

75 years of horizont

Our success story: From a one-man workshop to a Europe-wide corporate group.

Page 4

Wolf defence

Specially developed wolf netting: Recommended by German sheep breeding associations.

Page 115

himps app

24-hour control and security for the pasture fence with the practical horizont himps app.

Page 58

In 4 steps to your perfect pasture fence energiser

1. Which energy supply is preferred?

horizont distinguishes between power supply units (N), rechargeable battery units (A), battery units (B), and solar units (S). Many devices also combine different types of power supply in order to offer more safety and flexibility in the application. In addition, horizont offers different housing shapes, which are reflected in the operating mode. The main difference is in stationary housing forms for wall mounting and mobile housing forms for handy transport. For an overview, see p. 28.



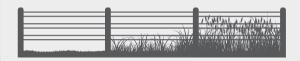






2. How large is the area to be fenced?

The pasture fence length is important for the choice of the right fence energiser, but so is the conductor material. The power of the pasture fence energiser and the conductivity of the conductor material must be compatible! In order to simplify the choice of suitable products for you, horizont has grouped together matching products in series. You will find an overview on p. 26. Please note that the length specifications always assume optimal conditions, any disruptions and growth are excluded. With vegetation, for example, a partial amount of energy is diverted from the fence into the ground and is then missing from the herding power.



3. Which animals are to be herded?

Each animal has special characteristics and reacts differently to the current pulse. The sensitivity or coat of the animals is important for the correct construction of the electric fence. Horizont has developed special pulse shapes for different situations to ensure herding safety for every animal species and every fence situation. Animal symbols make it easy to identify for which species a device is recommended:



4. Which additional functions do horizont devices offer?

Each device has individual features and additional functions that are advantageous depending on the application. Some are found in the housing shape, others are technically incorporated.

You will find these on the product pages under "Special Features" or discover more in our practical overview on page 26 or under the following link:



www.horizont.com/wzgfeatures

horizont awards



Best Choice:

Excellent products which have a special efficiency



Expert Choice:

Users recommend these products for certain applications as they have had very good experience with these horizont products



Wolf Control:

Excellent products, which are particularly well suited for wolf defence

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horizont – 75 -year success story

HISTORY

The success story of horizont began in 1945 as a one-man workshop. Livestock owners brought pasture fence energisers to Dr. Heinz Müller for repair. He discovered that some of these were potentially life-threatening and used this as an opportunity to develop his own pasture fence energisers - for the benefit of people and animals.

Over the decades horizont has developed into one of the most important producers of electric fencing products worldwide and stands for numerous innovations and patents in this sector. Today, horizont has grown continuously as an own-

er-managed company - over three generations - and offers thousands of articles in the electric fencing and livestock farming sectors.

Today horizont is a corporate group with locations in several European countries and exports products with the "Made in Germany" seal of quality to over 50 countries worldwide.

And in the future horizont will continue to stand for the values "Tradition & Continuity", "Innovation & Quality" and "Service & Advice", making it a competent and reliable partner for livestock owners worldwide.



1945 Establishment



> 500 Employees worldwide



6 Locations worldwide



Patents & utility models



> 40,000 sqn Production &

Tradition & Continuity



Innovation & Quality



1945 - The foundation

Company foundation by the electrical engineer Dr. Heinz Müller.

1974 – The 2nd generation

Dipl. Ing. Robert Müller assumes management.

2009 - The 3rd generation

MBA Steffen Müller now in the 3rd generation in the management

to date - Tradition & Continuity

The family-owned company horizont has been in existence for nearly 75 years and has developed from a one-man business into a Europe-wide corporate group.

Social responsibility and responsible action have always been practised values at horizont.

1950 – 1st battery-powered pasture fence energiser

horizont develops the first battery-powered pasture fence energiser, thus laying the foundation for a new era in location-independent pasture management.

1979 – Solarmatic

horizont develops the first environmental friendly, solar-powered pasture fence energiser, thus launching a further technical innovation on the market.





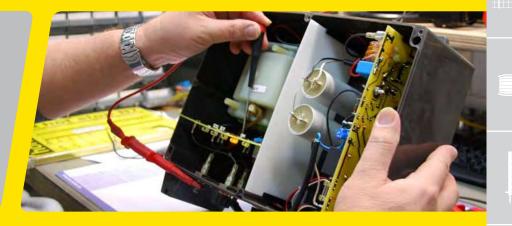
Did you know?

Where does the name 'horizont' come from?

Every pilot knows what this is: The artificial horizon in the aircraft cockpit. The development team of the current technical standard at that time also included the electrical engineer Dr. Heinz Müller. When Dr. Müller later sought a new field of activity and founded his own company in 1945, he called it "horizont" in memory of this invention.

Service & Advice





2019 – himps

horizont has developed a practical smartphone app for monitoring the performance of the pasture fence energiser and fence condition with many useful features such as a digital pasture fence diary.

to date - Innovation & Quality

Through consistent research and development of new technologies and applications, we have been continuously creating new products which set standards in their respective markets for nearly 75 years now. This is reflected in the more than 50 patents, utility models and trademarks.

to date - Service

Service plays a key role at horizont. Regardless of whether you need a contact or training appointments specifically for dealers, experts are on hand to provide you with advice and support in every area.

Support is provided by the horizont in-house service and by one of our sales representatives.

to date – Repair

Another big advantage is our own repair department. The service department handles every defect of your device and, if requested, will loan you a device for the duration of the repair.

PASTURE FENCES FAQ

Those of you with little experience of electric fences will obviously have several questions. At first glance it does not seem easy to choose the right device and suitable accessories.

We will help you to answer the most important questions.



What are the basic principles that you must observe?

· The first goal of fence building:

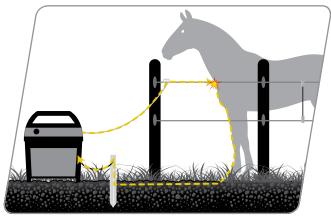
To prepare the electric circuit in such a way that it is closed upon contact with the animal!

Then

To make sure that the current stays in the fence and only comes into action when touched by an animal.

What does the fence energiser do?

- The device emits short pulses of current that flow along the pasture fence and remain unused if there is no animal contact or discharge.
- The pulse duration is only 0.1 to 0.3 thousandths of a second and the pulse spacing is between 1.15 and 2.0 seconds.



What is earthing?

- Earthing is the "counterpart to the freely run conductor material" in the fence.
- The energy emitted by the device is fed back into the device through the ground and the earth stakes. When the fence is touched, the circuit is closed via the earthing

What happens when the animal touches the fence?

- The animal closes the circuit. The pulse emitted by the electric fence device flows through the conductor material, the animal's body, the ground and the earth stakes back into the electric fence device. Similar 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.

What have Joules & Volts got to do with it?

- Energy applied to the fence is expressed in joules. The higher the value, the stronger the electric shock. Joules hurt!
- The voltage of the fence is measured in volts. The voltage is needed to strike through the insulating hide of the animal. This is the only way the energy can jump over. Voltage is the carrier for what causes the pain!

Why pay attention to good conductor material?

- The conductive material is the actual fence, i.e. tapes, ropes, polywires or wires.
- The conductor material transports the electricity and forms the barrier for the animals. The more conductive the material, the more current flows through the fance.
- To save on conductor material means to save at the wrong end. Bad conductor material may result in a lot of energy being lost and no more electricity arriving at the end of the fence.
- Note:

Never tie a knot in your conductor material! Too much energy will be lost. Always use suitable connectors to quarantee the current flow.

Is long grass at the fence a bad thing?

- Yes, because grass or other vegetation diverts energy from the fence and the fence therefore loses energy.
- For vegetation, reduce the fence lengths as follows:

For average vegetation:

To approx. 50 % of the specified fence length*

For heavy vegetation:

To approx 20 % of the specified fence length*

*Specifications for single and multi-wire fences

How far apart should the posts be?

The following distances have been proven for optimum fastening of the conductor material between the posts:

· Polywires and wires:

6 m to 8 m (depending on the net weight)

· Tapes:

 $3\ m$ (for wide tape 40 mm), $5\ m$ (for wide tape 20 mm) , $6\ m$ to $8\ m$ (for wide tape 10 mm)

· Electric cable:

4 m (for diameter 6 - 8 mm), 6 m (for diameter 5 - 6 mm)

· Terrain:

Please observe local conditions! If the terrain is very uneven, several posts will be necessary to guide the conductor material parallel to the ground.

What else needs to be considered?

· Important:

Never operate fence systems and netting without a pasture fence energiser!

· Conductivity:

Pay particular attention to high impulse energies on conductor material with high conductivity and good earthing.

· Connectors:

Never knot your conductor material - always use suitable connectors to guarantee the electricity flow (p. 148-150).

Warning signs:

For safety reasons you are legally obliged to attach these clearly visible and printed on both sides (p. 101) to your electric fence.

Circuit:

The fence does not have to be set up as a closed circuit - the circuit is closed by the animal contact.

· Daily check with fence testers:

Our 2nd generation "SMARTfencing" GPS devices make checking the electric fence much easier (p. 98-100).

Fence monitoring 24/7 with himps

The new horizont himps app allows comprehensive monitoring of your pasture fence and guarantees the safety of your animals on the pasture. The innovative app notifies you when the fence voltage changes and automatically documents the fence status regardless of where you are.



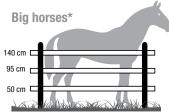




Fence and netting heights

OUR RECOMMENDATION

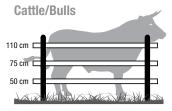
Livestock farming



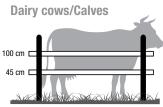
Fence height: 140 - 160 cm Conductor material: Tape Number of conductors: 3



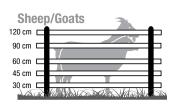
Fence height: 120 - 140 cm Conductor material: Tape Number of conductors: 3



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

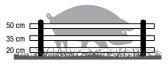


Fence height: 85 - 110 cm Conductor material: Tape, rope, polywire, wire Number of conductors: 2



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



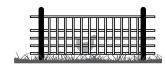
Fence height: 50 cm Conductor material: Tape, rope, polywire, wire Number of conductors: 4

Sheep/Goats

Net height:

90 - 45 cm

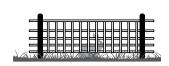
Poultry



Net height:

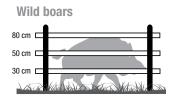
105 cm

Hares/Rabbits



Net height: 50 - 75 cm

Wild animal defence



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

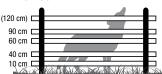
Fence height: 140 cm Conductor material: Tape, rope, polywire, wire Number of conductors: 5

Wolves

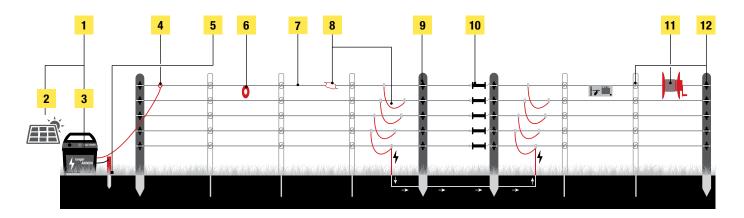


Net height: 90 - 120 cm

Wolves



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



Which equipment is necessary for a stationary or mobile fence?

V		What?	Page	Why?
	1	Pasture fence energiser	22 - 67	The device transmits pulses to the fence. These pulses provide the deterrent of the animal at the pasture fence.
	2	Solar solutions	80 - 87	Use the energy of the sun for 9 V battery devices and 12 V rechargeable battery units. Save battery costs and tiresome recharging of the battery.
	3	Energy supply	75 - 82	The right energy source for your pasture fence energiser: Rechargeable battery, battery, netting, solar, or even a combination is possible.
	4	Connection material lightning protection, switches	68 – 87	Makes the electrical connection from the device to the fence. Lightning protection systems are a must for power supply units.
	5	Earthing	88 - 97	The energy flows from the ground through the earth stake and the connecting cable back into the pasture fence energiser.
	6	Control units Fence accessories, warning signs	98 - 100	Control units are necessary for informative fence inspection – they make it easier to check the legally required fence function test.
	7	Conductor material Tapes, polywires, ropes, wires	124 – 147	Conducts the electrical pulse in the fence. The conductor is uninsulated and run open so that it can make a good contact with the animal.
	8	Connecting and tensioning	148 - 151	The conductor material can be connected firmly and electrically conductive with connectors. The right tensioners ensure taut conductors to avoid injuries to the animals.
	9	Insulators	174 – 197	Hold the conductor material well insulated in position. The right insulator should suit the conductor material.
	10	Gate handles and sets	198 – 206	A gate is normally used several times a day and should be easy to use.
	11	Reels	152 - 153	A mobile fence or mobile sections can be set up and dismantled quickly and easily with a reel.
	12	Posts	154 - 173	Plastic or metal posts with insulators hold and guide the conductor material along the field and to the ground. We recommend strong wooden posts for gates and corners.





www.horizont.com/portable.fencing



www.horizont.com/permanent.fencing



The suitable assortment for

HORSE KEEPING



Tanja Menge – Regional Manager Bavaria at horizont

As regional manager, Tanja is in charge of managing the Bavarian region with passion and dedication. In addition to her expert theoretical knowledge of electric fencing, Tanja is of course also proficient in practice. When it comes to fence construction, she always lends a hand herself and is happy to answer any questions her customers may have about construction and product selection. Tanja is also an active member of horizont's nationwide working group on horse operations, where she is the contact for horse owners and operations managers in the area of pasture fences and herding safety.

Tanja and George – a perfect team

Horses have also been an important part of Tanja's private life since early child-hood. Tanja fulfilled her dream of owning her own horse 16 years ago and the quarter gelding George has been a permanent and beloved member of the family ever since

His well-being is very important to Tanja and so George lives together with 25 other horses in an active stable and enjoys the species-appropriate herd life on spacious fields while Tanja is out and about for horizont in matters of pasture fences and herding safety.

Tanja and George prefer to spend their time together on long rides in their homeland - the beautiful Chiemgau region. Having spent 16 years together, there is a great familiarity between the two and they understand each other almost blindly. George has a keen sense of Tanja's moods and immediately cheers her up with his little antics, if necessary. On the other hand, Tanja knows her George inside out and can immediately recognise his different moods and respond to him accordingly.

The perfect team, then!



Tanja's product choice for shorter pastures up to 3 km:

The appropriate pasture fence energiser:



★★ *farmer® AS50*14485

Pasture fence in properly with 40 mm pasture fence wide tape:



★★★ *ranger® T40 - W*17115

Appropriate fence posts keep the conductor material at the right height:



★★★ turbomax® SMART Post 14492

Fence control from anywhere simply via mobile phone:



★★ LUDA FenceAlarm 34544





Product highlights for

HORSE KEEPING



Stable with paddock and additional large pasture

For this situation horizont recommends the following products:

The ranger® AN490 pasture fence energiser is a dual device that you can operate via a mains connection. In the event of a power failure, operation of the device is guaranteed by a connectable 12 V battery. The two fence connections of the unit allow your paddock to operate at low power and the large pasture at high voltage. An additional lightning protection choke is useful, which protects the high-quality pasture fence energiser from possible damage caused by a lightning strike and the resulting excessive voltage. With the aid of the ranger® fence tester, the fence

voltage can be checked via a digital display. To guarantee herding safety, horizont advises daily checks Experience has shown that the long life post, made of high-quality special plastic, is particularly durable, stable and frost-proof and thus optimally suited to your pasture situation.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.

Some of the most important products for optimal herding safety:





★★ Lightning protection choke 15482



ranger® fence tester 14496 ★★★
Plastic post
long life
15376



Small pasture without 230 V mains connection

For small outdoor pastures without 230 V mains connection and without vegetation around the fence, horizont recommends the following products:

The trapper® B22 pasture fence energiser is a small portable battery-powered device that can be optionally upgraded with a matching 2 watt solar panel. The 9 V alkaline batteries are particularly suitable for operating the pasture fence energiser, as they guarantee a constant voltage curve. Thanks to the practical solar kit, you can also operate the pasture fence energiser with solar energy. The solar panel is simply pushed onto the recessed grip of the trapper® B22 - without the need for any other mounting

accessories. With the colourful horizont gate handles you can add colour to any pasture fence passage.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.

Some of the most important products for optimal herding safety:



trapper® B22 10620



★★★
turbomax®
9 V alkaline battery
15848E





★★★

Gate handle

15817TU/LI/HG/OR

Medium pasture without 230 V mains connection

If you keep your horses in a medium sized pasture with 230 V mains connection, horizont suggests the following products:

The farmer® AN300 pasture fence energiser is an allround device for pasture management. It is ideal for normal operating conditions and is even equipped with a dual function. A 20 Watt solar panel can be retrofitted to this pasture fence energiser as an option. The matching 12 V super fleece rechargeable battery is maintenance-free, location-independent and rechargeable, making it ideal for your pasture situation. The galvanized transport box with practical handle protects the battery and the pasture fence

energiser from the weather. The turbomax® T40 electric fencing tape is optimally suited for fencing large pastures due to its special conductor material and the associated low inherent resistance. In addition, it is extremely weather-resistant and therefore also suited for your pasture in winter.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.



Some of the most important products for optimal herding safety:





12 V Super fleece rechargeable battery





turbomax® T40

Mobile fencing for trail or tournament riders

Are you a trail or tournament rider and use a mobile fence on your journey? Then horizont suggests the following product choice:

The trapper® B2 pasture fence energiser has two optional energy supplies: 6 V or 12 V. The practical on/ off switch enables constant pulse control. To make your fencing practical and mobile we recommend the use of a reel. This is ideally suited for fast winding and unwinding of the conductor material used. With the farmer® T40 pasture fencing tape, you always achieve sufficient herding security even when out and about. With the help of the practical and stable plastic posts, your mobile fence can be erected and dismantled quickly and easily.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.



Some of the most important products for optimal herding safety:

To complete your individual fence system, please contact the horizont Service

Team +49 (5631 / 565 - 100). Or use the practical pasture fence checklist (p. 9).



trapper® B2 14497



*** Reel Super Roller 500 15289



farmer® T40 - G 17458



turbomax® Plastic post







The suitable assortment for

CATTLE FARMING



Bernd Hempelmann - Farmer in North Hessen

Bernd now runs his parents' farm with great commitment and passion. A farmer at heart and soul around the clock. Successful and sustainable agriculture for him means the willingness to constantly break new ground; he recently presented his new milking robot to horizont. He puts his heart into farming: tirelessly, passionately and always on the cutting edge.

Dairy farmer with passion

The passionate dairy farmer has known his dairy cows and agricultural work from a very early age. Bernd cares for his animals - for him every new animal in his herd is like a stroke of luck and he enjoys watching the development of every single calf.

Animal welfare is the top priority for farmer Bernd. During the summer months, an automatic pasture gate allows his cows to graze freely 24 hours a day according to their needs. Most of his young animals are also in the pasture all day.

Next to his strong love for animals, as a farmer he also needs sufficient computer and technical knowledge to operate a milking robot, for example. His herd is milked via an automatic milking system, which means that the cows themselves decide when they want to be milked, which also gives Bernd more latitude.

Bernd is proud of his healthy and happy cows, who give very good quality milk. In return, Bernd – like most other farmers – likes to work on weekends and holidays. Because his work is also his passion: agriculture!



Bernd's product choice for cattle farming:

The appropriate pasture fence energiser:



*** *turbomax® N1430*10748

Pasture fence in properly with Electric fencing rope:



★★★
turbomax® braided rope D3
14512

Build gates with the appropriate accessories:



★★

Gate handle set with rope

15316C

Appropriate fence posts keep the conductor material at the right height:



Pigtail steel post 141791





Product highlights for

CATTLE FARMING



Large pasture area with 230 V mains connection

For the herding of cattle and young animals on large pastures horizont recommends a pasture fence with two to three levels of turbomax® W12 pasture fence polywire. To maintain the height of the conductor material used, you should use the longlife plastic post. The height of the insulators to be attached on this post can be freely chosen.

The pasture area used should be energized by the powerful turbomax® AN800 pasture fence energiser. This pasture fence energiser enables a so-called dual operation. This allows you to use the mains power to operate the device and, in the event of a power failure, the connected 12 V special battery is

automatically used. The pasture fence energiser also works with two power levels - the first level uses the reduced power, the second level is switched on when the pasture fence needs more power. The output energy then increases automatically. In the event of unexpected disturbances in the fence, the safety of the herd is nevertheless ensured.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.

Some of the most important products for optimal herding safety:



turbomax® AN800



★★★
12 V special
rechargeable battery
100 Ah
14126



******* *turbomax® W12* 17142

★★★

Plastic post

longlife

15375



Small pasture area

If you herd your cattle on a small area of pasture, horizont recommends ensuring the herding voltage via the practical turbomax® B27 pasture fence battery device. Thanks to the practical solar kit 2 watt, you can also operate the pasture fence energiser with solar energy. It is simply pushed sideways onto the handle of the pasture fence energiser - without the need for any other mounting accessories. The turbo function integrated in the pasture fence energiser allows trouble-free operation and ensures a suitable power supply - even under difficult conditions. If there is a malfunction at the fence, the output voltage is automatically increased, energy consumption does not increase significantly and

herding safety is maintained. To make the fence clearly visible to humans and animals, you can use the 12 mm wide ranger® T12 - W pasture fencing tape as the top level. The white/yellow colour of the pasture fencing tape provides more contrast to the surroundings and better visibility at dusk and in the dark. horizont recommends the use of the plastic post turbomax® to keep your conductor material at height

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.

Some of the most important products for optimal herding safety:



turbomax® B27 10285



ran 171

ranger® T12 - W 17113



Medium-size pasture area without 230 V mains connection

Medium-sized pastures without a 230 V mains connection are best connected to a pasture fence energiser with a power economiser. horizont recommends using the ranger® AN2000. The output energy can be adjusted to the corresponding pasture size using the potentiometer on the pasture fence energiser. You can also upgrade the pasture fence energiser with a solar panel with a capacity of 30 watts and use solar energy for power supply to your pasture. This solar panel can easily be mounted by screwing it to the handle of the ranger® AN2000. In this way, the energy consumed daily can be provided in an environmentally friendly way. horizont recommends fencing in your cattle with the red-white

pasture fence polywire hot-shock® W9 - R. Due to the low resistance, it is possible to build long fences. Your colour choice also makes it highly visible to people and animals in the pasture. The plastic post turbomax® keeps this pasture fence polywire at an optimum height. The many different eyelets allow the individual height of the conductor material to be freely selected.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.



Some of the most important products for optimal herding safety:



ranger® AN2000 10854



Solar module 30 watt 14539



hotshock® W9 - R 17204



Strip grazing with permanent external fencing

If you change your strip grazing daily, the pasture fencing material used should be handy, practical and robust. The farmer® AS50 solar-powered pasture fence energiser can be moved as often as required thanks to its practical carrying handle. It also uses environmentally friendly and sustainable solar energy to generate electricity.

For strip grazing, horizont recommends winding and unwinding the pasture fence rope - turbomax® braided rope D3 - using the MAXI ROLLER 4000 reel. The practical carrier for this reel makes work and transport easier. The use of the stable pigtail steel post supports the easy and frequent erecting and

dismantling of the strip grazing. The conductor material runs freely in the upper eyelets of the post and can therefore be rolled up and unrolled as often as required.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.



Some of the most important products for optimal herding safety:



farmer® AS50 14485

To complete your individual fence system, please contact the horizont Service

Team +49 (5631 / 565 - 100). Or use the practical pasture fence checklist (p. 9).



** Reel MAXI ROLLER 4000 15839 Carrier for reel 15840



turbomax® braided rope D3 14512



Consultation











The suitable assortment for

SHEEP FARMING



Carsten Tent - Part-time sheep farming

Carsten Tent - sheep farmer from North Hessen - lives with his family on a small farm in North Hessen. Together with his brother, he passionately keeps a small flock of sheep right on the family farm. It is particularly important to him that the fencing is escape-proof and injury-free for his sheep. He uses horizont electric netting and a powerful horizont pasture fence energiser, because the thick wool of the sheep requires a high output energy with an effective discharge energy.

Sheep farmer by passion

Good shepherding practice for Carsten is the daily safe maintenance of his flock of sheep. As a sheep farmer he is very knowledgeable about feeding, care, supervision, and health care; this is as important as correct husbandry itself. When it comes to the herding safety of his sheep, he relies on products from horizont.

His favourite among the many practical horizont netting variants is the white turbomax® high energy netting (14533, p. 116) with stable vertical polywires. It guarantees high voltage and good visibility for all animals.

Carsten attaches particular importance to optimal earthing. The basis for good earthing is several interconnected earthing rods. This construction can be tedious, but in dry conditions it ensures that the herding safety is guaranteed.

A strong horizon pasture fence energiser, the turbomax® high energy netting and the correctly dimensioned earthing are the distinguishing features of his safe fence. He always has a digital fence tester ready to hand for precise voltage determination.



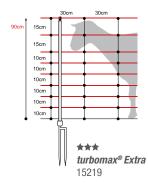
Carsten's product choice for sheep farming:

The appropriate pasture fence energiser:



★★ *hotshock® N500*10613

Properly fenced in with sheep and goat netting:



Ensure optimal earthing:



Practical fence control:



★★★
ranger® fence tester
14496C





Product highlights for

SHEEP FARMING



Sheep pen in regions with wolf populations

In areas with high wolf populations, the horizont pasture fence is an extremely good way of preventing damage to livestock.

The practical wolf defence netting horinetz super plus has been developed on the basis of a 90 cm sheep netting and has been rated as highly efficient by the Saxonian Sheep Breeders' Association in a long-term test. In the event of wolf pressure, the 120 cm high posts, which are also integrated, can be fitted with the farmer® T20 - W pasture fencing tape at the upper end. The tapes are connected as earth conductors and thus contribute to increasing the herding voltage. The pasture fencing tape moves

constantly in the wind, thus preventing the wolf from accurately estimating the height. This stops the wolf from jumping over the netting. Countless shepherds entrust their sheep to this netting and are very satisfied with its defence. The powerful ranger® AN4800HIMPS pasture fence energiser - supported by a special 12 volt special rechargeable battery and charged by a 30 watt solar panel - forms a professional unit for optimum herding safety.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.

Some of the most important products for optimal herding safety:



★★★
ranger®
AN4800HIMPS
10993HIMPS



★★ *horinetz super plus*14925



farmer® T20 - W 17475



30 watt
Solar module



Sheep in landscape maintenance – migrating sheep herding

Migrating shepherds travel with their sheep during the day and maintain areas which cannot or must not be mowed with machines.

This protects free areas from scrub encroachment and the shepherds and their sheep make a significant contribution to nature conservation. At the same time they preserve the biodiversity of nature.

At the end of such a migratory day, the sheep are well fed and need a safe pen for the night. For this purpose horizont recommends the use of the turbo-

max® high energy netting with earthing conductor. The difficult earthing of the pasture fence energiser is made extremely easy with the help of the earth conductor integrated in the netting. The larger meshes at the bottom of the netting allow small wild animals to slip through unharmed.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.

Some of the most important products for optimal herding safety:





turbomax® high energy





Embankment maintenance

Embankment and dyke maintenance is becoming increasingly important.

The current climate change often creates short-term weather situations that can be very threatening. These dangerous situations can seriously affect the natural protection of the dykes/embankments.

For dyke/embankment maintenance, horizont recommends a polywire fence. The robust plastic posts of the turbomax® series are extremely durable despite short-term changes in weather conditions. The posts are available in total heights of 115 cm or 145 cm. The utilised turbomax® W6 polywire can be tensioned securely and tautly through the eyelets of the

post. Working with the TURBO ROLLER 3 reel: 1 is an enormous time saving for the erection and dismantling of the polywire fence. When the crank is actuated once during dismantling, it rotates three times, thus rewinding the conductor material very quickly. The powerful ranger® AN2000 pasture fence energiser is particularly compact and very pleasant to handle thanks to its practical carrying handle.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.





Some of the most important products for optimal herding safety:



ranger® AN3000 10992



Reel TURBO ROLLER 3:1 13041



turbomax® W6 17140



Paddock sheep farming

Paddock sheep farming means the sheep are kept in large paddocks. The utilised sheep netting has to allow the shepherd to adjust it on a daily basis in order to provide an optimal supply of feed for the sheep at all times.

Robust horizont netting and a particularly strong horizont pasture fence energiser is very important for good herding safety.

horizont recommends one of these robust sheep netting for paddock sheep farming: the horinetz with single or double tip is available in heights of 90 cm, 105 cm or 120 cm, depending on the terrain.

For optimum fence voltage and insulation, horizont recommends the powerful 12 Volt ranger ® AN490 pasture fence energiser. It adapts to the different fence conditions and operates with a practical power economiser.

Please note that these products represent only a small selection of your fencing situation. To supplement them, please contact the horizont service team.



Some of the most important products for optimal herding safety:

To complete your individual fence system, please contact the horizont Service

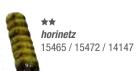
Team +49 (5631 / 565 - 100). Or use the practical pasture fence checklist (p. 9).





12 V special rechargeable battery 14126







turhomax® Fence scout





02

himps smart energiser

PASTURE FENCE ENERGISERS



telligent pasture fence energisers with the himps app control (this is indicated by the figure opposite.).

The heart of an electric pasture fence system is the fence energiser. A pasture fence energiser with a suitable power rating reliably supplies the fence system with pulses, which ultimately provides the deterrent effect.

