a break in a polywire
- High conductivity for optimal herding security
- High quality posts for high stability
- horizontal quality with a high quality copper conductors
- One set of herding netting complete, 90 m high, 50 m long

Scope of delivery:

- 14 posts with single tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a single tip 13 cm dia., 90 cm high (15022-1, p. 122)
- Replacement post with a double tip, 13 cm dia., 90 cm (15022-2, p. 122)

Accessories:



Connecting clip



Head insulator



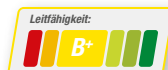
Ground peg

www.horizont.com/Item.No.

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|------------|
| 14364 | 90 cm | 50 m | Single tip poles | 14 plastic poles | white | yellow/black | 8 | 7 | 0.17 Ω/m | 1 | 109.00 |
| 14365 | 90 cm | 50 m | Double tip poles | 14 plastic poles | white | yellow/black | 8 | 7 | 0.17 Ω/m | 1 | 119.00 |



Anti-wolf netting



★★ horinetz super

Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars

Lower mesh size:

- 15 cm high and 15 cm wide

Advantages:

- An extra high special netting for defense against wolves at 145 cm high
- High stability due to reinforced upper and lower polywires

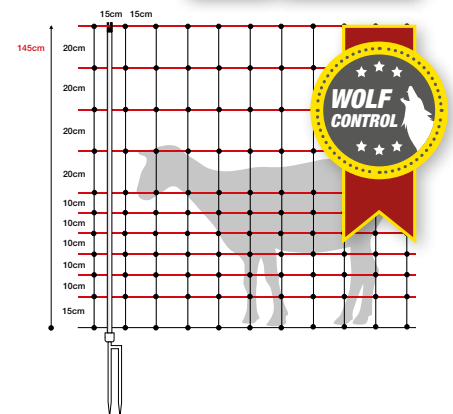
wires

Scope of delivery:

- One set of horinetz super anti-wolf netting, 145 m high, 50 m long

Accessories:

- 15 plastic posts with double tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a double tip, 19 mm dia., 145 cm high (14993, p. 122)



www.horizont.com/14967

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal polywires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|----------------------|----------------------------|------------|------|------------|
| 14967 | 145 cm | 50 m | Double tip poles | 15 plastic poles | black | yellow/black | 11 | 10 | 0.81 Ω/m | 1 | 219.00 |

A tip

horizont recommends energisers from the hotshock® series for the electrification of herding nettings.





Netting

Anti-wolf netting

Secure against being jumped over by using the additional tape

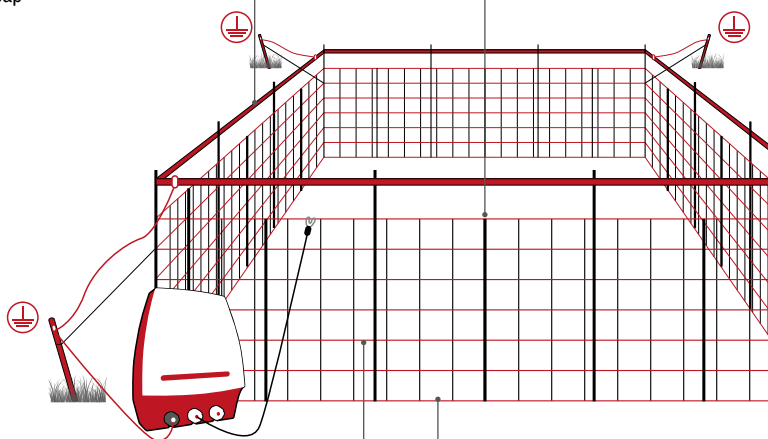
- Netting heightened to 120 cm by the 20 mm tape
- The tape moves and causes irritation; the wolf cannot calculate the leap

Posts with double tips

- Posts made out of UV-stable plastic
- Double tips ensure secure stability, also in loose soil or where there are high winds



2 YEARS WARRANTY



High stability

- Upper and lower polywires made 60% stronger

High energy through the supplied ground conductor

Good visibility

- Yellow polywires are more visible during twilight and in darkness



Anti-wolf netting

★ ★ horinetz super plus



Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars

Lower mesh size:

- 15 cm high and 15.5 cm wide

Advantages:

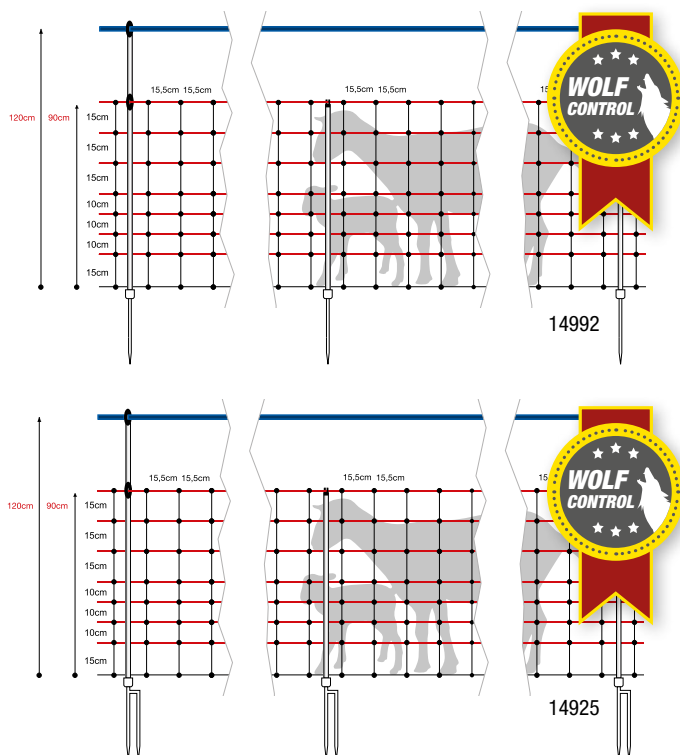
- Recommended by the Saxon Sheep and Goats Breeders Society
- The jump over height is increased by the additional 20 mm tape to a height of 120 cm
- Rapid and simple installation
- High energy through the supplied ground conductor

Scope of delivery:

- One set of horinetz super plus anti-wolf netting complete, 50 m long
- 15 plastic posts with single or double tips
- One additional 1.20 m post for adaptation to the ground conditions

Accessories:

- One repair set, one warning sign and two ground pegs
- Replacement post with a single tip 13 mm dia., 90 cm high (15022-1, p. 122)
- Replacement post with double tips 13 mm dia., 90 cm high (15022-2, p. 122)
- 20 mm tape (17111, p. 135)
- Earthing post for detensioning and earthing (15017-1, p. 92)
- Tape connection cable (10447C, p. 97)



Wolf control:

A wolf defense system was developed together with the Saxon Sheep and Goats Breeders Society which is unique and proven to keep wolves from attacking livestock.



www.horizont.com/Item No.

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal polywires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|----------------------|----------------------------|------------|------|------------|
| 14992 | 90 / 120 cm | 50 m | Single tip poles | 15 plastic poles | white | yellow/black | 8 | 7 | 1.15 Ω/m | 1 | 129.00 |
| 14925 | 90 / 120 cm | 50 m | Double tip poles | 15 plastic poles | white | yellow/black | 8 | 7 | 1.15 Ω/m | 1 | 139.00 |



RECOMMENDED BY SHEEP BREEDERS' ASSOCIATIONS

ANTI-WOLF NETTING



PREMIUM QUALITY
MADE IN GERMANY

The current situation and our solutions for you

It has been demonstrated that there have been wolves seen in virtually all parts of Germany. The wolf is again present in large parts of Germany. The delight we feel about what we considered to be a died out animal is clouded by the fact that also livestock are on its menu. It is, above all, the painful experiences of sheep and goat keepers across the country that have proven this. This is where the electric pasture fence comes into its own, the development of which been the profession of horizont for decades. In a number of research projects in cooperation with the Saxon Sheep and Goats Breeders Society and the Sheep Breeders' Association of Baden-Württemberg, horizont has developed reliable and particularly effective anti-wolf netting systems to protect your livestock. The netting has been fully tested in practice and is recommended by the associations – for more security on your pastures!

★★★ turbomax high energy

The turbomax high energy netting is suitable for uneven terrain and mountainous areas. Since the lower mesh spacings are particularly large, also small wild animals can sneak through the netting and therefore remain unhurt. Rigid incorporated perpendiculars in the netting provide stability. High energy in the netting is ensured due to a reduced number of horizontal polywires. The reduced number of horizontal polywires guarantees a particularly high conductivity with, at the same time, low energy consumption of the energiser.

★★ horinetz super plus

For the horinetz super, 90 cm high, an additional 20 mm tape can be incorporated which brings the fence height to 120 cm. Due to this special construction the netting can prevent a wolf from leaping over since the tape, as seen by the wolf, causes irritation as it flaps in the wind and the wolf cannot calculate its leap over the netting. Double tips ensure secure stability, also in loose soil or where there are high winds

★★ horinetz super

The horinetz super is extra high special netting for defense against wolves at 145 cm high. In combination with further anti-wolf measures, this high netting offer high levels of protection against a wolf and prevents attacks on your farm animals. The stable posts with a 19 mm post diameter ensure good stability of the netting. In this way your animals are fenced in safely and reliably.



14503 / 14533 / 14534 (with additional ground conductors)



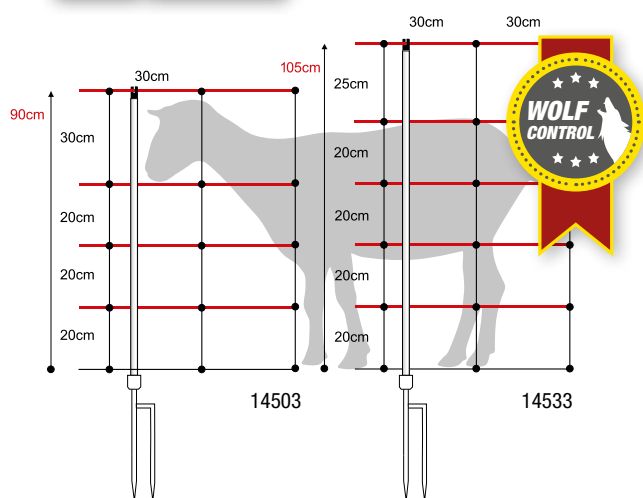
14992, 14925



14967

Netting

Anti-wolf netting



Anti-wolf netting



★★★ turbomax® high energy

Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars
- 20 cm high and 30 cm wide

Lower mesh size:

Advantages:

- Due to the larger mesh spacings on the ground, small wild animals can sneak through and are also protected
- Rigid perpendiculars ensure good stability
- Low weight – 10% lighter than traditional nettings
- The reduced number of horizontal polywires ensures that there is high energy available due to less contact with vegetation
- White with black outer edges for more contrast with the environment and increased visibility
- horizont quality with a high quality copper conductor
- One set of turbomax high energy herding netting complete, 50 m long
- 14 plastic posts with double tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a double tip 13 mm dia., 90 cm high (15022-2, p. 122) or 105 cm high (15026-2, p. 122)

Scope of delivery:

Accessories:

Wolf control:

The particularly high herding safety recommended by the Sheep Breeders' Association of Baden-Württemberg. This sheep and goats netting was developed together with horizont.



Connecting clip



Head insulator



Ground peg

 www.horizont.com/Item No.

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal polywires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|----------------------|----------------------------|------------|------|---------------|
| 14503 | 90 cm | 50 m | Double tip poles | 14 plastic poles | white | white/black | 5 | 4 | 0.33 Ω/m | 1 | 95.95 |
| 14533 | 105 cm | 50 m | Double tip poles | 14 plastic poles | white | white/black | 6 | 5 | 0.32 Ω/m | 1 | 109.00 |



Anti-wolf netting



★★★ **turbomax® high energy plus earth**

Suitable for:

- Sheep and goats
- Defense against wolves and repelling of wild boars
- 20 cm high and 30 cm wide
- Due to the larger mesh spacings on the ground, small wild animals can sneak through and are also protected
- Rigid perpendiculars ensure good stability
- Low weight – 10% lighter than traditional nettings
- The reduced number of horizontal polywires ensures that there is high energy available
- The additional ground conductor ensures good earthing, also in dry conditions.
- White polywires with black outer edges for more contrast with the environment and increased visibility
- horizontal quality with a high quality copper conductor

Scope of delivery:

- One set of turbomax high energy plus earth herding netting complete, 105 cm high, 50 m long
- 14 plastic posts with double tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a double tip 13 mm dia., 90 cm high (15022-2, p. 122) or 105 cm high (15026-2, p. 122)

Accessories:



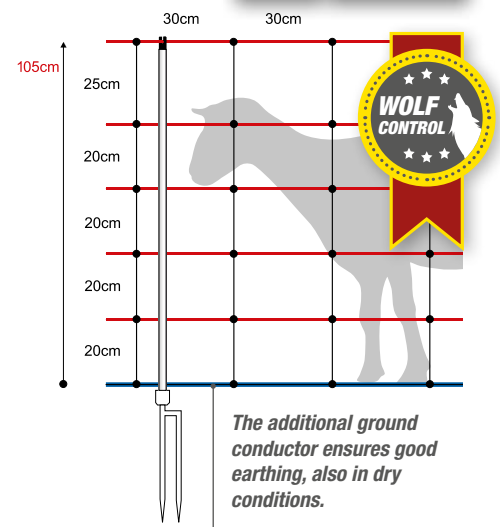
Connecting clip



Head insulator



Double footrest with a polywire holder



Wolf control:

The particularly high herding safety recommended by the Sheep Breeders' Association of Baden-Württemberg. This sheep and goats netting was developed together with horizont.



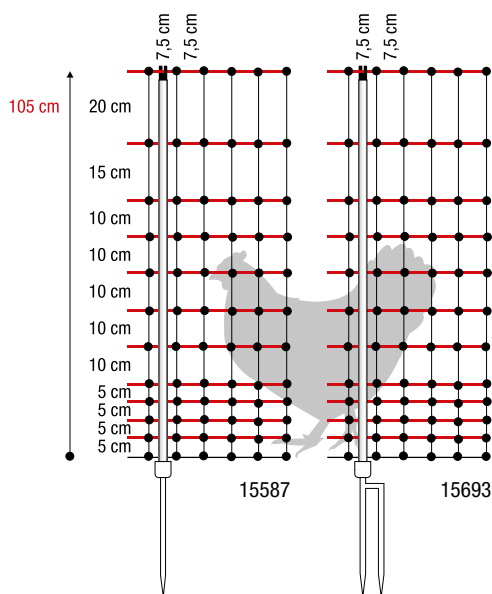
www.horizont.com/14534

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal polywires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|----------------------|----------------------------|------------|------|------------|
| 14534 | 105 cm | 50 m | Double tip poles | 14 plastic poles | white | white/black | 6 | 5 | 0.32 Ω/m | 1 | 119.00 |

A tip

horizont recommends energisers from the hotshock® series for the electrification of herding nettings.





Poultry netting ★★ ranger®



Suitable for:

Lower mesh size:

Advantages:

Scope of delivery:

Accessories:

- Hens, turkeys, geese and ducks
- 5 cm high and 7.5 cm wide
- High conductivity for optimal herding security
- High quality posts for high stability
- Materials are rustproof and therefore extremely durable
- One set of poultry netting, 105 m high, 50 m long
- 15 posts with single or double tips
- One repair set, one warning sign and two ground pegs
- Replacement post with a single tip 13 cm dia., 105 cm high (15026-1, p. 122)
- Replacement post with double tips 13 cm dia., 105 cm high (15026-2, p. 122)



www.horizont.com/Item No.

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|------------|
| 15587 | 105 cm | 50 m | Single tip poles | 15 plastic poles | white | yellow/black | 12 | 11 | 0.74 Ω/m | 1 | 139.00 |
| 15693 | 105 cm | 50 m | Double tip poles | 15 plastic poles | white | yellow/black | 12 | 11 | 0.74 Ω/m | 1 | 159.00 |

A tip

horizont recommends energisers from the hotshock® series for the electrification of herding nettings.





Hotgate gate for poultry netting

Advantage:

- electrifiable
- simple opening and closing without switching the current on or off
- small mesh sizes, stable and robust
- 120 cm high, 86 cm wide
- PVC posts with a double tip

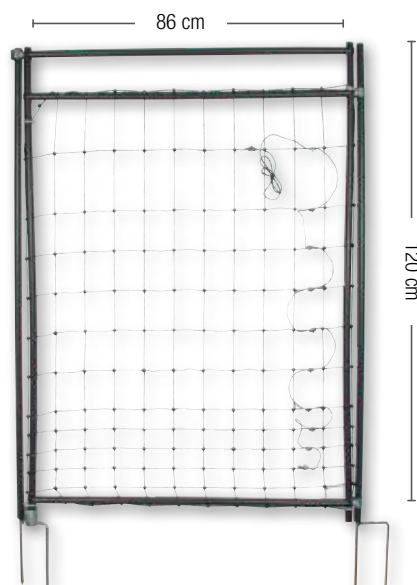
Dimensions & material:

Color:

Scope of delivery:

Compatible with:

- black
- connecting and connection accessories
- poultry netting 15587 and 15693



| Item no. | Unit | Price in € |
|----------|------|------------|
| 14623 | 1 | 56.95 |



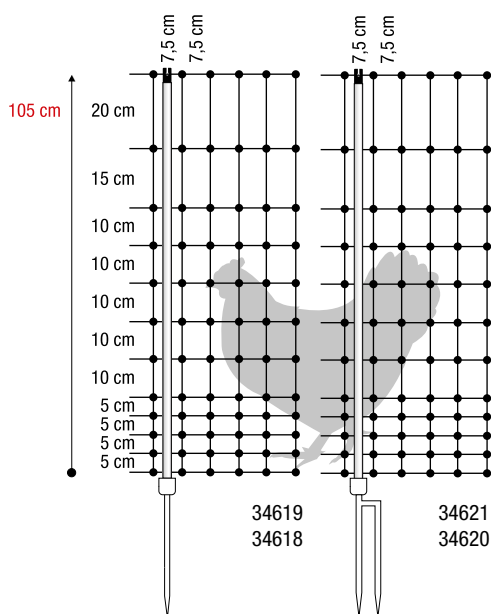
www.horizont.com/14623





A tip

We also offer a suitable poultry range for optimum poultry keeping. This can be found in our animal husbandry catalogue, online or allow yourself to be advised by our service team.



Poultry netting (not electrifiable)

★ ranger® security

- Suitable for:** • Hens, turkeys, geese and ducks
- Lower mesh size:** • 5 cm high and 7.5 cm wide
- Advantages:** • Tool-free connection of a number of nettings
• High quality posts for high stability
• No electrification is possible without current-carrying conductors
- Scope of delivery:** • One set of poultry netting, 105 m high, 50 m long
• Posts with single or double tips
• Repair set, two ground pegs
- Accessories:** • Replacement post with a single tip 13 cm dia., 105 cm high (18414, p. 122)



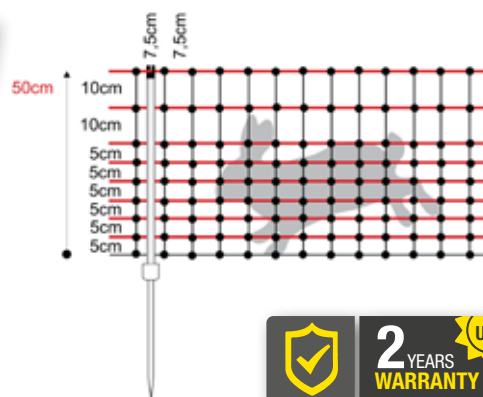
www.horizont.com/Item No.

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|---------------|
| 34619 | 105 cm | 25 m | Single tip poles | 9 plastic posts | green | green | 12 | - | - | 1 | 84.95 |
| 34621 | 105 cm | 25 m | Double tip poles | 9 plastic posts | green | green | 12 | - | - | 1 | 90.95 |
| 34618 | 105 cm | 50 m | Single tip poles | 15 plastic poles | green | green | 12 | - | - | 1 | 109.00 |
| 34620 | 105 cm | 50 m | Double tip poles | 15 plastic poles | green | green | 12 | - | - | 1 | 119.00 |

Small animal netting

★★ farmer® super

- Suitable for:** • Hares and rabbits
- Lower mesh size:** • 5 cm high and 7.5 cm wide
- Advantages:** • High quality posts for high stability
• horizont quality with a high quality stainless steel conductors
- Scope of delivery:** • One set of herding netting complete, 50 m high, 25 m long
• 9 posts with single tips
• One repair set, one warning sign and two ground pegs
- Accessories:** • Replacement post with a single tip 13 cm dia., 50 cm high (15233, p. 122)



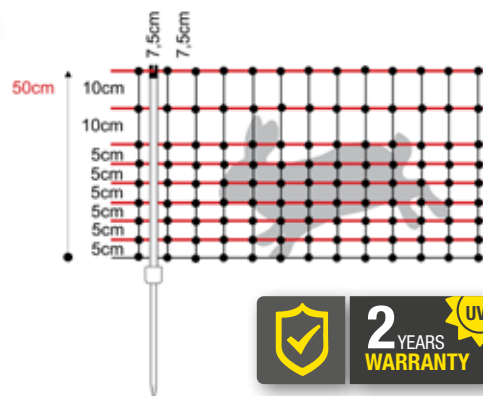
www.horizont.com/15195

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|------------|
| 15195 | 50 cm | 25 m | Single tip poles | 9 plastic posts | green | green | 9 | 8 | 1.01 Ω/m | 1 | 74.95 |

Small animal netting

★★ farmer® extra

- Suitable for:** • Chickens, small hares and rabbits
- Lower mesh size:** • 5 cm high and 7.5 cm wide
- Advantages:** • High quality posts for high stability
• horizont quality with a high quality stainless steel conductors
- Scope of delivery:** • One set of herding netting complete, 50 m high, 50 m long
• 15 posts with single tips
• Connection accessories
- Accessories:** • Replacement post with a single tip 13 cm dia., 50 cm high (15028, p. 122)



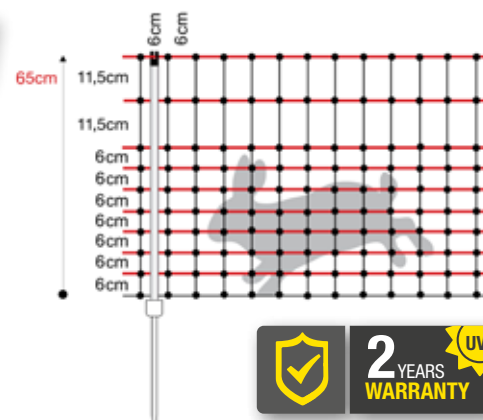
www.horizont.com/15576

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|------------|
| 15576 | 50 cm | 50 m | Single tip poles | 15 plastic poles | white | yellow/black | 9 | 8 | 1.01 Ω/m | 1 | 119.00 |

Small animal netting

★★ farmer® plus

- Suitable for:** • Chickens, small hares and rabbits
- Lower mesh size:** • 6 cm high and 6 cm wide
- Advantages:** • High quality posts for high stability
• horizont quality with a high quality stainless steel conductors
- Scope of delivery:** • One set of herding netting complete, 65 m high, 50 m long
• 15 posts with single tips
• Connection accessories
- Accessories:** • Replacement post with a single tip 13 cm dia., 50 cm high (15233, p. 122)



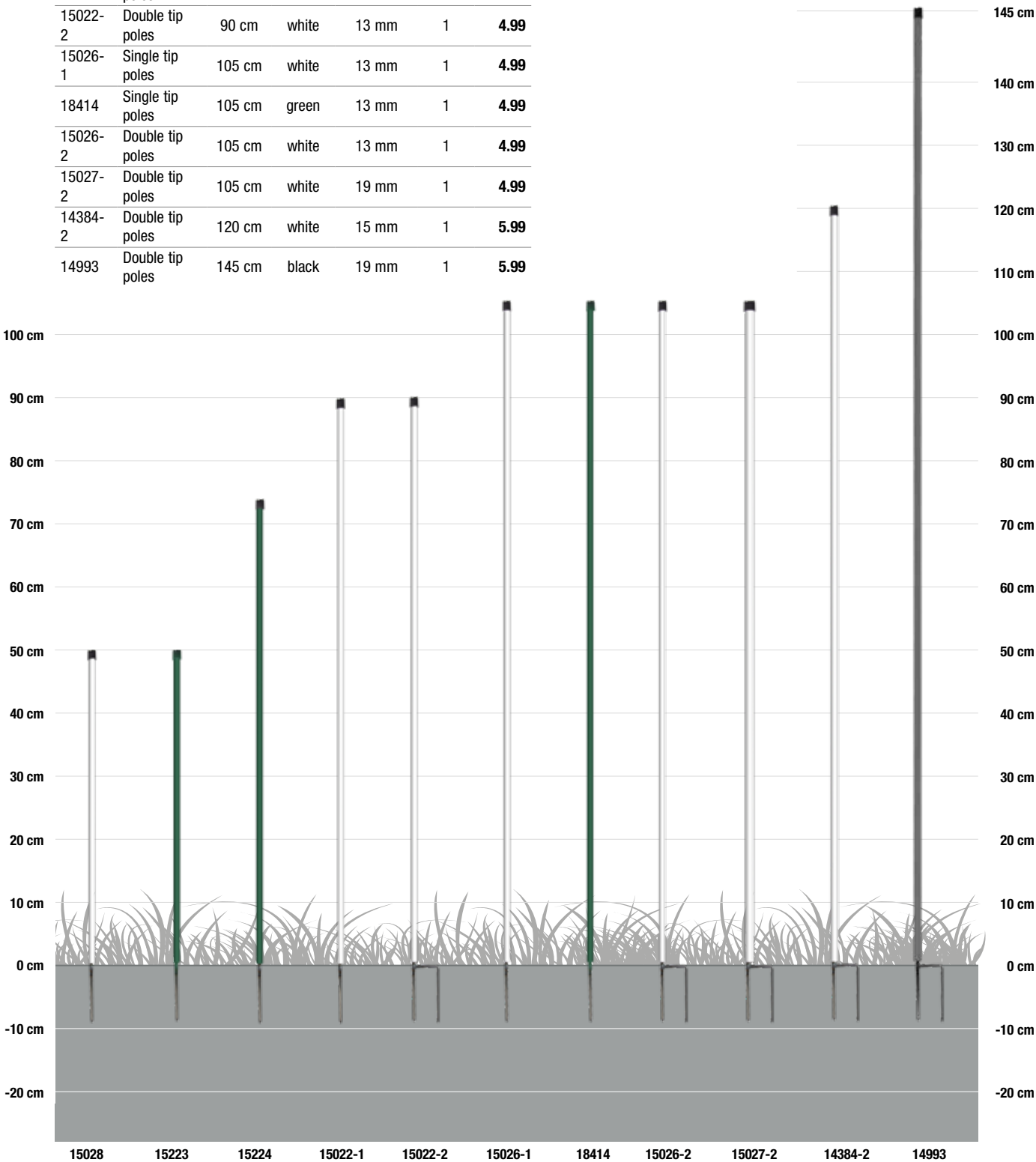
www.horizont.com/14895

| Item no. | Netting height | Netting length | Tip | Number of posts and material | Color of the posts | Color of the netting | Horizontal poly-wires | Current-carrying polywires | Resistance | Unit | Price in € |
|----------|----------------|----------------|------------------|------------------------------|--------------------|----------------------|-----------------------|----------------------------|------------|------|------------|
| 14895 | 65 cm | 50 m | single tip poles | 15 plastic poles | green | green | 10 | 9 | 0.90 Ω/m | 1 | 129.00 |