PRODUCT RANGE

Adviser Things to know about pasture fence energisers	p. 24
Overview of product series Finding the right product series for every application	p. 26
Product guide The practical overview to help you quickly find the right pasture fence end	<i>p. 28</i> ergiser
Topic: Repair and warranty Our extended service offer	p. 37
Topic: himps App for pasture fence energiser control	p. 58
Pasture fence energisers trapper® series • Power supply units • Rechargeable battery/power supply units • Rechargeable battery/battery units • Rechargeable battery/solar units	p. 30
Pasture fence energisers farmer® series • Power supply units • Rechargeable battery/power supply units • Rechargeable battery/battery/power supply units • Rechargeable battery/solar units	р. 40
Pasture fence energisers hotshock® series • Power supply units • Rechargeable battery units • Rechargeable battery/battery/power supply units	p. 48
Pasture fence energisers ranger® series • Power supply units • Rechargeable battery/power supply units • Rechargeable battery/power supply units himps with intelligent pasture energiser control • Rechargeable battery/battery units	p. 52 re fence
Pasture fence energisers turbomax® series • Power supply units • Rechargeable battery/power supply units • Rechargeable battery/battery units	p. 64
Special equipment	p. 67



Things to know about

PASTURE FENCE ENERGISERS

horizont has over 75 years of experience in the manufacture of pasture fence energisers.

The brand is well-known to many generations of livestock owners, horizont customers are impressed by the energy-saving yet effective devices for the safe keeping of their animals, horizont has over 50 patents and registered designs, making it one of the innovation drivers in the market.

1. The choice of the right pasture fence energiser

Which energy supply is preferred?

horizont distinguishes between power supply units (N), rechargeable battery units (A), battery units (B), and solar units (S). Many devices also combine different types of power supply in order to offer more safety and flexibility in the application. In addition, horizont offers different housing shapes, which are reflected in the operating mode. The main difference is in stationary housing forms for wall mounting and mobile housing forms for handy transport. For an overview, see p. 28.









Which animals are to be herded?

Each animal has special characteristics and reacts differently to the current pulse. The sensitivity or coat of the animals is important for the correct construction of the electric fence. Horizont has developed special pulse shapes for different situations to ensure herding safety for every animal species and every fence situation. The animal symbols make it easy to identify the device recommended for a particular animal species:



How large is the area to be fenced and therefore how long is the fence?

The fence length is important for the choice of the right fence energiser, but so is the conductor material. The power of the fence energiser and the conductivity of the conductor material must be compatible!

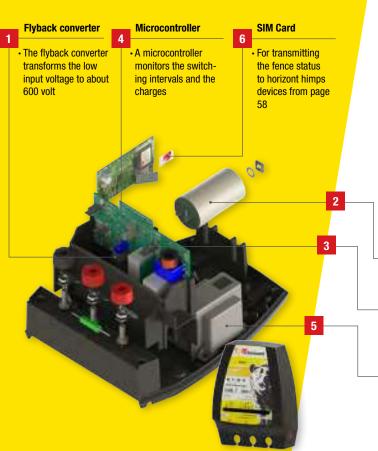
In order to simplify the choice of suitable products for you, horizont has grouped together matching products in series. You will find an overview on p. 26.

Please note that the length specifications always assume optimal conditions, any disruptions and growth are excluded. With vegetation, for example, a partial amount of energy is diverted from the fence into the ground and is then missing from the herding performance.



2. How does a pasture fence energiser work?

The pasture fence energiser is supplied with power from the mains, a battery or a rechargeable battery (some with solar support). When the device is earthed and connected to a fence, your circuit is not closed. If an animal now touches the fence, the electric circuit is closed by the animal: The current flows from the fence through the animal to the earth. To eliminate the risk of dangerous electric shock, the pasture fence energiser sends the charge to the fence in pulses. A high voltage must be generated so that the current can flow over the animal on contact. The energy must also be "portioned" so that a dangerous current does not flow at the high voltage.



Tip

But one thing should not be forgotten: The best fence energiser is useless if it is connected to a faulty fence!



3. Which additional functions do horizont pasture fence energisers offer?

horizont pasture fence energisers are equipped with various, sometimes automatic, functions. These guarantee simple and flexible adaptation to the respective type of use, fence quality and vegetation. Moreover, you can get by with fewer batteries throughout the entire pasture fence season, as many devices are equipped with a power economiser(ECO Power).

The premium products are made of a particularly stable and weather-resistant plastic. They are splash-proof protected, electrically well insulated and suitable for high operating temperatures in the sun. Some pasture fence energisers have an LED display that provides information about the state of the fence despite being far away. The control effort is reduced to a minimum because you can read the output voltage from the device (Energy Control Power Control, Impulse Control, System Control).

There are also some features which ensure herding safety in difficult situations or in case of damage (turbo effect, 2-stage CPN technology, turbomax technology).

Note

You will find the device features with explanations on the respective product in the catalogue or via the short link of the corresponding device on the horizont website. For a complete overview of all device features use the following link:

www.horizont.com/wzgfeatures

Capacitor

• The amount of energy is stored in the capacitor

Electronic switch

· An electronic switch controls the intervals at which the stored energy is released

Medium voltage transformer

- · The released energy flows from the capacitor into a medium voltage transformer
- The transformer transforms the 600 volts to up to 15,000 volts
- This medium voltage pulse is transmitted into the fence system via the device connections

4. How has Made in Germany worked for 75 years?

Your all-inclusive full-service package:



Development

Construction



moulding



Printed circuit



Print technology Marketing



Logistics Dispatch

This is how "Made in Germany" works:

horizont, the inventor of the battery-powered 9 V pasture fence energiser, has been working every day for 75 years to make the lives of people and animals a little safer and easier. horizont products stand for quality and reliability. Our more than 500 employees who develop products from practical experience for practical use play a major role in this. Some employees are themselves farmers, livestock owners, riders or they keep animals in their spare time and use their experience to develop new innovative products. horizont pasture fence energisers and accessories are developed in Germany according to the very latest technical standards. All production steps for the manufacture of electronic components and virtually all plastic products are carried out in the production facilities in Korbach, Germany.

Reliable and tested products:

All horizontal pasture fence energisers go through a 24-hour endurance test before they are packed. With the horizont pasture fence energisers, you buy security that you can rely on. The products are only added to the portfolio if they meet all quality requirements during the test runs. All devices are tested according to the applicable EU directives and the safety standard EN60335776 and built in accordance with DIN EN ISO 9001.



The horizont service for you: All horizont devices come with a two to five year warranty.

All horizont devices are produced in Germany which is why they are known for their premium quality.



Overview of **PRODUCT SERIES**

The innovative series concept

The right product series for every application:

The horizont pasture fence series covers all areas of application: From hobby to professional. The components of a series guarantee optimal interaction. Beginning with trapper, the entry-level series, to the premium series turbomax, horizont offers the right solution for every area of application, whether cattle, horse, sheep/goat or small animal husbandry.

Nearly all fence energisers are produced in Germany and undergo a multi-stage quality assurance process during production, which is DIN EN ISO 9001 certified.

This provides the greatest possible safety both in the use of individual components and for the finished product.



Note

You will find the device features with explanations on the respective product in the catalogue or via the short link of the corresponding device on the horizont website at

www.horizont.com

For a complete overview of all device features use the following link:

www.horizont.com/wzgfeatures



Ideal for calm grazing animals and normal operating conditions

The farmer range of fence energisers includes our all-rounders for pasture management. They are ideal for calm grazing animals that are kept under normal operating conditions. This series also includes many devices that have a dual function.

- Special pulse shape deploys gently in the fence system
- · High output voltages offer great herding safety

The most important features*:

- Polycarbonate
- · ON /OFF switch
- Energy Control (display of battery/ rechargeable battery capacity)
- ECO Power (power economiser)
- Very sturdy housing
- Power Control (pulse control)



trapper®

Ideal for small, simple fence systems

Our trapper series is very suitable for newcomers and hobby livestock owners. The trapper pasture fence energisers are the ideal choice for small and simple fence systems.

- · Simple to use, easy to install
- Compact housing versatile in use
- Output energy designed for the most common applications, e.g. horse keeping

The most important features*:

- ON /OFF switch
- Energy Control (display of battery/ rechargeable battery capacity)
- · Very sturdy housing
- · Power Control (pulse control)











For exacting demands and dry soil conditions

Our professional series for exacting demands and dry location conditions. The ranger pasture fence energisers are ideal for grazing animals such as cattle or horses. This series also includes many devices that have a dual function.

- Device function can be adapted depending on situation to the fence conditions
- Special pulse shape deploys gently in the fence system
- Large herding performance even during dry summer periods

The most important features*:

- Polycarbonate
- ON /OFF switch
- System Control (argutector fence control)
- Energy Control (display of battery/ rechargeable battery capacity)
- ECO Power (power economiser)
- · 6-stage voltage display
- Impulse Control (cycle sequence monitoring)
- Very sturdy housing
- Voltage regulator (rotary potentiometer)
- 2 fence outputs
- 6 modes function

turbomax®

Strong performance for highest demands

Our premium series for extreme and particularly high demands. The turbomax pasture fence energisers are extremely powerful devices and are suitable for extremely long fences. turbomax pasture fence energisers can be used for herding almost all types of animals.

- Important safety features and functions that are very useful for the user
- Special safety circuit, which increases the performance when required

The most important features*:

- Polycarbonate
- ON /OFF switch
- System Control (argutector fence control)
- Energy Control (display of battery/ rechargeable battery capacity)
- ECO Power (power economiser)
- 6-stage voltage display
- Turbo effect
- · LED display
- Alarm function
- · 2-stage CPN technology
- Impulse Control (cycle sequence monitoring)
- Very sturdy housing
- turbomax technology

hotshock®

Ideal for robust animals and for wildlife deterrence

This series is perfectly suited for deterring robust animals or the keeping of long-haired and feathered animals. hotshock fence energisers can therefore be used for sheep and goat farming in combination with netting. They regulate every difficult situation, making them useful as special solutions in wildlife deterrence.

- $\bullet \ \, \text{Strong devices with maximum output energy}$
- Special pulse shape enables special herding safety under the most difficult conditions

The most important features*:

- Polycarbonate
- ON /OFF switch
- Energy Control (display of battery/ rechargeable battery capacity)
- ECO Power (power economiser)
- Impulse Control (cycle sequence monitoring)
- Very sturdy housing
- 2 fence outputs
- · Power Control (pulse control)



* The range of functions differs between the different housing types and energy supply







PASTURE FENCE ENERGISERS

Note

The device names are compiled according to the following scheme: **Device series – Power supply** N (mains connection) 270 (2.7 J) ranger

trapper B12 (battery device with 0.12 J max. output energy) farmer AN1000 (rechargeable battery / battery device with 1.0 J max. output energy)

Power supply units

Product			max. fence length in	max. fence	Number of possible			Livesto	ck farn	ning			Wildlife deterrent			
	Designation	Art. No.	Page		length in m	nettings per 50 m	RT	AL - II		icre-	煮	¥	à	RT	at	1
	★ trapper® N15	104271	31	3,000	1,500	_					•		•			
	★ trapper® N45	10864	31	15,000	4,000	3	•	•		•	•	•	•			
1	★★ farmer® N100	10996	41	40,000	10,000		•	•	•	•	•					•
1	★★ farmer® N200	10632	41	50,000	15,000	10	•	•	•	•						•
P	★★ hotshock® N500	10614	48	120,000	45,000	16	•	•	•			•		•	•	•
	★★★ ranger® N270	10608	53	60,000	20,000	12	•	•	•	•		•		•	•	•
	*** ranger® N420	10742	53	100,000	40,000	16	•	•	•	•		•		•	•	•
Ŷ,	*** turbomax® N1430	10748	64	320,000	85,000	30	•	•	•			•		•	•	•

Rechargeable battery/battery units and rechargeable battery/battery/power supply units and rechargeable battery/battery/power supply units



Product			max. fence length in	Livotok lailing					Wildlife deterrent							
	Designation	Art. No.	Page		length in m	nettings per 50 m	RT	1		1000	煮	¥	~	RT	at t	100
To.	★ trapper® B12	10616	35	4,000	3,000		•	•		•	•					
-	★ trapper® B22	10620	35	8,000	5,000		•	•		•	•					
	★ trapper® AB12	14497	36	3,000	1,500	_	•				•					
1000	★★★ ranger® B29	10555	63	9,000	6,000	_	•	•		•	•					•
	★★★ ranger® B65	10841	63	20,000	12,000	_	•	•		•	•					•
	*** turbomax® B27	10285	66	10,000	6,000	3	•	•	•	•	•					•
	★★ farmer® ABN30	10891	46	9,500	5,500	2	•	•			•					•
=	★★ hotshock® ABN37	10892	51	10,000	6,000	3	•	•	•			•		•	•	•

Rechargeable battery units and rechargeable battery/power supply units

	Product		max. fence length in	max. fence	Number of possible		Li	vesto	ck farn	ning			Wildlife deterrent			
	Designation	Art. No.	Page	acc. with	length in m	nettings	77			I.T.	潕	¥	4	RT	at t	1
	★★ hotshock® A90	10638	49	30,000	9,000	6	•	•	•			•			•	•
	★★ hotshock® A300	10613	50	80,000	30,000	14	•	•	•			•			•	•
<u> </u>	★ trapper® AN45	10867	33	8,000	4,000	3	•	•	•	•	•	•	•			
<u></u>	★ trapper® AN80	10866	33	12,000	8,000	4	•	•	•	•	•	•	•			
<u> </u>	★ trapper® AN120	10865	33	18,000	12,000	6	•	•	•	•		•	•			
	★★ farmer® AN100	10896	43	30,000	8,000	6	•	•	•	•	•					•
	★★ farmer® AN200	10897	43	50,000	15,000	10	•	•	•	•						•
	★★ farmer® AN300	10882	43	80,000	18,000	12	•	•	•	•						•
	★★ farmer® AN1000	10855	45	40,000	10,000	6		•	•	•						•
-	★★ farmer® AN1000Solar	10856	45	40,000	10,000		•	•	•	•						•
	*** ranger® AN360	10997	55	130,000	45,000	12	•	•	•	•		•		•	•	•
	**★ ranger® AN490	10857	55	130,000	45,000	12	•	•	•	•		•		•	•	•
	*** ranger® AN2000	10854	57	50,000	15,000	10	•	•	•			•				•
	*** ranger® AN3000	10992	57	100,000	20,000	10	•	•	•	•				•	•	•
	*** ranger® AN4800	10993	57	130,000	40,000	10	•	•	•	•				•	•	•
	*** ranger® AN490HIMPS	10857HIMPS	60	130,000	40,000	14	•	•	•	•		•		•	•	•
	*** ranger® AN4800HIMPS	10993HIMPS	61	130,000	40,000	14	•	•	•	•				•	•	•
TY.	*** turbomax® AN800	10749	65	180,000	55,000	17	•	•	•			•		•	•	•

Rechargeable battery/solar units 124 / LEE

 * Laboratory value: according to the specified fence length, the fence system has a voltage of 2,000 V

Product		max. fence length in	max. Number of fence possible		Livestock farming							Wildlife deterrent				
	Designation	Art. No.	Page			nettings per 50 m	RT			in the	濡	¥	4	RT	at	100
	★ trapper® AS25	14982	39	8,500	5,000	_	•	•			•					•
	★ trapper® AS50	14983	39	18,000	16,000	_	•	•			•					•
	★★ farmer® AS50	14485	47	18,000	16,000	_	•	•			•					•

29

Power supply units **trapper**®



Energy source

Possibilities of energy supply for these devices:



230 V №

Special features

- Very sturdy housing
- Power Control (pulse control)
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



Safe installation of the connecting cables through cross hole in the bolt

Application area

- · Ideal for small, simple fence systems
- Suitable for newcomers and hobby livestock owners

Earth output

Power Control

- · Shows the activity of the device
- Flashes in time with the pulse output

PREMIUM QUALITY MADE IN GERMANY

Power supply units

★ trapper® N15 (hobbygard N)



★ trapper® N45 (trapper N8)



MMMATAKA

Type of animal:



Without vegetation - 1,500 m

(M) MAS

Input: Max. output: **Energy consumption:** Max. voltage: Voltage 500 Ω : Dimensions (L \times W \times 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
- · Pasture fence energiser, mains plug, earth stake (approx. 30 cm), fence and earth connection cable

Art. No.	Unit	Price €
104271	File I	89.99

闸

- 0.8 J
- 0.45 J
- 1.5 W
- 8,000 V
- 3,900 V
- 5.8 x 12.4 x 17.2 cm
- · Pasture fence energiser, mains plug, dowels, screws

Art. No. Unit Price	10864	A	94.95
	Art. No.	Unit	Price €

Product information & features:



Recommended

accessories:

- Earth stake 1 x 1 m (14041-1, p. 92) • Fence tester trapper (14494C, p. 99)

www.horizont.com/10864

- Earth stake 1 x 1 m (14041-1, p. 92)
- · Fence connection kit (15522C, p. 96)
- Fence tester trapper (14494C, p. 99)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



Fence connection kit (15522C, p.96)



horizont



















Rechargeable battery/power supply units

trapper®



Input socket

· For connection to 12 V or 230 V

Fence output

Handy housing

- · Particularly impact-resistant housing through use of high-quality ABS plastics (PC and PP)
- · Material is UV resistant, splash-proof and oilresistant

Earth output

Power Control

- · Shows the activity of the device
- · Flashes in time with the pulse output

Energy source

Possibilities of energy supply for these devices:



Combination units

Combination units can be operated either on 230 V mains power or on a 12 V battery.



Special features

- Very sturdy housing
- Power Control (pulse control)
- · Automatic switch-over in solar operation
- · Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



Safe installation of the connecting cables through cross hole in the bolt

Application area

- · Ideal for small, simple fence systems
- · Suitable for newcomers and hobby livestock owners

Safety advice

In 230 V operation, the device should and the power supply unit must be installed in a room protected from moisture.

MADE IN GERMANY

Rechargeable battery/power supply units

★ trapper® AN45 (trapper AN8)



★ trapper® AN80 (trapper AN12)



★ trapper® AN120 (trapper AN24)



In acc. with CEE - 18,000 m Without vegetation - 12,000 m Netting - 6 x 50 m

Type of animal:



In acc. with CEE - 8,000 m Without vegetation - 4,000 m Netting - 3 x 50 m

 \mathcal{H}

In acc. with CEE - 12,000 m Without vegetation - 8,000 m Netting - 4 x 50 m

• 1.2 J

• 0.8 J

• 90 mA

• 8,400 V

• 3,600 V

Art. No.

10866

• 5.8 x 12.4 x 17.2 cm

battery connection cable

- 2.4 J • 1.2 J
- 145 mA
- 8,600 V
- 4,000 V
- 5.8 x 12.4 x 17.2 cm
- · Pasture fence energiser, power supply unit, fence, earth and rechargeable battery connection cable

Art. No.	Unit	Price €
10865	A	159.00

• 12 V rechargeable battery special with

• Earth stake 1 x 1 m (14041-1, p. 92)

1 x 20 W (14536, p. 84)

• Solar panel 1 x 20 W (140641, p. 83) or

100 Ah (14126, p. 77) ≥ Service life: 29

Input:

Max. output: **Energy consumption:** Max. voltage:

Voltage 500 Ω: Dimensions (L x W x H): 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
- · Pasture fence energiser, power supply unit, fence, earth and rechargeable battery connection cable

Art. No.	Unit	Price €
10867		99.95

www.horizont.com/10867

www.horizont.com/10866

· Pasture fence energiser, power supply

Unit

翮

unit, fence, earth and rechargeable

Price €

129.00

www.horizont.com/10865

Product information & features:

Recommended

accessories:

- 12 V rechargeable battery special with 63 Ah (14124, p. 77) ≥ Service life: 52
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (140631, p. 82)
- 12 V rechargeable battery special with 88 Ah (14125, p. 77) ≥ Service life: 40
- Earth stake 2 x 1 m (14041-1, p. 92)
- 1 x 20 W (14536, p.84)
- · Solar panel 1 x 10 W (140631, p. 82) or

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



Solar panel 10 W (140631, p. 82)



Solar panel 20 W (14536, p. 84)





Rechargeable battery/battery units **trapper**®



Cable bushing

 Intelligent cable routing from inside the device to solar panel

Extremely robust housing

- Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

Integrated carrying handle

 Easy transfer possible with one hand



Energy source

Possibilities of energy supply for these devices:



Special features

- Very sturdy housing
- Power Control (pulse control)
- · Automatic switch-over in solar operation
- Solar charging control is installed weather-protected in the device easy charging of different types of rechargeable batteries
- · Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Secure closing mechanism – pull device apart and remove cover



Housing used as transport box and protects rechargeable battery/ battery from effects of weather

Application area

- · Ideal for small, simple fence systems
- Suitable for newcomers and hobby livestock owners

Front view



ON/OFF switch & Power Control

- · Shows the activity of the device
- Flashes in time with the pulse output

Rear view



Earth output

Fence output

MADE IN GERMANY

Rechargeable battery/battery units

★ trapper® B12

(trapper B)



★ trapper® B22

(equistop B2)



In acc. with CEE - 8,000 m

Without vegetation - 5,000 m

Type of animal:



In acc. with CEE - 4,000 m Without vegetation - 3,000 m

Input: Max. output: **Energy consumption:**

Max. voltage: Voltage 500 Ω: Dimensions (L x W x H): Scope of delivery:

• 0.18 J

- 0.12 J
- 9 V: 15 mA
- 12 V: 12 mA
- 8,500 V
- 1,500 V
- 19.5 x 23.3 x 25.0 cm
- · Pasture fence energiser, earth stake (approx. 30 cm), fence and earth connection cable

Art. No.	Unit	Price €
10616		94.95

- 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
- · Pasture fence energiser, earth stake (approx. 30 cm), fence and earth connection cable

Art. No.	Unit	Price €
10620		199.00

Product information & features:



www.horizont.com/10620

Recommended accessories:

- 12 V rechargeable battery super fleece with 12 Ah (15842, p. 77) ≥ Service life: 41 days* or 9 V alkaline battery with 120 Ah (15844E, p. 76) ≥ Service life: 333 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (60140, p. 80)
- 12 V rechargeable battery super fleece with 12 Ah (15842, p. 77) ≥ Service life: 20 days* or 9 V alkaline battery with 120 Ah (15844E, p. 76) ≥ Service life: 143 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (60140, p. 80)

Selected accessories

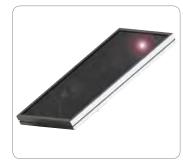
Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



9 V alkaline battery with 120 Ah (15844E,



Solar panel 2 W (60140, p. 80)



Rechargeable battery/battery unit

trapper®



Handy housing

- Particularly impact-resistant housing through use of high-quality plastics (ABS)
- · Material is UV resistant, splash-proof and oil-resistant

ON/OFF switch, Power Control & pushbutton for menu navigation

- · Shows the activity of the device
- · Flashes in time with the pulse output
- Two modes of operation:
- 1. Slow pulse sequence
- 2. Normal pulse sequence

Mounting device for solar panel





Spiked post

- · For a secure stability
- · With tread surface

Bottom view



Earth output

Fence output

Solar connection

12 V rechargeable battery connection

Energy source

Possibilities of energy supply for this device:



Application area

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

Special features

- · Automatic switch-over in solar operation
- Microprocessor control



The device can be hooked into the fence material



Suspension device for wall mounting and integrated carrying handle

★ trapper® AB12 (trapper AB2)



Type of animal:



Max. fence length:

In acc. with CEE - 3,000 m Without vegetation - 1,500 m

 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 500 Ω: • 2,000 V

Dimensions (L x W x H): • 13.1 x 11.1 x 23.9 cm **Scope of delivery:** • Pasture fence energise

 Pasture fence energiser, earth stake and spiked post, fence and earth connection

cable

 Art. No.
 Unit
 Price €

 14497
 129.00

Product information & features:

☑ www.horizont.com/14497

Recommended accessories:

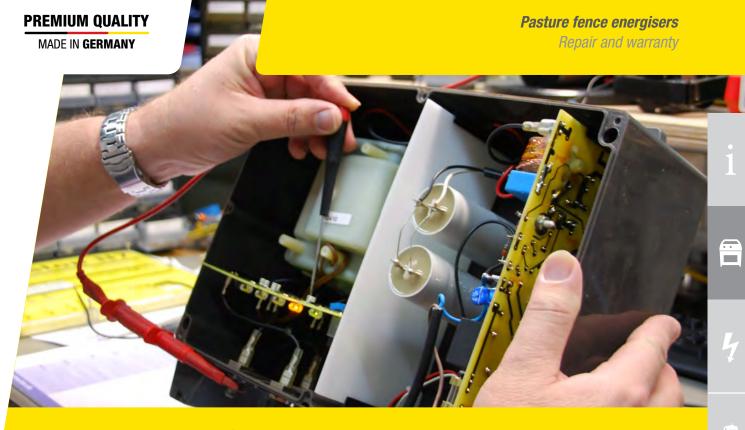
- 12 V rechargeable battery super fleece with 12 Ah (15842, p. 77) ≥ Service life: 45/62 days* or 6 V block battery with 50 Ah (230502, p. 76) ≥ Service life: 83/122 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2.5 W (14541C, p. 81)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



fleece with 12 Ah (15842, p. 77), 6 V block battery with 50 Ah (23002, p. 76) and solar panel 2.5 W (14541C, p. 92)



horizont services for you

REPAIR & WARRANTY

Repair service

Reliable, competent and fast contact

Good service plays a key role at horizont. Whether in sales or in the in-house repair workshop - our experts at horizont are available to provide you with advice and practical support. In the unlikely event of a defect or damage to a device (e.g. due to lightning, moisture intrusion or similar), horizont's technical service is available at short notice. Many of the horizont specialist trade partners can repair your device on site thanks to the simple modular design, or your device will be repaired at the service centre in Korbach and you will receive a loaner device for the duration of the short repair time (usually 48 hours). During the subsequent safety check, all components of the device are tested and you receive a one-year warranty on the complete device!

www.horizont.com/repair

Checklist in the event of a fault

- Have all voltage sources (batteries, rechargeable batteries, mains, solar sources) been checked and are they OK?
- · Is the earthing sufficient?
- Are the connections device-to-fence and device-to-earthing OK?
- Have fence polywires, tapes and ropes been checked for interruption?
- Have high voltage resistant cables been used for all supply cables to the fence?
- Is the fault in the device eliminated when the fence and earthing are disconnected from the device?

Send in repairs to:

horizont group gmbh Repair service Am Ziegelgrund 36 34497 Korbach, Germany

Please be sure to include your full address details when submitting your repair.

Warranty extension

Register your pasture fence energiser now!

As a one-time service horizont offers a 1-year extension of the standard warranty - simply register your pasture fence energiser on the horizont website!

After registration your warranty will be extended by 1 year warranty in addition to the actual guarantee. You can register no later than 3 months after the date of purchase. If you purchased your pasture fence energiser more than 3 months ago, your registration is invalid and you are not eligible for an extended warranty.

www.horizont.com/warranty







Rechargeable battery/solar units trapper®



Robust plastic solar panel

- Environmentally friendly use of solar energy
- Compact unit of electric fence device and solar panel

Extremely robust housing

- Particularly impact-resistant housing through use of high-quality plastics (ABS)
- Material is UV resistant, splash-proof and oil-resistant

ON/OFF switch & Energy Control

- 3-stage LED control display for rechargeable battery capacity and function
- · Shows the activity of the device
- Flashes in time with the pulse output

Ergonomic carrying handle

· Easy transfer possible with one hand

Rear view



Fence output

Earth output

Energy source

Possibilities of energy supply for these devices:



Special features

- Very sturdy housing
- Power Control (pulse control)
- · Automatic switch-over in solar operation
- Solar charging control installed weather-protected in housing
- · Microprocessor control



Integrated, exchangeable 12 V rechargeable battery



Plug-in profile for earthing rod in housing



230 V charging socket to keep the integrated 12 V battery charged



Twist lock on the back to open the housing



Inclined front for easy alignment of solar panel to the sun

Tip

· Charge the battery before starting up!

Application area

- · Ideal for small, simple fence systems
- Suitable for newcomers and hobby livestock owners

Rechargeable battery/solar units

★ trapper® AS25

(trapper AS35)



* trapper® AS50 (trapper AS70)



Type of animal:



MATATA

In acc. with CEE - 8,500 m Without vegetation - 5,000 m

MATATA

In acc. with CEE - 18,000 m Without vegetation - 16,000 m

Input: Max. output: **Energy consumption:** Max. voltage: Voltage 500Ω : Dimensions (L \times W \times 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
- · Pasture fence energiser, power supply unit, earth stake (approx. 30 cm), 12 V rechargeable battery, 5 W solar panel, fence and earth connection cable

1/1082	æ	279 00
Art. No.	Unit	Price €

- 0.65 J
- 0.5 J
- 50 mA
- 11,000 V
- 3,600 V
- 23.1 x 37.4 x 32.0 cm
- · Pasture fence energiser, power supply unit, earth stake (approx. 30 cm), 12 V rechargeable battery, 10 W solar panel, fence and earth connection cable

Art. No.	Unit	Price €
14983		329.00

Product information & features:



www.horizont.com/14983

Recommended accessories:

- Earth stake 1 x 1 m (14041-1, p. 92)
- Fence tester trapper (14494C, p. 99)
- · Warning sign, international (14127, p. 101)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Fence tester trapper (14494C, p. 99)
- · Warning sign, international (14127, p. 101)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.





Warning sign, international (14127, p. 101)

Fence tester trapper (14494C, p. 99)

















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Power supply units farmer®



Power Control

- · Shows the activity of the device
- Flashes in time with the pulse output

Fence output

Earth output

Extremely robust housing

- Particularly impact-resistant housing through use of high-quality plastics (PC)
- Material is UV resistant, splash-proof and oil-resistant

Energy source

Possibilities of energy supply for these devices:



Special features

- Very sturdy housing
- Power Control (pulse control)
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

Application area

Ideal for calm grazing animals and normal operating conditions

PREMIUM QUALITY MADE IN GERMANY

Power supply units

★★ farmer® N100 (farmer N15)

★★ farmer® N200





Type of animal:







In acc. with CEE - 40,000 m Without vegetation - 10,000 m Netting - 6 x 50 m

In acc. with CEE - 50,000 m Without vegetation - 15,000 m Netting - 10 x 50 m

- Input:
- Max. output: **Energy consumption:**
- Max. voltage: Voltage 500 Ω:
- Dimensions (L x W x H): Scope of delivery:
- 1.5 J •1J
- 3 W
- 9,000 V
- 4,300 V
- 9.0 x 19.0 x 23.3 cm
- · Pasture fence energiser, mains plug, dowels and screws
- 2.8 J
- 2 J
- 5 W
- 14,000 V
- 5,200 V
- 9.0 x 19.0 x 23.3 cm
- · Fence energiser, mains plug, dowels and

Art. No.	Unit	Price €
10632		189.00

Art. No.	Unit	Price €
10996		209.00

Product information & features:



✓ www.horizont.com/10996

Recommended accessories:

- Earth stake 1 x 1 m (14041-1, p. 92)
- Fence connection kit (15522C, p. 96)
- Fence tester farmer (14495C, p. 99)
- · Warning sign, international (14127, p. 101)
- · Lightning protection choke (15482, p. 95)
- · Underground cable (15321, p. 94)
- Earth stake 2 x 1 m (14041-1, p. 92)
- Fence connection kit (15522C, p. 96)
- Fence tester farmer (14495C, p. 99)
- · Warning sign, international (14127, p. 101)
- · Lightning protection choke (15482, p. 95)
- · Underground cable (15321, p. 94)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.





Fence connection kit (15522C, p. 96)



Fence tester farmer (14495C, p. 99)

















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Rechargeable battery/power supply units

farmer®



Energy Control

- 3-stage LED control display for rechargeable battery capacity and function
- · Shows the activity of the device
- · Flashes in time with the pulse output

Fence output

Earth output

Extremely robust housing

- Particularly impact-resistant housing through use of high-quality plastics (PC)
- Material is UV resistant, splash-proof and oil-resistant

Energy source

Possibilities of energy supply for these devices:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a $12\,\text{V}$ rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Special features

- ĒCO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water



Connection socket for the power supply unit at the back

Application area

Ideal for calm grazing animals and normal operating conditions

Safety advice

In 230 V operation, the device should and the power supply unit must be installed in a room protected from moisture.

MADE IN **GERMANY**

Rechargeable battery/power supply units

★★ farmer® AN100 (farmer AN15)

★★ farmer® AN200 (farmer AN25)

★★ farmer® AN300





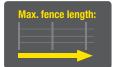


Type of animal:

MATANTA MA

MMANTA





In acc. with CEE - 30,000 m Without vegetation - 8,000 m Netting - 6 x 50 m

In acc. with CEE - 50,000 m Without vegetation - 15,000 m Netting - 10 x 50 m In acc. with CEE - 80,000 m Without vegetation - 18,000 m Netting - 12 x 50 m

Input:

Max. output: Energy consumption: Max. voltage: Voltage 500 Ω:

Voltage 500 Ω : Dimensions (L x W x H): Scope of delivery:

- 1.3 J
- •1J
- 30 90 mA
- 11,500 V
- 4,200 V
- 9.0 x 19.0 x 23.3 cm
- Pasture fence energiser, power supply unit, fence and earth connection cable

2.5 J	

- 2 J
- 35 190 mA
- 11,200 V
- 4,500 V
- 9.0 x 19.0 x 23.3 cm
- Pasture fence energiser, power supply unit, fence and earth connection cable

•	4.	J	

- •3J
- 30 265 mA
- 11,800 V
- 6,200 V
- 9.0 x 19.0 x 23.3 cm
- Pasture fence energiser, power supply unit, fence and earth connection cable

10896	A	219.00
Art. No.	Unit	Price €

Art. No.	Unit	Price €
10897		249.00

Art. No.	Unit	Price €
10882		269.00

Product information & features:

www.horizont.com/10896

✓ www.horizont.com/10897

☑ www.horizont.com/10882

Recommended accessories:

- 12 V rechargeable battery special with 88 Ah (14125, p. 77) ≥ Service life: 40-122 days*
- 230 V power supply unit (47PSU0010EU, p. 79)
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (140631, p. 82) or 1 x 20 W (14536, p. 84)
- 12 V rechargeable battery special with 100 Ah (14126, p. 77) ≥ Service life: 22-119 days*
- 230 V power supply unit (47PSU0010EU, p. 79)
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (140631, p. 82) or 1 x 30 W (14537, p. 85)
- 12 V rechargeable battery special with 100 Ah (14126, p. 77) ≥ Service life: 16-138 days*
- 230 V power supply unit (47PSU0010EU, p. 79)
- Earth stake 3 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (140631, p. 84) or 1 x 30 W (14537, p. 85)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



Solar panel 10 W (140631, p. 82)



Solar panel 30 W (14537, p. 85)





Rechargeable battery/power supply units farmer®



Extremely robust housing

- Particularly impact-resistant housing through use of high-quality plastics (PC and PP)
- · Material is UV resistant, splash-proof and oil-resistant
- Housing holds rechargeable batteries and batteries up to a size of 265 x 192 x 225 mm

ON/OFF switch & Energy Control

- 3-stage LED control display for capacity and function of battery or rechargeable battery
- · Shows the activity of the device
- · Flashes in time with the pulse output

Ergonomic carrying handle

- Carrying ease thanks to soft grip padding
- · Easy transfer possible with one hand

Rear view

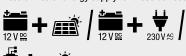


Fence output

Earth output

Energy source

Possibilities of energy supply for these devices:





Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Special features

- Rechargeable battery or battery is integrated into the handy transport box where it is protected from the weather
- Contact with the rechargeable battery or the acid is avoided during transport
- Automatic switch-over in solar operation
- Solar charging control is installed weather-protected in the device easy charging of different types of rechargeable batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Housing can be secured with a padlock



Device for attaching the appropriate solar panel to the back of the device cover



Solar panel can be folded away laterally for transport

Application area

Ideal for calm grazing animals and normal operating conditions

PREMIUM QUALITY

MADE IN **GERMANY**

Rechargeable battery/power supply units

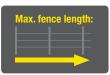
★★ farmer® AN1000

** farmer® AN1000Solar





Type of animal:



MARATA

Without vegetation - 10,000 m Netting - 6 x 50 m In acc. with CEE - 40,000 m

In acc. with CEE - 40,000 m Without vegetation - 10,000 m Netting - $6 \times 50 \text{ m}$

Input: Max. output:

Energy consumption:

Max. voltage: Voltage 500 Ω : Dimensions (L x W x H): Scope of delivery:

- 1.4 J
- •1J
- 9 V: 40 70 mA
- 12 V: 30 90 mA
- 11,000 V
- 11,000
- 4,800 V
- 24.0 x 31.5 x 38.0 cm
- Pasture fence energiser, fence, earth and rechargeable battery connection cable
- 1.4 J
- •1J
- 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
- Pasture fence energiser, fence, earth connection cable, 10 W solar panel

Art. No.	Unit	Price €
10855		285.00

Art. No.	Unit	Price €
10856		409.00

Product information & features:



☑ www.horizont.com/10856

Recommended accessories:

- 12 V rechargeable battery special with 85 Ah (14894, p. 77) ≥ Service life: 39-118 days* or 12 V rechargeable battery super fleece with 75 Ah (14479, p. 77) ≥ Service 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 (14463, p. 83)
- 12 V rechargeable battery special with 85 Ah (14894, p. 77) ≥ Service life: 39-118 days* or 12 V rechargeable battery super fleece with 75 Ah (14479, p. 77) ≥ Service 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

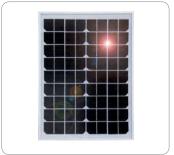
Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



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



Solar panel 10 W (14463, p. 83)



PREMIUM QUALITY

MADE IN GERMANY

Rechargeable battery/battery/power supply unit



Ergonomic carrying handle

- · Carrying ease thanks to soft grip padding
- · Easy transfer possible with one hand

Mounting device for solar panel

- · Easy attachment of the solar panel to the mounting device
- · 4 different setting angles and a transport position of the solar panel possible



Extremely robust housing

- Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant
- · Housing holds rechargeable batteries with a capacity up to 34 Ah and batteries up to 200 Ah

ON/OFF switch & Energy Control

- · 3-stage LED control display for capacity and function of battery or rechargeable battery
- · Shows the activity of the device
- · Flashes in time with the pulse output

Side view



Earth output

Fence output

Energy source

Possibilities of energy supply for this device:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Application area

· Ideal for calm grazing animals and normal operating conditions

Special features

- · Plug-in profile for earthing rod in housing
- · Top and bottom part are connected by hinge
- · Housing can be secured with a padlock
- · Retaining plate inside provides firm stability for accumulators and batteries
- · Multioptional storage compartment for power supply unit when not in use
- · Intelligent cable routing prevents pinched cables and runs from inside the device to the solar panel
- · ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Solar charging control is installed weather-protected in the device - easy charging of different types of rechargeable batteries
- · Microprocessor control
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001

★ ★ farmer® ABN30 (farmer ABN4)



Type of animal:





In acc. with CEE - 9,500 m Without vegetation - 5,500 m Netting - 2 x 50 m

Input: • 0.4 J Max. output:

• 0.3 J

Energy consumption:

• 9 V: 28 - 36 mA • 12 V: 24 - 28 mA

Max. voltage: Voltage 500 Ω:

 10.000 V - 3,200 V

Dimensions (L x W x H): • 17.5 x 24.8 x 31.9 cm Scope of delivery:

· Pasture fence energiser, earth stake (double spike approx. 17 cm), fence and

earth connection cable

Art. No.	Unit	Price €
10891	F	229.00

Product information & features:

✓ www.horizont.com/10891

Recommended accessories:

- 12 V rechargeable battery super fleece with 34 Ah (14501, p. 77) ≥ Service life: 50-59 days* or 9 V alkaline battery with 150 Ah (14057E, p. 76) ≥ Service 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

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



Rechargeable battery/Solar unit

farmer®



Robust plastic solar panel

- · Environmentally friendly use of solar energy
- Compact unit of electric fence device and solar panel

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (ABS)
- · Material is UV resistant, splash-proof and oil-resistant

ON/OFF switch & Energy Control

- · 3-stage LED control display for capacity and function of battery or rechargeable battery
- · Shows the activity of the device
- · Flashes in time with the pulse output

Ergonomic carrying handle

· Easy transfer possible with one hand

Rear view



Earth output

Fence output

Energy source

Possibilities of energy supply for this device:



Special features

- ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Solar charging control is installed weather-protected in the device - easy charging of different types of rechargeable batteries
- · Microprocessor control



Plug-in profile for earthing rod in housing



230 V charging socket to keep the integrated 12 V battery charged



Twist lock on the back to open the housing



Inclined front for easy alignment of solar panel to the sun

· Charge the battery before starting up!

Application area

· Ideal for calm grazing animals and normal operating conditions

★ ★ farmer® AS50



Type of animal:





In acc. with CEE - 18,000 m Without vegetation - 16,000 m

Input:

• 0.65 J

Max. output:

• 0.5 J Energy consumption: • 20 - 50 mA

Max. voltage:

• 11,000 V

Voltage 500 Ω:

• 3.600 V

Scope of delivery:

Dimensions (L x W x H): • 23.1 x 37.4 x 32.0 cm

· Pasture fence energiser, power supply unit, 12 V rechargeable battery, 10 W solar panel, fence and earth

connection cable

Art. No.	Unit	Price €
14485	A	339.00

Product information & features:



Recommended accessories:

- Earth stake 1 x 1 m (14041-1, p. 92)
- Fence tester farmer (14495C, p. 99)
- · Warning sign, international (14127, p. 101)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



Earth stake (14041-1, p. 92), fence tester farmer (14495C, p. 99), warning sign, international (14127, p. 101)





Power supply unit hotshock®



Impulse Control (cycle sequence monitoring)

· Lights up when the device drops below the power limit- disrupted operation

Average fence output

• For paddocks and small pastures (output < 1 J)

Strong fence output

· For large pastures

Earth output

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

Power Control

- · Shows the activity of the device
- · Flashes in time with the pulse output

Energy source

Possibilities of energy supply for this device:



230 V №

Special features

- Two fence exits for operating one large and one small pasture or paddock
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting

Ventilation



Application area

- · Ideal for robust, long-haired or feathered animals and for wildlife deterrent
- · Suitable for difficult deterrent situations

★★ hotshock® N500 (hotshock N50)



Type of animal:





In acc. with CEE - 120,000 m

• 6 J Input: Max. output: •5 J Energy consumption: • 8 W Max. voltage: • 9,500 V Voltage 500 Ω: • 6,000 V

Dimensions (L x W x H): • 9.9 x 22.8 x 28.4 cm

Scope of delivery:

· Fence energiser, mains plug, dowels and

screws

10614

Art. No. Price €

耐

299.00

Product information & features:

www.horizont.com/10614

Recommended accessories:

- Earth stake 2 x 1 m (14041-1, p. 92)
- Fence connection kit (15522C, p. 96)
- · Lightning protection choke (15482,
- p. 95)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



Earth stake (14041-1, p. 92), fence connection kit (15522C, p. 96), lightning protection choke (15482, p. 95)

PREMIUM QUALITY MADE IN GERMANY

Rechargeable battery unit hotshock®



Energy Control

· LED control display for rechargeable battery capacity and function

Fence output

· For large pastures

Earth output

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

Power Control

- · Shows the activity of the device
- · Flashes in time with the pulse output

Energy source

Possibilities of energy supply for this device:



Special features

- · Automatic switch-over in solar operation
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



Application area

- · Ideal for robust, long-haired or feathered animals and for wildlife deterrent
- · Suitable for difficult deterrent situations

★ ★ hotshock® A90 (hotshock A15)



Type of animal:





In acc. with CEE - 30,000 m Without vegetation - 9,000 m Netting - 6 x 50 m

Input: • 1.6 J Max. output: • 0.9 J • 90 mA **Energy consumption:** Max. voltage: • 10,600 V

Voltage 500 Ω : Dimensions (L x W x H): • 9.0 x 19.0 x 23.3 cm

• 4,100 V

Scope of delivery:

· Pasture fence energiser, fence, earth and rechargeable battery connection cable

Art. No.	Unit	Price €
10638		199.00

Product information & features:

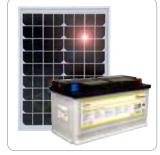
www.horizont.com/10638

Recommended accessories

- 12 V rechargeable battery special with 88 Ah (14125, p. 77) ≥ Service life: 40 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 10 W (140631, p. 82)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



12 V rechargeable battery special with 88 Ah (14125, p. 77) and solar panel 10 W (140631, p. 82)



PREMIUM QUALITY

MADE IN GERMANY

Rechargeable battery unit

hotshock®



Energy Control

· LED control display for rechargeable battery capacity and function

Average fence output

• For paddocks and small pastures (output < 1 J)

Strong fence output

· For large pastures

Earth output

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

Energy source

Possibilities of energy supply for this device:



Application area

- · Ideal for robust, long-haired or feathered animals and for wildlife deterrent
- Suitable for difficult deterrent situations

Special features

- Two fence exits for operating one large and one small pasture or paddock
- · Automatic switch-over in solar operation
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting





ON /OFF switch

★★ hotshock® A300 (hotshock A50)



Type of animal:





Input: Max. output: • 3 J Energy consumption: • 340 mA Max. voltage: • 11,000 V Voltage 500 Ω: • 5,800 V

Dimensions (L x W x H): • 9.9 x 22.8 x 28.4 cm

Scope of delivery:

· Pasture fence energiser, fence, earth and rechargeable battery connection cable

Art. No.	Unit	Price €
10613	A	299.00

Product information & features:

www.horizont.com/10613

Recommended accessories:

- 12 V rechargeable battery special with 100 Ah (14126, p. 77) ≥ Service life: 12 days*
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 20 W (14480, p. 84) or 1 x 30 W (14537, p. 85)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



12 V rechargeable battery special with 100 Ah (14126,

MADE IN GERMANY

Rechargeable battery/battery/power supply unit

hotshock®



Ergonomic carrying handle

- · Carrying ease thanks to soft grip padding
- · Easy transfer possible with one hand

Mounting device for solar panel

- · Easy attachment of the solar panel to the mounting device
- · 4 different setting angles and a transport position of the solar panel possible



Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant
- · Housing holds rechargeable batteries with a capacity up to 34 Ah and batteries up to 200 Ah

ON/OFF switch & Energy Control

- 3-stage LED control display for capacity and function of battery or rechargeable battery
- · Shows the activity of the device
- · Flashes in time with the pulse output

Side view



Fence output

Earth output

Energy source

Possibilities of energy supply for this device:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Application area

- · Ideal for robust, long-haired or feathered animals and for wildlife deterrent
- · Suitable for difficult deterrent situations

Special features

- · Plug-in profile for earthing rod in housing
- · Top and bottom part are connected by hinge
- · Housing can be secured with a padlock
- · Retaining plate inside provides firm stability for accumulators and batteries
- · Multioptional storage compartment for power supply unit when not in use
- · Intelligent cable routing prevents pinched cables and runs from inside the device to the solar panel
- · ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Solar charging control is installed weather-protected in the device - easy charging of different types of rechargeable batteries
- Microprocessor control
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001

★★ hotshock® ABN37 (hotshock ABN5)



Type of animal:





In acc. with CEE - 10,000 m Without vegetation - 6,000 m Netting - 3 x 50 m

Input: Max. output: • 0.5 J • 0.37 J

Energy consumption: • 9 V: 47 mA

• 12 V: 35 mA

Max. voltage:

• 13,000 V

Voltage 500 Ω :

3.800 V

Dimensions (L x W x H): • 17.5 x 24.8 x 31.9 cm Scope of delivery:

· Pasture fence energiser, earth stake (double spike approx. 17 cm), fence

connection cable

Art. No. Price € 10892 299.00

Product information & features:

www.horizont.com/10892

Recommended accessories:

- 12 V rechargeable battery super fleece with 34 Ah (14501, p. 77) ≥ Service life: 40 days* or 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Service life: 150 days3
- 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

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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





Power supply units



sequence monitoring)

· Lights up when the device drops below the power limitdisrupted operation

Average fence output

· For paddocks and small pastures (output < 1 J)

Strong fence output

· For large pastures

Earth output

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality
- · Material is UV resistant, splash-proof and oil-resistant

Control display

- Voltage display: 6-step display to check the fence voltage
- · Earthing control: Display for checking the earthing

Energy source

Possibilities of energy supply for these devices:



230 V №

Special features

- Two fence exits for operating one large and one small pasture or paddock
- · Straightforward and visual information display easy remote monitoring possible
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

Application area

- · For exacting demands and dry soil conditions
- · Suitable for grazing animals like cattle and horses



Power supply units

★★★ ranger® N270 (ranger N40)







Type of animal:

MARKAN

MATARA

In acc. with CEE - 60,000 m Without vegetation - 20,000 m Netting - 12 x 50 m

In acc. with CEE - 100,000 m Without vegetation - 40,000 m Netting - 16 x 50 m

- Input:
- Max. output: **Energy consumption:**
- Max. voltage: Voltage 500 Ω:
- Dimensions (L x W x H): Scope of delivery:
- 3.4 J • 2.7 J
- 5 W
- 13,500 V
- 5,600 V
- 9.9 x 22.8 x 28.4 cm
- · Fence energiser, mains plug, dowels and
- 6 J • 4.2 J
- 7 W
- 9,300 V
- 4,500 V
- 9.9 x 22.8 x 28.4 cm
- · Fence energiser, mains plug, dowels and screws

Art. No. Unit Price €	10608	A	285.00
	Art. No.	Unit	Price €

Art. No.	Unit	Price €
10742		355.00

Product information & features:

www.horizont.com/10608

☑ www.horizont.com/10742

Recommended accessories:

- Earth stake 2 x 1 m (14041-1, p. 92)
- Lightning protection choke (15482,
- Fence connection kit (15522C, p. 96)
- · Warning sign, international (14127, p. 101)
- Underground cable (15321, p. 94)
- Earth stake 2 x 1 m (14041-1, p. 92)
- Lightning protection choke (15482,
- Fence connection kit (15522C, p. 96)
- · Warning sign, international (14127, p. 101)
- · Underground cable (15321, p. 94)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



Earth stake (14041-1, p. 92)



Lightning protection choke (15482, p. 95)



Fence connection kit (15522C, p. 96)



Rechargeable battery/power supply units



Average fence output

· For paddocks and small pastures (output < 1 J)

Strong fence output

· For large pastures

Earth output

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

6 modes functions

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

LED control display

- Energy Control: 3-stage LED control display for capacity and function of battery or rechargeable battery
- · Impulse Control (cycle sequence monitoring): Lights up when the device is in disrupted operation
- · System Control (argutector display): Display at higher power consumption to
- · Voltage display: 6-step LED display to check the fence voltage

Energy source

Possibilities of energy supply for these devices:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Special features

- · Two fence exits for operating one large and one small pasture or paddock
- · Connection socket for the power supply unit at the back
- · Straightforward and visual information display easy remote monitoring possible
- · ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Microprocessor control
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



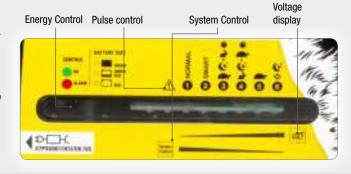
Ventilation slots to allow discharge of condensation water

Application area

- · For exacting demands and dry soil conditions
- · Suitable for grazing animals like cattle and horses

Safety advice

In 230 V operation, the device should and the power supply unit must be installed in a room protected from moisture.



PREMIUM QUALITY

MADE IN GERMANY

Rechargeable battery/power supply units

★ ★ * ranger® AN360

★★ * ranger® AN490



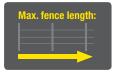


also available with himps app, see p. 60

Type of animal:

MARKAN





In acc. with CEE - 130,000 m Without vegetation - 45,000 m Netting - 12 x 50 m

In acc. with CEE - 130,000 m Without vegetation - 45,000 m Netting - 12 x 50 m

Input: Max. output: **Energy consumption:** Max. voltage: Voltage 500 Ω:

Dimensions (L x W x H):

Scope of delivery:

• 90 - 310 mA

• 12,500 V

· 4.6.J

• 3.6 J

• 6,000 V

• 9.9 x 22.8 x 28.4 cm

· Pasture fence energiser, power supply unit, fence, earth and rechargeable battery connection cable

Art. No.	Unit	Price €
10997	fil	349.00

- 6.5 J
- 4.9 J
- 95 450 mA
- 14,500 V
- 6,500 V
- 9.9 x 22.8 x 28.4 cm
- · Pasture fence energiser, power supply unit, fence, earth and rechargeable battery connection cable

Art. No.	Unit	Price €
10857		389.00

Product information & features:

www.horizont.com/10997

www.horizont.com/10857

Recommended accessories:

- 12 V special rechargeable battery with 100 Ah (14126, p. 77) ≥ Service life: 13-46 days*
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 30 W (14537, p. 85)
- 12 V rechargeable battery special with 100 Ah (14126, p. 77) ≥ Service life: 9-44 days*
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 50 W (14873, p. 85)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



Solar panel 30 W (14537, p. 85)



Solar panel 50 W (14873, p. 85)



Rechargeable battery/power supply units

'ange



Ergonomic carrying handle

- · Carrying ease thanks to soft grip padding
- · Easy transfer possible with one hand

Rotary potentiometer

• The output energy level (APN*) can be preselected on the rotary potentiometer (100% - 50%)

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC and PP)
- · Material is UV resistant, splashproof and oil-resistant
- · Housing holds rechargeable batteries and batteries with a size up to 265 x 142 x 225 mm

Energy source

Possibilities of energy supply for these devices:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Special features

- · Rechargeable battery or battery is integrated into the handy transport box where it is protected from the weather
- · Contact with the rechargeable battery or the acid is avoided during transport
- · ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Solar charging control is installed weather-protected in the device - easy charging of different types of rechargeable batteries
- · Microprocessor control
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Housing can be secured with a padlock



Device for attaching the appropriate solar panel to the back of the device cover

ON/OFF switch, menu pushbutton & Energy Control

6 modes functions

1. NORMAL: Normal pulse sequence 2. SMART: Normal pulse sequence APN*

- · LED control display for capacity and function of battery or rechargeable battery
- · Shows the activity of the device
- · Flashes in time with the pulse output

LED control display

· Impulse Control (cycle sequence monitoring): Lights up when the device is in disrupted operation

5. SLOW MODE: Slow pulse sequence APN* by day and at night

= additional energy savings, more efficiency, lower operating costs

3. DAY MODE: Normal pulse sequence APN* by day, slow pulse sequence at night 4. NIGHT MODE: Normal pulse sequence APN* at night, slow pulse sequence by day

6. ONLY NIGHT MODE: Normal pulse sequence APN* at night, no pulse sequence by day

- · System Control (argutector display): Display at higher power consumption to maintain power
- · Voltage display: 6-step LED display to check the fence voltage

Application area

- · For exacting demands and dry soil conditions
- · Suitable for grazing animals like cattle and horses





MADE IN GERMANY

Rechargeable battery/power supply units

★★★ ranger® AN2000 (ranger AN3000)



** * ranger® AN3000 (ranger AN5000)



★★★ ranger® AN4800 (ranger AN7000)



HAMMAN

In acc. with CEE - 130,000 m Without vegetation - 40,000 m Netting - 10 x 50 m



Type of animal:

Input:

Max. output:

Max. voltage:

Voltage 500 Ω :

Dimensions (L x W x H):

Scope of delivery:

In acc. with CEE - 50,000 m Without vegetation - 15,000 m Netting - 10 x 50 m

In acc. with CEE - 100,000 m Without vegetation - 20,000 m Netting - 10 x 50 m



- · 2.7 J • 2 J
- 9 V: 40 85 mA
- **Energy consumption:** • 12 V: 45 - 210 mA
 - 14,000 V
 - 4.500 V

Art. No.

10854

- 24.0 x 31.5 x 38.0 cm
- · Pasture fence energiser, earth stake (approx. 30 cm), fence connection cable

Unit

•	3.5	J
---	-----	---

- 9 V: 40 85 mA
- 12 V: 45 275 mA
- 14,700 V
- 5.200 V
- 24.0 x 31.5 x 38.0 cm
- · Pasture fence energiser, earth stake (approx. 30 cm), fence connection cable

7	Init Price €	
10992	₹ 409.00	

- 5.7 J
- 4.8 J
- 9 V: 40 85 mA
- 12 V: 95 450 mA
- 16,800 V
- 6.000 V
- 24.0 x 31.5 x 38.0 cm
- · Pasture fence energiser, earth stake (approx. 30 cm), fence connection cable

Art. No.	Unit	Price €
10993		449.00

www.horizont.com/10993

Product information & features:

www.horizont.com/10854

Price €

369.00

www.horizont.com/10992

Recommended accessories:

- 12 V rechargeable battery special with 85 Ah (14894, p. 77) ≥ Service life: 17-78 days* or 12 V rechargeable battery super fleece with 75 Ah (14479, p. 77) ≥ Service 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 (14480, p. 84) or 1 x 30 W (14539, p. 85)
- 12 V rechargeable battery special with 85 Ah (14894, p. 77) ≥ Service life: 13-78 days* or 12 V rechargeable battery super fleece with 75 Ah (14479, p. 77) ≥ Service life: 11-69 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 (14480, p. 84) or 1 x 30 W (14539, p. 85)
- 12 V rechargeable battery special with 85 Ah (14894, p. 77) ≥ Service life: 8-37 days* or 12 V rechargeable battery super fleece with 75 Ah (14479, p. 77)
- ≥ Service life: 7-33 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 (14539, p. 85) or 1 x 50 W (14873, p. 85)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



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



Solar panel 30 W (14539, p. 85)



Solar panel 50 W (14873, p. 85)





himps

App for fence energiser control

himps – the horizont Imps (brownies) monitor your electric fence and ensure the safety of your animals in the pasture around the clock. The innovative app notifies you when the fence voltage changes and automatically documents the fence status. The hard-working, tireless brownies not only make it easier for you to check and document the fence, but also transport important information from your fence energiser to your mobile phone, tablet or PC. This allows you to check and control many of the functions of your pasture fence energiser from the comfort of your own home or whilst under way.

To know the animals are safe at all times because the pasture fence system works. The horizont himps app monitors your fence 24 hours a day, 7 days a week - no matter where you are.

The advantages at a glance:

- The new horizont himps app, in conjunction with the ranger AN490 and ranger AN4800* horizont pasture fence energisers, enables 24/7 control and operation of the most important functions of a pasture fence via smartphone, tablet or PC.
- Regardless of where the livestock owner is located and how many fence systems are to be controlled. At the same time, the app triggers an alarm if safety is endangered, e.g. due to heavy vegetation or damage to the fence. The himps app can be downloaded free of charge from the App Stores and the horizont home page.
- The devices can be used with 230 volts on the mains or via a 12 volt rechargeable battery also in combination with a solar panel. Because the device has its own built-in SIM card, no local WiFi is required.
- No hidden costs all costs are included in the monthly fees (these may vary from country to country depending on your mobile network)
- No monthly costs are incurred in the 1st year of use! These will be covered by horizont during the introduction phase.