Replacement posts ★★

 www.horizont.com/Item No.

| Item no. | Tip | Post height | Color | Diameter | Unit | Price in € |
|----------|------------------|-------------|-------|----------|------|------------|
| 15223 | Single tip poles | 50 cm | green | 13 mm | 1 | 2.99 |
| 15224 | Single tip poles | 75 cm | green | 13 mm | 1 | 2.99 |
| 15022-1 | Single tip poles | 90 cm | white | 13 mm | 1 | 3.99 |
| 15022-2 | Double tip poles | 90 cm | white | 13 mm | 1 | 4.99 |
| 15026-1 | Single tip poles | 105 cm | white | 13 mm | 1 | 4.99 |
| 18414 | Single tip poles | 105 cm | green | 13 mm | 1 | 4.99 |
| 15026-2 | Double tip poles | 105 cm | white | 13 mm | 1 | 4.99 |
| 15027-2 | Double tip poles | 105 cm | white | 19 mm | 1 | 4.99 |
| 14384-2 | Double tip poles | 120 cm | white | 15 mm | 1 | 5.99 |
| 14993 | Double tip poles | 145 cm | black | 19 mm | 1 | 5.99 |



Repair set ★★ for horinetz sheep netting

- Scope of delivery:**
- One black replacement polywire
 - Two yellow polywires
 - Two black plastic caps for a post
 - Two black plastic eyelets
 - Six metal clips made out of brass

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 15029 | 1 | 4.99 |



www.horizont.com/15029

Repair set ★★ for turbomax® sheep netting

- Scope of delivery:**
- One black replacement polywire
 - Two green/white replacement polywires
 - Two black plastic caps for a post
 - Two black plastic eyelets
 - Six metal clips made out of brass

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 15029-6 | 1 | 3.99 |



www.horizont.com/15029-6

Repair set ★★ for poultry netting

- Scope of delivery:**
- Two green replacement polywires
 - One black plastic cap for a post
 - Two black plastic eyelets
 - Six metal clips made out of brass

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 15029-5 | 1 | 3.99 |



www.horizont.com/15029-5

Replacement parts ★★ for electric fence netting

| Item no. | Designation | Unit | Price in € |
|----------|---|------|-------------|
| 15030-1 | black plastic cap for a post | 1 | 0.99 |
| 15030-5 | peg | 1 | 1.99 |
| 15030-2 | black plastic eyelet | 1 | 0.99 |
| 15030-23 | metal clip made out of brass | 1 | 0.99 |
| 15030-4 | connecting clip made out of stainless steel | 1 | 1.99 |



15030-1



15030-2



15030-4



15030-23



15030-5

www.horizont.com/Item No.



06

CONDUCTOR MATERIAL & ACCESSORIES

An optimal meadow situation consists of a well built pasture fence. Tautly stretched and easily visible conductor materials are particularly important. The visibility of the conductor material for animals and humans are essential for the herding security of the fence system. Furthermore, one should ensure a high conductivity in order to ensure an appropriately high herding security.

Product guide **p. 126**
Interesting facts about conductor material und accessories

Product guide **p. 128**
The practical overview for suitable conductor material

PRODUCT RANGE

Electric fence tape **p. 132**

Electric fence rope **p. 136**

Electric fence polywire **p. 140**

Electric fence wire **p. 144**

Electric fence connectors and tensioners **p. 146**

Reels **p. 150**



INTERESTING FACTS ABOUT CONDUCTOR MATERIAL & ACCESSORIES

Conductor materials must be very conductive, tear resistant and weather-resistant. Good visibility can amplify the effect and is essential for flight animals like horses. Barbed wire should not be used as a fence conductor – due to the risk of causing injury. Conductor material is – apart from the energiser – one of the most important components of the fence system for both mobile and permanent fences. Selection of the correct conductor can influence the herding security significantly.

1. The correct selection of the conductor material

Conductor materials can be plastic-metal-mixtures or purely metallic materials – for example various electrifiable wires, since these have the highest conductivity. One should particularly take note of the following values when selecting the conductor material:



The **resistance** is quoted in Ohm / m. The lower this value is the higher the quality of the conductor material. Higher resistance values can also not be compensated for using powerful energisers!



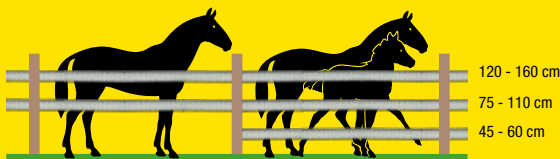
The **breaking load** is quoted in kilograms and provides information about what the maximum loading (in kg) or the tensile strength of the conductor material is.



The **number and thickness** of the current-carrying conductor provides information about its conductivity. The more the conductors and the thicker the conductor material, the more current-carrying it is.

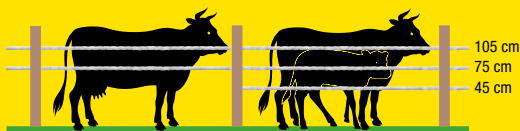
As a general rule: The better the current is transported in the fence, the longer fences can be built or the higher the herding voltage in the fence.

Horses:



horizont recommends fencing in horses with a 40 mm broadband electric fence; horses are flight animals and therefore the wider the pasture fence tape required. The animals become aware of the fence that much better. This significantly lowers the risk of injury and break out of your animals!

Cattle:



horizont recommends fencing in cattle using electric fence rope or polywire.

Sheep and goats:



Sheep and goats can be fenced in securely using electric fence polywire. Alternatively also electric fence netting is optimal for herding such animals.

Multiple of levels in a fence:

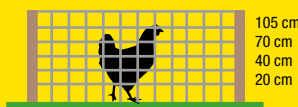
One should take note of the following when using multiple levels in a fence:

- The overall resistance of the electric fence system reduces with each additional level (conductor material) – but it is always less than the smallest resistance value of a level
- One should always use the same conductor material for enclosed fencing since this guarantees an optimal herding security. Various different conductor materials can also be mixed together in the electric fence system under special conditions (for example for keeping cattle)
- If the lowest level of the conductor materials is covered in vegetation, the energy loss out of the fence increases due to current drainages
- In an ideal case all of the levels of a fence would be free of vegetation, which would have a positive effect on the maximum fence length
- Use of conductor material with low resistances is recommended for external fencing – partitions in the fence or portions of pasture can also be fitted with conductor material with higher Ω/m values due to their short length

Recommendations for various types of animal:

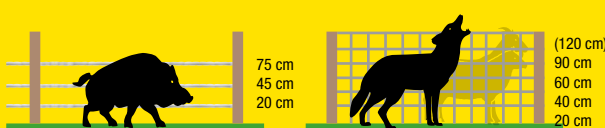
What horizont recommends for various types of animal is use of various conductor materials when constructing a fence as well as a certain number of levels*:

Poultry:



horizont recommends fencing in poultry with electric netting.

Wild animal or defense against wolves:



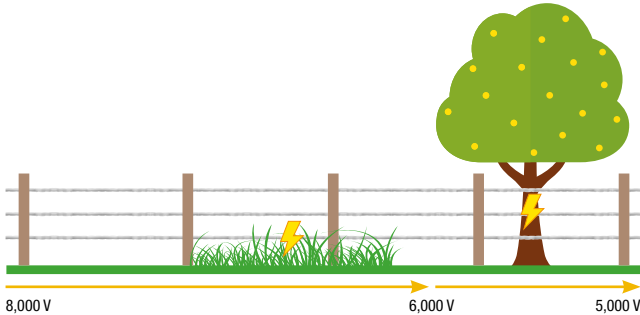
horizont recommends securing maize fields or wooded areas against wild boars using pasture fence tape or pasture fence rope. For defense against wolves and to

protect sheep or goats, horizont recommends use of special anti-wolf nettings.

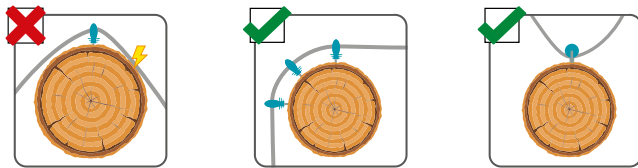


horizont-service for you:
You receive a two to five year warranty on all horizon conductor materials.

2. Faults on the fence



The graphic above illustrates what faults can arise on a fence, for example due to vegetation. You should therefore always maintain your fence in an orderly condition, check the fence voltage regularly, keep the fence free of vegetation and attend to the connector of a conductor breaks. In this way you increase the service life of your fence and the security of your animals is not impaired by an avoidable deficit on the fence. The fence gains in stability.



The current flow can also be affected by conductor material on wooden posts, often resulting from wrongly attached insulators. The conductor material should always be routed over appropriate insulators.

3. Tips for working with conductor material

If the conductor material is torn, you should use a suitable accessory like a connector (p. 146) to restore the herding security. If the conductor material is drooping and must be retensioned, use a suitable tensioner to restore an orderly height of the material (p. 148). Do not wind the conductor material in the dry room for the insulators since this can lead to flashovers at the insulator support. In winter the conductor material can become significantly heavier and droop strongly due to the accumulation of water. Remove the fence if your meadow is not going to be used in the winter. We recommend winding the conductor material onto reels to simply and practically store it (p. 150). In this way it can be stored directly and one can also simplify reinstallation of the fence in Spring through use of reels.

Knotting of the conductor material should be avoided since, in such a case, it will no longer be possible to obtain a constant current flow in the fence. Instead use suitable connectors from horizon (p. 146).



In particularly windy locations the pasture fence tapes should be tensioned, turned, which will reduce the surface affected by wind gusts and your fence will gain stability.



4. Various quality levels

Various technologies were developed for the horizon conductor material to allow it to be more conductive. The decisive factor here is the different resistances:

| | | |
|-----------------------------|-----------|-------------------|
| TLDmax TECHNOLOGY | turbomax® | 0.08 - 0.17 Ω / m |
| TLDmax TECHNOLOGY | ranger® | 0.20 - 0.53 Ω / m |
| TBmax TECHNOLOGY | hotshock® | 0.24 - 0.53 Ω / m |

The conductivity:

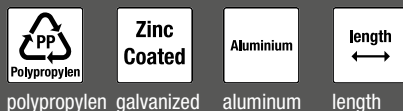
Achieving the required herding pulse energy can be supported by a high electrical conductivity. Information about the conductivity can be found respectively for the horizon conductor material types from the symbol, for example symbol A++, which represents the highest conductivity.



Important icons for this chapter:

Icons describing the product:

These icons describe properties of the insulators.



Cross selling icons:

These icons refer to products which are additionally required and which are compatible with the selected product.





CONDUCTOR MATERIAL

Pasture fence tapes

| Type of animal | | | | | | | | Fence length* | Width | Breaking load | Color | Product | | |
|----------------|---|---|---|---|---|---|---|---------------|-------|---------------|-----------------------|-----------------------|----------|------|
| | | | | | | | | m | mm | ~ kg | | Designation | Item No. | Page |
| | • | • | | | • | | | 210 cm | 10 | 20 | white | ★ trapper® T10 - W | 17280 | 133 |
| | • | • | | | • | | | 280 cm | 20 | 40 | white | ★ trapper® T20 - W | 17281 | 133 |
| | • | • | • | • | • | | • | 210 cm | 10 | 40 | white | ★★ farmer® T10 - W | 17451 | 133 |
| | • | • | • | • | • | | • | 210 cm | 10 | 40 | yellow/orange | ★★ farmer® T10 - O | 17287 | 133 |
| | • | • | • | • | • | | • | 280 cm | 20 | 90 | white | ★★ farmer® T20 - W | 17475 | 133 |
| | • | • | • | • | • | | • | 280 cm | 20 | 90 | white | ★★ farmer® T20 - W | 17272 | 133 |
| | • | • | • | • | • | | • | 280 cm | 20 | 90 | yellow/orange | ★★ farmer® T20 - O | 17528 | 133 |
| | • | • | • | • | • | | • | 280 cm | 20 | 90 | green | ★★ farmer® T20 - G | 17475GR | 133 |
| • | • | • | • | • | • | | • | 560 cm | 40 | 120 | white | ★★ farmer® T40 - W | 17458 | 133 |
| • | • | • | • | • | • | | • | 560 cm | 40 | 120 | green | ★★ farmer® T40 - G | 17458GR | 133 |
| | • | | • | • | | | • | 5,600 | 12 | 100 | white/blue | ★★ hotshock® T12 - W | 17211 | 134 |
| | • | • | • | • | | | • | 9,100 | 12 | 60 | yellow/blue/ green | ★★★ ranger® FLUO T12 | 17116 | 134 |
| | • | • | • | • | | | • | 9,100 | 12 | 60 | white/yellow | ★★★ ranger® T12 - W | 17113 | 134 |
| | • | • | • | • | | | • | 11,100 | 20 | 120 | white/yellow | ★★★ ranger® T20 - W | 17114 | 134 |
| • | • | • | • | • | | | • | 15,000 | 40 | 180 | white/yellow | ★★★ ranger® T40 - W | 17115 | 134 |
| | • | • | • | • | | | • | 9,100 | 20 | 150 | white | ★★★ ranger® T20 - W-E | 17121 | 134 |
| | • | • | • | • | | | • | 9,100 | 20 | 150 | brown | ★★★ ranger® T20 - B-E | 17122 | 134 |
| • | • | • | • | • | | | • | 15,000 | 40 | 260 | brown | ★★★ ranger® T40 - B-E | 17125 | 134 |
| | • | | • | • | • | • | • | 9,100 | 20 | 130 | white/light green | Happy NT2.0 | 17136HG | 135 |
| | • | | • | • | • | • | • | 9,100 | 20 | 130 | white/lilac | Happy NT2.0 | 17136LI | 135 |
| | • | | • | • | • | • | • | 9,100 | 20 | 130 | white/tur- quoise | Happy NT2.0 | 17136TU | 135 |
| • | • | | • | • | • | • | • | 15,000 | 40 | 260 | white/light green | Happy NT4.0 | 17137HG | 135 |
| • | • | | • | • | • | • | • | 15,000 | 40 | 260 | white/lilac | Happy NT4.0 | 17137LI | 135 |
| • | • | | • | • | • | • | • | 15,000 | 40 | 260 | white/tur- quoise | Happy NT4.0 | 17137TU | 135 |
| | • | • | • | • | | | • | 21,400 | 12 | 60 | white/black | ★★★ turbomax® T12 | 17110 | 135 |
| | • | • | • | • | | | • | 20,000 | 20 | 140 | white/black | ★★★ turbomax® T20 | 17111 | 135 |
| • | • | • | • | • | | | • | 33,300 | 40 | 240 | white/black | ★★★ turbomax® T40 | 17112 | 135 |

- very suitable for
- restrictedly suitable for



Pasture fence ropes

| Fence length* | Type of animal | | | | | | | | Diameter | Breaking load | Color | Product | | |
|---------------|----------------|---|---|---|---|---|--|---|----------|---------------|--------------|----------------------------------|------------------|------|
| | | | | | | | | | | | | Designation | Item No. | Page |
| 360 | | • | • | | | • | | | 4 | 120 | white | ★ trapper® R4 | 17285 | 137 |
| 740 | | • | • | • | • | • | | | 6 | 250 | white | ★★ farmer® R6 | 153372 | 137 |
| 740 | | • | • | • | • | • | | | 6 | 250 | white | ★★ farmer® R6 | 153372-400 | 137 |
| 370 | | • | • | • | • | • | | | 8 | 100 | white/black | ★★ farmer® stretch W3 | 462560 | 137 |
| 13,700 | | • | • | • | • | • | | | 6 | 250 | white/yellow | ★★★ ranger® R6 | 17182 | 137 |
| 13,700 | | • | • | • | • | • | | | 6 | 250 | white/yellow | ★★★ ranger® R6 | 17182-400 | 137 |
| 17,700 | | • | | • | • | | | • | 6 | 500 | white/black | ★★★★ turbomax® R6-PE | 17180 | 138 |
| 17,700 | | • | | • | • | | | • | 6 | 500 | white/black | ★★★★ turbomax® R6-PE | 17180-400 | 138 |
| 17,700 | | • | | • | • | | | • | 6 | 500 | white/black | ★★★★ turbomax® R6-PE | 17180-800 | 138 |
| 23,100 | | • | • | • | • | • | | • | 3 | 200 | white/black | ★★★★ turbomax® Braided rope D3 | 145121 | 138 |
| 23,100 | | • | • | • | • | • | | • | 3 | 200 | white/black | ★★★★ turbomax® Braided rope D3 | 145121, 145121-4 | 138 |
| 33,300 | | • | • | • | • | • | | • | 5.5 | 600 | white/black | ★★★★ turbomax® Braided rope D5.5 | 145131 | 138 |

Pasture fence wires

| Fence length* | Type of animal | | | | | | | | Diameter | Breaking load | Material | Product | | |
|---------------|----------------|---|---|---|---|---|---|---|----------|---------------|------------|-----------------|-----------|------|
| | | | | | | | | | | | | Designation | Item No. | Page |
| 8,300 | | • | • | • | • | | | | 1.5 | 30 | Iron | Dederon braid | 15833S | 145 |
| 60,000 | | • | • | | • | • | • | | 1.8 | 500 | galvanized | ★★ Iron wire | 15036 | 145 |
| 25,000 | | • | • | • | • | • | • | | 1.5 | 200 | galvanized | ★★ Wire strands | 15009 | 145 |
| 25,000 | | • | • | • | | | | | 1.5 | 200 | galvanized | ★★ Wire strands | 14134 | 145 |
| 25,000 | | • | • | • | | | | | 1.5 | 200 | galvanized | ★★ Wire strands | 14134-400 | 145 |
| 50,000 | | • | • | • | • | | • | • | 1.6 | 200 | galvanized | ★★★ GALVADUR | 15904 | 145 |
| 75,000 | | • | • | • | • | | • | • | 2.5 | 500 | galvanized | ★★★ GALVADUR | 15945 | 145 |

Notice

You will find the product guide for the electric fence polywires on the next pages.

i





CONDUCTOR MATERIAL

Electric fence polywires

| Fence length* m | Type of animal | | | | | | | | Breaking load ~ kg | Color | Product | | |
|--------------------|----------------|---|---|---|---|---|---|---|-----------------------|-------------------|---------------------|------------|------|
| | | | | | | | | | | | Designation | Item No. | Page |
| 210 cm | | • | | | | | • | • | 30 | yellow/orange | ★ trapper® W3 | 15567 | 141 |
| 900 | | • | • | | • | • | • | • | 70 | white | ★★ farmer® W9 - W | 15374 | 141 |
| 900 | | • | • | | • | • | • | • | 70 | white | ★★ farmer® W9 - W | 15277 | 141 |
| 600 | | • | • | | • | • | • | • | 60 | white | ★★ farmer® W6 - W | 15282 | 141 |
| 600 | | • | • | | • | • | • | • | 60 | white | ★★ farmer® W6 - W | 15283 | 141 |
| 300 | | • | • | | • | • | • | • | 50 | yellow/orange | ★★ farmer® W3 - O | 15345 | 141 |
| 12,700 | | • | • | • | • | | • | • | 120 | white/blue | ★★ hotshock® W9 - B | 17149 | 141 |
| 12,700 | | • | • | • | • | | • | • | 100 | white/blue | ★★ hotshock® W9 - B | 17149-400 | 141 |
| 8,600 | | • | • | • | • | | • | | 160 | orange/gray | ★★★ ranger® W3 - O | 17143 | 142 |
| 8,600 | | • | • | • | • | | • | | 160 | orange/gray | ★★★ ranger® W3 - O | 17143-400 | 142 |
| 8,600 | | • | • | • | • | | • | | 160 | orange/gray | ★★★ ranger® W3 - O | 17143-1000 | 142 |
| 8,600 | | • | • | • | • | | • | | 160 | white/yellow | ★★★ ranger® W3 - W | 17144 | 142 |
| 8,600 | | • | • | • | • | | • | | 160 | white/yellow | ★★★ ranger® W3 - W | 17144-400 | 142 |
| 8,600 | | • | • | • | • | | • | | 160 | white/yellow | ★★★ ranger® W3 - W | 17144-1000 | 142 |
| 8,600 | | • | • | • | • | | • | | 160 | yellow/blue/green | ★★★ ranger® W3 - W | 17145-400 | 142 |
| 25,000 | | • | • | • | • | | • | | 180 | white/black | ★★★ turbomax® W6 | 17140 | 142 |
| 25,000 | | • | • | • | • | | • | | 180 | white/black | ★★★ turbomax® W6 | 17140-400 | 142 |
| 25,000 | | • | • | • | • | | • | | 180 | white/black | ★★★ turbomax® W6 | 17140-1000 | 142 |
| 27,300 | | • | • | • | • | | • | | 200 | white/black | ★★★ turbomax® W9 | 17141 | 142 |
| 27,300 | | • | • | • | • | | • | | 200 | white/black | ★★★ turbomax® W9 | 17141-400 | 142 |
| 27,300 | | • | • | • | • | | • | | 200 | white/black | ★★★ turbomax® W9 | 17141-1000 | 142 |
| 37,500 | | • | • | • | • | | • | | 200 | white/black | ★★★ turbomax® W12 | 17142 | 142 |
| 37,500 | | • | • | • | • | | • | | 200 | white/black | ★★★ turbomax® W12 | 17142-400 | 142 |
| 37,500 | | • | • | • | • | | • | | 200 | white/black | ★★★ turbomax® W12 | 17142-1000 | 142 |

- very suitable for
- restrictedly suitable for

Expert choice

Farmers recommend the ring insulator ranger® plus c to hold electric fence polywires. It holds the conductor material optimally free-moving at the required height and can be easily screwed into wooden or recycled posts (15341C, p. 188).



★ ★ ★
**EXPERT
CHOICE**
★ ★ ★





A tip

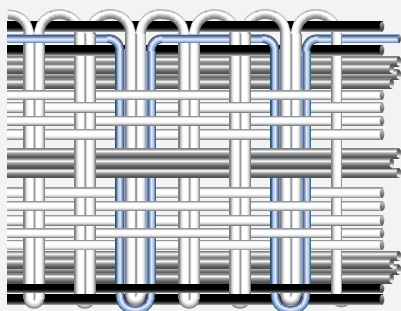
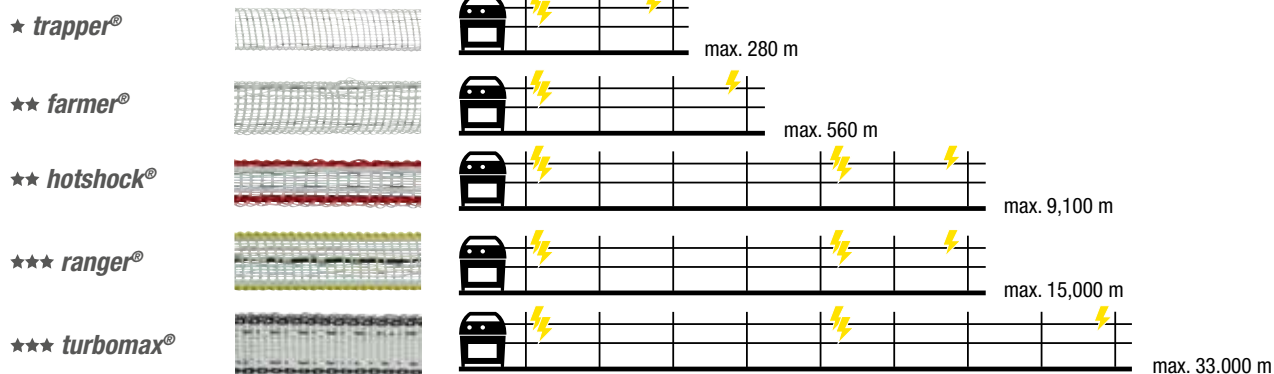
Your electric fence system should have stable corner and intermediate posts which both allow tensioning of the pasture fence tape and maintenance of its height. In this way the conductors hang straight and parallel to each other.

PASTURE FENCE TAPE

There are various series of horizon-pasture fence tapes which are characterized according to the maximum fence length. horizon offers a suitable pasture fence tape for every individual application. When choosing the conductor material to achieve the optimal herding security, one should note the width and the color.

Maximum fence lengths:

Details of the fence lengths show the maximum possible fence lengths on flat land without any vegetation with an appropriately strong energiser.



turbomax® pasture fence tapes

Cross connections ensure a continuous current flow and an optimal power supply.

Bundled **TLDmax** conductors provide the highest conductivity and a high current flow.

Polyethylene fibers provide the highest service life and high breakage loads.



Pasture fence tape ★ trapper®

- Suitable for:**
- Short fences and portions of pasture
- Advantage:**
- A monofilament with a high UV stability
 - Stainless steel conductors for good conductivity and the greatest bending strength
- Color:**
- White: this provides more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/Item No.

| Item no. | Designation | Width | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|----------|------------------|-------|-------|--------------------|---------------|----------------------|--------------------------------|------------|-------|------|------------|
| 17280 | trapper® T10 - W | 10 mm | 250 m | 210 m | ~ 20 kg | 3 | 0.15 | 14.40 Ω/m | white | 1 | 13.99 |
| 17281 | trapper® T20 - W | 20 mm | 250 m | 280 m | ~ 40 kg | 4 | 0.15 | 10.80 Ω/m | white | 1 | 15.99 |

Pasture fence tape ★★ farmer®

- Suitable for:**
- Short fences and portions of pasture
- Advantage:**
- High breakage loads
 - A monofilament with a high UV stability
 - Stainless steel conductors for good conductivity and the greatest bending strength
- Color:**
- White: this provides more contrast with the environment and increased visibility during twilight and in darkness
 - Yellow/orange: good visibility
 - Green: fits in very well in nature



www.horizont.com/Item No.

| Item no. | Designation | Width | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|----------|-----------------|-------|-----------|--------------------|---------------|----------------------|--------------------------------|------------|---------------|------|------------|
| 17451 | farmer® T10 - W | 10 mm | 200 m | 210 m | ~ 40 kg | 3 | 0.15 | 14.40 Ω/m | white | 1 | 13.99 |
| 17287 | farmer® T10 - O | 10 mm | 200 m | 210 m | ~ 40 kg | 3 | 0.15 | 14.40 Ω/m | yellow/orange | 1 | 12.99 |
| 17475 | farmer® T20 - W | 20 mm | 200 m | 280 m | ~ 90 kg | 4 | 0.15 | 10.80 Ω/m | white | 1 | 15.99 |
| 17272 | farmer® T20 - W | 20 mm | 2 x 200 m | 280 m | ~ 90 kg | 4 | 0.15 | 10.80 Ω/m | white | 1 | 29.95 |
| 17528 | farmer® T20 - O | 20 mm | 200 m | 280 m | ~ 90 kg | 4 | 0.15 | 10.80 Ω/m | yellow/orange | 1 | 15.99 |
| 17475GR | farmer® T20 - G | 20 mm | 200 m | 280 m | ~ 90 kg | 4 | 0.15 | 10.80 Ω/m | green | 1 | 15.99 |
| 17458 | farmer® T40 - W | 40 mm | 200 m | 560 m | ~ 120 kg | 8 | 0.15 | 5.40 Ω/m | white | 1 | 23.95 |
| 17458GR | farmer® T40 - G | 40 mm | 200 m | 560 m | ~ 120 kg | 8 | 0.15 | 5.40 Ω/m | green | 1 | 23.95 |



Pasture fence tape ★★ hotshock®

- Suitable for:** • Medium fence lengths
- Advantage:** • A higher service life due to additional protection against corrosion
 • Reinforced conductor material with a higher breaking load
 • Specially suitable for strong devices (e.g. anti-wildlife)
- Color:** • white/blue: easy to see for animals and humans

www.horizont.com/17211

| Item no. | Designation | Width | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax | Resistance | Color | Unit | Price in € |
|----------|---------------|-------|-------|--------------------|---------------|----------------------|---------|------------|------------|------|------------|
| 17211 | hotshock® T12 | 12 mm | 200 m | max. 8.600 m | ~ 100 kg | 6 | 0.30 mm | 0.36 Ω/m | white/blue | 1 | 21.95 |



Pasture fence tape ★★★ ranger®

- Suitable for:** • Medium to longer fences
- Advantage:** • High conductivities
 • A polyethylene monofilament for a high tensile strength
 • Bundled TLDmax conductors for the highest current flow
 • The particularly high and reinforced outer edges allow high tensile loads to be absorbed (only for 17121, 17122, 17124, 17125)
- Color:** • White with yellow outer edges: For more contrast with the environment and increased visibility during twilight and in darkness
 • Yellow/blue/green: has a fluorescent effect and has particularly good visibility in front of dark backgrounds like woods
 • Green: fits in very well in nature
 • Brown: fits in very well in stable wooden fence situations



www.horizont.com/Item No.

| Item no. | Designation | Width | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax | Resistance | Color | Unit | Price in € |
|----------|-------------------|-------|-------|--------------------|---------------|----------------------|---------|------------|-------------------|------|------------|
| 17116 | ranger® FLUO T12 | 12 mm | 200 m | 9,100 m | ~ 60 kg | 4 | 0.22 mm | 0.33 Ω/m | yellow/blue/green | 1 | 23.95 |
| 17113 | ranger® T12 - W | 12 mm | 200 m | 9,100 m | ~ 60 kg | 4 | 0.22 mm | 0.33 Ω/m | white/yellow | 1 | 22.95 |
| 17114 | ranger® T20 - W | 20 mm | 200 m | 11,100 m | ~ 120 kg | 5 | 0.22 mm | 0.27 Ω/m | white/yellow | 1 | 28.95 |
| 17115 | ranger® T40 - W | 40 mm | 200 m | 15,000 m | ~ 180 kg | 8 | 0.20 mm | 0.20 Ω/m | white/yellow | 1 | 46.95 |
| 17121 | ranger® T20 - W-E | 20 mm | 200 m | 9,100 m | ~ 150 kg | 4 | 0.22 mm | 0.33 Ω/m | white | 1 | 42.95 |
| 17122 | ranger® T20 - B-E | 20 mm | 200 m | 9,100 m | ~ 150 kg | 4 | 0.22 mm | 0.33 Ω/m | brown | 1 | 42.95 |
| 17125 | ranger® T40 - B-E | 40 mm | 200 m | 15,000 m | ~ 260 kg | 8 | 0.20 mm | 0.20 Ω/m | brown | 1 | 65.95 |

* Fence length: Data for simple fences with a conductor and without any vegetation. The quoted fence lengths reduce according to the density of the vegetation. Longer fences are possible when one uses a number of fence conductors at a number of levels.



Pasture fence tape ★★★ turbomax®



- Suitable for:**
- Longer to very long fences
- Advantage:**
- The high conductivity ensures a high herding security
 - Conductors of the **TLDmax** are extremely weather-proof
 - Cross connections ensure a continuous current flow and even secure an optimal power supply in the case of a conductor breakage
 - Polyethylene fibers provide the highest service life and high breakage loads
- Color:**
- White: with black outer edges for more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/Item no.

| Item no. | Designation | Width | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|----------|---------------|-------|-------|--------------------|---------------|----------------------|--------------|--------------------------------|------------|-------------|------|------------|
| 17110 | turbomax® T12 | 12 mm | 200 m | 21,400 m | ~ 60 kg | 6 | 5 x 0.30 mm | 1 x 0.20 mm | 0.14 Ω/m | white/black | 1 | 31.95 |
| 17111 | turbomax® T20 | 20 mm | 200 m | 20,000 m | ~ 140 kg | 8 | 7 x 0.25 mm | 1 x 0.20 mm | 0.15 Ω/m | white/black | 1 | 41.95 |
| 17112 | turbomax® T40 | 40 mm | 200 m | 33,300 m | ~ 240 kg | 12 | 11 x 0.25 mm | 1 x 0.20 mm | 0.09 Ω/m | white/black | 1 | 68.95 |

Foil barrier tape

- Properties:**
- 80 mm wide
 - 100 m on a roll
 - blue / white

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14622 | 1 | 10.95 |





A tip

White pasture fence ropes for more contrast with the environment and increased visibility during twilight and in darkness Pasture fence ropes are generally very durable and have a long service life due to their high material usage. horizont recommends guiding rope using rope insulators (p. 185) instead of ring insulators.

PASTURE FENCE ROPE

There are various series of horizont-pasture fence tapes which are characterized according to the maximum fence length. horizont offers a suitable pasture fence tape for every individual application. When choosing the conductor material to achieve the optimal herding security, one should note the diameter and the color.

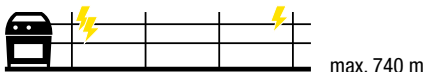
Maximum fence lengths:

Details of the fence lengths show the maximum possible fence lengths on flat land without any vegetation with an appropriately strong energiser.

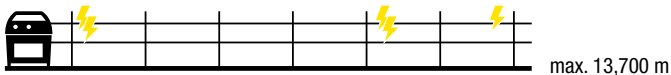
★ trapper®



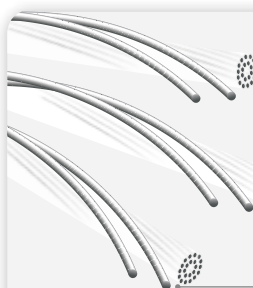
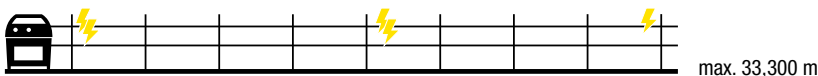
★★ farmer®



★★★ ranger®



★★★ turbomax®



The counter stranding gives the pasture fence ropes a high stability

Individual strands are arranged in such a way that they are twisted well into the rope. This guarantees a secure flashover.

Wires are always easy to see due to the extensive stranding and offer a high contact surface.

Pasture fence rope ★ *trapper®*

- Suitable for:** • Short fences and portions of pasture
- Advantage:** • A particularly light rope with only 4 mm diameter
- Color:** • White: this provides more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/17285

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|----------|-------------|----------|-------|--------------------|---------------|----------------------|--------------------------------|------------|-------|------|------------|
| 17285 | trapper® R4 | 4 mm | 250 m | 360 m | ~ 120 kg | 3 | 0.20 mm | 8.10 Ω/m | white | 1 | 21.95 |

Pasture fence rope ★★ *farmer®*

- Suitable for:** • Short fences and portions of pasture with little vegetation
- Advantage:** • 462560: a flexible pasture fence rope, ideally suited to use on pasture gates
- Color:** • White: this provides more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/Item No.

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|------------|--------------------|----------|-------|--------------------|---------------|----------------------|--------------------------------|------------|-------------|------|------------|
| 153372 | farmer® R6 | 6 mm | 200 m | 740 m | ~ 250 kg | 6 | 0.20 mm | 4.05 Ω/m | white | 1 | 28.95 |
| 153372-400 | farmer® R6 | 6 mm | 400 m | 740 m | ~ 250 kg | 6 | 0.20 mm | 4.05 Ω/m | white | 1 | 54.95 |
| 462560 | farmer® stretch W3 | 8 mm | 50 m | 370 m | ~ 100 kg | 3 | 0.20 mm | 8.10 Ω/m | white/black | 1 | 63.95 |

Pasture fence rope ★★★ *ranger®*

- Suitable for:** • Medium to longer fences
- Advantage:** • The high number of wires ensure a high current flow
- Polyethylene fibers with a high tensile strength
- Color:** • White: for more contrast with the environment and increased visibility during twilight and in darkness
- Green: fits in very well in nature

TLDmax
TECHNOLOGY



www.horizont.com/15962

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax | Resistance | Color | Unit | Price in € |
|-----------|-------------|----------|-------|--------------------|---------------|----------------------|---------|------------|--------------|------|------------|
| 17182 | ranger® R6 | 6 mm | 200 m | 13,700 m | ~ 250 kg | 6 | 0.22 mm | 0.22 Ω/m | white/yellow | 1 | 43.95 |
| 17182-400 | ranger® R6 | 6 mm | 400 m | 13,700 m | ~ 250 kg | 6 | 0.22 mm | 0.22 Ω/m | white/yellow | 1 | 81.95 |

Pasture fence rope ★★★ turbomax®



- Suitable for:** • Longer to very long fences with very strong vegetation growth
- Advantage:** • The **TLDmax** conductors ensure the highest conductivity and secure a high current flow
- A high tensile strength for long fence use out in the open
- PE monofilaments for a longer service life
- Color:** • White/black: for more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/Item No.

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax | Resistance | Color | Unit | Price in € |
|-----------|-----------------|----------|-------|--------------------|---------------|----------------------|---------|------------|-------|------|---------------|
| 17180 | turbomax® R6-PE | 6 mm | 200 m | 17,700 m | ~ 500 kg | 6 | 0.25 mm | 0.17 Ω/m | white | 1 | 54.95 |
| 17180-400 | turbomax® R6-PE | 6 mm | 400 m | 17,700 m | ~ 500 kg | 6 | 0.25 mm | 0.17 Ω/m | white | 1 | 109.00 |
| 17180-800 | turbomax® R6-PE | 6 mm | 800 m | 17,000 m | ~ 500 kg | 6 | 0.25 mm | 0.17 Ω/m | white | 1 | 219.00 |

Pasture fence rope ★★★ turbomax® braided rope

- Suitable for:** • Longer to very long fences with very strong vegetation growth
- Mobile fences which are often assembled and disassembled
- Advantage:** • A strong conductivity due to the high number of mixed conductors (copper and Nirosta)
- The high number of wires ensures a high current flow
- The braided structure of the plastic monofilaments ensures a high tensile strength as well as very well protected conductor wires which contributes to their long-term resistance
- PE monofilaments for a longer service life
- Color:** • White/black: for more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/Item No.

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Dia. Copper conductor | Resistance | Color | Unit | Price in € |
|------------|-----------------------------|----------|-------|--------------------|---------------|----------------------|--------------------------------|-----------------------|------------|-------------|------|--------------|
| 145121 | turbomax® Braided rope D3 | 3 mm | 200 m | 23.1 km | ~ 200 kg | 9 | 6 x 0.15 mm | 3 x 0.25 mm | 0.13 Ω/m | white/black | 1 | 33.95 |
| 145121-400 | turbomax® Braided rope D3 | 3 mm | 400 m | 23.1 km | ~ 200 kg | 9 | 6 x 0.15 mm | 3 x 0.25 mm | 0.13 Ω/m | white/black | 1 | 61.95 |
| 145131 | turbomax® Braided rope D5.5 | 5.5 mm | 200 m | 33.3 km | ~ 600 kg | 9 | 6 x 0.20 mm | 3 x 0.30 mm | 0.09 Ω/m | white/black | 1 | 64.95 |



i



A ==
B ==
C ==

**A tip**

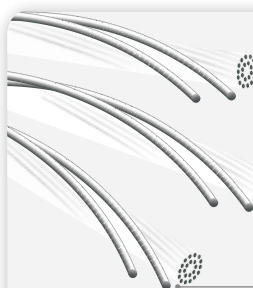
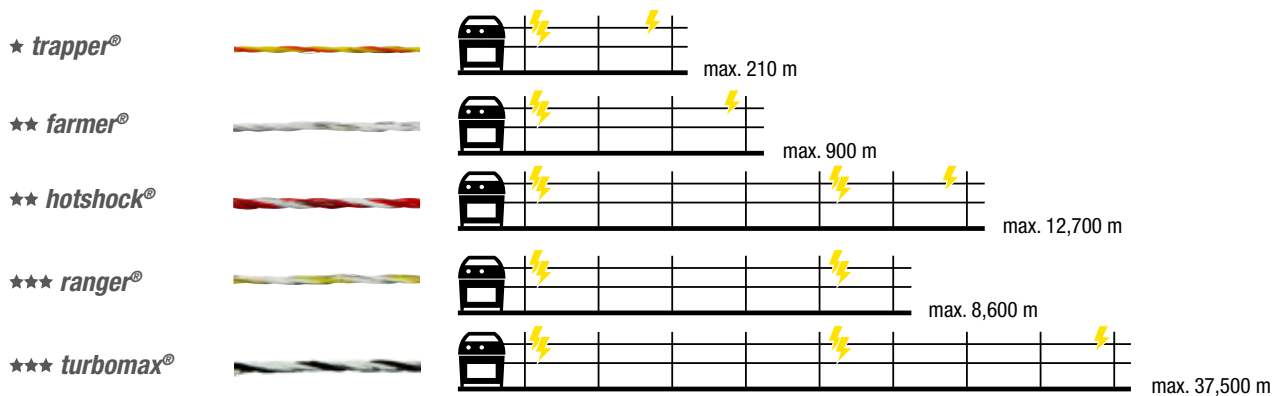
horizont electric fence polywires are particularly light and can be easily tensioned and installed. The low weight allows larger post spacings to be used in the electric fence system.

ELECTRIC FENCE POLYWIRE

There are various series of horicont-electric fence polywires which are characterized according to the maximum fence length. horicont offers a suitable electric fence polywire for every individual application. All horicont electric fence polywires can be seen well in twilight; this is decisive due to the low diameter.

Maximum fence lengths:

Details of the fence lengths show the maximum possible fence lengths on flat land without any vegetation with an appropriately strong energiser.



The counter stranding gives the electric fence polywire a high stability

Individual strands are arranged in such a way that they are twisted well into the braid. This guarantees a secure flashover.

Wires are always easy to see due to the extensive stranding and offer a high contact surface.

Electric fence polywire ★ trapper®

- Suitable for:** • Short fences and portions of pasture
Advantage: • Simple quality; optimal for the hobby area
Color: • orange: easy to see for animals and humans



www.horizont.com/15567

| Item no. | Designation | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|----------|-------------|-------|--------------------|---------------|----------------------|--------------------------------|------------|---------------|------|------------|
| 15567 | trapper® W3 | 250 m | 210 m | ~ 30 kg | 3 | 0.15 | 14.4 Ω/m | yellow/orange | 1 | 9.99 |

Electric fence polywire ★★ farmer®

- Suitable for:** • Short and medium sized fences
Advantage: • For medium breakage loads
• A double quantity of monofilaments in comparison to a standard quality conductor
Color: • White: this provides more contrast with the environment and increased visibility during twilight and in darkness
• Yellow/orange: easy to see for animals and humans



www.horizont.com/Item No.

| Item no. | Designation | Coil | Max. fence length* | Breaking load | Number of conductors | Dia. Stainless steel conductor | Resistance | Color | Unit | Price in € |
|----------|----------------|-------|--------------------|---------------|----------------------|--------------------------------|------------|---------------|------|------------|
| 15347 | farmer® W9 - W | 250 m | 900 m | ~ 70 kg | 9 | 0.18 mm | 3.33 Ω/m | white | 1 | 24.95 |
| 15277 | farmer® W9 - W | 400 m | 900 m | ~ 70 kg | 9 | 0.18 mm | 3.33 Ω/m | white | 1 | 34.95 |
| 15282 | farmer® W6 - W | 250 m | 600 m | ~ 60 kg | 6 | 0.18 mm | 4.98 Ω/m | white | 1 | 19.99 |
| 15283 | farmer® W6 - W | 400 m | 600 m | ~ 60 kg | 6 | 0.18 mm | 4.98 Ω/m | white | 1 | 29.95 |
| 15345 | farmer® W3 - O | 250 m | 300 m | ~ 50 kg | 3 | 0.18 mm | 9.99 Ω/m | yellow/orange | 1 | 16.99 |

Electric fence polywire ★★ hotshock®

- Suitable for:** • Short and medium sized fences
Advantage: • A 5-times higher conductivity as stainless steel
• A higher service life due to additional protection
• Specially suitable for strong devices (e.g. sheep protection, anti-wildlife)
Color: • White/blue: for more contrast with the environment and increased visibility during twilight and in darkness

TBmax
TECHNOLOGY



www.horizont.com/Item no.

| Item no. | Designation | Coil | Max. fence length* | Breaking load | Number of conductors | TBmax TECHNOLOGY | Resistance | Color | Unit | Price in € |
|-----------|------------------|-------|--------------------|---------------|----------------------|------------------|------------|------------|------|------------|
| 17149 | hotshock® W9 - R | 200 m | 12,700 m | ~ 120 kg | 9 | 0.3 mm | 0.3 Ω/m | white/blue | 1 | 27.95 |
| 17149-400 | hotshock® W9 - R | 400 m | 12,700 m | ~ 120 kg | 9 | 0.3 mm | 0.3 Ω/m | white/blue | 1 | 52.95 |



www.horizont.com/Item No.

Electric fence polywire ★★★ ranger®

- Suitable for:** • Medium to longer fences
- Advantage:** • High conductivities, high tensile strengths as well as a secure and high current flow
- Color:** • White/yellow: for more contrast with the environment and increased visibility during twilight and in darkness
• Orange/gray: easy to see for animals and humans
• Yellow/blue/green: has a fluorescent effect and provides particularly good visibility in front of dark backgrounds like woods

| Item no. | Designation | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax TECHNOLOGY | Resistance | Color | Unit | Price in € |
|------------|-----------------|---------|--------------------|---------------|----------------------|-------------------|------------|-------------------|------|--------------|
| 17143 | ranger® W3 - 0 | 200 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | orange/gray | 1 | 20.95 |
| 17143-400 | ranger® W3 - 0 | 400 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | orange/gray | 1 | 39.95 |
| 17143-1000 | ranger® W3 - 0 | 1,000 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | orange/gray | 1 | 97.95 |
| 17144 | ranger® W3 - W | 200 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | white/yellow | 1 | 20.95 |
| 17144-400 | ranger® W3 - W | 400 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | white/yellow | 1 | 40.95 |
| 17144-1000 | ranger® W3 - W | 1,000 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | white/yellow | 1 | 97.95 |
| 17145-400 | ranger® FLUO W3 | 400 m | 8.6 km | ~ 160 kg | 3 | 0.25 mm | 0.35 Ω/m | yellow/blue/green | 1 | 40.95 |

Electric fence polywire ★★★ turbomax®

- Suitable for:** • Longer to very long fences with very strong vegetation growth
- Advantage:** • High conductivities as well as a secure and high current flow
- Color:** • White/yellow: for more contrast with the environment and increased visibility during twilight and in darkness



www.horizont.com/Item No.

| Item no. | Designation | Coil | Max. fence length* | Breaking load | Number of conductors | TLDmax TECHNOLOGY | Resistance | Color | Unit | Price in € |
|------------|---------------|---------|--------------------|---------------|----------------------|-------------------|------------|-------------|------|---------------|
| 17140 | turbomax® W6 | 200 m | 25 km | ~ 180 kg | 6 | 0.30 mm | 0.12 Ω/m | white/black | 1 | 27.95 |
| 17140-400 | turbomax® W6 | 400 m | 25 km | ~ 180 kg | 6 | 0.30 mm | 0.12 Ω/m | white/black | 1 | 54.95 |
| 17140-1000 | turbomax® W6 | 1,000 m | 25 km | ~ 180 kg | 6 | 0.30 mm | 0.12 Ω/m | white/black | 1 | 109.00 |
| 17141 | turbomax® W9 | 200 m | 27.3 km | ~ 200 kg | 9 | 0.25 mm | 0.11 Ω/m | white/black | 1 | 34.95 |
| 17141-400 | turbomax® W9 | 400 m | 27.3 km | ~ 200 kg | 9 | 0.25 mm | 0.11 Ω/m | white/black | 1 | 67.95 |
| 17141-1000 | turbomax® W9 | 1,000 m | 27.3 km | ~ 200 kg | 9 | 0.25 mm | 0.11 Ω/m | white/black | 1 | 159.00 |
| 17142 | turbomax® W12 | 200 m | 37.5 km | ~ 220 kg | 12 | 0.25 mm | 0.08 Ω/m | white/black | 1 | 38.95 |
| 17142-400 | turbomax® W12 | 400 m | 37.5 km | ~ 220 kg | 12 | 0.25 mm | 0.08 Ω/m | white/black | 1 | 76.95 |
| 17142-1000 | turbomax® W12 | 1,000 m | 37.5 km | ~ 220 kg | 12 | 0.25 mm | 0.08 Ω/m | white/black | 1 | 179.00 |



**A tip**

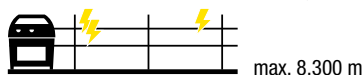
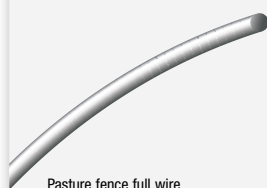
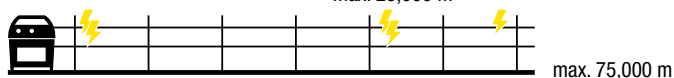
Use of pasture fence wires is particularly suitable for permanent installations. Horizontal pasture fence wires are characterized above all by their high conductivity and long service life.

PASTURE FENCE WIRE

There are various series of horizontal-electric fence wires which are characterized according to the maximum fence length. Horizont offers a suitable electric fence wire for every individual application. When choosing the conductor material to achieve the optimal herding security, one should note the diameter and the processing form (full material or wound wire).