New freedoms in the control of your animals!





Download the app here:

✓ www.horizont.com/himps



How to use himps:

The himps app can be used in combination with the freely deployable ranger AN fence energiser to control the fence and adjust settings. At the same time the status of the fence system is documented. Protection against animal outbreaks is increased and the intrusion of wild animals, such as wolves, is significantly minimised.

This is what himps does:

The himps app enables comprehensive monitoring of a pasture fence. In addition to the minimum and maximum fence voltage, different voltage values and the quality of the fence insulation are constantly monitored. This also helps to detect problems with vegetation cover on the fence that cannot be registered using fence voltage monitoring alone. The fence thus becomes intelligent (smart) and reports automatically when the animals are no longer safe.

Payment models:

For subsequent data communication between the app version or the web interface to and from the pasture fence energisers, the following data usage models can be purchased via the app after the first free year:



Flat rate for 1 month (Pay per use): 15 € for 30 days * / **



Flat rate for 6 months:

79 € * / **



Flat rate for 12 months: **119 €** * / **







Reliable documentation:

The fence status is accurately documented with all its parameters. In the event of damage, the livestock owner must often prove that his fence was regularly inspected. The himps app documents the status of the fence on a daily basis and thus allows for easy verification.

Anti-theft security:

The himps app helps you to define a so-called "Geo-Fence" - a digital "fence" - around the device. If the pasture fence energiser moves out of this defined area, the livestock owner receives a message from the app directly on his smartphone. This immediately reveals any theft.

Rechargeable battery monitoring:

The app makes it very convenient to check the battery charge status at any time. The battery voltage fluctuates much more especially when using a solar panel. A lower warning threshold of the battery voltage gives you timely information about the battery's charge status.



^{*} After the included data volume has been used up, a further tariff can be purchased via Pay per use. All listed tariffs refer to a maximum data volume of 10 MB per month and are valid for Europe

^{**} himps is available in the following countries: EU countries, Switzerland, Norway and Iceland.

PREMIUM QUALITY

MADE IN GERMANY

Rechargeable battery/power supply unit



Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- Material is UV resistant, splash-proof and oil-resistant

ON /OFF switch & Menu pushbutton

Average fence output

• For paddocks and small pastures (output < 1 J)

Strong fence output

· For large pastures

Earth output

LED control display & 6 modes functions

· Explanation of the full range of functions see p. 54

Energy source

Possibilities of energy supply for this device:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Special features

· For all advantages and the full range of functions see p. 54

- · Pasture fence monitoring via himps app
- · Easily check many functions of your fence energiser from at home or on the road
- · Documentation of fence status
- · With alarm function
- · Download the app to your device from the App Store or from our website

Application area

- · For exacting demands and dry soil conditions
- · Suitable for grazing animals like cattle and horses



www.horizont.com/himps

★★★ ranger® AN490HIMPS (ranger AN70himps)



Type of animal:



In acc. with CEE - 130,000 m Without vegetation - 40,000 m Netting - 14 x 50 m

Input:

• 6.5 J

Max. output: Energy consumption: • 145 - 505 mA

• 4.9 J

Max. voltage: Voltage 500 Ω:

• 14,500 V • 6,500 V

Dimensions (L x W x H): • 9.9 x 22.8 x 28.4 cm

Scope of delivery:

· Pasture fence energiser, power supply unit, fence and rechargeable battery

connection cable

Art. No. Price € 10857HIMPS 699.00

Product information & features:

www.horizont.com/10857HIMPS

Recommended accessories:

- 12 V rechargeable battery special with 100 Ah (14126, p. 77) ≥ Service life: 8-28 days*
- 230 V power supply unit (47PSU0010EU, p. 79)
- Earth stake 2 x 1 m (14041-1, p. 92)
- Solar panel 1 x 50 W (14873, p. 85)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



12 V rechargeable battery special with 100 Ah (14126, p. 77) and solar panel 50 W (14873, p. 85)

MADE IN GERMANY

Rechargeable battery/power supply unit



himps + Dual

LED control display & 6 modes functions

· Explanation of the full range of functions see p. 56

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC and PP)
- · Material is UV resistant, splash-proof and oil-resistant
- · Housing holds rechargeable batteries and batteries with a size up to 265 x 142 x 225 mm

ON/OFF switch, menu pushbutton & Energy Control

- LED control display for capacity and function of battery or rechargeable battery
- · Shows the activity of the device
- · Flashes in time with the pulse output

Ergonomic carrying handle

- · Carrying ease thanks to soft grip padding
- · Easy transfer possible with one hand

Rear view



Earth output

Fence output

Energy source

Possibilities of energy supply for this device:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Special features

· For all advantages and the full range of functions see p. 56

himps

- · Pasture fence monitoring via himps app
- · Easily check many functions of your fence energiser from at home or on the road
- · Documentation of fence status
- · With alarm function
- · Download the app to your device from the App Store or from our website

Application area

- · For exacting demands and dry soil
- · Suitable for grazing animals like cattle and horses



★★★ ranger® AN4800HIMPS

(ranger AN7000himps)



Type of animal:





In acc. with CEE - 130,000 m

Input:

• 5.7 J • 4.8 J

Max. output: Energy consumption: • 145 - 505 mA

Max. voltage: Voltage 500 Ω:

• 16,800 V • 6,000 V

Dimensions (L x W x H): • 24.0 x 31.5 x 38.0 cm

Scope of delivery:

· Pasture fence energiser, earth stake (approx.

30 cm), fence connection cable

Art. No.	Unit	Price €
10993HIMPS	A	749.00

Product information & features:

www.horizont.com/10993HIMPS

Recommended accessories:

- · 12 V rechargeable battery special with 85 Ah (14894, p. 77) \geq Service life: 7-24 days* or 12 V rechargeable battery super fleece with 75 Ah (14479, p. 77) ≥ Service life: 6-21 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 (14539, p. 85) or 1 x 50 W (14873, p. 85)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



12 V rechargeable battery special with 85 Ah (14894, p. 77) and solar panel 50 W (14873, p. 85)



Download the app here: www.horizont.com/himps



Rechargeable battery/battery units

ranger®



Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant
- · Housing holds rechargeable batteries with a capacity up to 27 Ah and batteries up to 200 Ah

Mounting device for solar panel

- · Easy attachment of the solar panel to the mounting device
- · Attach the solar panel instead of the carrying handle

Carrying handle

- · Easy transfer possible with one hand
- · Carrying handle and fastener for housing and lid in one

Front view



Battery/rechargeable battery control key

Control display

- Energy Control: 2-stage LED control display for capacity and function of battery or rechargeable hattery
- System Control (argutector display): Display at higher power consumption to maintain power

ON /OFF switch

Energy source Possibilities of energy s

Possibilities of energy supply for these devices:



Special features

- Rechargeable battery or battery is integrated into the handy transport box where it is protected from the weather
- ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Automatic switch-over in solar operation
- · Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Secure closing mechanism – pull device down and push off handle



Fence output with cross hole for extra secure fastening



Specially designed mounting mechanism for attaching the solar panel

Application area

- For exacting demands and dry soil conditions
- \bullet Suitable for grazing animals like cattle and horses

Rear view



Fence output

Voltage display

 Control of earthing and fence voltage via LED display

Earth output

MADE IN GERMANY

Rechargeable battery/battery units

★★★ ranger® B29

(ranger B)



★★★ ranger® B65 (ranger B8)



MARTH

In acc. with CEE - 20,000 m

Without vegetation - 12,000 m

Type of animal:



In acc. with CEE - 9,000 m Without vegetation - 6,000 m

Input: Max. output:

Energy consumption:

Max. voltage: Voltage 500 Ω: Dimensions (L x W x H): Scope of delivery:

- 0.3 J
- 0.29 J
- 9 V: 15 35 mA
- 12 V: 12 28 mA
- 10,000 V
- 2,200 V
- 17.8 x 23.1 x 26.8 cm
- · Pasture fence energiser, earth stake (approx. 30 cm), fence connection cable

•	0.75	•
	0.65	

- 9 V: 10 70 mA
- 12 V: 20 90 mA
- 9,400 V
- 2,700 V
- 17.8 x 23.1 x 26.8 cm
- · Pasture fence energiser, earth stake (approx. 30 cm), fence connection cable

Art. No.	Unit	Price €
10555		269.00

Art. No.	Unit	Price €
10841		349.00

Product information & features:



Recommended accessories:

- 12 V rechargeable battery super fleece with 26 Ah (12025, p. 77) ≥ Service life: 38-90 days* or 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Service life: 202-472 days'
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (15264F, p. 81)

- www.horizont.com/10841
- 12 V rechargeable battery super fleece with 26 Ah (12025, p. 77) ≥ Service life: 12-54 days* or 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Service life: 101-708 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (15264F, p. 81)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



12 V rechargeable battery super fleece with 26 Ah (12025, p. 77)



9 V alkaline battery with 170 Ah (12012E,



Solar panel 2 W (15264F, p. 81)



MADE IN **GERMANY**



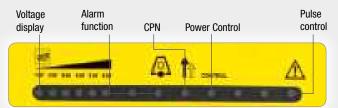
turbomax®



- Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

LED control display

- · Voltage display: 6-step LED display to check the earthing and fence voltage
- Alarm function: Optical and acoustic alarm when the voltage drops below 400 ohms, the fence should be checked for faults or damage
- 2-stage CPN technology: In the event of faults, higher energies are automatically fed into the fence (LED lights up red) after a safety margin of 55 seconds to ensure the safety of the herd
- · Power Control: Shows the activity of the device and flashes in time with the pulse output
- Impulse Control (cycle sequence monitoring): Lights up when the device is in disrupted operation



Energy source

Possibilities of energy supply for this device:



230V №

Application area

- Ideal for strong performance and highest demands
- Suitable for extremely long fences

Special features

- Straightforward and visual information display – remote monitoring possible
- · Exhaustive discharge cutoff
- Turbo effect: in the event of faults, the device emits a second pulse to ensure the safety of the herd

- turbomax technology: for fence loads > 500 ohms the device works with an enormously high energy potential to reliably supply the fence
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Hanging device for wall mounting



ON /OFF switch

★★★ turbomax® N1430 (horismart N280)



Type of animal:





In acc. with CEE - 320,000 m Without vegetation - 85,000 m Netting - 30 x 50 m

 Input:
 - 25 J

 Max. output:
 - 14.3 J

 Energy consumption:
 - 35 W

 Max. voltage:
 - 12,000 V

 Voltage 500 Ω:
 - 4,600 V

Dimensions (L x W x H): • 10.6 x 23.4 x 29.8 cm

Scope of delivery: • Pastur

· Pasture fence energiser, mains plug

Art. No.	Unit	Price €
10748	₽ File	699.00

Product information & features:

☑ www.horizont.com/10748

Recommended accessories:

- Earth stake 3 x 2 m (14542-1, p. 92)
- Large-capacity battery box (21264, p. 77)
- Fence tester turbomax (14151C, p. 100)
- Lightning protection choke (15482, p. 95)
- Warning sign, international (14127, p. 101)
- · Underground cable (15321, p. 94)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



Fence tester turbomax (14151C, p. 100), lightning protection choke (15482, p. 95)

Rechargeable battery/power supply unit

turbomax®



Side view



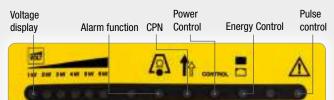
Fence output

Extremely robust housing

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splash-proof and oil-resistant

LED control display

- · Voltage display: 6-step LED display to check the earthing and fence voltage
- · Alarm function: Optical and acoustic alarm when the voltage drops below 400 ohms, the fence should be checked for faults or damage
- 2-stage CPN technology: In the event of faults, higher energies are automatically fed into the fence (LED lights up red) after a safety margin of 55 seconds to ensure the safety of
- Power Control: Shows the activity of the device and flashes in time with the pulse output
- Energy Control: LED control display for capacity and function of battery or rechargeable
- Impulse Control (cycle sequence monitoring): Lights up when the device is in disrupted operation



Energy source

Possibilities of energy supply for this device:



Dual devices

Dual devices can be connected in parallel to 230 V mains power and a 12 V rechargeable battery. Uninterrupted operation is guaranteed in the event of a power failure.



Application area

- · Ideal for strong performance and highest demands
- · Suitable for extremely long fences

Special features

- · With hanging device for wall mounting
- · ON/OFF switch integrated on the side
- · Connection socket for the power supply unit on the underside
- · Straightforward and visual information display - remote monitoring possible
- · Exhaustive discharge cutoff
- · Turbo effect: in the event of faults, the device emits a second pulse to ensure the safety of the herd
- turbomax technology: for fence loads > 500 ohms the device works with an enormously high energy potential to reliably supply the fence
- · Automatic switch-over in solar operation
- · Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001

★★★ turbomax® AN800 (turbomax AN160)



Type of animal:





In acc. with CEE - 180,000 m

Input:

• 12 J

Max. output: •8J

Energy consumption: • 500 - 1,200 mA

Max. voltage: Voltage 500 Ω:

· 12,000 V • 4,400 V

Dimensions (L x W x H): • 10.6 x 23.4 x 29.8 cm

Scope of delivery:

· Pasture fence energiser, mains plug, rechargeable battery connection cable

Art. No.	Unit	Price €
10749	A	595.00

Product information & features:

www.horizont.com/10749

Recommended accessories:

- · 12 V rechargeable battery special with 230 Ah (25012B, p. 77) \geq Service life: 8-19 days*
- Earth stake 3 x 2 m (14542-1, p. 92)
- Solar panel 1 x 50 W (14873, p. 85)
- · Large-capacity battery box (21264, p. 77)
- · Warning sign, international (14127, p. 101)
- · Underground cable (15321, p. 94)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



12 V rechargeable battery special with 230 Ah (25012B, p. 77) and solar panel 50 W (14873, p. 85)



PREMIUM QUALITY

MADE IN GERMANY

Rechargeable battery/battery unit

turbomax®



Front and rear view, see p. 62

Extremely robust housing

years

- · Particularly impact-resistant housing through use of high-quality plastics (PC)
- · Material is UV resistant, splashproof and oil-resistant
- · Housing holds all horizont 9 V alkaline batteries

Mounting device for solar panel

- · Easy attachment of the solar panel to the mounting device
- · Attach the solar panel instead of the carrying handle

Carrying handle

- · Easy transfer possible with one hand
- · Carrying handle and fastener for housing and lid in one

Energy source

Possibilities of energy supply for this device:



Application area

- · Ideal for strong performance and highest demands
- · Suitable for extremely long fences

Special features

- · Rechargeable battery or battery is integrated into the handy transport box where it is protected from the weather
- ECO Power: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- · Fully automatic adjustment of the power to the fence status - no further adjustments necessary
- · Turbo effect: in the event of faults, the device emits a second pulse to ensure the safety of the herd
- · Automatic switch-over in solar operation
- · Microprocessor control
- · Tested and built according to the applicable EU directives and the safety standard EN60335-7-76 and DIN EN ISO 9001



Secure closing mechanism - pull device down and push off handle



Fence output with cross hole for extra secure fastening



Specially designed mounting mechanism for attaching the solar panel

★★★ turbomax® B27 (turbostar B)



Type of animal:





In acc. with CEE - 10,000 m

· 0.4 J Input: • 0.27 J Max. output:

Energy consumption: • 9 V: 10 - 40 mA

• 12 V: 10 - 50 mA Max. voltage: • 9,000 V Voltage 500 Ω : 4,400 V

Dimensions (L x W x H): • 17.8 x 23.1 x 26.8 cm

Scope of delivery:

· Pasture fence energiser, earth stake (approx. 30 cm), fence and earth connection cable

Art. No. Price € 419.00 10285

Product information & features:

www.horizont.com/10285

Recommended accessories:

- 12 V rechargeable battery super fleece with 26 Ah (12025, p. 77) ≥ Service life: 21-108 days* or 9 V alkaline battery with 170 Ah (12012E, p. 76) ≥ Service life: 177-708 days*
- Earth stake 1 x 1 m (14041-1, p. 92)
- Solar panel 1 x 2 W (15264F, p. 81)

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



9 V alkaline battery with 170 Ah (12012E, p. 76) and solar panel 2 W (15264F, p. 81)

PREMIUM QUALITY MADE IN GERMANY

horizont special solutions for you

If you have any questions, contact the competent horizont employees who will assist you in professionally realising your project. horizont cooperates with many well-known specialists in this field who offer individual and complete solutions for problems on site.

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

Energy source

Possibilities of energy supply for these devices:



Both devices are extremely robust housings made of particularly high-quality plastic (PC). Material is UV resistant, splash-proof and oil-resistant.

stallmaster

- · Specially developed pulse generator where the output values are adapted to stable applications (cow trainer)
- · If there is a longer contact with the animal, the device switches off after 4-5 pulses. The device is restarted by removing the mains plug from the socket for a few seconds before plugging it back in.
- · Approved by the German Federal Veterinary Office (BVET)

scout N2

- The problem: From a hygienic perspective, city pigeons are classified as pests. An average of 10 to 12 kg of wet droppings are produced per year per pigeon. The pigeon droppings corrode building materials such as sandstone, concrete, aluminium, steel, marble and brick. The droppings infiltrate the material and slowly erode it. Regardless of the damage, pigeon droppings make the object look unsightly and neglected. Pigeons can also be carriers of pathogens. In addition, pigeon nests are infested with a variety of vermin such as ticks and fleas, which can also spread to homes.
- · The solution: The most effective method of keeping pigeons away 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 profiles to suit building conditions. The electrical conductors and connecting elements are made of special alloys and generate low resistance even for long installation distances.
- · Special device, only for use as pigeon deterrent
- · Particularly strong radio interference suppression for trouble-free operation of electrical equipment in buildings

Power supply units

stallmaster





scout N2



Type of animal:

Max. output:

Energy consumption: Max. voltage:

Dimensions (L x W 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
- · Pasture fence energiser, mains plug, screws, dowels

Art. No.	Unit	Price €
10430		229.00

www.horizont.com/10430

- 0.45 J
- 0.35 J
- 2 W • 4.300 V
- 6.7 x 23.0 x 19.1 cm
- · Pasture fence energiser, mains plug, screws, dowels

10407	₽	285.00
Art. No.	Unit	Price €



Recommended accessories:

- · Underground cable (15321, p. 94)
- Earth stake 1 x 1 m (14041-1, p. 92)
- · Underground cable (15321, p. 94)
- · Lightning protection choke 2 x (15482, p. 95)

Complete solution for deterring pigeons



The problem



The solution

67

Selected accessories

Find matching accessories for your horizont fence energiser in the comprehensive horizont range here in the catalogue or on the horizont website under the corresponding article number.



Underground cable (15321, p. 94), earth stake (14041-1, p. 92), lightning protection choke (15482, p. 95)





03 ENERGY SUPPLY

Before the pasture fence system can be put into operation to protect animals, the fence must be energised. There are a number of things to consider when choosing the right energy supply. A power supply for power supply units is always ensured by connecting them to a mains. For battery-powered devices, it is important to select the correct battery or rechargeable battery for the corresponding pasture fence energiser. A supportive and, above all, sustainable use of solar panels is possible in order to guarantee the longest possible energy supply.

PRODUCT RANGE

Adviser Things to know about energy supply	
Product guide The practical overview to help you quickly find the right source of energy for your pasture fence energiser	p. 72
Dry and block batteries	p. 70
Rechargeable batteries and accessories	p. 77
Chargers and power supply units	p. 79
Transport and safety boxes	p. 80
Solar solutions	p. 80
Solar mounts	p. 80

Things to know about

ENERGY SUPPLY

Before the pasture fence system can be put into operation to protect animals, the fence must be energised by means of a power supply. There are a number of things to consider when choosing the right energy supply. A power supply for power supply units is always ensured by connecting them to a mains. For battery-powered devices, it is important to select the correct battery or rechargeable battery for the corresponding pasture fence energiser. A supportive and, above all, sustainable use of solar panels is possible in order to guarantee the longest possible energy supply.

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

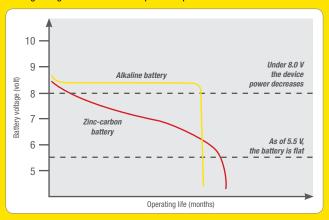
There are two different battery versions. Alkaline batteries on the one hand (socalled air-oxygen batteries) and zinc-carbon batteries on the other. Both battery versions supplied by horizont are free of mercury and cadmium and therefore very ecologically friendly.

Alkaline battery:

The special thing about alkaline batteries is the voltage curve. These batteries maintain a consistently high voltage for most of their operating life (see yellow curve in the graph below), thus guaranteeing a high level of herding safety over the period of use — even when using powerful battery units.

Zinc-carbon battery:

The voltage curve of zinc-carbon batteries continuously decreases throughout the operating life (see red curve in the graph below). As of a battery voltage of approx. 5.5 V, batteries are flat and must be replaced. Less powerful devices are operated with a zinc-carbon battery. The steady voltage drop does not affect the important herding voltage in the fence at low power requirements.





The alkaline battery is only activated when it comes into contact with oxygen. Before connecting to the pasture fence energiser, it is essential to completely remove the sticker on the lid of the alkaline battery to activate the oxygen contact.

Tips

- \bullet Batteries cannot be recharged: if your battery has a voltage of 5.5 V, it is flat and should be disposed of each horizont battery
- can be stored for up to two years without any significant loss of capacity
- Each horizont battery is fitted with connecting cables no additional accessories are required for connection to the pasture fence energiser
- Charge your special or super fleece battery only with regulated chargers to guarantee a long service life you will find optimal accessories base p. 70.
- · Make sure that the rechargeable battery is well ventilated

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

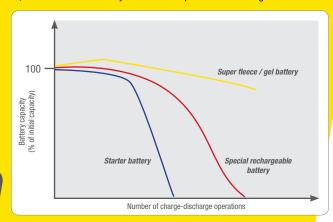
horizont recommends the use of super fleece rechargeable batteries or special rechargeable batteries for pasture fence energisers. Common car starter batteries (accumulators) are at a decisive disadvantage for use with fence energisers due to a high self-discharge rate. In addition, they are only resistant to cycles to a limited extent, i.e. they maintain significantly fewer charge-discharge processes.

Super fleece rechargeable battery:

The horizont super fleece rechargeable batteries for 12 V pasture fence energisers are maintenance-free and can be used in any location. They have low self-discharge and very good cycle stability. Super fleece batteries are completely sealed, preventing any leakage of liquids. In addition, the silicic acid inside is bound in fleece. There is also no need to refill battery acid. The position of the rechargeable battery whether horizontal or vertical is irrelevant during transport and operation. Additional connecting cables do not need to be ordered for connecting a horizont super-fleece rechargeable battery; these are already included in the delivery.

Special rechargeable battery:

The special batteries from horizont are pre-charged dry and must be filled with standard battery acid before use. We recommend checking the acid level every four weeks. You can tell how high the acid level is by the min. and max. markings directly on the battery. The rechargeable battery should be fully charged once before use, after which it can be easily connected to your pasture fence energiser. The poles of your special rechargeable batteries should always be protected against the weather to promote operating life and prevent unwanted discharging. It is best to place your battery on a firm and level surface. For example, we recommend using a large-capacity battery transport box (p. 77). This box can even accommodate your pasture fence energiser; it can also be locked to protect the battery and pasture fence energiser from theft. No additional connecting cables are required to connect your rechargeable battery to your pasture fence energiser; these are located directly on the horizon pasture fence energiser.



3. Solar

Today, electricity is increasingly being generated with photovoltaics, which is a way of doing good not only for oneself but also for the environment. After all, generating electricity with a solar installation saves fossil fuels. Ultimately everyone can positively influence the ecological footprint. It is this very point of sustainability and environmental compatibility that can also be transferred to the additional use of horizont solar panels in conjunction with pasture fence energisers.

All 50-watt solar panels from horizont have a practical charge controller which automatically adjusts the voltage to prevent damage to the pasture fence energiser and rechargeable battery. The horizont range also includes other solar panels with different wattages. These solar panels have no integrated charge controller. This is built into the device or is not required with the correct combination of solar panel and special rechargeable battery.

Correct use of the solar panel:



Alignment angle 45 degrees





No overshadowing from trees

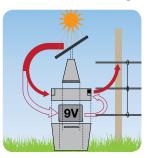
rees No soiling or vegetatio

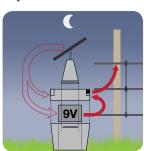
To check your rechargeable battery, first disconnect the solar panel and wait for 15 minutes before measuring the voltage on the rechargeable battery. This ensures that you will measure the actual power of the rechargeable battery – without the support of the solar panel. If you measure the rechargeable battery power in the dark, the solar panel can remain connected.

Your rechargeable battery can be charged via the solar panel. A regulated charger should, however, be used to charge the battery for the first time - before it is put into operation or before the grazing season begins (p. 79). You can never operate a pasture fence energiser solely with a solar panel. You must always connect a battery or rechargeable battery as a buffer. Every 9 V and 12 V device from horizont can also be operated with a solar panel.



4. Commissioning a solar panel





Operation of a pasture fence energiser with solar panel and battery:

- The pasture fence energiser can be operated during the day with sufficient sunlight via the solar panel
- \bullet Operation of the pasture fence energiser at night via a connected 9 V battery
- · Caution: The battery is not charged via the solar panel!





Operation of a pasture fence energiser with solar panel and rechargeable battery:

- Operation of the pasture fence energiser during the day with sufficient solar radiation via the solar panel and simultaneous charging of the connected 12 V rechargeable battery
- Operation of the pasture fence energiser at night via the connected 12 V rechargeable battery

Photovoltaic cells collect sunlight and convert it into electrical energy

The charging regulator integrated in the pasture fence energiser protects against possible overcharging as needed

The electrical pulse is conducted to the fence via the connecting cable

The rechargeable battery stores the generated energy



ENERGY SUPPLY

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

Pasture fence energiser Energy Solar panel Accessories			Accessories	
	Rechargeable battery	Battery		Mount
trapper® AN45 10867, p. 33	*** 12 V special 63 Ah 14124, p. 77		★★ Solar panel 10 watts 140631, p. 82	Mount with spiked post 14923, p. 86
trapper® AN80 10866, p. 33	*** 12 V special 88 Ah 14125, p. 77		Solar panel 20 watts 140631, p. 82 *** Solar panel 20 watts 14536, p. 84	Mount with spiked post 14923, p. 86
trapper® AN120 10865, p. 33	12 V special 100 Ah 14126, p. 77		Solar panel 10 watts 140641, p. 81 *** Solar panel 20 watts 14536, p. 84	Mount with spiked post 14923, p. 86
trapper® B12 / B22 10616 / 10620, p. 35	*** 12 V Super fleece 12 Ah 15842, p. 77	9 V alkaline battery 120 Ah 15844E, p. 76	Solar panel 2 watts 60140, p. 80	
* trapper® AB12 14497, p. 36	*** 12 V Super fleece 12 Ah 15842, p. 77	*** 6 V block battery 230502E, p. 76	*** Solar panel 2.5 watts 14541C, p. 81	
** farmer® ABN30 10891, p. 46	*** 12 V Super fleece 34 Ah 14501, p. 77	9 V alkaline battery 170 Ah 12012E, p. 76	Solar panel 5 watts 14499, p. 81	







Pasture fence energiser	Ener	r gy Battery	Solar panel	A Mount	ccessories Transport / Security box
farmer® AN100 10896, p. 43	*** 12 V special 88 Ah 14125, p. 77		*★ Solar panel 10 watts 140631, p. 82 ** Solar panel 20 watts 14536, p. 84	*** Mount 14143, p. 86	*** Security box 14129 / 14444, p. 80
farmer® AN200 / AN300 10897 / 10882, p. 43	12 V special 100 Ah 14126, p. 77		Solar panel 10 watts 140631, p. 82	*** Mount 14143, p. 86	*** Security box 14129 / 14444, p. 80
farmer® AN1000 / AN1000Solar 10855 / 10856, p. 45	12 V special 88 Ah 14125, p. 77 *** 12 V Super fleece 75 Ah 14479, p. 77		** Solar panel 10 watts 14463, p. 83		
hotshock® A90 10638, p. 48	*** 12 V special 88 Ah 14125, p. 77		** Solar panel 10 watts 140631, p. 82	**★ Mount 14143, p. 86	*** Security box 14129 / 14444, p. 80
hotshock® A300 10613, p. 50	*** 12 V special 100 Ah 14126, p. 77		Solar panel 20 watts 14480, p. 84 *** Solar panel 30 watts 14537, p. 85	*** Mount 14143, p. 86	*** Security box 14129 / 14444, p. 80
hotshock® ABN37 10892, p. 51	*** 12 V Super fleece 34 Ah 14501, p. 77	9 V alkaline battery 170 Ah 12012E, p. 76	** Solar panel 10 watts 14511, p. 81		

ENERGY SUPPLY

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

Pasture fence energiser	Ene	rqy	Pasture fence energiser Energy Solar panel Accessories								
	Rechargeable battery	Battery		Mount	Transport / Security box						
ranger® AN360 10997, p. 55	*** 12 V special 100 Ah 14126, p. 77		★★★ Solar panel 30 watts 14537, p. 85	*** Mount 14143, p. 86	Security box 14129 / 14444, p. 80						
ranger® AN490 / AN490HIMPS 10857 / 10857HIMPS, p. 55	12 V special 100 Ah 14126, p. 77		Solar panel 50 watts 14873, p. 85	Mount 14143, p. 86	*** Security box 14129 / 14444, p. 80						
*** ranger® B29 / B65 10555 / 10841, p. 63	12 V Super fleece 26 Ah 12025, p. 77	9 V alkaline battery 170 Ah 12012E, p. 76	Solar panel 2 watts 15264F, p. 81								
*** ranger® AN2000 / AN3000 10854 / 10992, p. 57	12 V special 85 Ah 14894, p. 77 *** 12 V Super fleece 75 Ah 14479, p. 77		Solar panel 20 watts 14480, p. 84 ** Solar panel 30 watts 14539, p. 85								
*** ranger® AN4800 / AN4800HIMPS 10993 / 10993HIMPS, p. 57	*** 12 V special 85 Ah 14894, p. 77 *** 12 V Super fleece 75 Ah 14479, p. 77		★★★ Solar panel 30 watts 14539, p. 85 ★★★ Solar panel 50 watts 14873, p. 85								
turbomax® AN800 10749, p. 65	*** 12 V special 230 Ah 25012B, p. 77		★★★ Solar panel 50 watts 14873, p. 85	*** Mount 14143, p. 86	Rechargeable battery box 21264, p. 77						
turbomax® B27 10285, p. 66	***	9 V alkaline battery 170 Ah 12012E, p. 76	Solar panel 2 watts 15264F, p. 81								





9 V alkaline battery *** turbomax®

Advantage:

· All 9 V pasture fence battery units

• High voltage curve throughout the entire operating life

ensures optimum device function

Storage: • Up to two years

Disposal: • Included in price

Distinguished

The Danish magazine "Grene Kramp" conducted a thorough test of various manufacturers and checked their capacities.

The best and most definite results were achieved with the alkaline batteries of the turbomax® series from norizont.

After 50 days the horizont batteries still had an impressive voltage of 7.5 volts.

Art. No.	Designation	Power	Width	Height	Depth	Unit	Price €
14896E	turbomax® AB200	9 V / 200 Ah	12.5 cm	16.0 cm	19.0 cm	1	47.95
12012E	turbomax® AB170	9 V / 170 Ah	12.5 cm	16.0 cm	19.0 cm	1	39.95
12012PE	turbomax® AB170	9 V / 170 Ah	12.5 cm	16.0 cm	19.0 cm	45	1699.00
14057E	turbomax® AB150	9 V / 150 Ah	11.0 cm	11.5 cm	16.5 cm	1	34.95
15844E	turbomax® AB120	9 V / 120 Ah	11.0 cm	11.5 cm	16.5 cm	1	32.95
15509E	turbomax® AB75	9 V / 75 Ah	11.0 cm	11.5 cm	16.5 cm	1	24.75
15848E	turbomax® AB55	9 V / 55 Ah	11.0 cm	11.5 cm	16.5 cm	1	20.99

www.horizont.com/Art. no.



www.horizont.com/Art. no.

9 V zinc-carbon battery *** ranger®

Suitable for:

• 9 V pasture fence battery units – except ranger $^{\! @}$ B65

(10841

Advantage:

• Inexpensive alternative to the common alkaline battery

Zinc-carbon batteries have a lower voltage curve throughout their entire operating life than alkaline batteries

Storage:

Up to two years

Disposal: • Included in price

Art. No.	Designation	Power	Width	Height	Depth	Unit	Price €
15004E	ranger® SB90	9 V / 90 Ah	12.5 cm	16.0 cm	19.0 cm	1	27.95
15034E	ranger® SB55	9 V / 55 Ah	11.0 cm	11.5 cm	16.5 cm	1	16.99



www.horizont.com/Art. no.

6 V block battery ***

Suitable for:

• pasture fence energiser trapper AB12 (14497, p. 36)

Power: Storage: Disposal: High load ratingUp to two years

osal: • Included in price

Art. No.	Designation		Width	Height	Depth	Unit	Price €
253967E	High-capacity battery	6 V / 7 Ah	6.5 cm	6.5 cm	11.0 cm	1	3.49
230502E	COMPACT	6 V / 50 Ah	6.5 cm	6.5 cm	11.0 cm	1	17.99

Tip

12 V rechargeable battery *** special

Suitable for: · All 12 V pasture fence energisers Advantage: Extremely low self-discharge

· High cycle stability

• Pre-charged dry - possible to send by mail

Storage: · Up to two years

· To avoid damage, please charge only with **Charging:**

recommended chargers (14684, 14863, p. 79)

Accessories: · Battery acid for refilling (14688, p. 78)



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	www.	horiz	ont.c	:om//	Art.	no.

Art. No.	Power	Acid capacity*	Capacity	Width	Height	Depth	Weight (without acid)	Unit	Price €
14124	12 V / 63 Ah	2.9 I	C20	24.6 cm	17.5 cm	19.0 cm	10 kg	1	139.00
14894	12 V / 85 Ah	3.9 I	C20	27.8 cm	17.5 cm	19.0 cm	13 kg	1	189.00
14125	12 V / 88 Ah	4.6 l	C20	35.3 cm	17.5 cm	19.0 cm	15 kg	1	159.00
14126	12 V / 100 Ah	5.3 l	C20	35.3 cm	17.5 cm	19.0 cm	17 kg	1	219.00
25012B	12 V / 230 Ah	Acid is included	C20	51.8 cm	29.1 cm	24.2 cm	67 kg (incl. acid)	1	509.00

* Acid not included in delivery

Distinguished

Pasture fence energisers need low current flows to function optimally. This is exactly the reason why common car starter batteries are not suitable for the operation of pasture fence energisers, as they are designed for a particularly large current flow. As a result of the low current flow required by the pasture fence energiser, car batteries would be subjected to high loads and their oper-

ating life shortened considerably. The 12 V special rechargeable battery from horizont is designed for this low current flow and is therefore optimally suited for the power supply of pasture fence energisers. It also guarantees an extremely long operating life.

12025



12 V rechargeable battery *** super fleece

Suitable for: • Type 15842 and 12025: 9 V pasture fence battery units

> • Type 14501: Pasture fence energisers hotshock® ABN37 (10892), farmer® ABN30 (10891)

• Type 14479: Fence energisers farmer® AN1000 (10855), ranger® AN2000 (10854), ranger® AN3000 (10992), ranger® AN4800 (10993),

ranger® AN4800HIMPS (10993HIMPS)

Advantage: · The horizont super fleece rechargeable batteries have an extremely low self-discharge. When not in use, regular recharging is neverthe-

less recommended, for example every 2 months.

Maintenance: · Maintenance-free · independent of location Storage:

Charging: · To avoid damage, please charge only with recommended chargers (14864, 14863, p. 79)

Scope of delivery: · Connecting cable super fleece rechargeable battery (90439C)

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		Shorizont	100	44.00
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		100 minum	ESS	
	15942			14479
	158/12			

www.horizont.com/Art. no.

Art. No.	Designation	Capacity	Width	Height	Depth	Unit	Price €
15842	12 V / 12 Ah	C20	15.0 cm	9.8 cm	9.5 cm	1	71.95
12025	12 V / 27 Ah	C20	17.5 cm	16.6 cm	12.5 cm	1	99.00
14501	12 V / 34 Ah	C20	19.5 cm	18.0 cm	16.5 cm	1	134.99
14479	12 V / 75 Ah	C20	26.0 cm	20.5 cm	17.0 cm	1	269.00



Rechargeable batteries should be stored at room temperature before and after each use and recharged at least every two months.

Large-capacitybattery box

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

· Can be locked with sufficient storage space for the pasture fence energiser and rechargeable battery

· Protection against weather and theft

Art. No.	Unit	Price €
21264	1	169.00



✓ www.horizont.com/21264



www.horizont.com/14688

Battery acid **

Suitable for: Filling:

- 12 V special rechargeable batteries
- Suitable for the first filling of dry pre-charged 12 V

special rechargeable batteries

• 37.5 % sulphuric acid

Art. No.	Unit	Price €
14688	11	6.49

Safe handling of 12 V special rechargeable



No smoking, no open flames no sparks



Keep away from children



Wear protective goggles



Observe operating instructions



Detailed information is available at:
www.horizont.com/SafeHandling

Rechargeable battery connecting cable **



- · Connection of rechargeable batteries
- Type 90501C: 9 V pasture fence energisers to 12 V special rechargeable batteries
- Type 90439C: 9 V fence energisers to super fleece rechargeable batteries
- Type 47BL1-2: Fence energisers trapper® AN

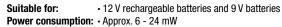
Art. No.	Designation	Unit	Price €
90501C	for 12 V special rechargeable battery, crocodile clips	1	16.99
47BL1-2	for trapper® AN devices	1	15.75
90439C	for super fleece rechargeable battery	1	8.49
47PLAS0237	Connection terminal, single, black	1	2.99
47PLAS0235	Connection terminal, single, red	1	2.99





www.horizont.com/Art. no.

Monitoring Battery Guard



Art. No.	Unit	Price €
14525	1	24.95



www.horizont.com/14525

Tip

With Battery Guard and the relevant app, simply check the charge status of rechargeable batteries and batteries via smartphone - using a practical Bluetooth connection. The apps are compatible as of iPhone 4S, Android 4.3 and Windows 10.



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 display

· Pulse/trickle/continuous charging • 230 V / 50 Hz operating voltage

Protection: Scope of delivery: · Dust and splash-proof

· Adapter cables with battery clamps

· Adapter cables with ring terminal end

· Adapter cables with connector for cigarette lighter

Art. No.	Unit	Price €
14863	1	77.95

Rechargeable battery charging times:

15482	12 Ah	4 hrs.
12025	27 Ah	6.5 hrs.
14479	34 Ah	10 hrs.
14124	63 Ah	14 hrs.
14125	88 Ah	21 hrs.
14126	100 Ah	23 hrs.



www.horizont.com/14863

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 display

· Pulse/trickle/continuous charging • 230 V / 50 Hz operating voltage

Protection:

· Protection against dust, splash water, overheating

and reverse polarity

Scope of delivery:

 Nylon bag Adapter cables with battery clamps

· Adapter cables with ring terminal end

· Adapter cables with connector for cigarette lighter

Rechargeable battery						
charging times:						
15482	12 Ah	4 hrs.				

Cital yill	y umico.	
15482	12 Ah	4 hrs.
12025	27 Ah	5 hrs.
14479	34 Ah	5 hrs.
14124	63 Ah	8 hrs.
14125	88 Ah	11 hrs.
14126	100 Ah	12 hrs.
25012B	230 Ah	29 hrs.



www.horizont.com/14864

Art. No.	Unit	Price €
14864	1	139.00

Distinguished

The charger Charge Box 3.5 - 7.0 A is particularly powerful. The charging process is extremely fast and yet gentle on the battery and charger, as the Charge Box itself selects the appropriate amperage when charging. Furthermore, two 12 V batteries can be charged at the same time.



Power supply unit ★★ 230 V for pasture fence energisers

Suitable for: • Dual and combination units (see Art. no. bottom)

Art. No.	Designation	Unit	Price €
47BCEU	trapper® AS: 14983, 14982, 14981, 14475	1	23.95
47PSU0008EU	trapper® AN: 10865, 10866, 10867	1	23.95
97921	farmer® AN (up to YOC 2013): 10637, 10636	1	23.95
47PSU0010FEU	ranger® AN: 10993, 10992, 10854 farmer® AN: 10855, 10856 farmer® ABN30: 10891 hotshock® ABN37: 10892	1	23.95
47PSU0010EU	ranger® AN: 10857, 10997, 10858 farmer® AN: 10896, 10897, 10882	1	23.95



Figure as example, shows 97921

www.horizont.com/Art. no.





☑ www.horizont.com/14529

Transport box ★ for 12 V devices

Suitable for:

• Pasture fence energisers of the series: trapper®,

farmer®, ranger®, hotshock® and turbomax®

• 12 V rechargeable batteries (p. 77)

Application: • Easy transport of the fence energiser and rechargeable

battery
• Galvanized

Material:

Accessories: • Solar module mount (14143, p. 86)

Art. No.	Length	Width	Height	Unit	Price €
14129	32.0 cm	30.0 cm	44.0 cm	1	55.95





☑ www.horizont.com/14444

Security box *** Electrifiable

Suitable for: • All AN pasture fence energisers with device for wall

mounting

Theft protection: • Can be locked and is electrifiable

· An unauthorised person who touches the box will

receive a deterring electric shock

• Only the owner of the security box can open the box

with an insulated key

Scope of delivery: • Security box Accessories: • Solar modu

Security box with two insulated keysSolar modules 10 to 50 watts

- Solar module mount (14143, p. 86)

Art. No.	Length	Width	Height	Unit	Price €
14444	27.3 cm	44.5 cm	53.0 cm	1	249.00





☑ www.horizont.com/60140

Solar kit ** 2 watts

Suitable for: • Pasture fence energiser: trapper® B12 (10616, p. 35),

trapper® B22 (10620, p. 35), older equiSTOP 9 V devices

Attachment:
Solar kit is simply pushed onto the recessed grip of the

pasture fence energiser

Charge controller: • Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser or is not

needed.

Material: • Solar panel: monocrystalline

• Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
60140	31.0 cm	18.5 cm	2.5 cm	1	59.99

Solar kit ** 2 watts

· Pasture fence battery units as of YOC 1981 of the series Suitable for:

ranger® and turbomax®

Attachment: · Solar kit is mounted directly to the carrying handle

which is only pushed on

Charge controller: Yes

· Can also be put into operation with pasture fence

energisers from other manufacturers

Material: · Solar panel: monocrystalline

• Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
15264F	31.0 cm	18.5 cm	2.5 cm	1	69.99





www.horizont.com/15264F

Solar kit *** 2.5 watts

Suitable for: • Pasture fence energiser trapper® AB12 (14497, p. 36) Attachment:

· Solar kit is pushed onto the top of the housing Charge controller: • Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser or is not

needed.

Material: · Solar panel: monocrystalline

· Frame and swivelling mount: Plastic

Art. No.	Length	Width	Height	Unit	Price €
14541C	25.5 cm	11 0 cm	1 0 cm	1	49 NN





www.horizont.com/14541C

Solar kit *** 5 and 10 watts

• Pasture fence energisers: hotshock® ABN37 (10892, Suitable for:

p. 51), farmer® ABN30 (10891, p. 46)

Attachment: · Solar kit is screwed to the side of the device by means

of an integrated mount in fixation points

Charge controller: · Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser or is not

needed.

Material: · Solar panel: monocrystalline

· Frame: Plastic

Scope of delivery: · Solar panel with screws for fastening to pasture fence

energiser







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

Commissioning

1. Option

The device works with module in parallel operation:

during the day directly via the solar moduleat night via a 9 V dry battery

2. Option

The device works with a super fleece rechargeable battery which is charged additionally via the solar module.





















www.horizont.com/141451

Solar module ** 5 watts

Suitable for:

Attachment:

• Older pasture fence energisers farmer®/ranger® A2000,

A3000

• 12 V special rechargeable batteries up to 63 Ah (p. 77)

• Installation on the device: with solar mount (14462, p. 86)

• Ground installation: with solar mount (14923, p. 86)

· Installation on transport or security box: with solar mount

(14907, p. 87 and 14192, p. 87)

Charge controller:

· Not required, as the charge controller is installed in the recommended horizont pasture fence energiser or is not

Material: · Solar panel: monocrystalline

· Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
141451	25.5 cm	29.6 cm	2.5 cm	1	59.99





www.horizont.com/14152

Solar module ** 5 watts with mount

Suitable for:

- Older pasture fence energisers farmer®/ranger® A1000,
- A2000, A3000
- Security box (14444, p. 80)
- 12 V special rechargeable batteries up to 63 Ah (p. 77)
- Transport box (14129, p. 80) in conjunction with the
- attachment device (14156, p. 87)

Attachment: Charge controller:

- · Solar kit is simply pushed into the attachment device
- · Not required, as the charge controller is installed in the recommended horizont pasture fence energiser or is not

Material: · Solar panel: monocrystalline

· Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
14152	25.5 cm	29.6 cm	2.5 cm	1	89.99





www.horizont.com/140631

Solar module ** 10 watts

Suitable for:

• Pasture fence energisers: hotshock® A90 (10638), farmer® AN 1000 (10855) and other 12 V devices

Rechargeable batteries up to 85 Ah

Attachment:

• Installation on the device: with solar mount (14462, p. 86)

· Ground installation: with solar mount (14923, p. 86)

· Installation on transport or security box: with solar mount

(14143, p. 86)

Charge controller:

Material:

· Not required, as the charge controller is installed in the recommended horizont pasture fence energiser or is not

· Solar panel: monocrystalline

· Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
140631	39.6 cm	29.6 cm	2.5 cm	1	119.00

Solar module *** 10 watts with mount

Suitable for: • Pasture fence energiser farmer® AN 1000

· Rechargeable batteries up to 85 Ah

• Installation on the device: with solar mount (14462, p. 86) Attachment:

• Ground installation: with solar mount (14923, p. 86)

• Installation on transport or security box: with solar mount

(14143, p. 86)

Charge controller: • Not required, as the charge controller is installed in the recommended horizont pasture fence energiser or is not

Material: · Solar panel: monocrystalline

• Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
14463	25.5 cm	29.6 cm	2.5 cm	1	139.00





www.horizont.com/14463

Solar module ** 15 watts

· pasture fence energiser hotshock® A90 (10638), Suitable for:

farmer® A100 (10896)

• Rechargeable batteries up to 85 Ah

Attachment: • Installation on the device: with solar mount (14462, p. 86)

• Ground installation: with solar mount (14923, p. 86)

• Installation on transport or security box: with solar mount

(14143, p. 86)

· Not required, as the charge controller is installed in the **Charge controller:**

recommended horizont pasture fence energiser or is not

needed.

Material: · Solar panel: monocrystalline

• Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
141461	44.7 cm	29.6 cm	2.5 cm	1	149.00





www.horizont.com/141461

Solar module ** 20 watts

• pasture fence energisers: ranger® AN2000 (10854), Suitable for: hotshock® A300 (10613), farmer® AN100 (10896)

· Rechargeable batteries up to 85 Ah

Attachment: • Installation on the device: with solar mount (14462, p. 86)

• Ground installation: with solar mount (14923, p. 86) · Installation on transport or security box: with solar mount

(14143, p. 86)

Charge controller: • Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser or is not

needed.

Material: · Solar panel: monocrystalline

Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
140641	67.2 cm	26.5 cm	13.7 cm	1	249.00





www.horizont.com/140641







Solar module *** 20 watts with mount

· Pasture fence energisers: ranger® AN2000 (10854), Suitable for:

ranger® AN3000 (10992), ranger® AN4800 (10993)

· Rechargeable batteries up to 85 Ah

Attachment: · Installation on the device: with solar mount (included in

scope of delivery)

· Ground installation: with solar mount (14923, p. 86)

• Installation on transport or security box: with solar

mount (14143, p. 86)

Charge controller: · Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser or is not

needed.

Material: · Solar panel: monocrystalline

· Frame: Aluminium

Scope of delivery: · Solar panel with mount and screws for fastening to

horizont pasture fence energisers

Art. No.	Length	Width	Height	Unit	Price €
14480	67.2 cm	26.5 cm	13.7 cm	1	279.00





www.horizont.com/14536

Solar module *** 20 watts

Suitable for: • pasture fence energisers: trapper® AN80 (10866),

trapper® AN120 (10865)

· Rechargeable batteries from 85 to 100 Ah

Attachment: • Installation on the device: with solar mount (14462, p. 86)

• Ground installation: with solar mount (14923, p. 86)

· Installation on transport or security box: with solar mount

(14143, p. 86)

Charge controller: · Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser

Material: · Solar panel: monocrystalline

· Frame: Plastic

Art. No.	Length	Width	Height	Unit	Price €
14536	45.5 cm	39.0 cm	2.8 cm	1	199.00

Best Choice

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







www.horizont.com/14538

Solar module *** 20 watts with mount

Suitable for: Pasture fence energisers: trapper® AN80 (10866),

trapper® AN120 (10865)

Rechargeable batteries from 85 to 100 Ah

 Installation on the device: with solar mount · Installation on transport or security box: with solar

mount (14143, p. 86)

Charge controller: · Not required, as the charge controller is installed in the

recommended horizont pasture fence energiser

Material: · Solar panel: monocrystalline

Attachment:

· Frame: Plastic

Scope of delivery: · Solar panel with mount and screws for fastening to

horizont pasture fence energisers

Art. No.	Length	Width	Height	Unit	Price €
14538	45.5 cm	39.0 cm	2.8 cm	1	229.00

Solar module *** 30 watts

Suitable for: • pasture fence energisers: farmer® AN200 (10855),

farmer® AN300 (10882), hotshock® A300 (10892), ranger® AN360 (10997), ranger® AN2000 (10854), ranger® AN3000 (10992), ranger® AN4800 (10993),

ranger® AN4800HIMPS (10993HIMPS)
• Rechargeable batteries with 100 Ah

Attachment: • Installation on the device: with solar mount (14462, p. 86)

• Ground installation: with solar mount (14923, p. 86)

• Installation on transport or security box: with solar mount

(14143, p. 86)

Charge controller: • Not required, as the charge controller is installed in the recommended horizont pasture fence energiser

Material: • Solar panel: monocrystalline

· Frame: Plastic

Art. No.	Length	Width	Height	Unit	Price €
14537	57.5 cm	39.0 cm	2.8 cm	1	249.00





☑ www.horizont.com/14537

Best Choice

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



Solar module *** 30 watts with mount

Suitable for: • Pasture fence energisers: farmer® AN200 (10855),

farmer® AN300 (10882), hotshock® A300 (10892), ranger® AN360 (10997), ranger® AN2000 (10854), ranger® AN3000 (10992), ranger® AN4800 (10993),

ranger® AN4800HIMPS (10993HIMPS)
• Rechargeable batteries with 100 Ah

Attachment: • Installation on the device: with solar mount

• Ground installation: with solar mount (14923, p. 86)

• Installation on transport or security box: with solar

mount (14143, p. 86)

 $\textbf{Charge controller:} \quad \textbf{.} \ \, \text{Not required, as the charge controller is installed in the}$

recommended horizont pasture fence energiser

Material: • Solar panel: monocrystalline

• Frame: Plastic

 $\textbf{Scope of delivery:} \quad \cdot \text{Solar panel with mount and screws for fastening to} \\$

horizont pasture fence energisers

Art. No.	Length	Width	Height	Unit	Price €
14539	57.5 cm	39.0 cm	2.8 cm	1	259.00





☑ www.horizont.com/14539

Solar module *** 50 watts

Suitable for: • Pasture fence 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 up to 230 Ah
Installation on e.g. wooden posts (14131, p. 86):

Attachment: • Installation on e.g. wooden pos 2 x solar mount (14143, p. 86)

Charge controller: • Ye

Material: • S

Solar panel: monocrystalline

• Frame: Aluminium

Art. No.	Length	Width	Height	Unit	Price €
14873	98.5 cm	44.5 cm	3.5 cm	1	319.00





www.horizont.com/14873

Best Choice

The particularly powerful 50-watt solar module has a practical and directly integrated charge controller. This special advantage protects the rechargeable battery when charging by solar energy. Overcharging is not possible thanks to the charge controller. In addition to its high efficiency, the solar panel also features efficient solar cells. There is no danger of injury from sharp-edged corners, these are protected by plastic covers.









Solar mount ** with spiked post

• 5 W solar module (141451, p. 82) Suitable for:

• 10 W solar module (140631, p. 82) • 15 W solar module (141461, p. 83)

• 20 W solar module (140641, p. 83, 14536, p. 84)

• 30 W solar module (14537, p. 82)

Attachment: · Fasten the retaining plate to the solar module and metal

rod with step

· Solar module with the spiked post can be easily set up

next to the pasture fence energiser

Material: · Post: galvanized iron · Retaining plate: Aluminium

Length: • 62 cm

Art. No.	Unit	Price €
14923	1	31.95







Solar mount ***

• Electrifiable security box (14444, p. 80) Suitable for:

• Transport box (14129, p. 80) • 5 W solar module (141451, p. 82) • 10 W solar module (140631, p. 82) • 15 W solar module (141461, p. 83)

• 20 W solar module (140641, p. 83, 14536, p. 84)

• 30 W solar module (14537, p. 82) • 50 W solar module (14873, p. 85)

Inclination: · Inclination angle adjustable from 15 to 75 degrees Scope of delivery: · With mounting screws

Aluminium

Material:

Art. No.	Unit	Price €
14143	1	49.99



www.horizont.com/14462



Solar mount ***

Suitable for: • 5 W solar module (141451, p. 82)

• 10 W solar module (140631, p. 82) • 15 W solar module (141461, p. 83)

- 20 W solar module (140641, p. 83, 14536, p. 84)

- 30 W solar module (14537, p. 82)

· Pasture fence energisers: farmer® AN100 (10855),

ranger® AN2000 (10854)

Attachment: · Simply fasten to the mounting points of the pasture

fence energiser and solar panel

Material: · Aluminium, powder coated

Art. No.	Unit	Price €
14462	1	39.95

Solar mount ★★ attachment device

Suitable for: · Solar mount with short spiked post 14907

• Electrifiable security box (14444, p. 80)

• Transport box (14129, p. 80)

Attachment: - Simply screw on to the holder, security box or transport

box and attach the solar module

Material: · Iron, powder coated

Art. No.	Unit	Price €
14156	1	19.99





www.horizont.com/14156

Solar mount ★★ with short spiked post

Suitable for: • 5 W solar module (141451, p. 82)

• 10 W solar module (140631, p. 82) • 15 W solar module (141461, p. 83)

• 20 W solar module (140641, p. 83, 14536, p. 84)

• 30 W solar module (14537, p. 82)

Attachment: • Fasten the retaining plate to the solar module

• The mount can be used for attachment to the attachment

device (14156 or 14192) · Post: Iron, galvanized

Material:

· Retaining plate: Aluminium







www.horizont.com/14907

Solar mount **

Suitable for: • Mount (14907, p. 87)

• Older pasture fence energisers: farmer® A1000,

ranger® A3000

Attachment: · Screw on mount and attach the solar module

Material: · Iron, powder coated

Art. No.	Unit	Price €
14192	1	13.49





www.horizont.com/14192



04 EARTHING & CONTROL



It is especially the electric fence that gets its function from the deterrent effect of electric pulses. The electric fence itself only represents a minor mechanical barrier. This makes the function of the electric fence all the more important, as safety can only be guaranteed through control. As an inconspicuous element, earthing plays a very high and important role in the electric fence system. Only correct earthing guarantees optimum herding safety.

PRODUCT RANGE

Adviser Things to know about earthing & control	р. 90
Earthing • Earth stakes • Underground cable	p. 92
Connecting - Lightning protection and fence switch - Connecting cables	р. 9
Control - Fence tester - Control units - Accessories	p. 98

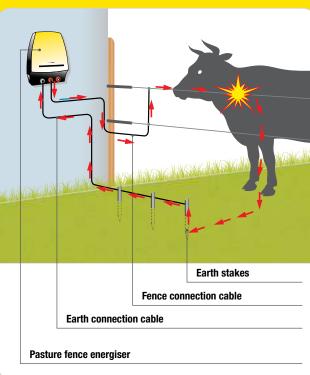
Things to know about

EARTHING & CONTROL

1. Why is earthing at the fence so important?

The most important prerequisite for ensuring optimum herding safety as well as full equipment performance at the fence is proper earthing. The fence system is a circuit where electricity flows.

Caution: The fence does not have to be built in a circle to close the circuit, instead it is closed when the animal touches it. The current thus flows from the pasture fence energiser through the conductors, the animal body (or vegetation) over the ground, through the earth stakes back to the device. If the earthing is insufficient, there will be less current flow and the deterrent effect on the animal is reduced. The danger: The animal breaks out or accesses the unfenced area.



Closing the electric circuit with correct earthing

Tip

✓ For fast and precise error detection:

For long supply lines from the pasture fence energiser to the fence, connect them in a branching box every 50-100 m. This can be easily opened and the cables can be checked for function by measuring the voltage. Especially with cables laid in the ground, this can considerably simplify troubleshooting.

2. What needs to be taken into account regarding soil conditions?

The soil can have a very high resistance and significantly affect the herding safety of the pasture fence system. The aim is to minimise soil resistance and this is achieved by good soil conductivity. Damp soil, wherever there is natural water and with good turf, favours conductivity, while dry soil with little grass cover makes good earthing difficult. Difficult weather conditions such as a layer of snow and frost can also severely affect the earthing. If the ground is sandy, we recommend using an open or uninsulated earth conductor and earthing it at regular intervals. The more poorly the soil conducts, the more earth stakes should be used.

3. How does one earth an electric fence properly?

One or more earth stakes are inserted at least 1 m deep into the soil until they hit damp earth. When using several earth stakes, keep them 3 m apart. The earth stakes are then connected to the electric fence device using high voltage cables and connecting cables. The number and depth of the earth stakes is crucial: The more and the deeper, the better.

Caution: Only use galvanised, rust-free materials for earthing, as a layer of rust will greatly impair the effect.



Earthing checklist

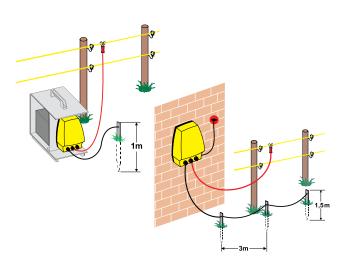
- Pasture fence energiser (as of p. 23)
- Earth stake (as of p. 92)
- Earth connection cable & connecting cable (as of p. 96)
- Fence tester (as of p. 98)

4. When and how is earthing checked?

The earthing reliability should be checked when the pasture is put into use in the spring and during the dry period in the summer. Also, in the event of faults in the fence and after the installation of a new pasture fence energiser. Certain measuring instruments or fence testers are used for this purpose (p. 98-100).