Maximum fence lengths:

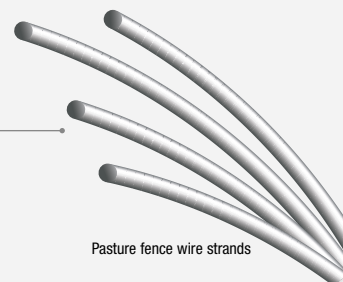
Details of the fence lengths show the maximum possible fence lengths on flat land without any vegetation with an appropriately strong energiser.

Original control wire**★★ Iron wire****★★ Wire strands****★★★ Permanent fence GALVADUR**

Pasture fence full wire

horizont offers pasture fence full wires with various diameters and the highest conductivity. They are very formable, corrosion-resistant, easy to work with, can take enormous loads and are suitable for long fences.

The pasture fence wire strands consist of many different individual strands which are galvanized for example. They are easy to work with, suitable for long fences and particularly tear-resistant.



Pasture fence wire strands

Pasture fence wire *Original control wire*

- Suitable for:**
- Short to medium sized fences
- Advantage:**
- Safe transfer of voltage to the animal
 - A 1.5 mm dia. plastic core
 - Wrapped with two special conductors (galvanized iron wire)
- Material:**
- Iron

"Original Control"

15833



www.horizont.com/Item No.

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Resistance | Material | Unit | Price in € |
|----------|---------------|----------|---------|--------------------|---------------|----------------------|------------|----------|------|--------------|
| 15833S | Dederon braid | 1.4 mm | 1,000 m | 8.3 km | ~ 30 kg | 2 | 0.35 Ω/m | Iron | 1 | 59.95 |

Pasture fence wire ★★ iron

- Suitable for:**
- Medium fence lengths
- Advantage:**
- Full material



www.horizont.com/15036

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Resistance | Material | Unit | Price in € |
|----------|-------------|----------|-------|--------------------|---------------|----------------------|------------|------------|------|--------------|
| 15036 | Iron wire | 1.8 mm | 250 m | 60.0 km | ~ 500 kg | 1 | 0.05 Ω/m | galvanized | 1 | 19.99 |

Pasture fence wire ★★ wire strands

- Suitable for:**
- Medium fence lengths
- Advantage:**
- 7 wires wound for every conductor
 - The wire is particularly flexible



www.horizont.com/Item No.

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Resistance | Material | Unit | Price in € |
|-----------|--------------|----------|-------|--------------------|---------------|----------------------|------------|------------|------|--------------|
| 15009 | Wire strands | 1.5 mm | 200 m | 25.0 km | ~ 200 kg | 7 | 0.12 Ω/m | galvanized | 1 | 14.99 |
| 14134 | Wire strands | 1.5 mm | 200 m | 25.0 km | ~ 200 kg | 7 | 0.12 Ω/m | galvanized | 1 | 21.95 |
| 14134-400 | Wire strands | 1.5 mm | 400 m | 25.0 km | ~ 200 kg | 7 | 0.12 Ω/m | galvanized | 1 | 29.95 |

Pasture fence wire

★★★ GALVADUR permanent fence

- Suitable for:**
- Longer fences
- Advantage:**
- The steel wire used is thickly galvanized using a special zinc/aluminum long lasting protection (95% zinc and 5% aluminum)
 - This provides a high corrosion protection and increases the service life greatly



www.horizont.com/Item No.

| Item no. | Designation | Diameter | Coil | Max. fence length* | Breaking load | Number of conductors | Resistance | Material | Unit | Price in € |
|----------|-------------|----------|-------|--------------------|---------------|----------------------|------------|------------|------|--------------|
| 15904 | GALVADUR | 1.6 mm | 315 m | 50.0 km | ~ 200 kg | 1 | 0.06 Ω/m | galvanized | 1 | 38.95 |
| 15945 | GALVADUR | 2.5 mm | 625 m | 75.0 km | ~ 500 kg | 1 | 0.04 Ω/m | galvanized | 1 | 85.95 |



www.horizont.com/Item No.



Pasture fence tape connectors ★★★

Usage:

- Light and safe to use in pasture fence tape
- Simple retensioning is possible

Advantage:

- A stable pasture fence tape connector due to the galvanized metal bracket made in one piece supported by unbreakable plastic

| Item no. | Suitable for | Width | Material | Unit | Price in € |
|----------|---------------------|-------------|---------------------|------|-------------|
| 14988C | Pasture fence tapes | up to 20 mm | galvanized, plastic | 10 | 8.99 |
| 14987C | Pasture fence tapes | up to 40 mm | galvanized, plastic | 5 | 9.99 |



www.horizont.com/14989C



40 mm

Pasture fence tape connection ★★★

Usage:

- The tape is light and can be securely attached to the gate handle
- Simple retensioning is possible

Advantage:

- A stable pasture fence tape connector due to the galvanized metal bracket made in one piece supported by unbreakable plastic

| Item no. | Suitable for | Width | Material | Unit | Price in € |
|----------|---------------------|----------|---------------------|------|-------------|
| 14989C | Pasture fence tapes | 12-40 mm | galvanized, plastic | 2 | 5.99 |



www.horizont.com/Item No.



Pasture fence tape connectors ★★

Usage:

- Simple to insert into the tape
- Simple retensioning of the tapes is possible

| Item no. | Suitable for | Width | Material | Unit | Price in € |
|----------|---------------------|-------------|----------|------|--------------|
| 15163C | Pasture fence tapes | up to 20 mm | Aluminum | 10 | 10.99 |
| 15164C | Pasture fence tapes | up to 40 mm | Aluminum | 5 | 10.99 |



www.horizont.com/15314C



Pasture fence rope connectors ★★





Usage:

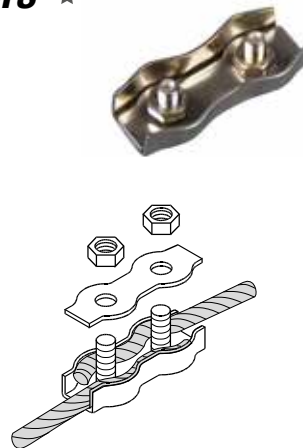
- Simple closing using a Phillips screwdriver
- For attachment of ropes to gate handles
- For connection of insulators to the starting and end points

| Item no. | Suitable for | Diameter | Material | Unit | Price in € |
|----------|---------------------|----------|------------------|------|--------------|
| 15314C | Pasture fence ropes | 5-6 mm | galvanized steel | 5 | 10.99 |

Pasture fence rope / polywire connectors ★

- Usage:** • For connecting pasture fence polywires or ropes
Advantage: • A large contact surface

| Item no. | Suitable for | Diameter | Material | Unit | Price in € |
|----------|--------------------------|----------|------------------|--|--------------|
| 15063C | Electric fence polywires | 1-4 mm | galvanized steel |  10 | 9.99 |
| 15483C | Pasture fence ropes | 4-6 mm | galvanized steel |  5 | 6.99 |
| 15506C | Pasture fence ropes | 4-6 mm | stainless steel |  5 | 12.95 |
| 15363C | Pasture fence ropes | 7-8 mm | galvanized steel |  3 | 7.99 |



 www.horizont.com/Item No.


Zinc
Coated

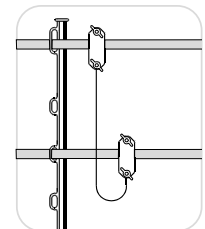
Stainless
Steel



Pasture fence tape connector cables ★★★

- Usage:** • Can be screwed on
• Connects tapes together
• Cable length 50 cm

| Item no. | Suitable for | Width | Material | Unit | Price in € |
|----------|---------------------|-------------|-----------------|---|-------------|
| 10446C | Pasture fence tapes | up to 40 mm | Stainless steel |  1 | 9.99 |



 www.horizont.com/10446C



Stainless
Steel

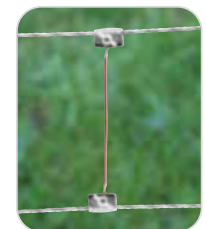


40 mm

Pasture fence rope connector cables ★★

- Usage:** • For connecting tensioned pasture fence ropes together
• Cable length 50 cm
Advantage: • All high voltage cables with double insulation

| Item no. | Suitable for | Diameter | Material | Unit | Price in € |
|----------|---------------------|----------|------------------|---|--------------|
| 10596C | Pasture fence ropes | 5-6 mm | galvanized steel |  1 | 7.99 |
| 10597C | Pasture fence ropes | 7-8 mm | Stainless steel |  1 | 14.99 |



 www.horizont.com/Item No.


Stainless
Steel

Zinc
Coated



Pasture fence polywire connector cables ★★

- Usage:** • For connecting tensioned polywires and wires together
• Cable length 50 cm
Advantage: • All high voltage cables with double insulation

| Item no. | Suitable for | Material | Unit | Price in € |
|----------|-------------------------------|---------------------------|---|--------------|
| 10440C | Pasture fence ropes and wires | galvanized steel, plastic |  2 | 13.99 |



 www.horizont.com/10440C

length
↔
50 cm

Zinc
Coated



20 mm



15526C



14197C



15526C



14197C



14356

www.horizont.com/Item No.



Pasture fence wire connectors ★★

Usage:

- can produce an up to 400 kg tension in wires
- For connecting iron and steel wires

| Item no. | Suitable for | Material | Unit | Price in € |
|----------|---------------------|--------------------|------|--------------|
| 15526C | Pasture fence wires | Aluminum | 10 | 11.99 |
| 14197C | Pasture fence wires | hot-dip galvanized | 10 | 10.99 |
| 14356 | Pasture fence wires | galvanized metal | 10 | 9.99 |



www.horizont.com/Item No.



Pasture fence wire connectors and tensioners - Gripple

Usage:

- Also usable as a wire tensioner
- Four times quicker than knotting together or similar techniques
- Long maintenance of the tension and simple retensioning
- Simple assembly using the Gripple collet with a tension measuring device (15962, p. 149)

| Item no. | Suitable for | Diameter | Material | Unit | Price in € |
|------------|--------------------------|-------------|------------|------|--------------|
| 15967 | Pasture fence full wires | 1.4-2.2 mm | galvanized | 20 | 32.95 |
| 47GRIP0001 | Pasture fence full wires | 2.0-3.25 mm | galvanized | 20 | 37.95 |



www.horizont.com/Item No.



Pasture fence rope tensioner ★★

Usage:

- The tensioner can be used at every location on the fence, direct in the fence material

Advantage:

- Complete with a locking bracket

| Item no. | Suitable for | Diameter | Material | Unit | Price in € |
|----------|-------------------------------|----------|----------|------|---------------|
| 15937C | Pasture fence ropes and wires | 1-8 mm | Aluminum | 2 | 11.99 |
| 15937-25 | Pasture fence ropes and wires | 1-8 mm | Aluminum | 25 | 119.00 |



www.horizont.com/14991



Pasture fence polywire / rope tensioners ★★★





Usage:

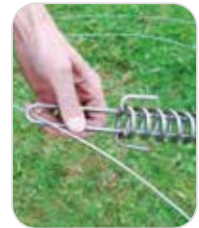
- Simple to use
- Slight retensioning is possible at any time
- A large tensioning effect

| Item no. | Suitable for | Diameter | Material | Unit | Price in € |
|----------|--------------------------------|----------|---------------|------|-------------|
| 14991 | Pasture fence ropes, polywires | 6-13 mm | Polypropylene | 2 | 5.99 |

Pasture fence wire tensioner / accessories ★★

Usage: • Keeps the wire taught during temperature fluctuations

| Item no. | Suitable for | Material | Unit | Price in € |
|----------|---------------------|--------------------------|---|--------------|
| 15905 | Pasture fence wires | Stainless steel |  | 32.95 |
| 14150 | Pasture fence wires | hot-dip galvanized steel |  | 15.99 |
| 15906 | Pasture fence wires | hot-dip galvanized steel |  | 12.99 |
| 15907C | Pasture fence wires | galvanized steel |  | 5.99 |



www.horizont.com/Item No.


Zinc Coated

Stainless Steel

FE / ZN

Pasture fence tensioner collet - Gripple

Usage: • For tensioning wires with the Gripple wire connector (15967, 47GRIP0001, p. 148)
• Can produce an up to 400 kg tension in wires
• Regulation of the tensioning force by means of an integrated tension measuring device

| Item no. | Suitable for | Unit | Price in € |
|----------|---------------------|---|---------------|
| 15962 | Pasture fence wires |  | 119.00 |



www.horizont.com/15962

FE / ZN

Pasture fence tensioning tool ★★

Usage: • For tensioning a rope or wire in combination with the pasture fence wire tensioner Item-No. 15937C (p. 148)

| Item no. | Suitable for | Material | Unit | Price in € |
|----------|---------------------|------------------|------|--------------|
| 15936 | Pasture fence wires | galvanized steel | 1 | 12.99 |




www.horizont.com/15936

Zinc Coated

FE / ZN

Farmer pliers★★

Usage: • An all-round set of pliers for all work with wire

| Item no. | Suitable for | Material | Unit | Price in € |
|----------|---------------------|--------------------------|---|--------------|
| 15653 | Pasture fence wires | Hot-dip galvanized steel |  | 14.99 |



www.horizont.com/15653

FE / ZN



www.horizont.com/15933

FE / ZN

Reels ★ for wire

- Usage:** • For winding on and off
- Capacity:** • Pasture fence wire GALVADUR dia. 2.5 mm (15945, p. 145): up to a maximum of 625 meters
- Brake:** • Operates over a screw
- Advantage:** • Including supporting feet
- Material:** • Galvanized steel

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15933 | 1 | 129.00 |



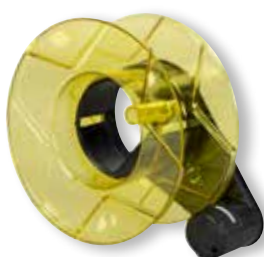
www.horizont.com/Item No.



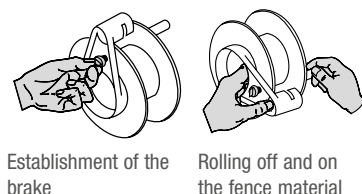
Reel ★★ MAXI ROLLER 2000 & 4000

- Usage:** • For winding on and off
- Capacity:** • Pasture fence polywires: up to a maximum of 2000 m (15013) / 4000 m (15839)
• Pasture fence tape: up to a maximum of 750 m (15013) / 1500 m (15839)
- Guide:** • Yes, **Brake:** Yes
- Material:** • plastic, with a conical shaft

| Item no. | Designation | Unit | Price in € |
|----------|-------------------------------|------|------------|
| 15013 | MAXI ROLLER 2000 plastic reel | 1 | 17.99 |
| 15031 | Carrier for 15013 | 1 | 17.99 |
| 15839 | MAXI ROLLER 4000 plastic reel | 1 | 25.95 |
| 15840 | Carrier for 15839 | 1 | 18.99 |

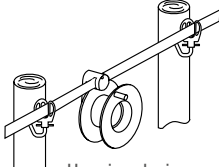


www.horizont.com/10109



Establishment of the brake

Rolling off and on the fence material



Hanging device:
hanging of the reel on the fence material

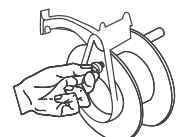
Reel ★ MINI ROLLER 300 PC

- Usage:** • For winding on and off and for partitioning of meadows
• Very suitable for use with mobile fences
- Capacity:** • Pasture fence polywires: up to a maximum of 300 m
• Pasture fence tape: up to a maximum of 100 m
- Guide:** • Yes
- Brake:** • Yes
- Material:** • Polycarbonate, with a suspension device

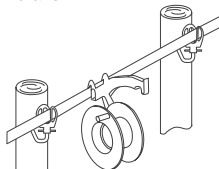
| Item no. | Unit | Price in € |
|----------|------|------------|
| 10109 | 1 | 14.99 |



www.horizont.com/Item No.



Establishment of the brake



Hanging device:
hanging of the reel on the fence material

Reel ★★ SUPER ROLLER 400

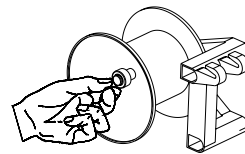
- Usage:** • For winding on and off
- Capacity:** • Pasture fence polywires: up to a maximum of 400 m
• Pasture fence tape: up to a maximum of 150 m
- Guide:** • Yes
- Brake:** • Yes
- Material:** • Plastic, with a suspension device

| Item no. | Designation | Unit | Price in € |
|----------|------------------|------|------------|
| 15289 | Plastic reel | 1 | 14.99 |
| 14052 | Replacement reel | 1 | 9.99 |

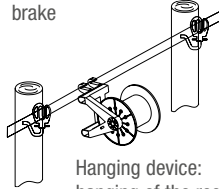
Reel ★★ SUPER ROLLER 600

- Usage:** • For winding on and off
Capacity: • Pasture fence polywires: up to a maximum of 600 m
 • Pasture fence tape: up to a maximum of 200 m
Guide: • Yes
Brake: • Yes
Material: • Plastic, with a suspension device

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 14168 | 1 | 20.95 |



Applying the brake



Hanging device:
hanging of the reel on the fence material

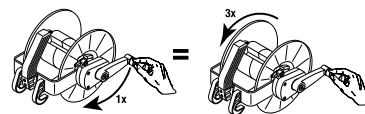


www.horizont.com/14168



Reel ★★ TURBO ROLLER 3 : 1

- Usage:** • For winding on and off
Capacity: • Pasture fence polywires: up to a maximum of 800 m
 • Pasture fence tape: up to a maximum of 300 m
Guide: • Yes
Brake: • Yes (anti-coast and locking brake)
Material: • Impact resistant plastic, a robust steel tub and steel frame with lifting eyes,



Use of the brake



www.horizont.com/Item No.



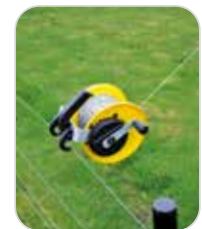
| Item no. | Designation | Unit | Price in € |
|----------|--------------|------|--------------|
| 13041 | Plastic reel | 1 | 78.95 |



Anti-coast brake



Reverse-roll locking device



Lifting eyes

Reel ★★ TURBO ROLLER 1500

- Usage:** • For winding on and off for 2 to 3-wire fences
Capacity: • Pasture fence polywires: up to a maximum of 800 m
 • Pasture fence tape: up to a maximum of 300 m
Guide: • Yes
Brake: • Yes
Material: • Plastic, with a suspension device

| Item no. | Designation | Unit | Price in € |
|----------|---------------------------------|------|--------------|
| 15340 | Plastic reel | 1 | 43.95 |
| 13042 | Post stands, 117 cm, individual | 1 | 59.95 |
| 13043 | Mounting part, individual | 1 | 20.95 |



Reel with a mounting part on a wooden post



Reel with a mounting part on a steel post



Mounting part, individual on a steel post



Mount reels on a steel post



www.horizont.com/Item No.



A tip

For assembly and dismantling of electric fence systems with four to five levels, two post stands can be used next to each other with mounted reels.



07 | POSTS

Every fence system needs suitable posts in order to be stable and anchored to the ground and to remain like this despite any weather situation. Secure stability of the fence is just as important for a mobile fence as it is for a permanent fence. The herding security of a fence system is essential for the protection and safety of fenced in animals – and here selection of the corner post is of the greatest importance, since this must carry the highest tensile forces on the fence system.

Guide

p. 154

Interesting facts about posts

Product guide

p. 156

The practical overview for a suitable post

PRODUCT RANGE

Plastic posts

p. 158

Fibre glass posts

p. 166

Steel posts

p. 166

Recycling, wooden posts and accessories

p. 170

T posts and accessories

p. 172

INTERESTING FACTS ABOUT POSTS

1. What are the different purposes of posts?

Corner and gate posts:

Corner and gate posts are usually made out of wood or recycled material. They are used when the direction of the fence changes substantially, for example when you wish to integrate a change in direction / corner (by more than 30 degrees) into your fence system. Plastic posts cannot carry the high tensile forces on the fence system as corner post and are therefore unsuitable for this area of application. It is meaningful to use stable wooden posts, but take care when installing in a corner to use the correct accessories and use insulators for wooden and recycling poles from horizontal. Wooden posts are also suitable for use as a intermediate posts on longer straight fence sections; their use is recommended here to provide the fence system with sufficient stability and security. If you wish to integrate a gate into your fence, you should also position stable posts at the end of the fence / gate since the last posts must carry the tensile force of the fence at the gate. The correct products for constructing gates can be found here: P. 204. It does not matter whether you integrate a corner or a gate into your fence system, the posts must be anchored deeply in the ground in order to provide sufficient stability in the fence system. The more forces the post must resist the deeper one must anchor these in the ground and the larger must the post diameter be.

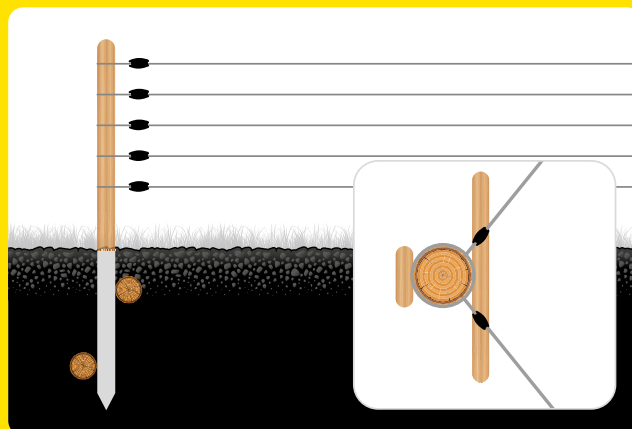
A tip: Corner, gate and intermediate posts are best anchored into the ground with the aid of an auger and a manual pile driver and should be twice as long as the height of the fence.

Posts for a change in direction:

If the direction of the fence changes (by an angle of 20 to 30 degrees), the post used for the change in direction does not have to be as strong as corner or gate posts. The forces which act under this lower incline on the post are not very great. These posts should also be used for hollows or hills. The best posts for this purpose are those which can be anchored in the ground such as wooden posts; a cost-effective alternative to this is recycling poles from horizontal.

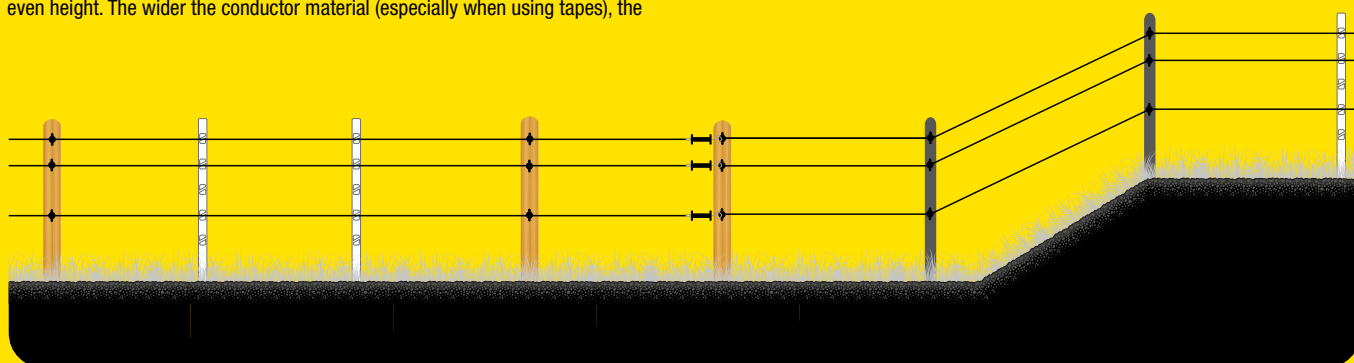
Section posts:

Section posts have the function of always keeping the conductor material at an even height. The wider the conductor material (especially when using tapes), the



A corner situation from a side view and a view from above

closer the posts must be positioned together. Also in areas of application which tend to be very windy, there should be posts in a section in order to make the fence stable enough. The conductor material used becomes much heavier in strong rain or in winter since it carries more moisture. This increased weight does not have a harmless effect on the herding security in the fence and must be taken into account. In order to prevent failures or loss of voltage, you should preventatively install sufficient posts in your fence system. Selection of suitable section posts differs according to whether you wish to have a permanent fence or a mobile fence. We recommend wooden or recycled posts for a permanent fence. For a mobile fence one should use plastic, fiberglass or angle steel posts.



An example fence with corner/gate posts made, for example, out of wood (brown), section posts made, for example, out of plastic (white) and posts for a change in direction made, for example, out of recycling material (gray)

A tip: Tipping over posts

Do your posts tip over often? That would represent a high risk for you as a livestock owner, and your animals. Section posts only have a restricted hold in the ground. It is therefore important to properly use corner posts since these take up the tension and are held secure and stable by corner to corner posts. A wider and longer ground spike is suitable for plastic posts to provide a better hold in the ground.



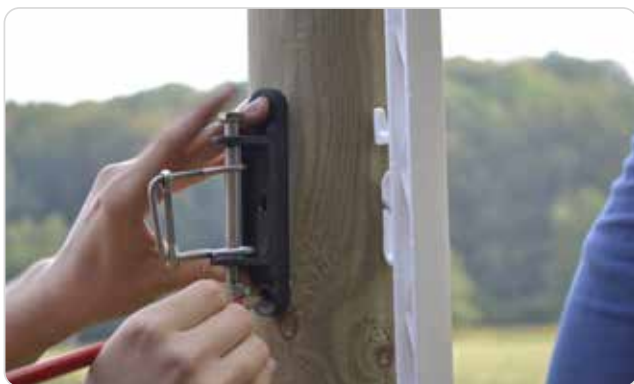
2. What heights must the posts have and what should the spacings be between them?

The height of your fence depends on the type of animals protected. Above all the points to note are the size of your animals and their jumping capabilities. Your fence must also be extended nearer to the ground when you additionally have young animals on the pasture. You can obtain suggestions about how to proceed on page 14.