The test is carried out as follows: Produce a short circuit by placing iron posts against the electrical conductor about 100 m away from the device. Ensure good contact with the conductor and drive the post at least 30 cm into the soil. The fence voltage should now drop to 2000 V (1000 V for dry soil).

The earthing rod of the voltmeter is inserted into the soil about 1 m from the last earth rod of the electric fence device and the measuring contact is held to the last earthing rod of the device. The value should be under 1000 V. Note: The smaller the value, the better. You should always check your fence system daily and look after your animals. Written documentation helps to provide evidence of vour control.



Important icons for this chapter:

Product describing icons:

These icons describe earthing & control features.



Height









Width

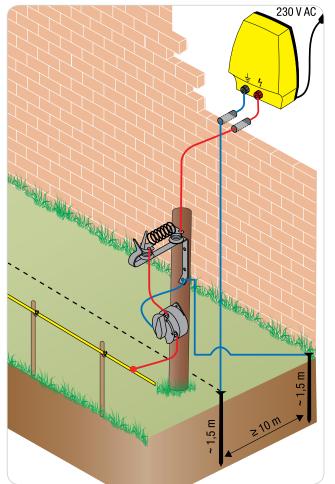
thickness

Steel

Stainless

Coated





Lightning protection choke for larger systems on buildings

5. What are the safety regulations?

When earthing the electric fence device, a minimum distance of 10 m to other earthing systems (e.g. building earthing) must be maintained to prevent the voltage from flashing over (e.g. in the event of a lightning strike). This safety distance is important to avoid endangering the house earthing including water and power lines. The distance between the earthing of the pasture fence energiser and the lightning protection should also be at least 10 m.

Excessive voltage (like a lightning strike) can destroy the electric fence device, the fence is no longer functional and the animal can break out. To prevent this, a lightning protection system should be installed between the electric fence device and the fence system. This is a requirement inside the building It is considered a recommendation for installation outside buildings. It is particularly useful when using a power supply unit, as the current can flash over to the mains.

A so-called lightning protection choke effectively protects the electric fence device against damage caused by lightning and excessive voltages.



www.horizont.com/14199







100 cm 13 mm

Earth stake round **

Length: • 100 cm **Diameter:** • Ø 13 mm

Material: • Round steel, galvanized

Scope of delivery: • Complete with connection bolt

Art. No.	Unit	Price €
14199	3	34.50



www.horizont.com/47ES4







50 cm

8 mm

Earth stake standard **

Suitable for: • trapper power supply units (104271, 10864, p. 31)

• Rechargeable battery-Mains units (10867, 10866,

10865, p. 33)

• Rechargeable battery-Battery units(14497, p. 36)

Length: • 50 cm **Diameter:** • Ø 8 mm

Material: • Round bar, galvanized • Complete with support

Art. No.	Unit	Price €
47ES4	1	6.99



www.horizont.com/Art. no.





3 mm



T-earth stake ***

Suitable for: • Rechargeable battery and power supply units

Length: • 200 cm

Material: • Angle section, galvanized

Material thickness: • 3 mm

Scope of delivery: • Complete with connection bolt

Art. No.	Unit	Price €
14542-1	1	22.99

Suitable for: • Power supply units and rechargeable-mains units

Length: • 150 cm

Material: • Angle section, galvanized

Material thickness: • 3 mm

Scope of delivery: • Complete with connection bolt

15017-1	1	16.99
15017	3	46.95
Art. No.	Unit	Price €

Suitable for: • 12 V rechargeable battery units and rechargeable

battery-solar units

Length: • 100 cm

Material: • Angle section, galvanized

Material thickness: ⋅3 mm

Scope of delivery: • Complete with connection bolt

Art. No.	Unit	Price €
14041	3	37.95
14041-1	1	13.99

14542-1

15017

14041

Earth stake and spiked post with bracket **

Suitable for: • All horizont battery units as of YOC 1981: (Currently: (10285, p. 66),

(10555, p. 63), (10841, p. 63, (10616, p. 35), (10620, p. 35)

Length: • 32 cm Material: Galvanized Material thickness: • 2 mm

Scope of delivery: · Complete with connection bolt

Art. No.	Design	Unit	Price €
88178	Earth stake with bracket		9.99
80054	Earth stake, single		5.99





www.horizont.com/Art. no.







Earth stake and spiked post **

• Rechargeable battery-Battery-Mains units (10891, p. 46), Suitable for:

(10892, p. 51)

Advantage: • Easy to set up

· Easy to transport · Easy to mount • 27 cm

Length: Material: Galvanized

Scope of delivery: · Complete with connection bolt

Art. No.	Unit	Price €
14498U		8.99





✓ www.horizont.com/14498





27 cm

Earth stake and spiked post **

Suitable for: • 9 V battery units

Advantage: • For mounting, a hole must be drilled into the battery box

to screw the earth stake firmly to the device

Length: • 25 cm

Art. No.	Unit	Price €
14178		11.95

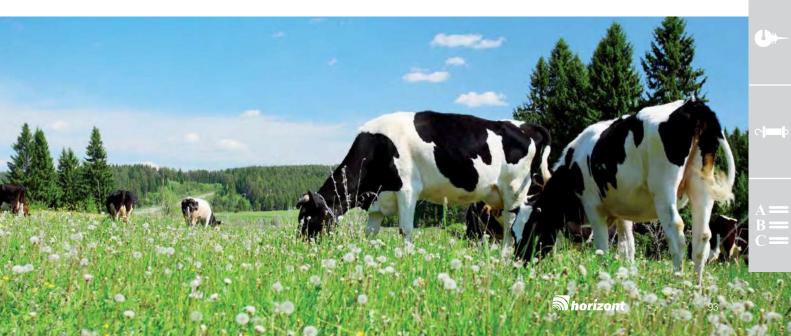




™www.horizont.com/14178



25 cm





www.horizont.com/Art. no.

Flexible gate/fence/underground cable

Application:

 Overhead and buried fence supply cables, connection of the earthing rods and for power supply at gates

Advantage:

- Double insulated
- · Copper conductor
- \bullet Electric strength is at $<20,\!000\,\text{V}$
- 14523: Including eyes for connection

Art. No.	Reel	Diameter	max. supply cable length	Resistance	Unit	Price €
14523	8 m	1.6 mm	8 m	0.01 Ω/m	1	9.95
1/152/	50 m	1.6 mm	500 m	0.01.0/m	1	20 05



Underground/Connecting/ Supply cable

Application:

- Overhead and buried fence supply cables, connection of the earthing rods and for power supply at gates
- Advantage:
- Double insulated
- Conductor of galvanized steel wire
- Electric strength is at < 20,000 V

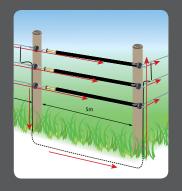
Art. No.	Reel	Diameter	max. supply cable length	Resistance	Unit	Price €
15321	10 m	1.6 mm	500 m	0.07 Ω/m	1	12.99
14040	25 m	1.6 mm	500 m	0.07 Ω/m	1	21.99
15525	50 m	1.6 mm	500 m	0.07 Ω/m	1	44.95
15956	100 m	1.6 mm	500 m	0.07 Ω/m	1	78.95
15516	100 m	2.5 mm	1,000 m	0.035 Ω/m	1	104.95

Product tip

To protect the underground cable, it is advisable to run it in a protective hose or pipe (p. 190).







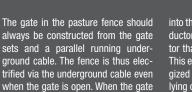
Have a look at our horizont YouTube channel!

Here the horizont Pasture Fence Advisor explains the correct method of constructing a pasture fence gate.

www.horizont.com/gate construction

is closed, the gate handle sets are

electrified via the gate handle inserted



into the gate handle insulator. The conductor material is hung into an insulator that is not connected to the fence. This ensures that the gate is only energized when it is closed. A gate handle lying on the ground can then no longer generate any leakage or interference or generate electricity



Lightning protection choke **

 Effectively protects the electric fence device from damage caused by lightning and excessive voltage

Art. No.	Unit	Price 6
15482	1	15.99



www.horizont.com/15482

Pasture fence energisers with two fence outputs also require two lightning protection systems!



Safety advice

To prevent lightning damage, an earthed lightning spark gap must be installed in the fence supply cable to the building, or prior to entry into a building. The lightning protection device must be installed by a specialist if the device is installed inside the building.

The wiring must be carried out by a specialist according to the installation instructions. Do not combine lightning protection earth and operational earth of the electric fence system.

Lightning protection device *

Suitable for: • Mobile battery and rechargeable battery units < 1 J

Advantage: • Can be mounted to wall or on fence

Dimensions: • 12 x 6.5 cm

Art. No.	Unit	Price €
14085C	1	16.95



™www.horizont.com/14085C







Fence switch **

Suitable for:
Advantage:
Switching power on and off
Two outputs can be switched

Can be used independently of the pasture

fence energiser

Dimensions: • 6 x 12 cm

14865C		11.00
Art. No.	Unit	Price €

Switch positions

•0 = Off

I = Fence system 1II = Fence system 2

 \cdot I+II = Fence system 1 and 2



www.horizont.com/14865C





6 cm 12 cm

On/Off switch **

Suitable for: • Switch Advantage: • A fen

Switching power on and off

A fence system or individual fence sections can be

switched

 \bullet Can be used independently of the pasture fence

energiser

Dimensions: • 12 x 6.5 cm

Art. No.	Unit	Price €
14084C	1	14.99



www.horizont.com/14084C









www.horizont.com/90150C



90 cm



Earth connection cable *

Advantage:

· Connection between device and earthing rod

· High voltage cable with reinforced plastic

sheath • 90 cm

Cable length:

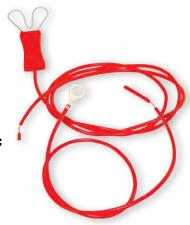
Scope of delivery: · Complete with connection bolt

Art. No.	Unit	Price €
90150C	1	6.49









Fence connection kit **

Suitable for:

· Heart clamp for connection to tape up to 12 mm (p. 132), rope (p. 136), polywire (p. 140) and wire (p. 144)

Advantage:

· High voltage cable of the heart clamp with reinforced plastic sheath for avoiding voltage flashovers

Material:

Galvanized

Scope of delivery:

· Connecting cable 100 cm, underground cable 50 cm

Art. No.	Unit	Price €
15522C	1	7.99



www.horizont.com/10286C





100 cm



Fence connection terminal **

Suitable for:

· Connection between device and fence material from tape up to 40 mm (p. 132), rope (p. 136), polywire (p. 140) and wire (p. 144)

Advantage:

· High voltage cable with reinforced plastic sheath

Cable length:

· Safe contact especially with higher energies

Material:

• 100 cm Galvanized

Art. No.	Unit	Price €
10286C	1	8.49



www.horizont.com/14879C





150 cm

Fence connection kit ***

Suitable for:

· Crocodile clips for connection to tape up to 40 mm (p. 132), rope (p. 136), polywire (p. 140) and wire (p. 144)

Advantage:

· Connecting cable equipped with reinforced plastic sheath to prevent voltage flashover

Cable length: Material:

• 150 cm

Scope of delivery:

· Stainless steel · Connecting cable with eyelets, crocodile clips

Art. No.	Unit	Price €
14879C	1	8.99



Device and earth connection kit ***

Suitable for: • Heart clamp for connection to tape up to 12 mm (p. 132),

rope (p. 136), polywire (p. 140) and wire (p. 144)

Earth connection cable for fastening to earthing rod
High voltage cable with reinforced plastic sheath

Material: • Galvanized

Advantage:

Scope of delivery: • Earthing rod, fence connection cable 2 m, earth connection

cable 3 m, Warning sign

Art. No.	Unit	Price €
15858C	1	21 05



www.horizont.com/15858C

Zinc Coated



Fence connection terminal ***

Suitable for: • Connection between device and fence material from

tape up to 40 mm (p. 132)

Advantage:

• High voltage cable with reinf

Advantage: • High voltage cable with reinforced plastic sheath

For safe contact especially with higher energies

Cable length: • 100 cm
Material: • Stainless steel

Art. No.	Unit	Price €
10447C	1	6.49





www.horizont.com/10447C





Fence connection terminal ***

Suitable for: • Connection between device and fence material from

rope up to 6 mm (p. 136)

Advantage: • High voltage cable with reinforced plastic sheath

• For safe contact especially with higher energies

Cable length: • 70 cm

Art. No.	Material	Unit	Price €
10593C	galvanized	1	5.19
10594C	of stainless steel	[1]	7.99



www.horizont.com/Art. no.





70 cm



www.horizont.com/14149C



Fence tester ** Flash 2000

· Battery operation

Advantage:

- · Optical function display in twilight and darkness
- The device lights up in time with the current pulses and
- goes out below 2,000 V fence voltage
- The measuring device does not require an earth terminal (is simply hung into the existing fence material)
- · Additional deterrent for wildlife fences

Operation:

Scope of delivery:

• Fence tester, 3 V lithium battery CR2032

Art. No.	Unit	Price €
14149C	1	28.95



☑ www.horizont.com/15537C



Fence tester ** volt alarm

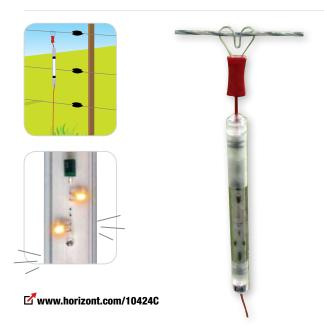
Advantage:

- · Optical function display when the fence voltage drops
- The measuring device does not require an earth terminal (is simply hung into the existing fence material)
- 2 modes adjustable by switch (level 1: The lamp lights up at a fence voltage below 2,000 V, level 2: The lamp lights up at a fence voltage below 4,000 V

Operation: • Battery operation

 $\textbf{Scope of delivery:} \quad \boldsymbol{\cdot} \text{ Fence tester, 3 V lithium battery CR2032}$

Art. No. Unit P	15537C	20.05	
	Art. No.	Price €	



Fence tester *** neon light

Advantage:

- · Optical function display in twilight and darkness
- In the design of a neon lamp with LEDs
- The device lights up in time with the current pulses and goes out below 2,000 V fence voltage
- The measuring device does not require an earth terminal (is hung in the existing fence material and operated through the electrified conductor material)
- · Additional deterrent for wildlife fences

Operation:

- Without battery
- Scope of delivery: Fence tester

Art. No.	Unit	Price €
10424C	1	30.95

Fence tester * Isotester 6000

Advantage: · Simple and quick control of the fence system

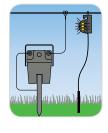
• Fence voltage display in 3 stages: 2,000 V, 4,000 V and

6,000 V

Operation: · Without battery Scope of delivery: · Fence tester

Art. No.	Unit	Price €
14082C	1	13.99





www.horizont.com/14082C

Fence tester * trapper®

Advantage: • 6 recessed glow lamps for best possible legibility - even

with strong light incidence

· Non-slip insulation of the earth stake - additional safety in operation

• Cable can be wrapped around the fence tester when not in use - easy handling and additional protection

against damage · Without battery Scope of delivery: · Fence tester

Art. No.	Unit	Price €
14494C	1	16.99

Operation:





www.horizont.com/14494C

Fence tester ** farmer®

Advantage: • 7 recessed LEDs - very good legibility even with strong

light incidence

· Recessed pushbutton prevents inadvertent operation,

e.g. when kept in trouser pocket

· With battery control indicator

· Earthing via an earthing cable is not necessary

Operation: · Battery operation Scope of delivery: · Fence tester, battery

Art. No.	Unit	Price €
14495C	1	23.95





www.horizont.com/14495C

Fence tester *** ranger®

Advantage: · Digital display for accurate reading of the voltage

· Device switches on automatically when fence voltage is

· Non-slip insulation of the earth stake enables safe operation

· Cable can be wrapped around the fence tester when not in use - easy handling and additional protection against damage

Operation: Battery operation Scope of delivery: · Fence tester, battery

14496C	<u></u>	50.99
Art. No.	Unit	Price €





www.horizont.com/14496C





www.horizont.com/14151C



Fence tester ★★★ turbomax® Fence scout

Advantage:

- Measuring device for fence voltage, amperage and as
- fault finder
- Measuring range up to 10,000 V
- Display of current flow direction
- Direction display of the faultDisplay lighting
- Acoustic signals
- · With battery control indicator

• With battery contr • Battery operation

Scope of delivery: • Fer

· Fence tester, 9 V block battery, belt pouch

Art. No.	Unit	Price €
14151C	1	145.00

Note

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



☑www.horizont.com/14936

SMS socket outlet * DRH-301-V4 Master

Advantage:

· Completely rebuilt with 4G LTE module

- · Works with all European SIM cards: 2G, 3G, 4G LTE
- · Integrated timer
- · Alarm function, works with radio sensors
- Alarm message upon power failure via SMS or call
- Max. 4 SLAVE units additionally switchable
- App operation possibleMains operation
- **Operation:** Mains operation

Scope of delivery: • SMS socket outlet, SIM card not included

Art. No.	Unit	Price €
14936	1	169.00



www.horizont.com/34544



LUDA FenceAlarm **

Advantage:

- · Fence monitoring by mobile phone, saves up to 50
- working hours per year
- · Fence voltage monitoring with alarm function
- · Can be integrated anywhere in the fence system
- · Can be used regardless of location, with sufficient GSM
- network coverage
- Free download of My.Luda.Farm app for monitoring

Operation:

· Integrated, rechargeable battery

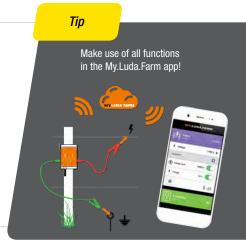
Scope of delivery:

 Luda. Fence Alarm fence sensor, outdoor charger 220 V, earthing rod, outdoor charging cable 12 V, fence and

earthing terminal, installed SIM card

Art. No.	Unit	Price €
34544	1	239.00

Range of functions	Free	Alarm+
Automatic alarms	-	✓
Unlimited alarm receivers	-	✓
Fence Voltage Graph™ fence voltage chart¹	-	30 days
Frequency of status update	Every 48 hours ²	When voltage changes
Low battery level alarm	✓	✓
Price	0 €	60 €/year⁴



LUDA Farm SolarCharger 3 W **

Suitable for: Advantage:

- Luda FenceAlarm (34544, p. 100)
- · Charges the Luda FenceAlarm within one sunny day
- · Luda FenceAlarm no longer needs to be removed for charging
- · Sturdy frame and mount
- · Lightweight construction of solar panel and frame of plastic material
- · Monocrystalline solar panels
- · With swivel joint for ideal alignment to the sun

Art. No.	Unit	Price €
34543	1	59.00





www.horizont.com/34543

Warning sign, international **

Suitable for: **Dimensions:** · For fastening to the conductor material

• 20 x 10 cm

Scope of delivery:

· Warning sign printed on both sides, cable ties for fastening

Art. No.	Unit	Price €
14481	1	1.99
14127	4	8.99
14127C	4	9.49





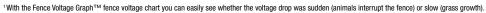
☑ www.horizont.com/Art. no.





20 cm 10 cm





This allows you to make the right decision when you need to set time priorities

² The voltage level of your fence as presented in the My.Luda.Farm app is free of charge.

³ Automatic alarms can be sent to an unlimited number of recipients.

⁴ Alarm+ is available in the My.Luda.Farm app for 60 €/year or 10 €/month as an optional service. 12 months of Alarm+ are included in the purchase price of the device.





The construction of complete fences is greatly simplified with the use of netting. Posts, connectors or polywires are already installed in each net section. In addition, each net offers practical protection against predators and external intruders.

PRODUCT RANGE

Adviser Things to know about netting	p. 104
Product guide The practical overview to help you quickly find the right net	p. 106
Sheep and goat netting	p. 108
Topic: Wolf defence	p. 115
Wolf defence netting	p. 113
Poultry netting	p. 118
Small animal netting	p. 120
Accessories - Replacement posts - Repair kits	p. 122

Service

PREMIUM QUALITY

MADE IN GERMANY

The horizont service for you:
All horizont netting comes with a
two year warranty.

All horizont nets are produced in Germany which is why they are known for their *premium quality*.

Things to know about

NETTING



1. The function of netting

A net consists of horizontal and vertical polywires. These polywires are made of monofilament plastic threads and the current-carrying polywires are additionally made of wires.

A quality feature here is the number and thickness of the wires. With regard to plastic monofilaments, resistance to sunlight and mechanical strength also play a special role. horizont plastic monofilaments are therefore made of high-quality polyethylene (PE for short) with an additive for UV stabilization.

Special reinforcements of the vertical polywires, the plastic struts, can further increase the stability of the netting (for specific applications under increased weather conditions, such as wind and snow loads, as well as in uneven terrain). Various posts with different heights and thickness are also available to ensure optimal vertical fixing of the netting.

There are various types of netting, depending on the application, which differ in the spacing between the polywires and the number and arrangement of the current-carrying polywires.

2. The application

As a livestock owner, you can keep your animals in or out with a pasture fence or an electric net. Animals that have a dense coat or plumage, such as poultry, sheep and goats, are ideally guarded with an electric net. Small animals such as cats, dogs or rabbits can also be managed with netting due to their size. The same rule can also be applied when warding off wildlife or wolves. In this case, the horizont range offers optimal net and polywire fencing solutions.

The different types of nets are classified according to the different animal species into sheep/goat, poultry and small animal nets (rabbits, cats).

The conductivity:

The required herding pulse energy can be achieved through high electrical conductivity (of the polywires or wires). Each horizont net type contains information on conductivity, e.g. the symbol A++, which stands for the highest conductivity.





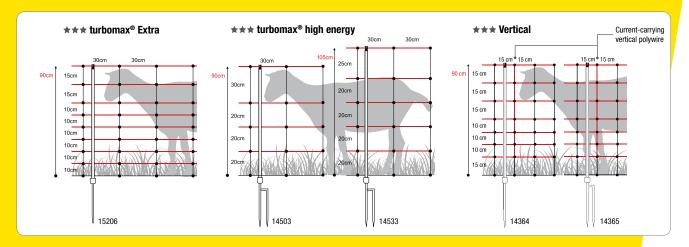
When using nets on particularly dry soils, it is advisable to use a net with earth conductors, because if the net is touched by the animal in this case, the dry soil prevents the necessary transport of the electrical pulse energy back to the earth connection of the pasture fence energiser. The earth conductor of the corresponding netting can thus, as a substitute, feed the impulse back to the pasture fence energiser. As soon as the soil is able to conduct the impulse, a net without an earth conductor should be used preferably, as in this case increased electrical energy is otherwise dissipated unused into the soil via the vegetation.

Tip

There should be no vegetation under the netting; this should be removed before installation. Depending on the net, the bottom current-carrying conductor is 5, 10 or 20 cm from the ground. As such, this important conductor is as close to the ground or vegetation as no other electric fence.

The vegetation situation:

Vegetation at the site of use also plays a large role when choosing the appropriate netting. For example, an increased ground clearance of the lower current-carrying polywire (see turbomax® high energy 14503, 14533 below) or a certain number and arrangement of the current-carrying vertical polywires (see vertical nets 14364, 14365 below) can considerably reduce energy leakage that is unused for herding performance into the ground. The pulse-type energy of the pasture fence energiser is thus optimally available in the intensity required for herding safety when the animal comes into contact with the net. If one of the bottom polywires is covered with vegetation (see turbomax® Extra 15206 below), the leakage can have a negative effect on the herding performance.



3. Choosing the correct posts

The posts can be selected according to soil conditions and preferences (single or double tip).

Single tip:

· Use on stony ground or in the mountains

Double tip:

- · Used for loose or firm stone-free ground
- The step allows the post to be anchored in the ground without tools
- · A double tip achieves a higher stability

The horizont posts are particularly stable. The post material is specifically optimised for multiple tensile loads that occur when pulling out net posts. The high strength and adapted elasticity as well as the special connection technology of the post with the earth spikes ensure a particularly long durability compared to conventional posts in mobile use.



The polywire insulator at ground level, which is located on the post-earth spike, ensures close contact with the spike. It therefore supports the conductivity of a net with an electrical earth wire.

Using additional posts to press down the bottom wire strand in uneven soil conditions helps avoid an electrical connection of the live polywires. This also eliminates possible gaps that wild animals can use to slip through, for example.

4. Connection to a pasture fence energiser

horizont offers special fence energisers for the herding of animals with an insulating coat of wool, hair or feathers. Since the nets are often set up well inside the vegetation, horizont pasture fence energisers are designed for exactly such conditions.

Recommendation



The hotshock series for sheep, goats, poultry and for wildlife and wolf defence (p. 48)

The farmer series for small animals (p. 40)



5. The erection and dismantling of netting

Link

The following topics are compiled into practical video sequences for you: www.horizont.com/ytSchafnetz

Cutting the grazing area free:

Why is it so important for the netting to have the pasture area cut free? The trimmed corridor under the erected netting prevents the first current-carrying polywire from being overgrown through vegetation. The vegetation cannot conduct energy away from the net into the ground. If the first current-carrying polywires are free from vegetation, no energy will be lost from the fence.

Posts:

What are the different uses of posts with single tip or double tips for sheep nets? The broader surface of posts with double tips makes it easier to drive them into the ground. However, the double tip is difficult to drive into stony ground. It is better to use a single tip here.

Corner with post:

How does a corner solution work for the sheep net fence with additional posts? The additional post for the sheep net is necessary if there is no built-in post available in the corner. A "standard" plastic post can be used there, for example.

Connecting sheep nets:

How is a net overlap created in a sheep net?

This is attached at points where the nets meet. This means the netting is properly stretched in parallel at this point in the resulting length. It is important that the designated cable ends of the netting is connected conductively.

Conductively connecting sheep nets:

How is the netting conductively connected at the two starting points?

Both of the cable ends of the netting are properly staked around the posts to eliminate unnecessary protrusion. Both clips of the ends are then connected without tools to establish a clean electrical contact on the fence.

Securing sheep:

How to deal with gaps between the net and the ground due to ground depressions?

Lambs or even sheep could slip under the fence here. It is therefore important to check the sheep net fence! The net can be stretched to the ground with the supplied stakes. This guarantees better herding safety.

Connecting the pasture fence energiser

How is a pasture fence energiser connected to the sheep net to ensure that the sheep are kept safe?

Rolling up a sheep net:

How do you dismantle a sheep net, which requires special care, as this is the only way to guarantee the sheep net can be reused?



NETTING

	Livestock farming		Animal defence	Net height	Net length	Т.	ip	Earth conductor
MM	¥	*	at	ст	m	Single tip	Double tip	
•				90	50	•		
•				90	50		•	
•				105	50	•		
•				105	50		•	
•				120	50		•	
•				90	50	•		
•			•	90 / 120	50	•		
•			•	90 / 120	50		•	
•			•	145	50		•	
•			•	90	50		•	
•			•	105	50		•	
•			•	105	50		•	•
•			•	90	50	•		
•			•	90	50		•	
•			•	105	50	•		
•			•	105	50		•	
•			•	90	50	•		
•			•	90	50	•		•
•			•	90	50	•		
•			•	90	50		•	
	•			105	50	•		
	•			105	50		•	
	•			105	25	•		
	•			105	25		•	
	•			105	50	•		
	•			105	50		•	
		•		50	25	•		
		•		50	50	•		
		•		65	50	•		

- excellently suited for
- conditionally suited for

Conductivity						Product			
Ω/m	A++	A+	A	В	C	Designation	Art. No.	Page	
1.15					•	★★ horinetz	15465	108	
1.15					•	★★ horinetz	15464	108	
1.01					•	★★ horinetz	15471	108	
1.01					•	** horinetz	15472	108	
0.84				•		** horinetz	14147	108	
0.33			•			★★ horinetz energy	14954	109	
1.15					•	★★ horinetz super plus	14992	114	
1.15					•	★★ horinetz super plus	14925	114	
0.81				•		★★ horinetz super	14967	113	
0.33			•			** turbomax® high energy	14503	116	
0.33			•			** turbomax® high energy	14533	116	
0.32			•			★★★ turbomax® high energy plus earth	14534	117	
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	
0.29		•				*** turbomax® Super	15232	111	
0.17	•					*** Vertical	14364	112	
0.17	•					*** Vertical	14365	112	
0.74				•		** ranger®	15587	118	
0.74				•		** ranger®	15693	118	
						* ranger® security*	34619	119	
						* ranger® security*	34621	119	
						* ranger® security*	34618	119	
						★ ranger® security*	34620	119	
1.01					•	*★ farmer® super	15195	120	
1.01					•	★★ farmer® extra	15576	121	
0.90				•		★★ farmer® plus	14895	121	
								1	



Sheep and goat netting

** horinetz

Suitable for:

Sheep and goats

Bottom mesh size:

Wolf defence and deterrence of wild boars
 15.0 cm high and 15.5 cm wide

Advantages:

• Good conductivity and extremely durable

High load rating possible

Scope of delivery:

• 1 x herding net horinetz complete

• 14 plastic posts with single tips

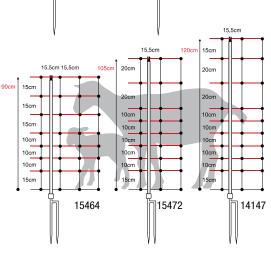
Accessories:

• 1 x repair kit, 1 x warning sign and 2 x ground stakes

• Replacement post with single tip \emptyset 13 mm, 90 cm high (15022-1, p. 122) or 105 cm high (15026-1, p. 122)

• Replacement post with double tip Ø 13 mm, 90 cm high (15022-2, p. 122) or 105 cm high (15026-2, p. 122) or

120 cm high (14384-2, p. 122)



10cm

10cm

15471

15465







Double tip

Conductive material connection

Head insulator

www.horizont.com/Art. no.

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
15464	90 cm	50 m	Double tip	14 plastic posts	white	yellow/black	8	7	$1.15~\Omega$ / m	1	85.95
15465	90 cm	50 m	Single tip	14 plastic posts	white	yellow/black	8	7	1.15 Ω / m	1	92.95
15471	105 cm	50 m	Single tip	14 plastic posts	white	yellow/black	9	8	1.01 Ω / m	1	93.95
15472	105 cm	50 m	Double tip	14 plastic posts	white	yellow/black	9	8	1.01 Ω / m	1	99.95
14147	120 cm	50 m	Double tip	14 plastic posts	white	yellow/black	10	9	0.84 Ω / m	1	109.95

15cm

15cm

10cm

10cm



Sheep and goat netting

** horinetz energy

Suitable for: · Sheep and goats

• Deterrence of wild boars

Bottom mesh size: Advantages:

• 15 cm high and 30 cm wide

· Minimal leakage even with heavy vegetation due to non

current-carrying bottom polywires · Robust conductor and high tensile strength for best

functional properties · Rigid verticals ensure solid stability

Scope of delivery:

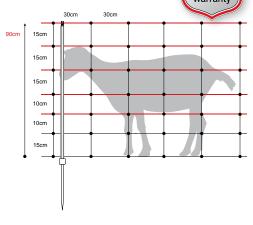
• 1 x herding net horinetz energy complete, 90 cm high,

- 14 plastic posts with single tips
- 1 x repair kit, 1 x warning sign and 2 x ground stakes

Accessories: • Replacement post with single tip Ø 13 mm, 90 cm high (15022-1, p. 122)

• Replacement post with double tip Ø 13 mm, 90 cm high

(15022-2, p. 122)



www.horizont.com/14954

horizont

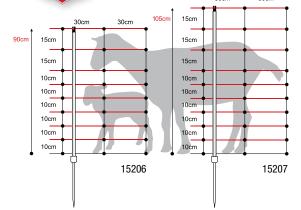
Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
14954	90 cm	50 m	Single tip	14 plastic posts	white	yellow/black	8	6	0.33 Ω / m	1	84.95

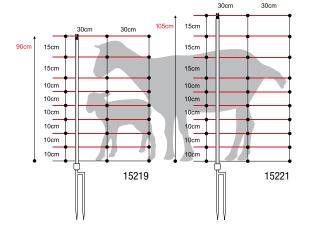












Sheep and goat netting

★★★ turbomax[®] Extra

Suitable for: • Sheep and goats

Wolf defence and deterrence of wild boars

Bottom mesh size: • 10 cm high and 30 cm wide

Advantages: • High stability through special verticalconnections

• Tight mesh spacing prevents lambs from breaking out • Professional net with high conductivity – for more safety

 White polywires for more contrast to the surroundings and better visibility in twilight and darkness

horizont quality with high-quality copper conductor

Scope of delivery: • 1 x herding net complete, 50 m long

• 14 x plastic posts with single or double tip

- 1 x repair kit, 1 x warning sign and 2 x ground stakes

Accessories: - Replacement post with single tip Ø 13 mm, 90 cm high

- Replacement post with single tip \emptyset 13 mm, 90 cm high (15022-1, p. 122) or 105 cm high (15026-1, p. 122)

- Replacement post with double tip \emptyset 13 mm, 90 cm high (15022-2, p. 122) or 105 cm high (15026-2, p. 122)



Clip





Head insulator

Foot step with double tip

www.horizont.com/Art.	no.
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Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	polywires	Conductivity	Unit	Price €
15206	90 cm	50 m	Single tip	14 plastic posts	white	white/black	9	8	$0.29\;\Omega$ / m	1	92.95
15219	90 cm	50 m	Double tip	14 plastic posts	white	white/black	9	8	$0.29~\Omega$ / m	1	97.95
15207	105 cm	50 m	Single tip	14 plastic posts	white	white/black	10	9	$0.28~\Omega$ / m	1	99.95
15221	105 cm	50 m	Double tip	14 plastic posts	white	white/black	10	9	$0.28~\Omega$ / m	1	109.95

Sheep and goat netting

*** turbomax® Plus

Suitable for: • Sheep and goats

· Wolf defence and deterrence of wild boars

Bottom mesh size:

• 10 cm high and 30 cm wide

Advantages:

 Both bottom polywires are not current-carrying - no discharge and so cutting free is not necessary.

· High stability through rigid verticals

 Long operating life due to robust conductor material
 White polywires for more contrast to the surroundings and better visibility in twilight and darkness

horizont quality with high-quality copper conductor

Scope of delivery:

 $\, \cdot \, 1 \, \, x$ herding net turbomax high energy complete, 90 cm

high, 50 m long

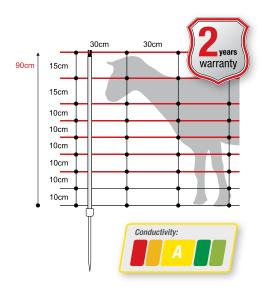
• 14 x plastic posts with single tips

• 1 x repair kit, 1 x warning sign and 2 x ground stakes

Connecting accessories

Accessories: • Replacement post with single tip \emptyset 13 mm, 90 cm high

(15022-1, p. 122)



☑ www.horizont.com/14955

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
14955	90 cm	50 m	Single tip	14 plastic posts	white	white/black	9	7	$0.33\;\Omega$ / m	1	91.95

Sheep and goat netting

★★★ turbomax® Super

Suitable for: • Sheep and goats

• Wolf defence and deterrence of wild boars

Bottom mesh size:

• 10 cm high and 30 cm wide

Advantages:

Scope of delivery:

• Tight mesh spacing prevents lambs or kids from break-

ing out

Professional net with high conductivity – for more safety

Additional earth conductor ensures good earthing even

in dry conditions

White polywires for more contrast to the surroundings

and better visibility in twilight and darkness

horizont quality with high-quality copper conductor

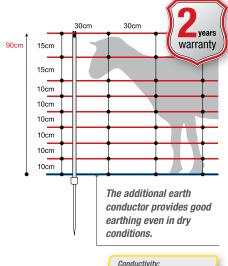
 $\, \cdot \, 1 \, x$ herding net horinetz energy complete, 90 cm high

and 50 m long
• 14 x plastic posts with single tip

• 1 x repair kit, 1 x warning sign and 2 x ground stakes

Accessories: • Replacement post with single tip \emptyset 13 mm, 90 cm high

(15022-1, p. 122)

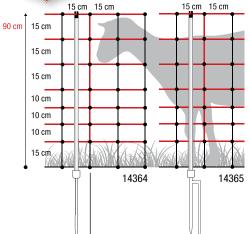




☑ www.horizont.com/15232

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
15232	90 cm	50 m	Single tip	14 plastic posts	white	white/black	9	8	$0.29~\Omega$ / m	1	99.95





horizontal and vertical current-carrying polywires ensure a permanent power supply even in the event of a break

Exclusive

The Vertical sheep and goat net is particularly suitable for areas with heavy vegetation due to its vertical conductors. Conductivity and herding safety are therefore still guaranteed.

Sheep and goat netting

*** Vertical

Suitable for:

· Sheep and goats

· Wolf defence and deterrence of wild boars

Bottom mesh size: Advantages:

Scope of delivery:

Accessories:

• 15 cm high and 15 cm wide

• Twice the safety due to vertical current conduction if a polywire breaks, the power supply is ensured • High conductivity for optimal herding safety

· High quality posts for high stability

 horizont quality with high-quality copper conductors • 1 x herding net complete, 90 cm high, 50 m long

• 14 x posts with single tips

• 1 x repair kit, 1 x warning sign and 2 x ground stakes

• Replacement post with single tip Ø 13 cm, 90 cm (15022-1, p. 122)

· Replacement post with double tip Ø 13 cm, 90 cm

(15022-2, p. 122)







Clip

Head insulator

Ground stake

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
14364	90 cm	50 m	Single tip	14 plastic posts	white	yellow/black	8	7	$0.17~\Omega$ / m	1	99.95
14365	90 cm	50 m	Double tip	14 plastic posts	white	yellow/black	8	7	0.17 Ω / m	1	109.95



Wolf defence netting

★★ horinetz super

Suitable for: · Sheep and goats

· Wolf defence and deterrence of wild boars

Bottom mesh size:

• 15 cm high and 15 cm wide

• Extra high special net for wolf defence with 145 cm Advantages:

Scope of delivery:

Accessories:

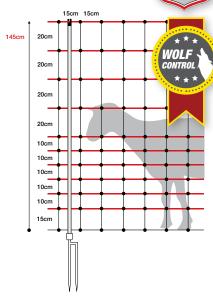
• High stability due to reinforced top and bottom polywires • 1 x herding net wolf defence netting horinetz super

complete, 145 cm high, 50 m long

• 15 plastic posts with double tips

1 x repair kit, 1 x warning sign and 2 x ground stakes
Replacement post with double tip Ø 19 cm, 145 cm high

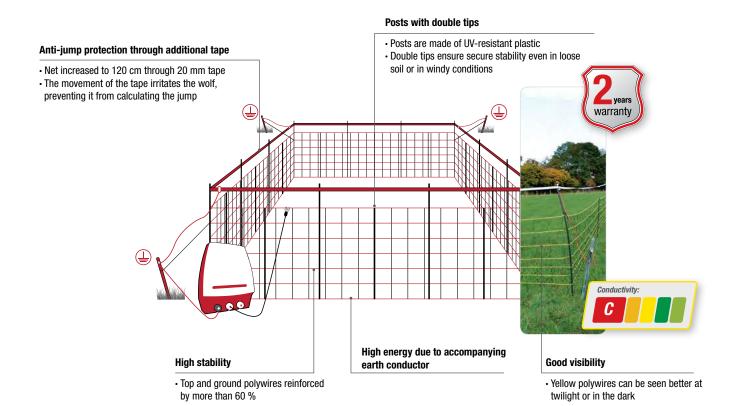
(14993, p. 122)

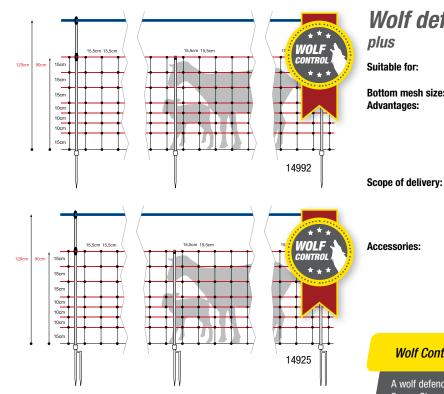


™www.horizont.com/14967

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	polywires	Conductivity	Unit	Price €	
14967	145 cm	50 m	Double tip	15 plastic posts	black	yellow/black	11	10	0.81 Ω / m	1	199.00	







Wolf defence netting ★★ horinetz super

plus

Suitable for:

· Sheep and goats

· Wolf defence and deterrence of wild boars

Bottom mesh size: Advantages:

• 15 cm high and 15.5 cm wide

· Recommended by the Saxon Sheep and Goat Breeding

Association

· Raised jump height through additional 20 mm tape at 120 cm

height

· Quick and easy assembly

· High energy due to accompanying earth conductor

• 1 x herding net wolf defence netting horinetz super plus

complete, 50 m long

• 15 x plastic posts with single or double tips

• 1 x additional post 1.20 m for adaptation to ground contour • 1 x repair kit, 1 x warning sign and 2 x ground stakes

• Replacement post with single tip Ø 13 mm, 90 cm high

(15022-1, p. 122)

• Replacement post with double tip Ø 13 mm, 90 cm high

(15022-2, p. 122)

• 20 mm tape (17111, p. 135)

• Earth stake for stepping down and earthing (15017-1, p. 92)

• Tape connection cable (10447C, p. 97)

Wolf Control:

A wolf defence system was developed together with the Saxon Sheep and Goat Breeding Association which is unique to date and has proven to prevent wolves from attacking farm animals.



Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
14992	90 / 120 cm	50 m	Single tip	15 plastic posts	white	yellow/black	8	7	$1.15\;\Omega$ / m	1	115.95
14925	90 / 120 cm	50 m	Double tip	15 plastic posts	white	vellow/black	8	7	1.15 Ω / m	1	129.95



Recommended by sheep breeding associations

WOLF DEFENCE

made by horizont



The current situation and our solutions for you

Wolves have been detected in nearly all parts of Germany. The wolf has returned to wide parts of Germany. The delight over what we consider to be an extinct animal is clouded by the fact that it considers farm animals to be part of its diet. This is backed up by the sufferings endured by sheep and goat farmers across the country. This is where the electric pasture fence comes into play, the development of which has been part of horizont's profession for decades. In several research projects in cooperation with the Saxon Sheep and Goat Breeding Association and the Baden-Württemberg State Sheep Breeding Association, horizont has developed reliable and particularly effective wolf defence systems to protect your farm animals. The nets have been extensively tested in practice and are recommended by the associations – for more safety on your pastures!

*** turbomax high energy

The turbomax high energy net is suitable for uneven terrain and mountains. Since the lower mesh spacings are particularly large, small wild animals can also slip through the net and remain unharmed. Rigid verticals in the net ensure solid stability. High energy in the net is ensured due to a reduced number of horizontal polywires. The reduced number of horizontal polywires guarantees a particularly high conductivity with low energy consumption of the pasture fence energiser.

** horinetz super plus

With the horinetz super with a height of 90 cm, a 20 mm wide tape can also be inserted at a height of 120 cm. Thanks to this special construction, the net can discourage the wolf from jumping over the net, because the wind moves the tape in the wolf's field of vision, irritating and preventing the wolf from calculating its jump over the net. UV-stable plastic posts in combination with double tips ensure a secure stability, even in loose soil or when windy.

** horinetz super

The horinetz super is an extra high special net for wolf defence with 145 cm height. In combination with further wolf defence measures, this high net offers a high level of protection against the wolf and prevents attacks on your animals. The stable posts with a 19 mm post diameter ensure the secure stability of the netting. This ensures that your animals are safely and reliably fenced in.



14503 / 14533 / 14534 (with additional earth conductor)



14992 / 14925



14967





Wolf defence netting

★★★ turbomax[®] high energy

Suitable for: • Sheep and goats

Wolf defence and deterrence of wild boars
 Wolf and 20 are wide.

Bottom mesh size: • 20 cm high and 30 cm wide

Advantages: • Due to large mesh spacing at the bottom, small wild

animals can slip through and are thus protected

Rigid verticals ensure solid stability

• Low weight – 10% lighter than conventional netting

• Reduced number of horizontal polywires provides high

energy due to less contact with vegetation

 White polywires for more contrast to the surroundings and better visibility in twilight and darkness

no better visibility in twilight and darkness
 horizont quality with high-quality copper conductor

Scope of delivery: • 1 x herding net turbomax high energy complete, 50 m

long

14 x plastic posts with double tip

• 1 x repair kit, 1 x warning sign and 2 x ground stakes

• Replacement post with double tip Ø 13 mm, 90 cm high

(15022-2, p. 122) or 105 cm high (15026-2, p. 122)

Wolf Control:

The particularly high herding safety is recommended by the Baden-Württemberg State Sheep Breeding Association. This sheep and goat net was developed together with horizont.







Mains connection

Head insulator Ground stake

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
14503	90 cm	50 m	Double tip	14 plastic posts	white	white/black	5	4	$0.33\;\Omega$ / m	1	89.95
14533	105 cm	50 m	Double tip	14 plastic posts	white	white/black	6	5	0.32 Ω / m	1	99.95



Wolf defence netting

★★★ turbomax® high energy plus earth

Suitable for: · Sheep and goats

• Wolf defence and deterrence of wild boars

Bottom mesh size: Advantages:

- 20 cm high and 30 cm wide
- Due to large mesh spacing at the bottom, small game can slip

through and are thus protected

- · Rigid verticals ensure solid stability
- · Low weight 10% lighter than conventional netting · Reduced number of horizontal polywires ensure high energy
- · Additional earth conductor ensures good earthing even in dry

· White polywires for more contrast to the surroundings and better

visibility in twilight and darkness

· horizont quality with high-quality copper conductor

• 1 x herding net turbomax high energy plus earth complete, 105 cm Scope of delivery:

high, 50 m long

- 14 x plastic posts with double tip
- 1 x repair kit, 1 x warning sign and 2 x ground stakes

Accessories: • Replacement post with double tip Ø 13 mm, 90 cm high

(15022-2, p. 122) or 105 cm high (15026-2, p. 122)

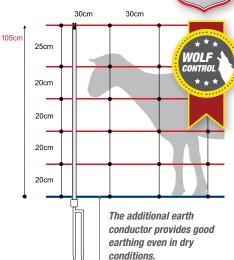


Mains connection Head insulator



Double	step	with	polywire	

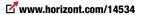
Art. No.	Net height	Net length	Tip	Number of posts and material		Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
14534	105 cm	50 m	Double tip	14 plastic posts	white	white/black	6	5	0.32 Ω / m	1	109.00



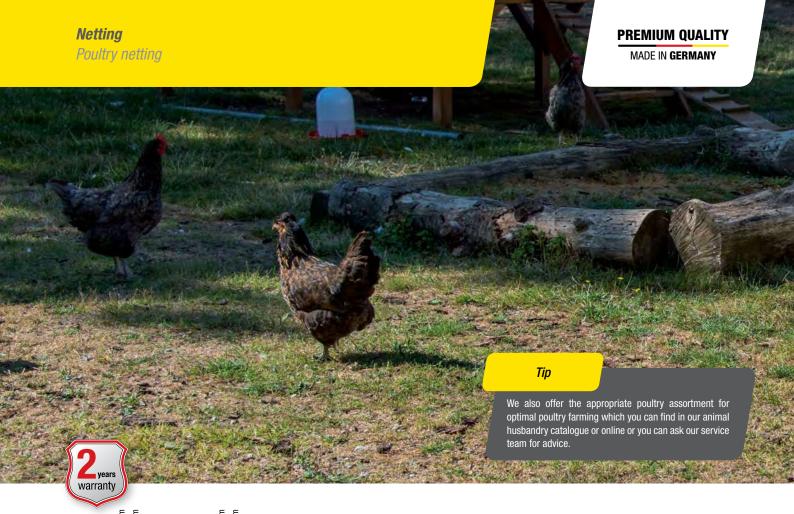
Wolf Control:

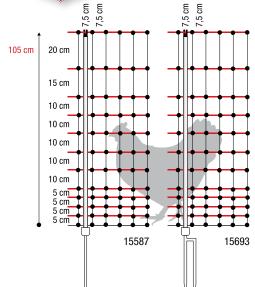
The particularly high herding safety is recommended by the Baden-Württemberg State Sheep Breeding Association. This sheep and goat net was developed together with horizont.

horizont









Poultry netting

★★ ranger®

Suitable for: Bottom mesh size: Advantages:

- · Chickens, turkeys, geese and ducks
- 5 cm high and 7.5 cm wide
- · High conductivity for optimal herding safety
- · High quality posts for high stability
- · Materials are rust-free and therefore extremely resistant
- 1 x poultry netting complete, 105 cm high, 50 m long Scope of delivery: • 15 x posts with single or double tips
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
- Accessories: • Replacement post with single tip Ø 13 cm, 105 cm high
 - (15026-1, p. 122)
 - Replacement post with double tip Ø 13 cm, 105 cm high (15026-2, p. 122)

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
15587	105 cm	50 m	Single tip	15 plastic posts	white	yellow/black	12	11	$0.74\;\Omega/m$	1	129.00
15693	105 cm	50 m	Double tip	15 plastic posts	white	yellow/black	12	11	0.74 Ω / m	1	138.95



Poultry netting (not electrifiable)

* ranger® security

Suitable for: Bottom mesh size: Advantages:

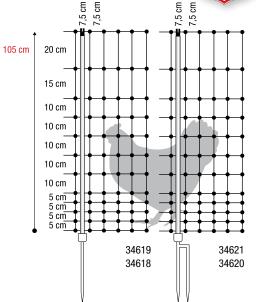
- · Chickens, turkeys, geese and ducks
- 5 cm high and 7.5 cm wide
- Tool-free connection of several nets
 - · High quality posts for high stability
 - · Without current-carrying conductors, no electrification

possible

Scope of delivery:

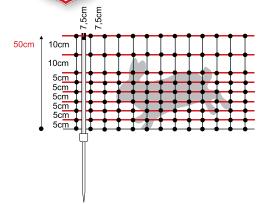
- 1 x poultry netting complete, 105 cm high, 50 m long
- · Posts with single or double tips
- · Connecting accessories
- Accessories: • Replacement post with single tip Ø 13 cm, 105 cm high

(18414, p. 122)



Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
34619	105 cm	25 m	Single tip	9 plastic posts	green	green	12	-	-	1	77.99
34621	105 cm	25 m	Double tip	9 plastic posts	green	green	12	-	-	1	84.99
34618	105 cm	50 m	Single tip	15 plastic posts	green	green	12	-	-	1	99.99
34620	105 cm	50 m	Double tip	15 plastic posts	green	green	12	-	-	1	108.95







Small animal net

** farmer® super

Suitable for:

Hares and rabbits

Bottom mesh size:

• 5 cm high and 7.5 cm wide

Advantages: • High quality posts for high stability

horizont quality with high-quality stainless steel

conductors

Scope of delivery:

• 1 x herding net complete, 50 cm high, 25 m long

• 9 x posts with single tips

• 1 x repair kit, 1 x warning sign and 2 x ground stakes

Accessories: • Replacement post with Ø 13 cm, 50 cm high

(15223, p. 122)

☑ www.horizont.com/15195

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
15195	50 cm	25 m	Single tip	9 plastic posts	green	green	9	8	1.01 Ω / m	1	69.95

Small animal net

★★ farmer® extra

Suitable for:

Bottom mesh size:

Advantages:

• Chicks, small
• 5 cm high an
• High quality p

Chicks, small hares and rabbits5 cm high and 7.5 cm wideHigh quality posts for high stability

horizont quality with high-quality stainless steel

conductors

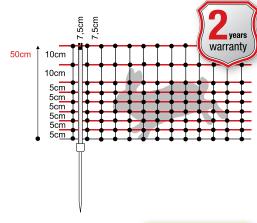
Scope of delivery: • 1 x herding net complete, 50 cm high, 50 m long

• 15 x posts with single tips

Connecting accessories

Accessories: • Replacement post with single tip Ø 13 cm 50 cm high

(15028, p. 122)





☑ www.horizont.com/15576

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €
15576	50 cm	50 m	Single tip	15 plastic posts	white	yellow/black	9	8	1.01 Ω / m	1	109.95

Small animal net

** farmer® plus

Suitable for: Bottom mesh size: Advantages:

- Chicks, small hares and rabbits6 cm high and 6 cm wide
- · High quality posts for high stability

 $\bullet\ \text{horizont quality with high-quality stainless steel}\\$

conductors

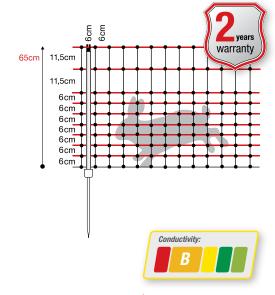
Scope of delivery: \cdot 1 x herding net complete, 65 cm high, 50 m long

• 15 x posts with single tips

• Connecting accessories

Accessories: • Replacement post with single tip Ø 13 cm, 50 cm high

(15223, p. 122)



horizont

www.horizont.com/14895

Art. No.	Net height	Net length	Tip	Number of posts and material	Colour of posts	Colour of net	Horizontal polywires	Current-carrying polywires	Conductivity	Unit	Price €	
14895	65 cm	50 m	Single tip	15 plastic posts	green	green	10	9	$0.90~\Omega$ / m	1	119.00	

Replacement posts **

		Single tip Single tip Single tip Single tip Single tip	Post height 50 cm 50 cm 75 cm	white green green	Diameter 13 mm 13 mm	Unit 1	Price € 2.79
	15223 15224 15022-1 15022-2	Single tip Single tip	50 cm 75 cm	green			
	15224 15022-1 15022-2	Single tip	75 cm		13 mm	1	0.70
	15022-1			green			2.79
	15022-2	Single tip			13 mm	1	2.79
			90 cm	white	13 mm	1	3.19
		Double tip	90 cm	white	13 mm	1	4.19
	15026-1		105 cm	white	13 mm	1	4.19
	18414	Single tip	105 cm	green	13 mm	1	4.19
	15026-2	Double tip	105 cm	white	13 mm	1	4.19
	15027-2	Double tip	105 cm	white	19 mm	1	4.49
	14384-2	Double tip	120 cm	white	15 mm	1	4.95
	14993	Double tip	145 cm	black	19 mm	1	4.85
100 cm							
00							
90 cm							
80 cm							
oo ciii							
70 cm			1				
60 cm							
50 cm							
40 cm							
30 cm							
20							
20 cm							
10 cm							
IV UII	MA		X	X	XXXX	JAK	IK SH
0 cm		AND A				MANA	1/1/1/
-10 cm						, ,	
-20 cm							
	15028	15223	15224	1 150		5022-2	15026-1

Repair kit ★★ for horinetz sheep netting

Art. No.	Unit	Price €
15029	1	3.99



Repair kit ★★ for turbomax® sheep netting

Art. No.	Unit	Price €
15029-6	1	3.49



Repair kit ★★ for poultry netting

Art. No.	Unit	Price €
15029-5	1	3 49



Spare parts ★★ for electric nets

Art. No.	Designation	Unit	Price €
15030-1	black plastic cap for post	1	0.85
15030-5	Stake	1	1.49
15030-2	black plastic eye	1	0.85
15030-23	Brass metal clip	1	0.85
15030-4	Stainless steel metal clip	1	1.49





06

CONDUCTOR MATERIAL & ACCESSORIES



An optimal pasture situation consists of a well built pasture fence. Tautly stretched and clearly visible conductor material is particularly important. The visibility of the conductor material for animals and humans is significant for the safety of the fence system. Attention should also be paid to a high conductivity to ensure a correspondingly high herding safety.

PRODUCT RANGE

Adviser Things to know about conductor material and accessories	р. 126
Product guide The practical overview to help you quickly find the appropriate cond	p. 12 uctor materia
Pasture fence tape	p. 13.
Pasture fence rope	p. 13
Pasture fence polywire	p. 14
Pasture fence wire	p. 14
Pasture fence connectors and tensioners	p. 14
Reels	p. 15

Things to know about

CONDUCTOR MATERIAL & ACCESSORIES

Conductor materials must be highly conductive, tear-resistant and weatherproof. Good visibility can increase the effect and is essential for fleeing animals like horses. Due to the risk of injury, barbed wire should not be used as a fence conductor. Apart from the pasture fence energiser, conductor material is one of the most important components of the fence system for mobile or permanent fencing. By choosing the right conductor, you can significantly influence herding safety.

1. The right choice of conductor material

Conductor materials can be plastic-metal mixtures or pure metallic materials - e.g. various electrifiable wires, these have the highest conductivity. Particular attention should be paid to the following values when selecting the conductor material:







The resistance is given The breaking load is in ohms/m. The lower given in kilograms and this value, the better the indicates the maximum conductor material. load (in kg) or tensile High resistance values force the conductor cannot be compensated material can withstand. even with powerful pasture fence energisers!



The number and thickness of the currentconductors carrying information provides about its conductivity. The more conductors and the thicker the conductors are in the conductor material, the more current is carried

Several levels in the fence:

When using several levels in the fence, the following should be noted:

- · The total resistance of the fence system decreases with each additional level (conductor material) - but it is always smaller than the lowest resistance value
- · With fencing, the same conductor material should always be used on the different levels, as this guarantees optimum herding safety - different conductor materials can also be mixed in the fence system under special conditions (e.g. in cattle farming)
- · If the lowest level of the conductor material is covered with vegetation, the energy loss from the fence increases due to current leakage
- · Ideally, the levels in the fence are free of vegetation, which has a positive effect on the maximum fence length
- · For outdoor fencing, the use of conductor material with low resistance values is recommended - however, subdivisions in the fence or strip grazing can also be equipped with conductor material with higher Ω/m values due to their small size

In general: The better the electricity is transported in the fence, the longer fences can be built or the higher the herding voltage in the fence.

Recommendations for different types of animals:

For different types of animals, horizont recommends different conductor materials and a certain number of levels* when building fences:

Horses:



horizont recommends fencing horses with 40 mm wide pasture fence tape; horses are fleeing animals, and the wider the pasture fence tape, the better it is perceived by the animals. This considerably reduces the risk of injury and breakout of your animals!

Cattle:



horizont recommends fencing cattle with pasture fence rope or polywire.

Sheep and goats:



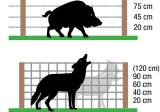
Sheep and goats can be fenced in locally with pasture fence polywire. Alternatively, electric nets are also ideal for herding such animals.

Poultry:



horizont recommends fencing in poultry with electric nets.

Wildlife or wolf defence:



horizont recommends securing corn fields or forest areas against wild boars with pasture fence tape or rope. For wolf defence and for the protection of sheep or goats, horizont recommends the use of special wolf defence netting.

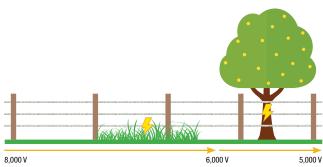




The horizont service for you:

All horizont conductor materials come with a three to five year warranty.