As a general rule, the wider or heavier the conductor material, the closer together the posts must be in windy regions. Exact recommendations concerning post spacings can be found on p. 18. The spacings required also differ according to the conductor material used.

A tip

When using plastic posts as section posts you can very easily transfer the heights of the insulators at the corner posts or posts for a change in direction in that you place a plastic post next to the wooden or recycling post in the ground and transfer the height of the eyelets onto it.



3. What is the relationship between posts and fence lengths?

The following table can be used to calculate the number of posts needed for a given fence length.

In doing so one must note that stable posts must be used at corners and a gate and for large changes in direction or hollows and hills.

| Surface | Example side lengths | Fence length |
|--------------------------------|----------------------|--------------|
| 2,500 m ² / 0.25 ha | 50 m x 50 m | 200 m |
| 5,000 m ² / 0.5 ha | 71 x 71 m | 284 m |
| 7,500 m ² / 0.75 ha | 87 x 87 m | 348 m |
| 10,000 m ² / 1.0 ha | 100 x 100 m | 400 m |
| 15,000 m ² / 1.5 ha | 122 x 122 m | 488 m |
| 20,000 m ² / 2.0 ha | 141 x 141 m | 564 m |
| 30,000 m ² / 3.0 ha | 173 x 173 m | 692 m |
| 50,000 m ² / 5.0 ha | 224 x 224 m | 896 m |

An example situation: A horse meadow at the edge of a wood without terrain



This meadow is 306 meters long and includes a gate, but also large rocks have to be circumvented. Therefore 6 stable corner posts are needed. Section posts should be used spaced 3 meters apart for the occasionally long sections between posts, which hold the three levels of wide tape at the required height (for further spacings between posts see p. 18). It will therefore require 100 section posts for a fence length of 300 m, not including the length of the gate (here 6 m amongst the rocks).

Important icons for this chapter:

Cross selling icons:

These icons refer to products which are additionally required and which are compatible with the selected product.



Insulator



Conductor material



Tape



Rope



Polywire



Wire



Take a look at the *horizont* YouTube channel sometime!

Here there are explanations from *horizont* all about fence construction and even how the posts are correctly placed in the ground.

www.horizont.com/youtubeAC





POSTS

Plastic posts

| Usage | | Features | | | Insulator | | Suitable for* | | | | Product | | |
|-------------|--------------|--------------------|-------------------------------|----------|-----------------------|---------------|---------------|------------|-----------|-----------------|---------------------------------------|----------|------|
| Corner post | Section post | Total height in cm | Height above the ground in cm | Footstep | additionally required | incl. eyelets | Tape 40 mm | Tape 20 mm | Rope 8 mm | Polywire 3.5 mm | Designation | Item No. | Page |
| | • | 72 | 60 | ET | | • | | 4 | | 4 | Plastic post ★ trapper® | 14839 | 158 |
| | • | 136 | 106 | ET | | • | 2 | 5 | 5 | 5 | Plastic post ★★ profi-line | 15857 | 158 |
| | • | 157 | 142 | SB | | • | 4 | 4 | 8 | 8 | Stirrup post ★★ | 15108 | 158 |
| | • | 71 | 58 | ET | | • | 2 | 3 | 2 | 5 | Plastic post ★★★ ranger® | 14471-5 | 160 |
| | • | 71 | 58 | DT | | • | 2 | 3 | 2 | 5 | Plastic post ★★★ ranger® | 14379-5 | 160 |
| | • | 108 | 95 | ET | | • | 3 | 5 | 2 | 10 | Plastic post ★★★ ranger® | 14472-5 | 160 |
| | • | 108 | 95 | DT | | • | 3 | 5 | 2 | 10 | Plastic post ★★★ ranger® | 14380-5 | 160 |
| | • | 138 | 125 | ET | | • | 4 | 5 | 3 | 12 | Plastic post ★★★ ranger® | 14473-5 | 160 |
| | • | 138 | 125 | DT | | • | 4 | 5 | 3 | 12 | Plastic post ★★★ ranger® | 14381-5 | 160 |
| | • | 150 | 132 | ET | | • | 3 | 5 | | 8 | Plastic post ★★★ ranger® | 15663-10 | 160 |
| | • | 106 | 85 | ET | • | | • | • | • | • | Plastic post ★★★ long life | 15375 | 162 |
| | • | 146 | 125 | ET | • | | • | • | • | • | Plastic post ★★★ long life | 15376 | 162 |
| | • | 171 | 150 | ET | • | | • | • | • | • | Plastic post ★★★ long life | 15377 | 162 |
| | • | 169 | 153 | ET | | • | 4 | 6 | 3 | 13 | Plastic post ★★★ turbomax® | 15812 | 162 |
| | • | 78 | 55 | ET | | • | 2 | 4 | | 6 | Plastic post ★★★ turbomax® smart post | 14490 | 164 |
| | • | 115 | 92 | ET | | • | 3 | 5 | 2 | 10 | Plastic post ★★★ turbomax® smart post | 14491 | 164 |
| | • | 145 | 122 | ET | | • | 4 | 6 | 3 | 12 | Plastic post ★★★ turbomax® smart post | 14492 | 164 |

Fibre glass posts

| Usage | | Features | | | Insulator | | Suitable for* | | | | Product | | |
|-------------|--------------|--------------------|-------------------------------|--------|-----------------------|---------------|---------------|------------|-----------|-----------------|---------------------|----------|------|
| Corner post | Section post | Total height in cm | Height above the ground in cm | Color | additionally required | incl. eyelets | Tape 40 mm | Tape 20 mm | Rope 8 mm | Polywire 3.5 mm | Designation | Item No. | Page |
| | • | 124 | 99 | yellow | • | | | • | • | • | Fibre glass post ★★ | 14886 | 166 |
| | • | 135 | 105 | white | • | | | • | • | • | Fibre glass post ★★ | 14887 | 166 |
| | • | 150 | 130 | white | • | | | • | • | • | Fibre glass post ★★ | 14888 | 166 |
| | • | 110 | 95 | yellow | • | • | | | | • | Fibre glass post ★★ | 15596-10 | 166 |
| | • | 110 | 95 | white | • | • | | | | • | Fibre glass post ★★ | 155961 | 166 |



Steel posts

| Usage | | Features | | | Insulator | | Suitable for* | | | | Product | | |
|-------------|--------------|--------------------|-------------------------------|----------|-----------------------|---------------|---------------|------------|-----------|-----------------|--|----------|------|
| Corner post | Section post | Total height in cm | Height above the ground in cm | Footstep | additionally required | incl. eyelets | Tape 40 mm | Tape 20 mm | Rope 8 mm | Polywire 3.5 mm | Designation | Item No. | Page |
| | • | 105 | 85 | ET | | • | • | • | • | • | Steel post ★★ Pigtail | 14179 | 166 |
| | • | 105 | 85 | ET | | • | • | • | • | • | Steel Post ★★ Pigtail | 141791 | 166 |
| | • | 115 | 95 | DT | • | | | | | • | Angle steel post ★★ | 155361 | 168 |
| | • | 120 | 100 | DT | • | | | | | • | Angle steel post ★★ | 15877 | 168 |
| | • | 165 | 145 | DT | • | | | | | • | Angle steel post ★★ | 152541 | 168 |
| | • | 107 | 82 | DT | | • | | | | • | Oval steel post ★★ with a metal eyelet | 150561 | 168 |
| | • | 106 | 80 | DS | | • | | | | • | Oval steel post ★★ with a ring insulator | 150551 | 168 |

Recycling & wooden posts

| Usage | | Features | | | Insulator | | Suitable for | | | | Product | | |
|-------------|--------------|--------------------|-------------------------------|-------|-----------------------|---------------|--------------|------------|-----------|-----------------|----------------------|----------|------|
| Corner post | Section post | Total height in cm | Height above the ground in cm | Color | additionally required | incl. eyelets | Tape 40 mm | Tape 20 mm | Rope 8 mm | Polywire 3.5 mm | Designation | Item No. | Page |
| • | • | 200 | 140 | gray | • | | • | • | • | • | Recycling post ★★ | 15243 | 170 |
| • | • | 175 | 120 | gray | • | | • | • | • | • | Recycling post ★★ | 15593 | 170 |
| • | • | 150 | 100 | gray | • | | • | • | • | • | Recycling post ★★ | 15151 | 170 |
| • | | 250 | 150 | | • | | • | • | • | • | Corner/gate posts ★★ | 14131 | 170 |
| • | | 200 | 130 | | • | | • | • | • | • | Corner/gate posts ★★ | 14130 | 170 |

T-posts

| Usage | | Features | | | Insulator | | Suitable for* | | | | Product | | |
|-------------|--------------|--------------------|-------------------------------|-------|-----------------------|---------------|---------------|------------|-----------|-----------------|-------------|----------|------|
| Corner post | Section post | Total height in cm | Height above the ground in cm | Color | additionally required | incl. eyelets | Tape 40 mm | Tape 20 mm | Rope 8 mm | Polywire 3.5 mm | Designation | Item No. | Page |
| | • | 150 | 115 | black | | • | • | • | • | • | T-posts ECO | 14550 | 172 |
| | • | 165 | 131 | black | | • | • | • | • | • | T-posts ECO | 14551 | 172 |
| | • | 180 | 146 | black | | • | • | • | • | • | T-posts ECO | 14552 | 172 |





Plastic post ★ *trapper®*

- Suitable for:** • 4 wide tapes up to 20 mm and 4 polywires up to 3.5 mm
Total height: • 72 cm
Height above the ground: • 60 cm

| Item No. | Color | Unit | Price in € |
|----------|-------|---|--------------|
| 14839 | black |  | 18.99 |



Plastic post ★★ *profi-line*

- Eyelets suitable for:** • 2 wide tapes up to 40 mm, 5 wide tapes up to 20 mm, 5 ropes up to 8 mm, 5 polywires up to 3.5 mm and 5 wires up to 3.5 mm
Total height: • 136 cm
Height above the ground: • 116 cm
Ground spike: • 20 cm, dia. 9 mm
Footstep: • Single footstep

| Item No. | Color | Unit | Price in € |
|----------|-------|---|--------------|
| 15857 | white |  | 38.95 |

Stirrup post ★★

- Eyelets suitable for:** • 4 wide tapes up to 40 mm, 4 wide tapes up to 20 mm, 8 ropes up to 8 mm, 8 polywires up to 3.5 mm and 8 wires up to 3.5 mm
Total height: • 157 cm
Height above the ground: • 142 cm
Ground spike: • 15 cm, dia. 8 mm
Footstep: • Stirrup footstep

| Item No. | Color | Unit | Price in € |
|----------|-------|---|--------------|
| 15108 | white |  | 77.95 |
| 15108GN | green |  | 77.95 |

Plastic post ★★ profi-line

www.horizont.com/15857



- The unique eyelet design allows light insertion of the fence material and prevents springing out.

Plastic post ★ trapper®

www.horizont.com/14839

- An extremely light fully plastic post
- A torsion-free profile
- Handy



2 x 40 mm



2 x 20 mm



5 x 8 mm



5 x 3.5 mm



5 x 3.5 mm



4 x 40 mm



4 x 20 mm



8 x 8 mm



8 x 3.5 mm



8 x 3.5 mm

- Secure entry into the ground and a good foothold due to the stirrup footstep

- With an injected, galvanized steel nail

Stirrup post ★★

www.horizont.com/15108GN

- Stable construction
- Made out of glass fibre reinforced polypropylene
- A reinforced, torsion-free profile

140 cm

130 cm

120 cm

110 cm

100 cm

90 cm

80 cm

70 cm

60 cm

50 cm

40 cm

30 cm

20 cm

10 cm

0 cm

-10 cm

-20 cm

14839

15857




15108

15108GN







Plastic post ★★★ranger®






- Eyelets suitable for:** · 2 wide tapes up to 40 mm, 3 wide tapes up to 20 mm, 5x polywires up to 3.5 mm
- Total height:** · 71 cm
- Height above the ground:** · 58 cm
- Ground spike:** · 13 cm, dia. 7 mm

| Item No. | Color | Footstep | Unit | Price in € |
|-----------|-------|-----------------|---|-------------|
| 14471-5 | white | Single footstep |  | 7.99 |
| 14379-5 | white | Double footrest |  | 8.99 |
| 14379-5GN | green | Double footrest |  | 9.99 |

- Eyelets suitable for:** · 3 wide tapes up to 40 mm, 5 wide tapes up to 20 mm, 2 ropes up to 8 mm, 10 polywires up to 3.5 mm
- Total height:** · 108 cm
- Height above the ground:** · 95 cm
- Ground spike:** · 13 cm, dia. 8 mm

| Item No. | Color | Footstep | Unit | Price in € |
|-----------|-------|-----------------|---|--------------|
| 14472-5 | white | Single footstep |  | 8.99 |
| 14472-10 | white | Single footstep |  | 17.99 |
| 14380-5 | white | Double footrest |  | 9.99 |
| 14380-5GN | green | Double footrest |  | 10.99 |

- Eyelets suitable for:** · 4 wide tapes up to 40 mm, 5 wide tapes up to 20 mm, 3 ropes up to 8 mm, 12 polywires up to 3.5 mm
- Total height:** · 138 cm
- Height above the ground:** · 125 cm
- Ground spike:** · 13 cm, dia. 7 mm

| Item No. | Color | Footstep | Unit | Price in € |
|-----------|-------|-----------------|---|--------------|
| 14473-5 | white | Single footstep |  | 12.99 |
| 14473-10 | white | Single footstep |  | 25.95 |
| 14381-5 | white | Double footrest |  | 13.99 |
| 14381-5GN | green | Double footrest |  | 13.99 |
| 14381-10 | white | Double footrest |  | 26.95 |

- Eyelets suitable for:** · 3 wide tapes up to 40 mm, 5 wide tapes up to 20 mm and 8 polywires up to 3.5 mm
- Total height:** · 156 cm
- Height above the ground:** · 132.5 cm
- Ground spike:** · 24 cm, dia. 8 mm

| Item No. | Color | Single footstep | Unit | Price in € |
|----------|-------|-----------------|---|--------------|
| 15663-10 | white | Single footstep |  | 24.95 |

Exclusive advantages of new plastic posts:



• Additional lugs

for movement friendly detensioning of netting and securing against turning of the pole in the ground

- The footstep is particularly stable on the post

Plastic post ★★★ranger®

www.horizont.com/Art.Nr.

• High rigidity

for a low weight

• Fits

allows securely placed posts next to each other

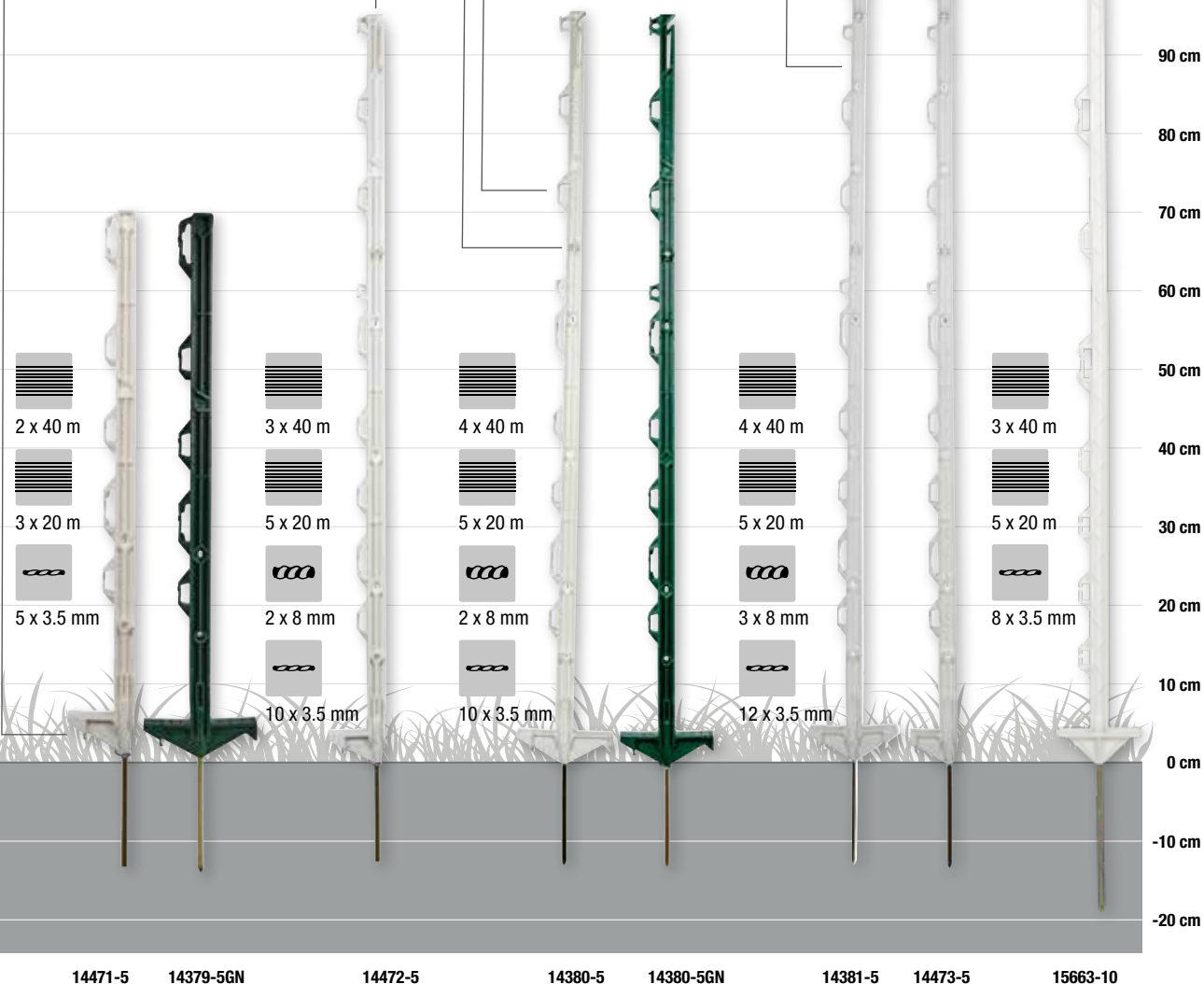
• Numberings

for insulators on a post



• Additional ribs

in a longitudinal direction





Plastic post ★★★ long life

| | |
|---------------------------------|--|
| Suitable for: | • Insulators for terminals and all types of conductor material |
| Total height: | • 106 cm |
| Height above the ground: | • 85 cm |
| Ground spike: | • 20 cm, dia. 8 mm |
| Footstep: | • Single footstep |
| Diameter: | • dia. 19 mm |

| Item No. | Color | Unit | Price in € |
|----------|---|---|---------------|
| 15375 |  white |  | 129.00 |

| | |
|---------------------------------|--|
| Suitable for: | • Insulators for terminals and all types of conductor material |
| Total height: | • 146 cm |
| Height above the ground: | • 125 cm |
| Ground spike: | • 21 cm, dia. 9 mm |
| Footstep: | • Single footstep |
| Diameter: | • dia. 19 mm |

| Item No. | Color | Unit | Price in € |
|----------|---|---|--------------|
| 15376 |  white |  | 74.95 |

| | |
|---------------------------------|--|
| Suitable for: | • Insulators for terminals and all types of conductor material |
| Total height: | • 171 cm |
| Height above the ground: | • 150 cm |
| Ground spike: | • 21 cm, dia. 9 mm |
| Footstep: | • Single footstep |
| Diameter: | • dia. 19 mm |

| Item No. | Color | Unit | Price in € |
|----------|---|---|--------------|
| 15377 |  white |  | 81.95 |

Plastic post ★★★ turbomax®

| | |
|---------------------------------|---|
| Eyelets suitable for: | • 4 wide tapes up to 40 mm, 6 wide tapes up to 20 mm, 3 ropes up to 8 mm, 13 polywires up to 3.5 mm |
| Total height: | • 169 cm |
| Height above the ground: | • 153 cm |
| Ground spike: | • 16 cm, dia. 9 mm |
| Footstep: | • Single footstep |

| Item No. | Color | Unit | Price in € |
|----------|-------|---|--------------|
| 15812 | white |  | 48.95 |

Plastic post ★★★ long life

✓ www.horizont.com/Item No.

Best choice

- A very long service life – made out of a high quality special plastic and therefore frost-resistant
- No seams since the post is a casting
- The insulators can be adjusted individually in terms of number

- and height
- The post is closed at the top – water cannot ingress



5 YEARS WARRANTY



Plastic post ★★★ turbomax®

✓ www.horizont.com/15812

- A cross linked torsion-free profile
- Injection-molded in one piece

Product tip

Insulators are particularly suitable for screwing on or clamping/clipping on



15481, p. 191



15480, p. 193



p. 192



p. 142

- A strong, galvanized stepping bar allows good stability in hard ground and simple entry into the ground
- A stable ground spike through continuous rather than spot welding in the post

- Eyelets are located opposite to the footstep – a free surface for better entry
- Additional insulator at the foot of the post for inserting a ground conductor for better herding security
- An additional reinforced and rounded stepping bar with fluting ensure a stable footstep



4 x 40 mm



6 x 20 mm



3 x 8 mm



13 x 3.5 mm

150 cm
140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
0 cm

-10 cm
-20 cm

15375

15376

15377

15812



Plastic post ★★★ turbomax® smart post

- Eyelets suitable for:**
- 2 wide tapes up to 40 mm, 4 wide tapes up to 20 mm and 6 polywires up to 3.5 mm
- Total height:**
- 78 cm
- Height above the ground:**
- 55 cm
- Ground spike:**
- 23 cm, dia. 9 mm
- Footstep:**
- Single footstep

| Item no. | Color | Unit | Price in € |
|-----------|-------|------|--------------|
| 14490-5 | white | | 13.99 |
| 14490-5GN | green | | 13.99 |

- Eyelets suitable for:**
- 3 wide tapes up to 40 mm, 5 wide tapes up to 20 mm, 2 ropes up to 8 mm, 10 polywires up to 3.5 mm
- Total height:**
- 115 cm
- Height above the ground:**
- 92 cm
- Ground spike:**
- 23 cm, dia. 9 mm
- Footstep:**
- Single footstep

| Item no. | Color | Unit | Price in € |
|------------|-------|------|--------------|
| 14491-5 | white | | 17.99 |
| 14491-10 | white | | 31.95 |
| 14491-5GN | green | | 15.99 |
| 14491-10GN | green | | 31.95 |

- Eyelets suitable for:**
- 4 wide tapes up to 40 mm, 6 wide tapes up to 20 mm, 3 ropes up to 8 mm, 12 polywires up to 3.5 mm
- Total height:**
- 145 cm
- Height above the ground:**
- 122 cm
- Ground spike:**
- 23 cm, dia. 9 mm
- Footstep:**
- Single footstep

| Item no. | Color | Unit | Price in € |
|------------|-------|------|--------------|
| 14492-5 | white | | 22.95 |
| 14492-10 | white | | 42.95 |
| 14492-5GN | green | | 22.95 |
| 14492-10GN | green | | 43.95 |



Best choice

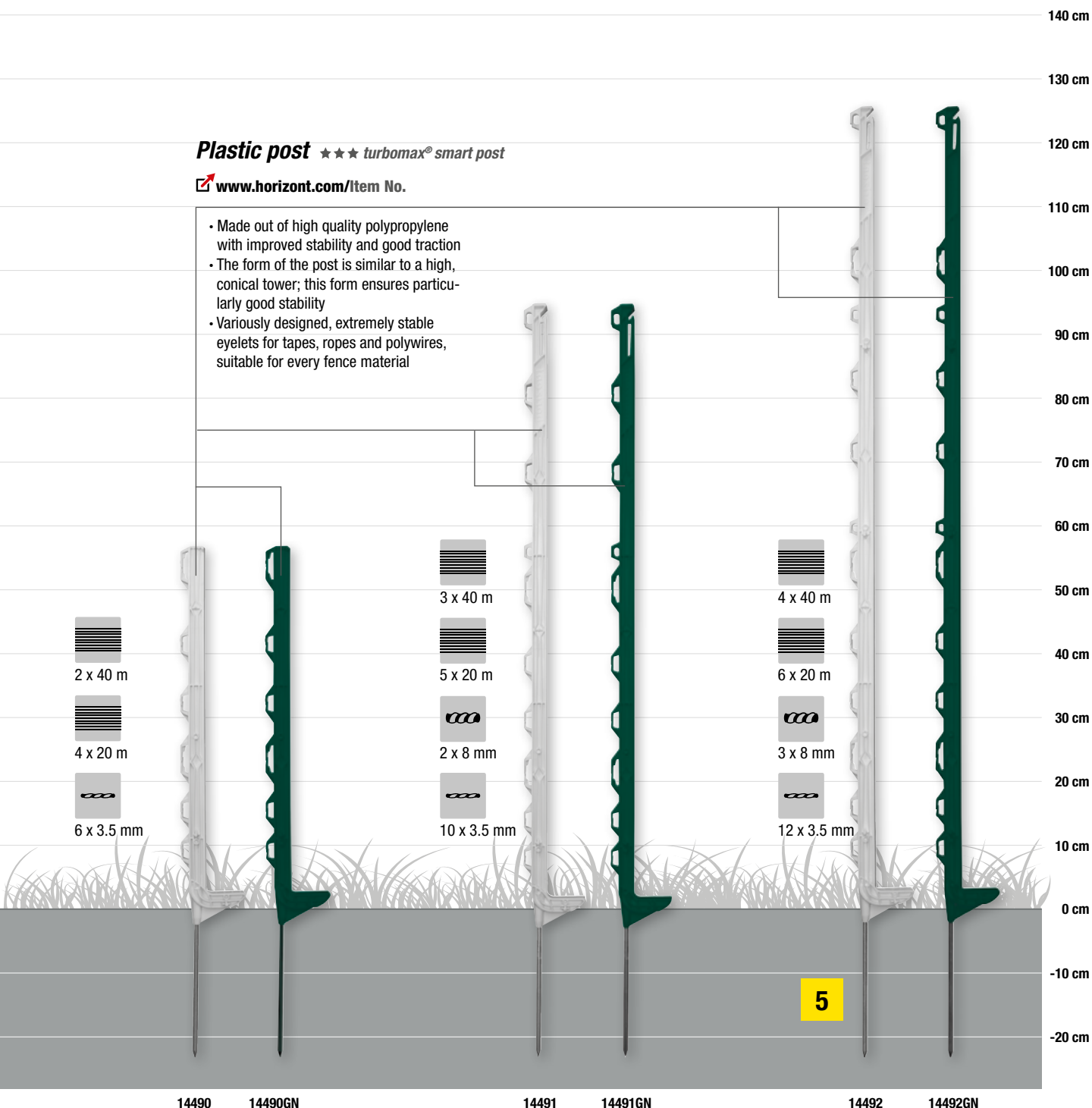
- 1** Cross ribbing in the post ensures stability, so it can be subjected to high tensile forces and can be bent strongly
- 2** An additional reinforced and rounded stepping bar with fluting ensure a stable footstep and prevents accidental slipping off
- 3** Two insulators on the pole tip ensure optimal use of the post length for use of polywire, rope or tape up to 40 mm
- 4** Numbering of the eyelets simplifies fence construction, particular on large meadows
- 5** A stable, extra thick galvanized, injected ground spike (9 mm in diameter, 23 cm long), in the post, is a guarantee for a very long service life and ensures good stability



Plastic post ★★★ *turbomax® smart post*

🔗 www.horizont.com/Item No.

- Made out of high quality polypropylene with improved stability and good traction
- The form of the post is similar to a high, conical tower; this form ensures particularly good stability
- Various designed, extremely stable eyelets for tapes, ropes and polywires, suitable for every fence material





Fiberglass post ★★

- Suitable for:** • Insulators for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3.5 mm
- Total height:** • 124 cm
- Height above the ground:** • 99 cm
- Footstep:** • Single footstep
- Diameter:** • dia. 12 mm

| Item No. | Color | Unit | Price in € |
|----------|--------|---|------------|
| 14886 | yellow |  | 37.95 |


- Suitable for:** • Insulators for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3.5 mm
- Total height:** • 135 cm
- Height above the ground:** • 105 cm
- Diameter:** • dia. 10 mm

| Item No. | Color | Unit | Price in € |
|----------|-------|---|------------|
| 14887 | white |  | 63.95 |

- Suitable for:** • Insulators for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3.5 mm
- Total height:** • 150 cm
- Height above the ground:** • 130 cm
- Ground spike:** • With a galvanized metal tip and galvanized ground anchor
- Diameter:** • dia. 10 mm



| Item No. | Color | Unit | Price in € |
|----------|-------|---|------------|
| 14888 | white |  | 109.00 |

- Suitable for:** • 2 polywires up to 3.5 mm and insulators for polywires up to 3.5 mm
- Total height:** • 110 cm
- Height above the ground:** • 95 cm
- Ground spike:** • With a steel tip
- Footstep:** • Single footstep
- Diameter:** • dia. 8 x 10 mm

| Item No. | Color | Unit | Price in € |
|----------|--------|---|------------|
| 15596-10 | yellow |  | 25.95 |
| 155961 | white |  | 26.95 |

Steel post ★★ Pigtail

- Eyelets suitable for:** • 1 wide tape up to 40 mm, 1 rope up to 8 mm or 1 polywire up to 3.5 mm and insulators for screwing on or clamping/ clipping on for all types of conductor material
- Total height:** • 105 cm
- Height above the ground:** • 85 cm
- Ground spike:** • dia. 7 mm
- Footstep:** • Single footstep
- Diameter:** • dia. 7 mm

| Item No. | Color | Material | Unit | Price in € |
|----------|-------|-------------------|---|------------|
| 14179 | white | Steel, painted |  | 89.95 |
| 141791 | white | Steel, galvanized |  | 85.95 |

Fibre glass post ★★

www.horizont.com/Item No.

Product tip

Insulators are particularly suitable for clamping/clipping on



14903-100, p. 192

17801F, p. 193

- Extremely stable and light
- Particularly handy on terrain
- The insulators can be adjusted individually in terms of number and height

• Ground anchor for secure positioning

Steel post ★★ pigtail

www.horizont.com/Item No.

Product tip

Additional insulators for screwing on are suitable for additional levels



15129, p. 192

- Extremely light
- Particularly handy on terrain
- A classic post for portions of pasture
- The large eyelet permits simple insertion and pulling through of the polywire with polywire connectors
- High insulation due to plastic coating in the head



p. 192



10 mm



p. 192



2 x 3.5 mm



p. 192



10 mm

• With a welded on footstep

• With a pressed on footstep

14886

14887

14888

15596-10

155961

14179

141791



Angle steel post ★★

- Suitable for:** • Insulators with a cotter pin or metric thread for polywires up to 3.5 mm
- Total height:** • 115 cm
- Height above the ground:** • 95 cm
- Footstep:** • Single footstep
- Wall thickness:** • 2 mm

| Item no. | Color | Design | Unit |
|----------|-------|---------|------|
| 155361 | red | 4 holes | |

- Suitable for:** • Insulators with a cotter pin or metric thread for polywires up to 3.5 mm
- Total height:** • 120 cm
- Height above the ground:** • 100 cm
- Footstep:** • Single footstep
- Wall thickness:** • 3 mm

| Item no. | Color | Design | Unit |
|----------|-------|---------|------|
| 15877 | red | 4 holes | |

- Suitable for:** • Insulators with a cotter pin or metric thread for polywires up to 3.5 mm
- Total height:** • 165 cm
- Height above the ground:** • 145 cm
- Footstep:** • Single footstep
- Wall thickness:** • 3 mm

| Item no. | Color | Design | Unit |
|----------|-------|---------|------|
| 152541* | red | 6 holes | |

Oval steel post ★★★ with a metal eyelet

- The eyelets are suitable for:** • 1 polywire up to 3.5 mm and insulators for screwing on and clamps/clip for polywires up to 3.5 mm
- Total height:** • 107 cm
- Height above the ground:** • 82 cm
- Footstep:** • Single footstep

| Item no. | Color | Design | Unit | Price in € |
|----------|-------|---------------------|------|------------|
| 150561 | red | with a metal eyelet | | 69.95 |

Oval steel post ★★★ with a ring insulator

- The eyelets are suitable for:** • 1 polywire up to 3.5 mm and insulators for screwing on and clamps/clip for polywires up to 3.5 mm
- Total height:** • 106 cm
- Height above the ground:** • 80 cm
- Footstep:** • Single footstep

| Item no. | Color | Design | Unit | Price in € |
|----------|-------|-----------------------|------|------------|
| 150551 | red | with a ring insulator | | 63.95 |

Angle steel post ★★

🔗 www.horizont.com/Item No.

- An extremely stable and durable post
- High stability and secure anchoring in the ground through use of an angle profile

Product tip

Particularly suitable for insulators with a metric thread or for clamping/clipping on



158051, p. 194



15293, p. 194

Oval steel post ★★★

🔗 www.horizont.com/Item no.

Product tip

Additional insulators for screwing on are suitable for additional levels



15129, p. 192

- With an insulator
- Made out of torsion-resistant spring steel

p. 194



p. 142

p. 194



p. 142

- The footstep is welded through

- Secure stability due to a pressed on footsteps on the post

155361

15877

152541

150561

150551



Recycling post* ★★

Suitable for: • Insulators for screwing in, screwing on and nailing on
Total height: • 200 cm
Height above the ground: • 140 cm
Diameter: • dia. 8 mm

| Item no. | Color | Unit | Price in € |
|----------|-------|------|--------------|
| 15243 | gray | 1 | 13.99 |

Suitable for: • Insulators for screwing in, screwing on and nailing on
Total height: • 175 cm
Height above the ground: • 120 cm
Diameter: • dia. 6 mm

| Item no. | Color | Unit | Price in € |
|----------|-------|------|-------------|
| 15593 | gray | 1 | 9.99 |

Suitable for: • Insulators for screwing in, screwing on and nailing on
Total height: • 150 cm
Height above the ground: • 100 cm
Diameter: • dia. 4.5 mm

| Item no. | Color | Unit | Price in € |
|----------|-------|------|-------------|
| 15151 | gray | 1 | 5.99 |

Corner/gate posts*

★★ *made out of coniferous wood*

Suitable for: • Insulators for screwing in, screwing on and nailing on
Total height: • 250 cm
Height above the ground: • 150 cm
Diameter: • dia. 14-16 mm

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 14131 | 1 | 39.95 |

Suitable for: • Insulators for screwing in, screwing on and nailing on
Total height: • 200 cm
Height above the ground: • 130 cm
Diameter: • dia. 10-12 mm

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 14130 | 1 | 22.95 |

Recycling Post ★★

🔗 www.horizont.com/Item No.

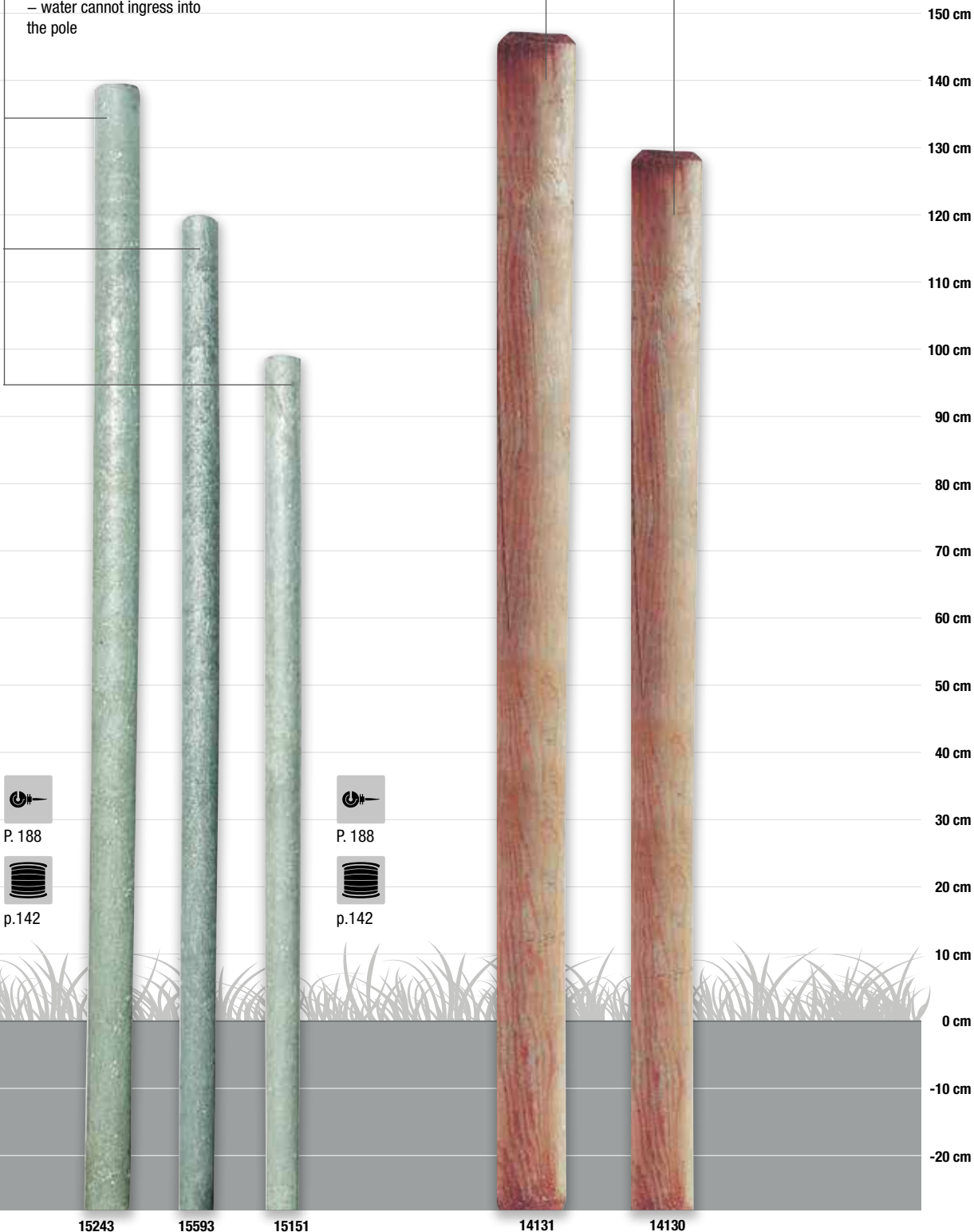
- Working with the usual tool (the pole does not splinter)
- Made out of old plastics – also recyclable again
- Unlimited service life guaranteed
- Individual adaptation of the holes
- Impregnation is not necessary – water cannot ingress into the pole



Corner/gate posts ★★

🔗 www.horizont.com/Item No.

- Particularly weather-resistant due to pressure impregnation
- The head is milled cylindrically – this prevents splinting of the wood when hammering into the ground





T-posts ECO



The T-posts ECO are made out of recycled steel of quality class ST42 and painted. The anchor plate extends over the "nubs", so the posts have a good hold even in soft soils. Various different insulators can be fastened to the T-profile for receiving the desired conductor material. In this way the poles are suitable for wire, rope, polywire and wide tape.

Eyelets suitable for: • Wide tape up to 50 mm, rope up to 6 mm
Weight: • 2.7 kg

| Item no. | Total height | Height above the ground | Unit | Price in € |
|----------|--------------|-------------------------|------|-------------|
| 14550 | 1.50 m | 1.15 m | 1 | 7.99 |
| 14551 | 1.65 m | 1.31 m | 1 | 8.99 |
| 14552* | 1.80 m | 1.46 m | 1 | 9.99 |

Pile-ramming tool with grip

Advantage:

- Allows simple ramming of the T-post into the ground

| Item no. | Unit |
|----------|------|
| 14557 | 1 |

 www.horizont.com/14557



T-Post puller

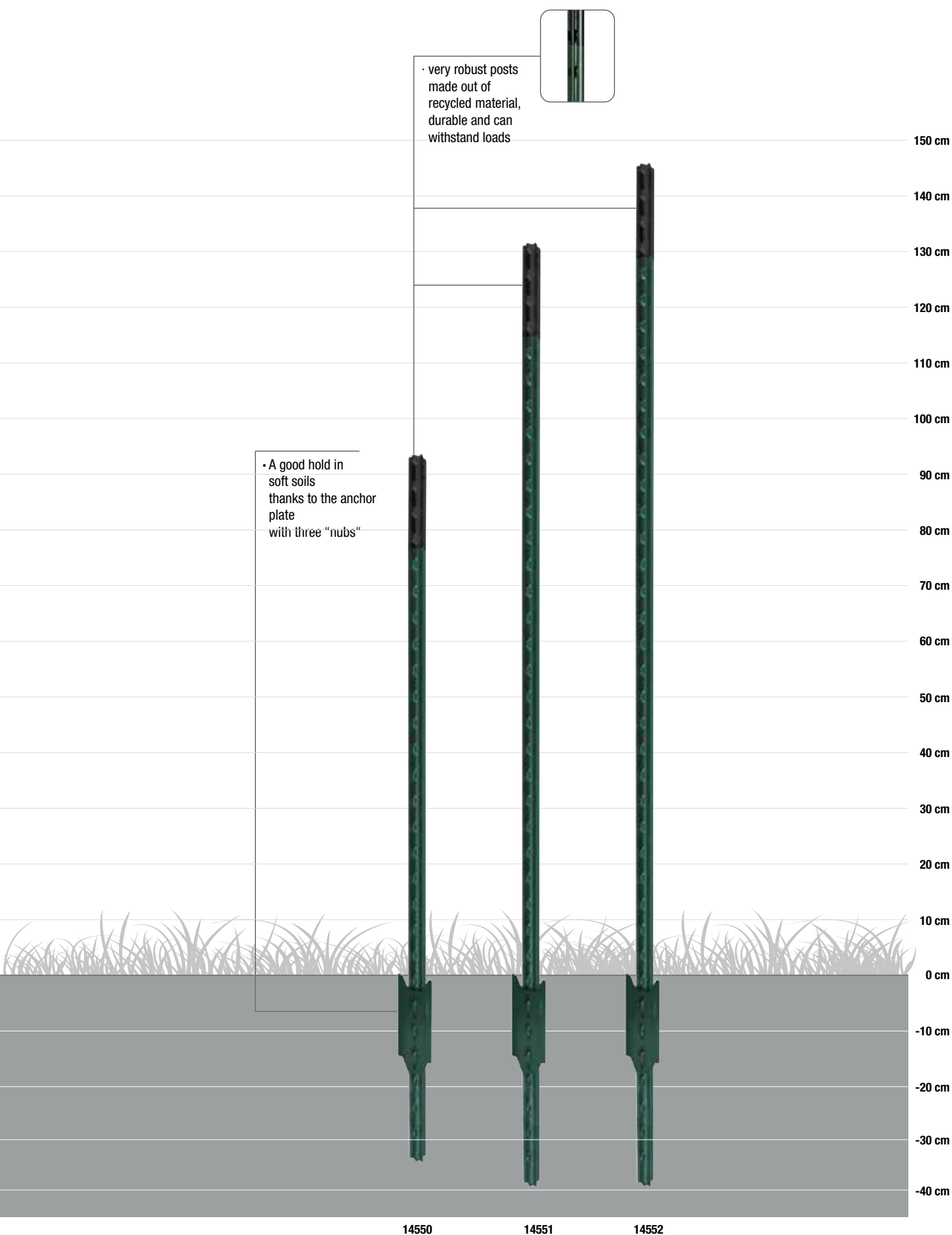
Advantage:

- For simple removal of T-posts
- Can be gripped from the front and the back
- Insulators can remain on posts

| Item no. | Unit |
|----------|------|
| 14558 | 1 |

 www.horizont.com/14558







08 | **INSULATORS**

Adequate herding voltage for operation of a pasture fence is very important. The insulators should have a very high insulation capability in order to insulate the conductor material from the pole and the earth. This prevents any electric current occurring between earth and the fence and therefore the desired herding voltage is only in the fence material.

PRODUCT RANGE

Guide **p. 176**
Interesting facts about insulators

Product guide **p. 178**
The practical overview which allows one to quickly find the suitable insulator

Insulators for wooden and recycling poles **p. 182**
· Tape insulators
· Rope insulators

· Stranded insulators
· Wire insulators
· Screw-in aids
· Fastening material

Insulators for plastic and fibre glass posts **p. 191**
· Tape insulators
· Rope insulators
· Stranded insulators

Insulators for steel posts **p. 194**
· Tape insulators
· Stranded insulators

Insulators for T-posts **p. 196**

Notice

Gate handle insulators can be found in Chapter 9: "Gates" (p. 202).

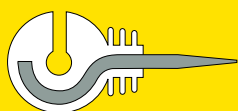


INTERESTING FACTS ABOUT **INSULATORS**

There are innumerable fence variants and there is a suitable insulator for almost every variant. In order to simplify selection of the optimal accessory there are certain criteria which must be observed when selecting an insulator.

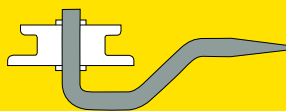
1. Must you use insulators to master a particular fence situation?

Section/guide insulator:



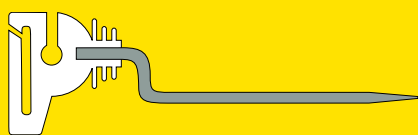
Section or guide insulators always hold the conductor material at an even height. The conductor material is mounted tightly against the fence post and therefore the fence is particularly stable. Furthermore, its low contact surface prevents animals from leaning against or touching the insulators which could possibly bend them.

Corner insulators:



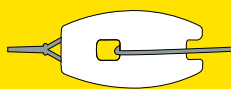
It is recommended to use so-called corner insulators if you wish to build a corner in your fence. These can be screwed onto the inner side of the post. Corner insulators are particularly stable and are usually are with a metal support inside the insulator which takes up the tensile forces from the conductor material. This means, for example, that the fence is stable during strong wind gusts and does not collapse in on itself.

Spacer insulator:



Spacer insulators are fixed less firmly than section/guide insulators since the guide of the conductor material is further away from the screw in point of the insulator. Despite this they guarantee a good herding security. Direct contact of an animal with the fence is prevented by using these insulators. One can, for example, avoid leaning of the animals on the fence posts and thereby achieve a longer service life of the fence. Spacer insulators are also used to protect solid wood fences since the animals do not chew the wood.

Shackle insulator:

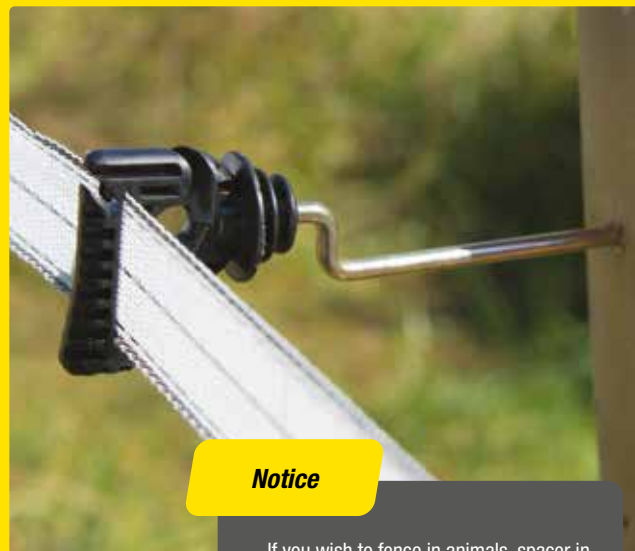


Shackle insulators are used at the beginning and end of fence section or also in corners. They are specially suitable for use of ropes (with a diameter up to 8 mm, p. 136) or for wire (p. 144).

2. What conductor material must the insulator guide?

You have selected the suitable conductor material for your fence according to the fenced in type of animal (p. 14). The horizontal product range includes insulators for tapes, ropes, polywires and wires. There are even insulators which can guide more than one conductor material. There are also combination insulators for special application situations; these allow you to install tape, rope or polywire in just one insulator.

Only use a suitable insulator for your conductor material. Never mount a rope in a ring insulator. Ring insulators are suitable for polywires. There is otherwise the risk of damaging the conductor material and achieving only weak herding security of the fence system.



Notice

If you wish to fence in animals, spacer insulators are attached to the inside on the pasture side. Fasten the insulators on the outside on the opposite side to the pasture side if you wish to repel animals.

3. Should the conductor material run freely in an insulator or it be firmly fixed?

Conductor material is fixed in place at locations where strong winds can occur. You can fix the conductor material in place by closing the insulator or with the aid of a screw. These variants allow firm seating of the conductor material. Insulators with free moving conductor material are used for on stable corner posts or as a section/guide insulator. The advantage is that the conductor material can be tensioned over long stretches since it can move freely in the insulator. When using fixing insulators, the conductor material had to be readjusted at every single insulator.



The tape runs free!



The tape is fixed!

Important icons for this chapter:

Icons describing the product:

These icons describe properties of the insulators.



Conductor material moves freely



Conductor material is fixed



Section/guide insulator



Corner insulator



Length support



Continuous support



Short support



Dia meter of the support



UV stable



Poly carbonate

Cross selling icons:

These icons refer to products which are additionally required and which are compatible with the selected product.



Tape



Rope



Polywire



Wire

4. How is an insulator mounted?

Always select a suitable insulator for your pole.
The product finder helps you to do that (p. 178):



Screwing in:

If insulators need to be fastened to wood, plastics or to stone walls, you should use the insulators for screwing in, screwing on, nailing on or fastening with a staple.

The horizont product range includes special insulators with a unique screw thread for screwing into wooden posts, for example. This special thread prevents tedious splitting open of the wooden post. It spares you the labor-intensive work step of pre-drilling or countersinking. Due to low splitting of the wood – after attaching the insulators – an extremely secure seating can be obtained and the herding security of your pasture is created.



Screws / nails:

If you prefer insulators without a support, the best option is to select insulators for nailing on or for fastening staples or screws. These are best attached to wooden posts.

Insulators with a separate metric thread can both be connected to materials such as wood, plastic or stone - and also quite easily to drillable materials such as metal. In the same way as for insulators for screwing in, firm seating on the post is perfectly possible.



Clamps:

We also offer insulators which can be clamped on, clipped on or plugged in according to the type of post you use. No additional tool is required here to attach the insulator. The insulators can be particularly quickly and simply directly mounted on the post.



Insulators

Insulators for wooden and recycling poles

INSULATORS

| Suitable as | | | | | conductor material | | | | Support |
|-------------------|-------------------------------|-------------------|-------------------|--------------------------------------|--------------------|-----------|---------------|-----------|---------|
| Section insulator | Starting/ corner insulator | Spacing insulator | Shackle insulator | Replacement/ additional insulator | Tape (mm) | Rope (mm) | Polywire (mm) | Wire (mm) | Short |
| • | • | | | | 40 | | | | |
| • | • | | | | 40 | | | | |
| | • | | | | 40 | | | | |
| • | | • | | | 40 | 8 | 4 | | • |
| • | • | | | | 40 | 8 | 4 | | • |
| • | | • | | | 20 | 8 | 4 | | • |
| • | | | | | 40 | 8 | | | |
| • | | • | | | 20 | | 4 | | • |
| • | | | | | 40 | | | | |
| • | | | | | 40 | | 4 | | |
| • | • | | | | 40 | 8 | 4 | | |
| | • | | | | | 8 | 4 | | |
| • | • | | | | | 8 | 4 | 2.5 | • |
| • | | • | | | | 8 | 4 | | • |
| • | | • | | | | 8 | 4 | | |
| • | | | | | | | 2 | | |
| • | • | | | | 13 | | 4 | | |
| • | | | | | 13 | | 4 | | • |
| • | | • | • | | 13 | | 4 | | • |
| • | | | | | | | 3 | | |
| • | • | | | | 13 | | 4 | | |
| • | • | | | | 13 | | 4 | | |
| • | • | | | | 13 | | 4 | | • |
| • | | • | • | | 13 | | 4 | | • |
| • | • | | | | 13 | | 4 | | |
| • | • | | | | | 7 | 4 | 2.5 | |
| • | • | | | | | | 4 | 2.5 | |



for wooden and recycling poles

| Support | Usage | | Product | | |
|------------|-------|--------------|--|---|--------|
| | Fixed | Free running | Designation | Item No. | Page |
| Continuous | • | | Tape insulator ★★ corner 40 fix | 14163C | 182 cm |
| | | • | Tape insulator ★★ corner 40 | 15297 | 182 cm |
| | • | | Tape insulator ★★ corner 40 plus | 15299 | 182 cm |
| | | • | Tape insulator ★★ ★combi 40 | 15828C | 182 cm |
| | | • | Tape insulator ★★ ★combi 40 | 15390C, 15390EI | 183 cm |
| | | • | Tape insulator ★★★ ranger® 20 | 15186 | 183 cm |
| | • | | Tape insulator ★★★ ranger® 40 fix | 14990, 14490C, 14490EI | 183 cm |
| | | • | Tape insulator ★★★ ranger® 20 | 15555-25, 15555C | 183 cm |
| | • | | Tape insulator ★★★ ranger® 40 | 14161C, 14162C, 14161EI | 184 cm |
| | | • | Tape insulator ★★★ ranger® 40 | 15460C | 184 cm |
| | • | | Tape insulator ★★★ turbomax® plus | 15843C, 15837C | 184 cm |
| | | • | Rope insulator ★★ farmer® corner plus | 10012C | 185 cm |
| | | • | Rope insulator ★★★ turbomax® | 15835C | 185 cm |
| | | • | Rope insulator ★★★ turbomax® metric | 15073C | 185 cm |
| | | • | Rope insulator ★ flexibar 400 - one side | 15318 | 185 cm |
| | • | | Nail insulator ★★ farmer® | 153021 | 186 cm |
| • | | • | Ring insulator ★★ farmer® plus | 15364 | 186 cm |
| | | • | Ring insulator★★ farmer® | 15275-25, 15275C, 15275EI, 15275GE, 14957EI | 186 cm |
| | | • | Ring insulator★★ farmer® | 14937 | 186 cm |
| • | • | • | Slit insulator ★★ farmer® | 15278, 15276 | 187 |
| • | • | • | Slit insulator ★★★ ranger® plus pc | 15485 | 187 |
| • | | • | Ring insulator ★★★ranger® plus pc | 15370, 15370C, 15370-50, 15370EI, 15370EI-240, 15370HG, 15370LI | 187 |
| | | • | Ring insulator ★★★ ranger® | 15461, 15461-50, 15461EI | 188 |
| | | • | Ring insulator ★★★ ranger® | 15595 | 188 |
| • | | • | Ring insulator ★★★ ranger® plus pc | 15341C | 188 |
| | | • | Wire insulator ★★★ ranger® | 15929-10, 15929EI | 189 |
| | | • | Pin-lock insulator | 14933-50 | 189 |

Notice

You will find a product guide for plastic, fiberglass and steel poles on the next pages.

i





INSULATORS

| Suitable as a | | | | | conductor material | | | | Support |
|-------------------|-------------------------------|------------------|-------------------|--------------------------------------|--------------------|-----------|---------------|-----------|---------|
| Section insulator | Starting/ corner insulator | Spacer insulator | Shackle insulator | Replacement/ additional insulator | Tape (mm) | Rope (mm) | Polywire (mm) | Wire (mm) | Short |
| • | | | | • | 13 | 6 | 4 | | |
| • | | | | • | 40 | | 4 | | |
| • | | | | • | 12 | | 4 | | |
| • | | | | | 40 | 8 | 4 | | |
| • | | | | • | | 6 | 4 | | |
| • | | | | • | | | 4 | 2.5 | |
| • | | | | • | | | 4 | 2.5 | |
| • | | | | | | | 2 | | |
| • | | | | • | 13 | | 4 | | |
| • | | | | • | 13 | 8 | 4 | | |
| • | | | | • | 13 | 8 | 4 | | |

| Suitable as a | | | | | conductor material | | | | Support |
|-------------------|-------------------------------|------------------|-------------------|--------------------------------------|--------------------|-----------|---------------|-----------|---------|
| Section insulator | Starting/ corner insulator | Spacer insulator | Shackle insulator | Replacement/ additional insulator | Tape (mm) | Rope (mm) | Polywire (mm) | Wire (mm) | Short |
| • | | | | • | | | 4 | | |
| • | | • | | | | | 4 | | |
| • | | | | • | | | 4 | | |
| • | | | | • | | | 4 | | |
| • | | | | • | | | 4 | | |
| • | | | | • | | | 4 | | |

| Suitable as a | | | | | conductor material | | | | Support |
|-------------------|-------------------------------|------------------|-------------------|--------------------------------------|--------------------|-----------|---------------|-----------|---------|
| Section insulator | Starting/ corner insulator | Spacer insulator | Shackle insulator | Replacement/ additional insulator | Tape (mm) | Rope (mm) | Polywire (mm) | Wire (mm) | Short |
| • | | | | | 50 | 6 | | | |
| • | | | | | 50 | 6 | | | |
| • | | | | | 50 | 6 | | | |
| • | | | | | 50 | | | | |
| • | • | | | | 50 | 6 | | | |
| • | • | | • | | 50 | 6 | | | |
| • | • | | • | | 50 | 6 | | | |
| • | | | | | | 6 | | | |
| | • | | • | | 50 | | | | |



for olastic and fibre glass posts

| Support | Usage | | Product | | |
|------------|-------|--------------|---|-------------------|------|
| | Fixed | Free running | Designation | Item No. | Page |
| Continuous | | • | Replacement/additional insulator ★★ combi ip-15 | 15290, 15290EI | 191 |
| | • | | Replacement/additional insulator ★★ farmer® 40 | 14969-25 | 191 |
| | | • | Replacement/additional insulator ★★ farmer® ip-19 | 15474C | 191 |
| | | • | Replacement/additional insulator ★★★ long life | 15481 | 191 |
| | | • | Replacement/additional insulator ★★ farmer ip-15 | 15129 | 192 |
| | | • | Replacement/additional insulator ★★ clip master | 14903-100 | 192 |
| | | • | Replacement/additional insulator ★★ clip master | 14904C, 14904-100 | 192 |
| | | • | Head insulator ★ | 14922 | 192 |
| | | • | Replacement/additional insulator ★★ farmer® fibre | 14046C, 14046EI | 193 |
| | | • | Replacement/additional insulator ★★★ long life | 15480 | 193 |
| | | • | Replacement/additional insulator ★★★ long life | 17801F, 17804F | 193 |

for steel poles (round, oval and angle steel)

| Support | Usage | | Product | | |
|------------|-------|--------------|---|---------------|------|
| | Fixed | Free running | Designation | Item No. | Page |
| Continuous | | • | Replacement/additional insulator ★★ farmer® plastic | 15054-50 | 194 |
| | | • | Ring insulator, metric Thread ★★★ ranger® metric | 14167 | 194 |
| | | • | Cotter pin insulator ★★ farmer® splint | 158052 | 194 |
| | | • | Ring insulator, metric ★★ Farmer® metric | 15293, 152931 | 194 |
| | | • | Replacement/additional insulator ★★ farmer® clip | 150511 | 195 |
| | | • | Replacement/additional insulator ★★ farmer® plastic | 15053-50 | 195 |

for T-posts

| Support | Usage | | Product | | |
|------------|-------|--------------|-------------------------------|----------|------|
| | Fixed | Free running | Designation | Item No. | Page |
| Continuous | | • | Top insulator | 14559 | 196 |
| | | • | Rope insulator | 14561 | 196 |
| | | • | Ring insulator | 14567 | 196 |
| | | • | Wide tape insulator Eco | 14563 | 196 |
| | | • | Start insulator | 14578 | 197 |
| | | • | Shackle insulator (2 eyelets) | 14580 | 197 |
| | | • | Shackle insulator (3 eyelets) | 14582 | 197 |
| | | • | Rope corner hooks | 14586 | 197 |
| | | • | Corner/shackle insulator | 14584 | 197 |



Insulators

For wooden and recycling poles / tape insulators



www.horizont.com/14163C



40 mm

Tape insulator ★★ corner 40 fix

- Suitable as:** • Section insulator, start/corner insulator
- Conductor material:** • Tape up to 40 mm
- Fastening:** • Nailing onto or screwing onto wooden or recycled posts with at least two 5 mm screws
- Advantage:** • Tape tensioner and anti-rotation protection
• Conductor material cannot fall out of the insulator, even in an untensioned state
- Usage:** • Fixed

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14163C | 2 | 11.99 |



www.horizont.com/15297



40 mm

Tape insulator ★★ corner 40

- Suitable as:** • Section insulator, start/corner insulator
- Conductor material:** • Tape up to 40 mm
- Fastening:** • Nailing onto or screwing onto wooden or recycled posts with at least two 5 mm screws
- Advantage:** • Conductor material cannot fall out of the insulator, even in an untensioned state
- Usage:** • Free running
- Material:** • Galvanized
- Scope of delivery:** • Screws

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15297 | 5 | 9.99 |



www.horizont.com/15299



40 mm

Tape insulator ★★★ corner 40 plus

- Suitable as:** • Start/corner insulator
- Conductor material:** • Tape up to 40 mm
- Fastening:** • Nailing onto or screwing onto wooden or recycled posts with at least two 5 mm screws
- Advantage:** • Conductor material cannot fall out of the insulator, even in an untensioned state
• Slight retensioning is possible
- Usage:** • Fixed
- Scope of delivery:** • screws
• Bracket

| Item no. | Material | Unit | Price in € |
|----------|------------|------|------------|
| 15299 | galvanized | 5 | 13.99 |



www.horizont.com/15828C



120 mm 6 mm 40 mm 4 mm 8 mm




Tape insulator ★★★ combi 40

- Suitable as:** • Section insulator, spacer insulator
- Conductor material:** • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm
- Fastening:** • Screwing into wooden or recycled posts
- Advantage:** • A large dry space = high insulation
- Usage:** • Free running
- Support:** • Short, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15828C | 10 | 14.99 |

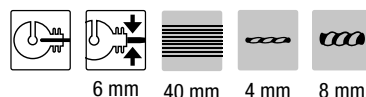
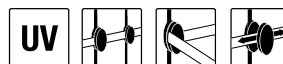
Tape insulator ★★★ combi 40

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • A large dry space = high insulation
Usage: • Free running
Support: • Short, dia. 6 mm

| Item no. | Color | Unit | Price in € |
|----------|-------|--|------------|
| 15682 | black |  30 | 15.99 |
| 15390C | black |  25 | 14.99 |
| 15390EI | black |  80 | 40.95 |




www.horizont.com/Item No.



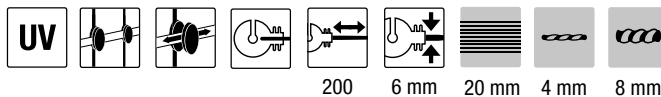
Tape insulator ★★★ ranger® 20

- Suitable as:** • Section insulator, spacer insulator
Conductor material: • Tape up to 20 mm, polywire up to 4 mm, rope up to 8 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • Due to the lateral ground position, the tape can also not fall out of the insulator, for guidance over mountains and valleys
Usage: • Free running
Support: • Short, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|--|------------|
| 15186 |  10 | 13.99 |






www.horizont.com/15186



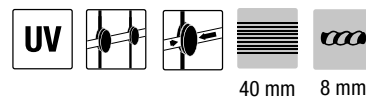
Tape insulator ★★★ ranger® 40 fix

- Suitable as:** • Section insulator
Conductor material: • Tape up to 40 mm, rope up to 8 mm
Fastening: • Nailing or screwing into wooden or recycled posts
Advantage: • The closure pad on the tape is strongly interlocking which ensures a good hold
Usage: • Fixed

| Item no. | Unit | Price in € |
|----------|--|------------|
| 14990 |  25 | 9.99 |
| 14990C |  20 | 9.99 |
| 14990EI |  80 | 27.95 |





www.horizont.com/Item No.



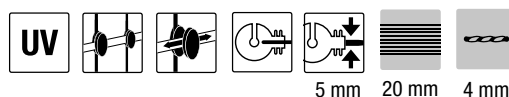
Tape insulator ★★★ ranger® 20

- Suitable as:** • Section insulator, spacer insulator
Conductor material: • Tape up to 20 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • Closure pad creates a strong hold
Usage: • Free running
Support: • Short, dia. 5 mm

| Item no. | Unit | Price in € |
|----------|--|------------|
| 15555-25 |  25 | 9.99 |
| 15555C |  25 | 9.99 |



www.horizont.com/Item No.

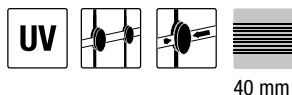


Insulators

Insulators For wooden and recycling poles / Tape insulators



www.horizont.com/Item No.



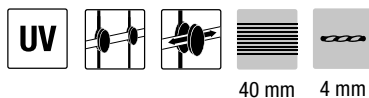
Tape insulator ★★★ ranger® 40

- Suitable as:** • Section insulator
Conductor material: • Tape up to 40 mm
Fastening: • Nailing onto or screwing onto wooden or recycled posts with at least two 5 mm screws
Usage: • Fixed
Scope of delivery: • Plastic screws

| Item no. | Design | Unit | Price in € |
|----------|-------------------------|------|------------|
| 14161C | without a rubber insert | 8 | 13.99 |
| 14161EI | without a rubber insert | 30 | 43.95 |
| 14162C | with a rubber insert | 8 | 18.99 |



www.horizont.com/Item No.



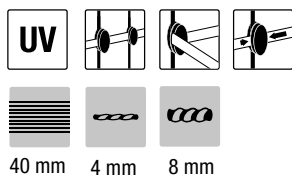
Tape insulator ★★★ ranger® 40

- Suitable as:** • Section insulator
Conductor material: • Tape up to 40 mm, polywire up to 4 mm
Fastening: • Nailing onto or screwing onto wooden or recycled posts with at least two 5 mm screws
Advantage: • The opposing clamps prevent falling out of the tape, also on hilly terrain
Usage: • Free running

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15460C | 20 | 9.99 |



www.horizont.com/Item No.



Tape insulator ★★★ turbomax® plus

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm
Fastening: • Nailing onto or screwing onto wooden or recycled posts with at least two 5 mm screws
Usage: • Fixed

| Item no. | Design | Unit | Price in € |
|----------|--|------|------------|
| 15843C | with a connecting plate usable as a gate handle insulator | 1 | 8.99 |
| 15837C | without a connecting plate | 4 | 15.99 |

Our highlight

This design is unique on the market and offers many advantages. The insulator can be opened and closed very easily. The screw is stably fastened swivelable to the insulator so that assembly is child's play. Even a gate handle can be attached to the stainless metal connecting plate. Also fence branches are easy to create. Come and see for yourself our universal insulator!

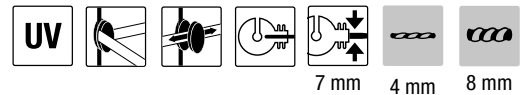
Rope insulator ★★ farmer® corner plus

- Suitable as:** • Start/corner insulator
Conductor material: • Polywire up to 4 mm, rope up to 8 mm
Fastening: • Screwing into wooden or recycled posts
Usage: • Free running
Support: • Short, dia. 7 mm

| Item no. | Design | Unit | Price in € |
|----------|---------------------------|------|------------|
| 10012C | with a wide support below | 5 | 9.99 |



www.horizont.com/10012C



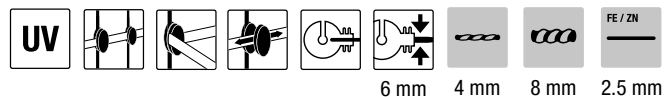
Rope insulator ★★★ turbomax®

- Suitable as:** • Section insulatorstart/corner insulator
Conductor material: • Polywire up to 4 mm, rope up to 8 mm, wire up to 2.5 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • An ergonomic form for optimal handling
Usage: • Free running
Support: • Short, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15835C | 18 | 11.99 |



www.horizont.com/15835C



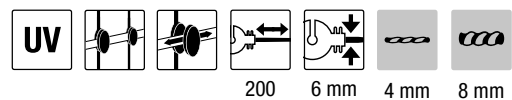
Rope insulator ★★★ turbomax® metric

- Suitable as:** • Section insulator, spacer insulator
Conductor material: • Polywire up to 4 mm, rope up to 8 mm
Fastening: • Screwing on through holes into metal posts, for example
Advantage: • A large dry space = high insulation
Usage: • Free running
Support: • With a metric M6 thread, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15073C | 8 | 18.99 |



www.horizont.com/15073C



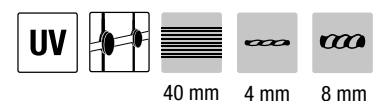
Rope insulator ★ flexibar 400 - one side

- Suitable as:** • Section insulator, spacer insulator, shackle insulator
Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm
Spacing: • The distance to the posts is 40 cm
Material: • Extruded plastic, therefore extremely durable

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15318 | 10 | 27.95 |



www.horizont.com/15318

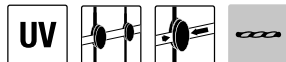


Insulators

Insulators for wooden and recycling poles / Stranded insulators



www.horizont.com/153021



2 mm

Notice

Only use head and nail insulator in connection with 9 V energisers

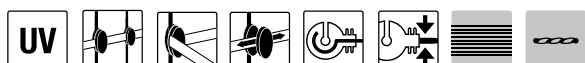
Nail insulator ★★ farmer®

- Suitable as:** • Section insulator
Conductor material: • Polywire up to 2 mm
Fastening: • Nailing to wooden or recycled posts
Advantage: • Ideal for shorter fences with a low voltage, since only low insulation to the post is present
Usage: • Fixed
Scope of delivery: • Nails

| Item no. | Unit | Price in € |
|----------|------|------------|
| 153021 | 50 | 9.99 |



www.horizont.com/15364



5.3 mm 13 mm 4 mm

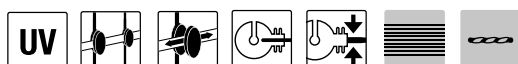
Ring insulator ★★ farmer®plus

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Usage: • Free running
Support: • Continuous, dia. 5.3 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15364 | 50 | 14.99 |



www.horizont.com/Item No.



5.3 mm 13 mm 4 mm

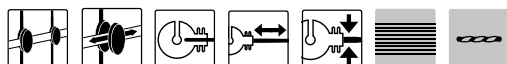
Ring insulator ★★ farmer®

- Suitable as:** • Section insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Usage: • Free running
Support: • Short, dia. 5.3 mm

| Item no. | Color | Unit | Price in € |
|----------|--|------|------------|
| 15275-25 | black | 25 | 5.99 |
| 15275C | black | 25 | 6.99 |
| 15275EI | black | 20 | 25.95 |
| 15275GE | yellow | 50 | 11.99 |
| 14957EI | SET of "farmer box": 97 ring insulators 15275, two gate handles 15817SW, one screw-in aid 15357 | | 100 25.95 |



www.horizont.com/14937



200 6 mm 13 mm 4 mm

Ring insulator ★★ farmer®

- Suitable as:** • Spacer insulator, shackle insulator, section insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Usage: • Free running
Support: • Short, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14937 | 10 | 10.99 |

Slit insulator ★★ farmer®

- Suitable as:** • Section insulator
Conductor material: • Polywire up to 3 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • Cross reinforced dry space
Usage: • Free running or fixed
Support: • Continuous, dia. 5 mm

| Item no. | Color | Unit | Price in € |
|----------|--------|--|--------------|
| 15278 | black |  50 | 10.99 |
| 15276 | yellow |  50 | 11.99 |



 www.horizont.com/Item No.








5 mm

3 mm

Ring insulator ★★★ ranger® plus

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • A large dry space = high insulation
 • Very high dielectric strength
Usage: • Free running
Support: • Continuous, dia. 6 mm

| Item no. | Color | Unit | Price in € |
|-------------|-------|---|--------------|
| 15370 | black |  25 | 7.99 |
| 15370C | black |  25 | 8.99 |
| 15370-50 | black |  50 | 14.99 |
| 15370EI | black |  120 | 34.95 |
| 15370EI-240 | black |  240 | 69.95 |



 www.horizont.com/Item No.



6 mm

13 mm

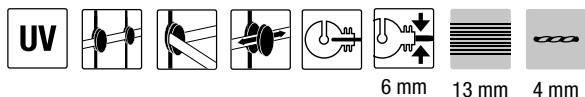
4 mm

Insulators

Insulators for wooden and recycling poles / Stranded insulators



www.horizont.com/Item No.



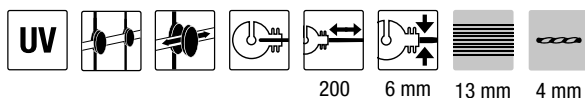
Ring insulator ★★★ ranger®

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • A large dry space = high insulation
Usage: • Free running
Support: • Short, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15461 | 25 | 6.99 |
| 15461-50 | 50 | 13.99 |
| 15461EI | 120 | 31.95 |



www.horizont.com/15595



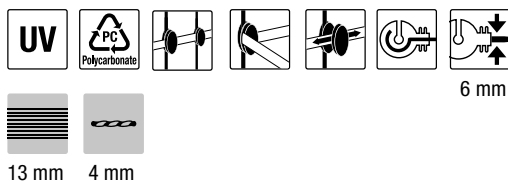
Ring insulator ★★★ ranger®

- Suitable as:** • Section insulator, spacer insulator, shackle insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • A large dry space = high insulation
 • Due to the lateral ground position, the tape can also not fall out of the insulator, for guidance over mountains and valleys
Usage: • Free running
Support: • Short, dia. 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15595 | 10 | 11.99 |



www.horizont.com/15341C



Ring insulator ★★★ ranger® plus pc

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Fastening: • Screwing into wooden or recycled posts
Advantage: • A large dry space = high insulation
 • Extremely breakage resistant
Usage: • Free running
Support: • Continuous, dia. 6 mm
Material: • Insulation body made out of polycarbonate

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15341C | 25 | 15.99 |

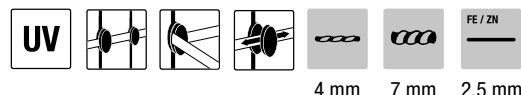
Wire insulator ★★★ ranger®

- Suitable as:** • Section insulator, start/corner insulator
Conductor material: • Polywire up to 4 mm, rope up to 7 mm, wire up to 2.5 mm
Fastening: • Nailing onto or screwing onto wooden or recycled posts
Usage: • Free running

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 15929-10 | | 5.99 |
| 15929EI | | 21.95 |



[www.horizont.com/item no.](http://www.horizont.com/item-no)



Pin-lock insulator

- Suitable as:** • Section insulator
Conductor material: • Polywire up to 4 mm, rope up to 7 mm, wire up to 2.5 mm
Fastening: • Nailing onto or screwing onto wooden or recycled posts
Usage: • Free running

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 14933-50 | | 20.95 |



www.horizont.com/14933-50





15935



15935WS

www.horizont.com/Item No.

Insulating hose ★

- Conductor material:**
- 15935: Wire (p. 144)
 - 15935WS: Rope (p. 136)
- Usage:**
- Insulation of wire on wooden posts for an electrified fence
- Length:**
- 25 cm
- Material:**
- Plastic


| Item no. | Diameter | Unit | Price in € |
|----------|--------------------------------------|------|--------------|
| 15935 | Inside 5 mm dia., outside 10 mm dia. | 1 | 35.95 |
| 15935WS | Inside 5 mm dia., outside 10 mm dia. | 1 | 31.95 |



www.horizont.com/15909

Special staples ★

- Suitable for:**
- Plastic hoses (15935, 15935SW, p. 190)
- Usage:**
- For fastening a plastic insulating hose to posts


| Item no. | Unit | Price in € |
|----------|--|-------------|
| 15909 |  50 | 4.99 |



www.horizont.com/15357C

Screw-in aid ★

- Suitable for:**
- Ring insulators with a wall thickness of up to 16 mm
- Usage:**
- Slight screwing in of insulators with the aid of a cordless screwdriver


| Item no. | Unit | Price in € |
|----------|---|-------------|
| 15357C |  1 | 7.99 |



www.horizont.com/14088C

Screw-in aid ★

- Suitable for:**
- Tape and rope insulators
- Usage:**
- Slight screwing in of insulators with the aid of a cordless screwdriver


| Item no. | Unit | Price in € |
|----------|---|-------------|
| 14088C |  1 | 7.99 |



www.horizont.com/Item No.

Screw-in aid ★★

- Suitable for:**
- Ring insulators, rope insulator corner metric (14166C, S.174), gate handle insulators
- Usage:**
- Slight screwing in of insulators with the aid of a cordless screwdriver

| Item no. | Unit | Price in € |
|----------|---|-------------|
| 14965C |  1 | 8.99 |

Replacement/additional insulator ★★ combi ip-15

- Suitable as:** • Section insulator
Suitable for: • Posts up to 15 mm dia.
Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 6 mm
Usage: • Free running
Note: • The insulator is locked at the post exit



www.horizont.com/Item No.



13 mm 4 mm 6 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15290 | | 10.99 |
| 15290C | | 12.99 |
| 15290EI | | 20.95 |

Replacement/additional insulator ★★ farmer® 40

- Suitable as:** • Section insulator
Suitable for: • Round posts up to 12 mm dia.
Conductor material: • Tape up to 40 mm, polywire up to 4 mm
Usage: • Fixed
Note: • The insulator is closed at the post exit



www.horizont.com/14969-25



40 mm 4 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14969-25 | | 15.99 |

Replacement/additional insulator ★★ farmer® ip-19

- Suitable as:** • Section insulator
Suitable for: • Posts up to 7-19 mm dia.
Conductor material: • Tape up to 12 mm, polywire up to 4 mm
Usage: • Free running
Note: • The insulator is opened at the post exit



www.horizont.com/15474C



12 mm 4 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15474C | | 5.99 |

Replacement/additional insulator ★★★ long life

- Suitable as:** • Section insulator
Suitable for: • long life plastic poles (15375, 15376, 15377, p.162)
Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm
Usage: • Free running



www.horizont.com/15481



40 mm 4 mm 8 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15481 | | 12.99 |

Insulators

Insulators for plastic and fibre glass posts/ Rope and stranded insulators



www.horizont.com/Item No.



4 mm



8 mm

Replacement/additional insulator

★★ farmer® ip-15

- Suitable as:** • Section insulator
Suitable for: • Posts up to 15 mm dia.
Conductor material: • Polywire up to 4 mm, rope up to 6 mm
Usage: • Free running
Note: • The insulator is closed at the post exit

| Item no. | Unit | Price in € |
|----------|------|--------------|
| 15129 | | 5.99 |
| 15129C | | 13.99 |
| 15129EI | | 29.95 |



www.horizont.com/Item No.



4 mm 2.5 mm

Replacement/additional insulator

★★ clip master

- Suitable as:** • Section insulator
Suitable for: • Round posts up to 12 mm dia. (14885-14888, p. 166)
Conductor material: • Polywire up to 4 mm, wire up to 2.5 mm
Usage: • Free running

| Item no. | Unit | Price in € |
|-----------|------|--------------|
| 14903-100 | | 42.95 |



www.horizont.com/Item No.



4 mm 2.5 mm

Replacement/additional insulator

★★ clip master

- Suitable as:** • Section insulator
Suitable for: • Round posts up to 10 mm dia. 14885, 14887, 14888, p. 166)
Conductor material: • Polywire up to 4 mm, wire up to 2.5 mm
Usage: • Free running

| Item no. | Unit | Price in € |
|-----------|------|--------------|
| 14904C | | 10.99 |
| 14904-100 | | 42.95 |



www.horizont.com/14922



2 mm



Head insulator ★

- Suitable as:** • Section insulator
Suitable for: • Fiberglass posts up to 12 mm dia. (14886 p. 166)
Conductor material: • Polywire up to 2 mm

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 14922 | | 9.99 |

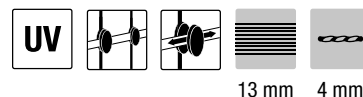
Replacement/additional insulator ★★ farmer® fiber

- Suitable as:** • Section insulator
Suitable for: • Posts up to 12 mm dia. (14886 p. 166)
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Usage: • Free running

| Item no. | Unit | Price in € |
|----------|---|--------------|
| 14046C |  | 9.99 |
| 14046EI |  | 19.99 |




www.horizont.com/Item No.



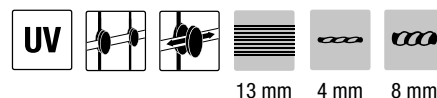
Replacement/additional insulator ★★★ long life

- Suitable as:** • Section insulator
Suitable for: • Posts up to 19 mm dia. (15375-15377, p.162)
Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 8 mm
Usage: • Free running

| Item no. | Unit | Price in € |
|----------|--|--------------|
| 15480 |  | 12.99 |



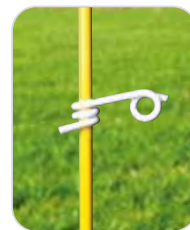
www.horizont.com/15480



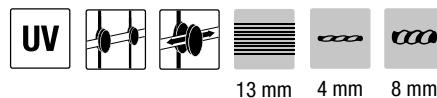
Replacement/additional insulator ★★★ long life

- Suitable as:** • Section insulator
Suitable for: • 17801F: (14886, p. 166)
• 17804F: (14885, 14887, 14888, p. 166)
Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 8 mm
Usage: • Free running

| Item no. | Post diameter | Unit | Price in € |
|----------|---------------|---|--------------|
| 17801F | 12 mm dia. |  | 20.95 |
| 17804F | 10 mm dia. |  | 20.95 |



www.horizont.com/Item No.

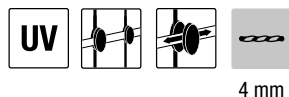


Insulators

Insulators for steel posts | Stranded insulators



www.horizont.com/15054-50



4 mm

Replacement/additional insulator

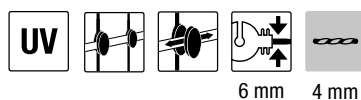
★★ farmer® plastic

- Suitable as:** • Section insulator
Suitable for: • Oval steel posts (150561, p. 168)
Conductor material: • Polywire up to 4 mm
Usage: • Free running
Material: • Metal eyelet

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15054-50 | 50 | 24.95 |



www.horizont.com/14167



6 mm

4 mm

Ring insulator with a metric thread

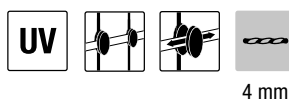
★★★ ranger® metric

- Suitable as:** • Section insulator
Suitable for: • Angle steel posts up to 2-3 mm dia. (155361, 15877, 152541, p. 168)
Conductor material: • Polywire up to 4 mm
Usage: • Free running
Support: • With a metric M6 thread, thread length 80 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14167 | 25 | 21.95 |



www.horizont.com/158051



4 mm

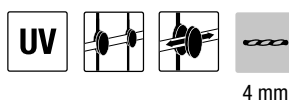
Cotter pin insulator ★★ farmer® splint

- Suitable as:** • Section insulator
Suitable for: • Angle steel posts up to 2-3 mm dia. (155361, p. 168, (15877, p. 168), (152541, p. 168)
Conductor material: • Polywire up to 4 mm
Usage: • Free running

| Item no. | Unit | Price in € |
|----------|------|------------|
| 158052 | 50 | 10.99 |



www.horizont.com/Item No.



4 mm

Metric ring insulator ★★ farmer® metric

- Suitable as:** • Section insulator
Suitable for: • Angle steel posts up to 2-3 mm dia. (155361, 15877, 152541, p. 168)
Conductor material: • Polywire up to 4 mm
Usage: • Free running
Support: • With a metric M6 thread, thread length 30 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15293 | 25 | 14.99 |
| 152931 | 25 | 13.99 |



i



A ==
B ==
C ==

Replacement/additional insulator ★★ farmer® clip

- Suitable as:** • Section insulator
Suitable for: • Round and oval steel posts up to 8 mm dia. (150551, 150561, p. 168)
Conductor material: • Polywire up to 4 mm
Usage: • Free running



www.horizont.com/150511



4 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 150511 | 25 | 18.99 |

Replacement/additional insulator ★★ farmer® plastic

- Suitable as:** • Section insulator
Suitable for: • Oval steel posts (150551, p. 168)
Conductor material: • Polywire up to 4 mm
Usage: • Free running
Material: • Plastic ring



www.horizont.com/15053-50

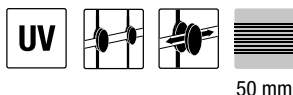


4 mm

| Item no. | Unit | Price in € |
|----------|------|------------|
| 15053-50 | 50 | 19.99 |



www.horizont.com/14559



50 mm

Top insulator

- Suitable as:** • Section insulator
Suitable for: • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Wide tape up to 50 mm, rope up to 6 mm, wire up to 2.5 mm
Fastening: • Rapid assembly through putting on

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14559 | 10 | 10.99 |



www.horizont.com/14561



6 mm

6 mm

6 mm

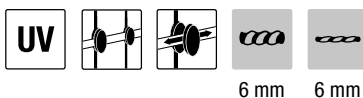
Rope insulator

- Suitable for:** • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Rope, polywire and wire up to 6 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14561 | 25 | 11.99 |



www.horizont.com/14567



6 mm

6 mm

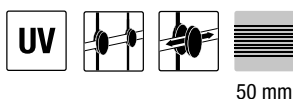
Ring insulator

- Suitable for:** • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Rope and polywire up to 6 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14567 | 25 | 10.99 |



www.horizont.com/14563



50 mm

Wide tape insulator Eco

- Suitable for:** • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Wide tape up to 50 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|------------|
| 14563 | 25 | 11.99 |

Start insulator

- Suitable as:** • Start/corner insulator
Suitable for: • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Rope up to 6 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 14578 | 1 | 2.99 |



www.horizont.com/14578



6 mm

Shackle insulator

- Suitable as:** • Start/shackle/corner insulator
Suitable for: • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Rope up to 6 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 14580 | 1 | 3.99 |
| 14582 | 1 | 5.99 |



14580



14582

www.horizont.com/Item No.



6 mm

Rope corner hooks

- Suitable as:** • Corner insulator
Suitable for: • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Rope up to 6 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 14586 | 1 | 5.99 |



www.horizont.com/14586



6 mm

Corner/shackle insulator

- Suitable as:** • Start/shackle/corner insulator
Suitable for: • T-posts ECO (14550, 14551, 14552, p.172)
Conductor material: • Wide tape up to 50 mm
Fastening: • Rapid assembly through clipping on

| Item no. | Unit | Price in € |
|----------|------|-------------|
| 14584 | 1 | 8.99 |



www.horizont.com/14584



50 mm



09 | GATES

The gate system is an important component of a fence. Above all out in the country, gates for passing through into the pasture fence system are necessary. Since a gate usually has to be opened once or twice a day, it is subjected to very high wear. No current flows when the gate is opened. Therefore additional underground bridging is recommended.

PRODUCT RANGE

Gate handles *p. 200*

Gate handle insulators *p. 202*

Gate handle sets *p. 203*

Pasture gates *S. 204*



www.horizont.com/Item no.



Gate handle with hooks ★ trapper®

Spring-deflection limitation: • 5 cm
Material: • Plastic
Color: • black

| Item No. | Unit | Price in € |
|----------|------|------------|
| 141722SW | 1 | 2.19 |



www.horizont.com/Item No.



Gate handle with hooks ★★ farmer®

Spring-deflection limitation: • 3 cm
Material: • Plastic
Fastening: • Eyelets for conductor material on the hand grip

| Item No. | Color | Unit | Price in € |
|-----------|-------------|------|------------|
| 15817SW | black | 1 | 2.99 |
| 15817SW-5 | black | 5 | 10.99 |
| 158170R | orange | 1 | 2.99 |
| 158170R-5 | orange | 5 | 10.99 |
| 15817GE | yellow | 1 | 2.99 |
| 15817LI | lilac | 1 | 2.99 |
| 15817HG | light green | 1 | 2.99 |
| 15817TU | turquoise | 1 | 2.99 |



www.horizont.com/14080SW



Gate handle with eyelets ★★ farmer®

Spring-deflection limitation: • 3 cm
Advantage: • A low risk of injury since the eyelet cannot tear into the hand, unlike hooks
Material: • Plastic
Fastening: • Eyelets for conductor material on the hand grip
Color: • black

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14080SW | 1 | 2.99 |



www.horizont.com/15295



Gate handle with hooks ★★★ ranger®

Spring-deflection limitation: • None
Advantage: • Safe handling due to the extra wide flange
Material: • Plastic
Fastening: • Eyelets for conductor material on the hand grip
Color: • black

| Item No. | Unit | Price in € |
|----------|------|------------|
| 15295 | 1 | 4.49 |



Gate handle with hooks ★★★ ranger®

Spring-deflection limitation:

Advantage:

Material:

Fastening:

Color:

- 5 cm
- Reinforced insulation, therefore suitable for use with powerful devices
- Rotatable compression spring made out of stainless steel
- Polycarbonate
- Eyelets for conductor material on the hand grip
- Dark gray transparent



✓ www.horizont.com/14350



| Item No. | Unit | Price in € |
|----------|------|------------|
| 14350 | 1 | 5.99 |

Gate handle with hooks and tape connector ★★★ ranger®

Spring-deflection limitation:

Advantage:

Material:

Color:

- None
- A tape up to 40 mm wide can be attached directly to a gate using the attached tape connector and ensures optimal door opening
- The tape can simply be re-tensioned
- Safe handling due to the extra wide flange
- Plastic
- black



✓ www.horizont.com/156031



| Item No. | Unit | Price in € |
|----------|------|------------|
| 156031 | 1 | 5.99 |

Gate handle with hooks and tape connector ★★★ turbomax®

Spring-deflection limitation:

Advantage:

Material:

Color:

- 8 cm
- A tape up to 40 mm wide can be attached directly to a gate using the attached tape connector and ensures optimal door opening
- The tape can simply be re-tensioned
- Plastic
- black



✓ www.horizont.com/151391GNV



| Item No. | Unit | Price in € |
|-----------|------|------------|
| 151391GNV | 1 | 5.99 |

Gate handle with hooks ★★★ turbomax®

Spring-deflection limitation:

Advantage:

Material:

Fastening:

Color:

- 8 cm
- Extremely durable and a compressible compression spring
- Polycarbonate
- Eyelets for conductor material on the hand grip
- Yellow, transparent



✓ www.horizont.com/15445E



| Item No. | Unit | Price in € |
|----------|------|------------|
| 15445E | 1 | 5.99 |



www.horizont.com/15139E



Gate handle with hooks ★★★ *turbomax®*

- Spring-deflection limitation:** • 8 cm
Advantage: • Extremely durable and a compressible compression spring
Material: • Polycarbonate
Fastening: • Eyelets for conductor material on the hand grip
Color: • black

| Item No. | Unit | Price in € |
|----------|------|------------|
| 15139E | 1 | 4.99 |

Notice

For gates the current should always not pass over the door handle and the conductor material in the gate. Particularly when one is in a hurry, it is convenient to leave the door handle on the ground and not immediately hook it on again. In this case the current is diverted over the ground and the herding voltage in the fence drops. There is the risk that your animal can break out. Bridge the gate with a parallel routed underground cable (p. 94).



www.horizont.com/Item No.



Gate handle insulator ★★ *with wooden thread*

- Suitable for:** • All gate handles with hooks or eyelets
Conductor material: • Rope, polywire, wire
Material: • Plastic, galvanized iron
Usage: • For screwing into wooden and recycling posts
Color: • black
Support: • Insulator support with a thread for wood

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14092C | 2 | 3.99 |
| 14175 | 10 | 21.95 |
| 15126C | 5 | 8.99 |



www.horizont.com/14169C



Gate handle insulator *with a metric thread* ★★

- Suitable for:** • All gate handles with hooks or eyelets
Conductor material: • Rope, polywire, wire
Material: • Plastic, galvanized iron
Usage: • For screwing into through holes of metal posts, for example
Color: • black
Support: • With a metric M6 thread
Thread length: • 30 mm

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14169C | 5 | 9.99 |



www.horizont.com/14866-10



Gate handle insulator *protected against torsion* ★★

- Suitable for:** • All gate handles with hooks or eyelets
Conductor material: • Rope, polywire, wire
Material: • Plastic, galvanized iron
Usage: • For screwing into wooden and recycling posts
Advantage: • No turning away of the eyelets when hanging in the gate
Color: • black
Support: • Insulator support with a thread for wood

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14866-10 | 10 | 17.99 |

Gate handle insulator with a wooden thread and thimble ★★

- Suitable for:** • All gate handles with hooks or eyelets
Conductor material: • Rope, polywire, wire
Material: • Plastic, galvanized iron
Usage: • For screwing into wooden and recycling posts
Advantage: • Using a thimble the conductor material can be securely attached, undamaged
Color: • black
Support: • Insulator support with a thread for wood



www.horizont.com/14170C

| Item No. | Unit | Price in € |
|----------|------|------------|
| 14170C | | 5.99 |



Gate handle insulator with a metal plate ★★★

- Suitable for:** • All gate handles with hooks
Conductor material: • Wire up to 2.5 mm
Usage: • For screwing onto or nailing into wooden and recycling posts
Advantage: • Wire connection screws (Item No 15526C, p.148) can be placed on the metal plate. In this way a connection can be made to other fence wires
Color: • black
Scope of delivery: • Metal plate
Material: • Plastic with screws



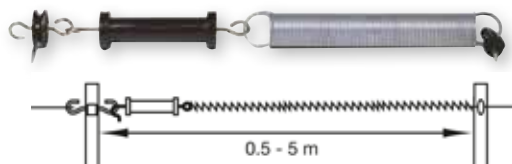
www.horizont.com/15307C

| Item No. | Unit | Price in € |
|----------|------|------------|
| 15307C | | 5.99 |



Gate handle set with a spring ★★

- Usage:** • Particularly suitable for smooth opening and closing of gates by electrically conductive tension springs
Scope of delivery: • 1 turbomax gate handle with hooks
 • 1 gate handle insulator
 • 1 ring insulator
 • A galvanized tension spring, thick



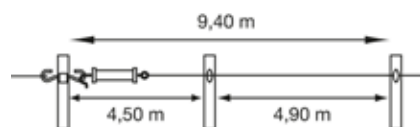
www.horizont.com/Item No.

| Item No. | Design | Unit | Price in € |
|----------|--|------|------------|
| 15416 | Set | | 8.99 |
| 15416C | Set | | 9.99 |
| 15487 | Individual tension spring, galvanized, thick | 1 | 5.99 |



Gate handle set with a rope ★★

- Usage:** • Particularly suitable for smooth opening and closing of gates, without contact with the ground, by electrically conductive rope
Scope of delivery: • 1 turbomax gate handle with hooks
 • 1 rope: 4.50 m long (untensioned), 9.4 m long (untensioned)
 • 1 gate handle insulator
 • 1 ring insulator



www.horizont.com/15316C

| Item No. | Unit | Price in € |
|----------|------|------------|
| 15316C | | 25.95 |



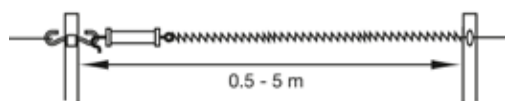
9.40 m 4.5 m

Recommendation

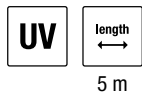
These gate handle sets serve to allow optimal use in keeping cattle.

Gates

Gate handle sets and pasture gates



www.horizont.com/Item No.



length
5 m

Gate handle set with thin springs ★★

- Usage:**
- Particularly suitable for smooth opening and closing of gates by electrically conductive tension springs
- Scope of delivery:**
- 1 turbomax farmer
 - 1 galvanized tension spring, thick

| Item No. | Unit | Price in € |
|----------|------|--------------|
| 15291 | | 7.99 |
| 15291C | | 12.99 |



www.horizont.com/Item No.



1.1 m

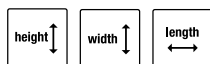
Pasture gate, adjustable ★★

- Advantage:**
- A flexible pasture gate, extendable respectively by about 1 m
- Material:**
- Galvanized
- Pipe diameter:**
- 1 1/4" inside
- Pipe spacing:**
- 2.3 cm
- Notice:**
- Price incl. fittings
 - Delivery ex Works. Please ask us about freight costs

| Item No. | Length | Unit | Price in € |
|----------|----------------|------|---------------|
| 54091 | 1.05 m - 1.7 m | 1 | 169.00 |
| 54092 | 2.05 m - 3.0 m | 1 | 199.00 |
| 54093 | 3.05 m - 4.0 m | 1 | 219.00 |
| 54094 | 4.05 m - 5.0 m | 1 | 279.00 |
| 54095 | 5.05 m - 6.0 m | 1 | 299.00 |



www.horizont.com/54096



2 m 80 mm 80 mm

Quadratic pipe posts ★★

- Suitable for:**
- An adjustable fence gate
- Usage:**
- For fastening the adjustable fittings and the locking latch
- Design:**
- With pre-drilled holes
- Notice:**
- Delivery ex Works. Please ask us about freight costs

| Item No. | Unit | Price in € |
|----------|------|--------------|
| 54096 | 1 | 79.95 |



Expert Choice

It is particularly important on a gate to install a ground cable running parallel to it. In this way the fence will still be electrified over the ground cable when the gate is opened. In this way the energy in the fence is not diverted to earth when the gate is opened and therefore also the herding security is not compromised. Experts recommend use of horizont underground cables to do this (p. 94). Exact instructions for assembling a gate can be found at:

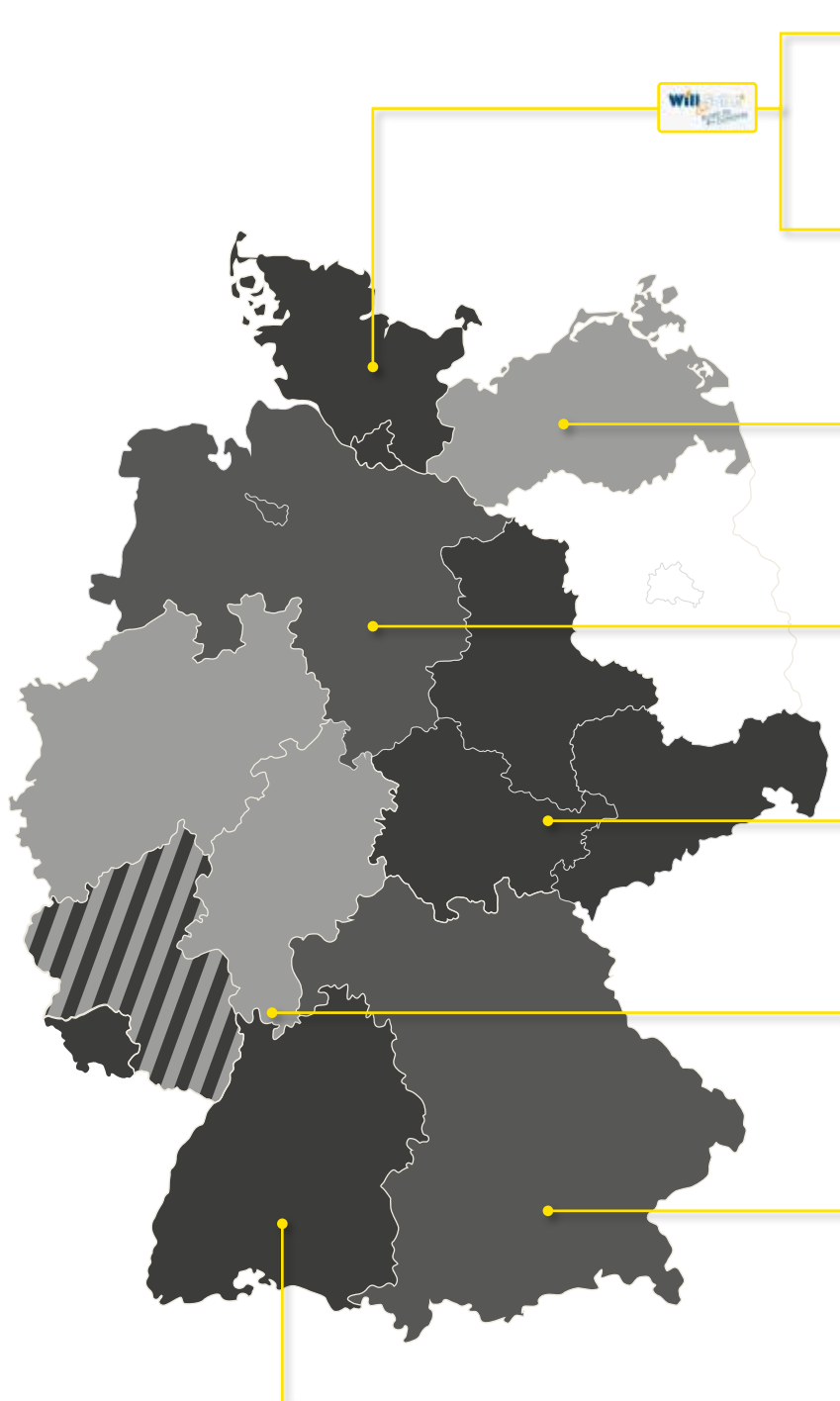
 www.horizont.com/torbau



15321



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Consultancy

Do you have any questions on the topic: a pasture fence? Contact us. Our competent employees are happy to advise you personally.

📧 www.horizont.com/Beratung



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Our repair service is reliable, competent and quick. Any defective device can be repaired by our team in Korbach without any complications. We are happy to provide you with a loaned unit while repairs are being made.

📧 www.horizont.com/Reparatur



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Discover our website and find further articles, highlights, actions, films, tips and much more. We look forward to hearing from you!

📧 www.horizont.com



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Apart from our range of products for a pasture fence, we also offer catalogs on the segments animal husbandry and equestrian sport. Simply request the catalogs online from us or browse through our digital flip catalogs.

📧 www.horizont.com/Katalog



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Our newsletter always keeps you up-to-date on the latest, whether it is discounts, actions or current highlights. Register free of charge and keep informed!

📧 www.horizont.com/newsletter

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