2. Malfunctions at the fence



The above diagram illustrates the malfunctions that can be caused by vegetation at the fence, for example. Consequently, the fence should always be kept in proper condition, the fence voltage should be checked regularly, the fence should be kept free of vegetation and connectors should be used if a conductor breaks. This will increase the durability of your fence and the safety of your animals will not be reduced by avoidable defects in the fence.







Conductor material attached to wood posts, often resulting from incorrectly attached insulators, can also influence the current flow. The conductor material should always be run in appropriate insulators.

3. Tips for handling conductor material

If the conductor material is torn, use suitable accessories such as connectors (p. 148) to restore the herding safety. If the conductor material is sagging and needs to be re-tensioned, use the appropriate tensioners to keep it properly at height again (p. 150). Do not wrap the conductor material in the dry room of the insulators; this can cause spark-overs on the support of the insulator.

In winter, water accumulation can cause the conductor material to be significantly heavier and sag. If you do not use your pasture in winter, dismantle your fence. To store the conductor material in a simple and practical way, it is recommended to wind it on reels (p. 152). This allows direct storage and also makes it easier to rebuild the fence in spring by using reels.

Do not knot the conductor material, as a constant current flow in the fence is no longer guaranteed in this case. Instead, use suitable connectors from horizont (p. 148).





In particularly wind-exposed areas, pasture fence tapes should be twisted when tensioned, as this reduces the surface area exposed to gusts of wind and gives your fence greater stability.



Important icons for this chapter:

Product describing icons: These icons describe insulator features.



Polypro-

pylene

Zinc Coated







Galvanized Aluminium

Cross Selling Icons:

These icons refer to products that are additionally required and are compatible with the selected product.















Gate handle

4. Different levels of quality

Various technologies were developed for the horizont conductor material to make it even more conductive. The different resistance values are decisive here:



turbomax® $0.08 - 0.17 \Omega / m$

ranger® 0.20 - 0.53 Ω / m

hotshock® 0.24 - 0.53 Ω / m

The conductivity:

The required herding pulse energy can be achieved through high electrical conductivity. Each horizont conductor material type contains information on conductivity, e.g. the symbol A++, which stands for the highest conductivity.





CONDUCTOR MATERIAL

Pasture fence tapes

Fence length*				Type of	f anima	al			Width	Breaking load	Colour	Prod	uct	
т	M	100	Ħ	1670	at	燻	¥	₹	mm	~ kg		Designation	Art. No.	Page
210		•	۰			•			10	20	white	★ trapper® T10 - W	17280	133
280		•	•			•			20	40	white	★ trapper® T20 - W	17281	133
210		•	•	•	•	•		•	10	40	white	★★ farmer® T10 - W	17451	133
210		•	•	•	•	•		•	10	40	yellow/orange	★★ farmer® T10 - 0	17287	133
280		•	•	•	•	•		•	20	90	white	★★ farmer® T20 - W	17475	133
280		•	•	•	•	•		•	20	90	white	★★ farmer® T20 - W	17272	133
280		•	•	•	•	•		•	20	90	yellow/orange	★★ farmer® T20 - 0	17528	133
280		•	•	•	•	•		•	20	90	green	★★ farmer® T20 - G	17475GR	133
560	•	•	•	•	•	•		•	40	120	white	★★ farmer® T40 - W	17458	133
560	•	•	•	•	•	•		•	40	120	green	★★ farmer® T40 - G	17458GR	133
5,600		•		•	•			•	12	100	white/red	★★ hotshock® T12 - W	17202	134
9,100		•		•	•	•	•	•	20	130	white/bright green	Happy NT2.0	17136HG	135
9,100		•		•	•	•	•	•	20	130	white/purple	Happy NT2.0	17136LI	135
9,100		•		•	•	•	•	•	20	130	white/turquoise	Happy NT2.0	17136TU	135
15,000	•	•		•	•	•	•	•	40	260	white/bright green	Happy NT4.0	17137HG	135
15,000	•	•		•	•	•	•	•	40	260	white/purple	Happy NT4.0	17137LI	135
15,000	•	•		•	•	•	•	•	40	260	white/turquoise	Happy NT4.0	17137TU	135
9,100		•	•	•	•			•	12	60	yellow/blue/ green	*** ranger® FLU0 T12	17116	134
9,100		•	•	•	•			•	12	60	white/yellow	*** ranger® T12 - W	17113	134
9,100		•		•	•			•	12	60	green	★★★ green power T12	17118	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	white	*** ranger® T40 - W-E	17124	134
15,000	•	•	•	•	•			•	40	260	brown	*** ranger® T40 - B-E	17125	134
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

excellently suited for

conditionally suited for

Pasture fence ropes

Fence length*				Type of	f anima	al .			Ø	Breaking load	Colour	Prod	uct	
т	M	No.	Ħ	1	at	燻	¥	RT.	mm	~ kg		Designation	Art. 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	138
13,700		•	•	•	•	•			6	250	white/yellow	★★★ ranger® R6	17182-400	138
13,700		•	•	•					6	350	green	★★★ green power R6	17183	138
13,700		•	•	•					6	350	green	★★★ green power R6	17183-400	138
17,700		•		•	•			•	6	500	white/black	*** turbomax® R6-PE	17180	139
17,700		•		•	•			•	6	500	white/black	*** turbomax® R6-PE	17180-400	139
17,700		•		•	•			•	6	500	white/black	*** turbomax® R6-PE	17180-800	139
23,100		•	•	•	•	•		•	3	200	white/black	★★★ turbomax® braided rope D3	14512	139
23,100		•	•	•	•	•		•	3	200	white/black	★★★ turbomax® braided rope D3	14512-400	139
33,300		•	•	•	•	•		•	5.5	600	white/black	*** turbomax® braided rope D5.5	14513	139

Pasture fence wires

Fence length*				Type of	f anima	al .			Ø	Breaking load	Material	Prod	luct	
т	RT	A. T	Ħ	100	at	煮	*	RT.	mm	~ kg		Designation	Art. No.	Page
8,300		•	•	•					1.5	30	Iron	Original control wire	14505-500	145
8,300		•	•	•					1.5	30	Iron	Original control wire	14505-1000	145
8,300		•	•	•	•				1.5	30	Iron	Dederon polywire	15531S	145
8,300		•	•	•	•				1.5	30	Iron	Dederon polywire	15833S	145
60,000		•	•		•	•	•		1.8	500	galvanized	★★ Steel wire	15036	146
25,000		•	•	•	•	•	•		1.5	200	galvanized	★★ Stranded wire	15009	146
25,000		•	•	•					1.5	200	galvanized	★★ Stranded wire	14134	146
25,000		•	•	•					1.5	200	galvanized	★★ Stranded wire	14134-400	146
50,000		•	•	•	•		•	•	1.6	200	galvanized	★★★ GALVADUR	15904	147
75,000		•	•	•	•		•	•	2.5	500	galvanized	★★★ GALVADUR	15945	147

..

4









CONDUCTOR MATERIAL

Pasture fence polywires

Fence length*									Breaking load	Colour	Prod	uct	
т	M	1	Ħ	1	at	燻	¥	n ™	~ kg		Designation	Art. No.	Page
210		•				•	•		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	white	★★ farmer® W3 - W	15346	141
300		•	•		•	•	•	•	50	yellow/orange	★★ farmer® W3 - 0	15345	141
8,600		•	•	•	•		•	•	100	white/red	** hotshock® W6 - R	17203	142
8,600		•	•	•	•		•	•	100	white/red	★★ hotshock® W6 - R	17208	142
12,700		•	•	•	•		•	•	100	white/red	★★ hotshock® W9 - R	17204	142
12,700		•	•	•	•		•	•	100	white/red	★★ hotshock® W9 - R	17209	142
8,600		•	•	•	•		•		160	orange/grey	*** ranger® W3 - 0	17143	142
8,600		•	•	•	•		•		160	orange/grey	*** ranger® W3 - 0	17143-400	142
8,600		•	•	•	•		•		160	orange/grey	*** ranger® W3 - 0	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® FLU0 W3	17145-400	142
25,000		•	•	•	•		•		180	white/black	*** turbomax® W6	17140	143
25,000		•	•	•	•		•		180	white/black	*** turbomax® W6	17140-400	143
25,000		•	•	•	•		•		180	white/black	*** turbomax® W6	17140-1000	143
27,300		•	•	•	•		•		200	white/black	*** turbomax® W9	17141	143
27,300		•	•	•	•		•		200	white/black	*** turbomax® W9	17141-400	143
27,300		•	•	•	•		•		200	white/black	*** turbomax® W9	17141-1000	143
37,500		•	•	•	•		•		200	white/black	*** turbomax® W12	17142	143
37,500		•	•	•	•		•		200	white/black	*** turbomax® W12	17142-400	143
37,500		•	•	•	•		•		200	white/black	*** turbomax® W12	17142-1000	143

excellently suited for
 conditionally suited for



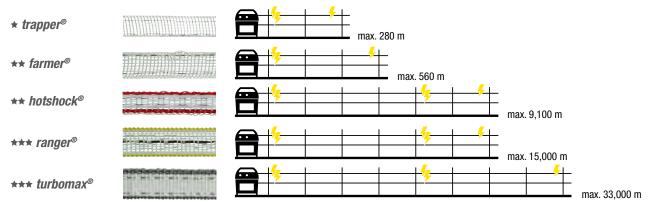


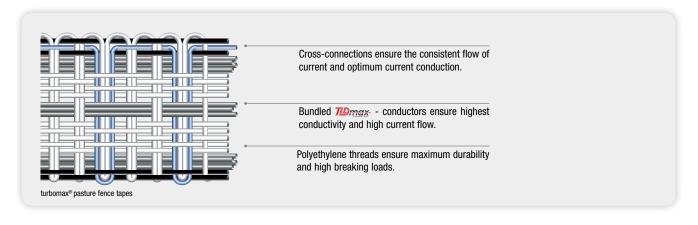
PASTURE FENCE TAPE

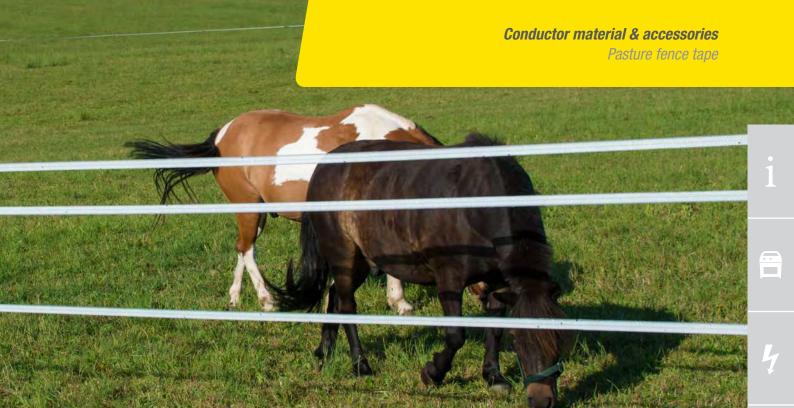
horizont pasture fence tapes are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate pasture fence tape for every individual application. When choosing the conductor material, pay attention to width and colour for optimum herding safety.

Maximum fence lengths:

The length specifications show the maximum possible fence length of a level without vegetation with an appropriately strong pasture fence energiser.







Pasture fence tape ★ trapper®

Suitable for: Advantage:

Colour:

· Short fences and strip grazing

Monofilaments with high UV stability

Stainless steel conductor for good conductivity and highest handing strength

highest bending strength

White: for more contrast to the surroundings and better

visibility in twilight and darkness



www.horizont.com/Art. no.

Art. No.	Designation	Width	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
17280	trapper® T10 - W	10 mm	250 m	210 m	~ 20 kg	3	0.15 mm	14.40 Ω/m	white	1	12.49
17281	trapper® T20 - W	20 mm	250 m	280 m	~ 40 kg	4	0.15 mm	10.80 Ω/m	white	1	14.49

Pasture fence tape ** farmer®

Suitable for:

- · Short fences and strip grazing
- Advantage:
- High breaking loads
- · Monofilaments with high UV stability
- Stainless steel conductor for good conductivity and

highest bending strength

Colour:

- White: for more contrast to the surroundings and better
- visibility in twilight and darkness
- Yellow/orange: good visibility
- Green: blends in well with nature



www.horizont.com/Art. no.

Art. No.	Designation	Width	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
17451	farmer® T10 - W	10 mm	200 m	210 m	~ 40 kg	3	0.15 mm	14.40 Ω/m	white	1	12.45
17287	farmer® T10 - 0	10 mm	200 m	210 m	~ 40 kg	3	0.15 mm	14.40 Ω/m	yellow/orange	1	11.95
17475	farmer® T20 - W	20 mm	200 m	280 m	~ 90 kg	4	0.15 mm	10.80 Ω/m	white	1	14.99
17272	farmer® T20 - W	20 mm	2 x 200 m	280 m	~ 90 kg	4	0.15 mm	10.80 Ω/m	white	1	27.95
17528	farmer® T20 - 0	20 mm	200 m	280 m	~ 90 kg	4	0.15 mm	10.80 Ω/m	yellow/orange	1	14.45
17475GR	farmer® T20 - G	20 mm	200 m	280 m	~ 90 kg	4	0.15 mm	10.80 Ω/m	green	1	14.99
17458	farmer® T40 - W	40 mm	200 m	560 m	~ 120 kg	8	0.15 mm	5.40 Ω/m	white	1	21.99
17458GR	farmer® T40 - G	40 mm	200 m	560 m	~ 120 kg	8	0.15 mm	5.40 Ω/m	green	1	21.99





Pasture fence tape ★★ hotshock®

Suitable for: Advantage:

Colour:

- · Medium fence lengths
- Greater durability due to additional corrosion protection
- · Reinforced conductor material with higher breaking load
- Specifically for strong devices (e.g. wildlife defence)
- · White/red: good visibility for animal and human

www.horizont.com/17202

Art. No.	Designation	Width	Reel	Max. fence length	Breaking load	Number of conductors	TBmax-	Resistance	Colour	Unit	Price €
17202	hotshock® T12	12 mm	250 m	5,600 m	~ 100 kg	4	0.30 mm	0.53 Ω/m	white/red	1	20.99





Pasture fence tape *** ranger®

Suitable for: Advantage:

Colour:

- Medium to long fences
- · High conductivities
- Polyethylene monofilaments for high tensile strength
- Bundled Demox conductors for highest current flow
- High tensile loads can be absorbed by particularly reinforced outer edges (only for 17121, 17122, 17124, 17125)
- · White with yellow outer edges: for more contrast to the surroundings and better visibility in twilight and darkness
- · Yellow/blue/green: fluorescent effect, especially good visibility against darker backgrounds like forests
- · Green: blends in well with nature
- · Brown: blends in well for stable wooden fence

Art. No.	Designation	Width	Reel	Max. fence length	Breaking load	Number of conductors	TDmax-	Resistance	Colour	Unit	Price €
17116	ranger® FLU0 T12	12 mm	200 m	9,100 m	~ 60 kg	4	0.22 mm	0.33 Ω/m	yellow/blue/green	1	21.99
17113	ranger® T12 - W	12 mm	200 m	9,100 m	~ 60 kg	4	0.22 mm	0.33 Ω/m	white/yellow	1	20.99
17118	green power T12	12 mm	200 m	9,100 m	~ 60 kg	4	0.25 mm	0.33 Ω/m	green	1	19.95
17114	ranger® T20 - W	20 mm	200 m	11,100 m	~ 120 kg	5	0.22 mm	0.27 Ω/m	white/yellow	1	26.95
17115	ranger® T40 - W	40 mm	200 m	15,000 m	~ 180 kg	8	0.20 mm	0.20 Ω/m	white/yellow	1	43.95
17121	ranger® T20 - W-E	20 mm	200 m	9,100 m	~ 150 kg	4	0.22 mm	0.33 Ω/m	white	1	39.95
17122	ranger® T20 - B-E	20 mm	200 m	9,100 m	~ 150 kg	4	0.22 mm	0.33 Ω/m	brown	1	39.95
17124	ranger® T40 - W-E	40 mm	200 m	15,000 m	~ 260 kg	8	0.20 mm	0.20 Ω/m	white	1	61.95
17125	ranger® T40 - B-E	40 mm	200 m	15,000 m	~ 260 kg	8	0.20 mm	0.20 Ω/m	brown	1	61.95



Pasture fence tape happy

Suitable for: Advantage:

- Medium fence lengthsHigh breaking loads
- Advantage: High breaking loads
 Colour: White/light green, w

 White/light green, white/purple, white/turquoise: white with a thick coloured thread on each of the outer edges, for more contrast to the surroundings and better visibility at twilight and in the dark



www.horizont.com/Art. no.

Art. No.	Designation	Width	Reel	Max. fence length	Breaking load	Number of conductors	TD max	Resistance	Colour	Unit	Price €
17136HG	Happy NT2.0	20 mm	200 m	9,100 m	~ 130 kg	4	0.22 mm	0.33 Ω/m	white/bright green	1	39.95
17136LI	Happy NT2.0	20 mm	200 m	9,100 m	~ 130 kg	4	0.22 mm	0.33 Ω/m	white/purple	1	39.95
17136TU	Happy NT2.0	20 mm	200 m	9,100 m	~ 130 kg	4	0.22 mm	0.33 Ω/m	white/turquoise	1	39.95
17137HG	Happy NT4.0	40 mm	200 m	15,000 m	~ 260 kg	8	0.20 mm	0.20 Ω/m	white/bright green	1	59.95
17137LI	Happy NT4.0	40 mm	200 m	15,000 m	~ 260 kg	8	0.20 mm	0.20 Ω/m	white/purple	1	59.95
17137TU	Happy NT4.0	40 mm	200 m	15,000 m	~ 260 kg	8	0.20 mm	0.20 Ω/m	white/turquoise	1	59.95

Pasture fence tape *** turbomax®

Suitable for: Advantage:

Colour:

- · Long to very long fences
- · High conductivity ensures high herding safety
- Conductors of **Turnes** are extremely weather-resistant
- Cross-connections guarantee a continuous current flow and ensure optimum current conduction even in the event of conductor breakage
- Polyethylene threads ensure maximum durability and

high breaking loads

 White: with black outer edges: for more contrast to the surroundings and better visibility in twilight and

darkness



Art. No.	Designation	Width	Reel	Max. fence length	Breaking load	Number of conductors	TDmex-	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
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	29.45
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	38.95
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	63.95

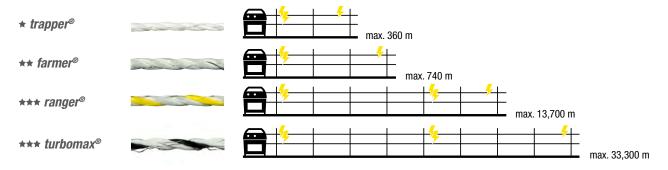


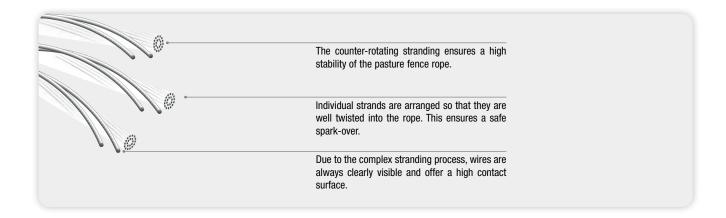
PASTURE FENCE ROPE

horizont pasture fence ropes are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate pasture fence rope for every individual application. When choosing the conductor material, observe the diameter and colour for optimum herding safety.

Maximum fence lengths:

The length specifications show the maximum possible fence length of a level without vegetation with an appropriately strong pasture fence energiser.







Pasture fence rope ★ trapper®

Suitable for: Advantage: Short fences and strip grazing

Advantage Colour:

• Particularly lightweight rope with just Ø 4 mm

· White: for more contrast to the surroundings and better

visibility in twilight and darkness



www.horizont.com/17285

Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
17285	trapper® R4	4 mm	250 m	360 m	~ 120 kg	3	0.20 mm	8.10 Ω/m	white	1	17.99

Pasture fence rope ** farmer®

Suitable for: Advantage: • Short fences and strip grazing with little vegetation

• 462560: flexible pasture fence rope, ideally suited for

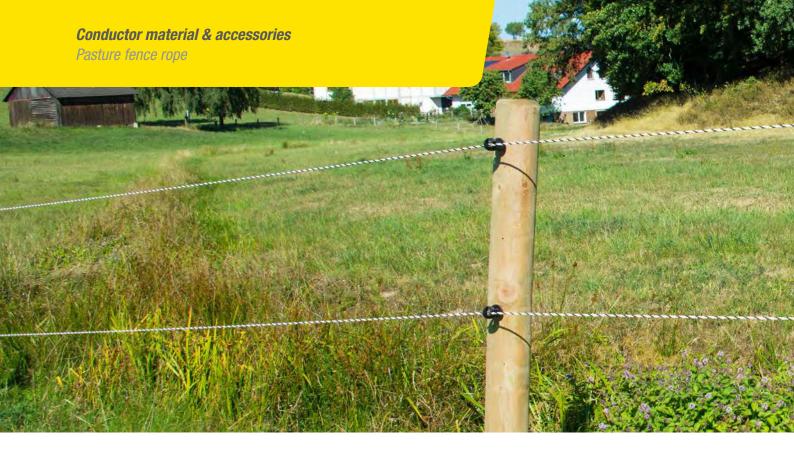
use on pasture gates

Colour:

• White: for more contrast to the surroundings and better visibility in twilight and darkness



Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
153372	farmer® R6	6 mm	200 m	740 m	~ 250 kg	6	0.20 mm	4.05 Ω/m	white	1	25.99
153372- 400	farmer® R6	6 mm	400 m	740 m	~ 250 kg	6	0.20 mm	4.05 Ω/m	white	1	46.95
462560	farmer® stretch W3	8 mm	50 m	370 m	~ 100 kg	3	0.20 mm	8.10 Ω/m	white/black	1	59.99







Pasture fence rope *** ranger®

Suitable for: Advantage:

Colour:

- Medium to long fences
- High number of wires ensures high current flow
 Polyethylene threads with high tensile strength

 - White: for more contrast to the surroundings and better visibility in twilight and darkness
 - · Green: blends in well with nature

Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	TDmgx-	Resistance	Colour	Unit	Price €
17182	ranger® R6	6 mm	200 m	13,700 m	~ 250 kg	6	0.22 mm	0.22 Ω/m	white/yellow	1	40.95
17182-400	ranger® R6	6 mm	400 m	13,700 m	~ 250 kg	6	0.22 mm	0.22 Ω/m	white/yellow	1	76.95
17183	green power R6	6 mm	200 m	13,700 m	~ 350 kg	6	0.22 mm	0.22 Ω/m	white/green	1	39.95
17183-400	green power R6	6 mm	400 m	13,700 m	~ 350 kg	6	0.22 mm	0.22 Ω/m	white/green	1	75.95



Pasture fence rope *** turbomax®

Suitable for: Advantage:

- · Long to very long fences with strong vegetation
- The **The rest** conductors ensure highest conductivity and secure a high current flow
- · High tensile strength for long outdoor use
- · PE monofilaments for long durability

Colour: · White/black: for more contrast to the surroundings and

better visibility in twilight and darkness



www.horizont.com/Art. no.

Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	TD mex	Resistance	Colour	Unit	Price €
17180	turbomax® R6-PE	6 mm	200 m	17,700 m	~ 500 kg	6	0.25 mm	0.17 Ω/m	white	1	50.99
17180-400	turbomax® R6-PE	6 mm	400 m	17,700 m	~ 500 kg	6	0.25 mm	0.17 Ω/m	white	1	99.95
17180-800	turbomax® R6-PE	6 mm	800 m	17,000 m	~ 500 kg	6	0.25 mm	0.17 Ω/m	white	1	199.00

Pasture fence rope *** turbomax® braided rope

Suitable for:

· Long to very long fences with strong vegetation · Mobile fences that are frequently erected and dismantled

Advantage:

- · Strong conductivity due to high number of mixed conductors (copper and stainless steel)
- High number of conductors ensures high current flow
- Braided structure of the plastic monofilaments ensures a high tensile strength and well protected conductor wires, thus achieving long-term resistance

· PE monofilaments for long durability

Colour:

All prices include the statutory value added tax.

· White/black: for more contrast to the surroundings and better visibility in twilight and darkness



Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Ø Copper conductor	Resistance	Colour	Unit	Price €
14512	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	30.95
14512-400	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	56.95
14513	turbomax® braided rope D5.5	5.5 mm	200 m	33.3 km	~ 600 kg	6	3 x 0.20 mm	3 x 0.30 mm	0.09 Ω/m	white/black	1	61.95

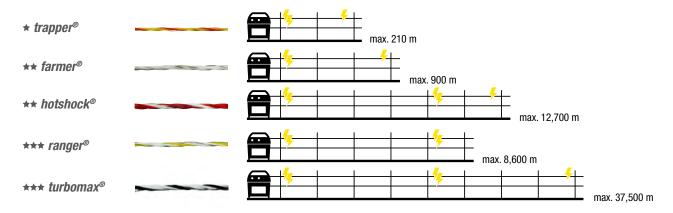


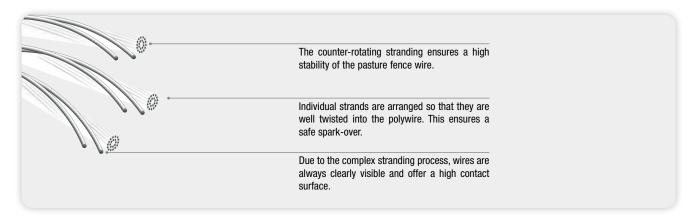
PASTURE FENCE POLYWIRE

horizont pasture fence polywires are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate pasture fence polywire for every individual application. All horizont pasture fence wires are clearly visible at twilight, which is important due to the small diameter.

Maximum fence lengths:

The length specifications show the maximum possible fence length of a level without vegetation with an appropriately strong pasture fence energiser.







Pasture fence polywire ★ trapper®

Suitable for:

· Short fences and strip grazing

Advantage: Colour: • Simply quality optimal for the hobby sector

• Orange: good visibility for animal and human



☑ www.horizont.com/15567

Art. No.	Designation	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
15567	trapper® W3	250 m	210 m	~ 30 kg	3	0.15 mm	14.4 Ω/m	yellow/orange	1	8.99

Pasture fence wire ** farmer®

Suitable for: Advantage:

- ${\boldsymbol{\cdot}}$ Short to medium fences
- Average breaking loads
- ${\mbox{\footnote{h}}}$ Double the amount of monofilaments compared to a

standard quality

Colour:

 \bullet White: for more contrast to the surroundings and better

visibility in twilight and darkness

Yellow/orange: good visibility for animal and human



Art. No.	Designation	Reel	Max. fence length	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	Price €
15347	farmer® W9 - W	250 m	900 m	~ 70 kg	9	0.18 mm	3.33 Ω/m	white	1	22.99
15277	farmer® W9 - W	400 m	900 m	~ 70 kg	9	0.18 mm	3.33 Ω/m	white	1	31.95
15282	farmer® W6 - W	250 m	600 m	~ 60 kg	6	0.18 mm	4.98 Ω/m	white	1	17.95
15283	farmer® W6 - W	400 m	600 m	~ 60 kg	6	0.18 mm	4.98 Ω/m	white	1	26.95
15346	farmer® W3 - W	250 m	300 m	~ 50 kg	3	0.18 mm	9.99 Ω/m	white	1	14.95
15345	farmer® W3 - 0	250 m	300 m	~ 50 kg	3	0.18 mm	9.99 Ω/m	yellow/orange	1	15.49







Pasture fence wire ★★ hotshock®

Suitable for: Advantage:

- · Short to medium fences
- 5 times higher conductivity than stainless steel
- Longer durability through additional protection
- Specifically for strong devices (e.g. sheep protection, wildlife defence)

Colour: • White

 White/red: for more contrast to the surroundings and better visibility in twilight and darkness

www.horizont.com/Art. no.

Art. No.	Designation	Reel	Max. fence length	Breaking load	Number of conductors	TB max	Resistance	Colour	Unit	Price €
17203	hotshock® W6 - R	250 m	8,600 m	~ 100 kg	6	0.30 mm	0.36 Ω/m	white/red	1	27.95
17208	hotshock® W6 - R	400 m	8,600 m	~ 100 kg	6	0.30 mm	0.36 Ω/m	white/red	1	43.95
17204	hotshock® W9 - R	250 m	12,700 m	~ 100 kg	9	0.30 mm	0.24 Ω/m	white/red	1	32.95
17209	hotshock® W9 - R	400 m	12,700 m	~ 100 kg	9	0.30 mm	0.24 Ω/m	white/red	1	52.99



www.horizont.com/Art. no.



Pasture fence polywire *** ranger®

Suitable for: Advantage:

- Medium to long fences
- High conductivity, high tensile strengths and safe and high current flow

Colour:

- White/yellow: for more contrast to the surroundings and better visibility in twilight and darkness
- · Orange/grey: good visibility for animal and human
- Yellow/blue/green: fluorescent effect, especially good visibility against darker backgrounds like forests

Art. No.	Designation	Reel	Max. fence length	Breaking load	Number of conductors	TDmax-	Resistance	Colour	Unit	Price €
17143	ranger® W3 - 0	200 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	orange/grey	1	18.99
17143-400	ranger® W3 - 0	400 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	orange/grey	1	36.95
17143-1000	ranger® W3 - 0	1000 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	orange/grey	1	89.95
17144	ranger® W3 - W	200 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	white/yellow	1	18.99
17144-400	ranger® W3 - W	400 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	white/yellow	1	37.95
17144-1000	ranger® W3 - W	1000 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	white/yellow	1	90.95
17145-400	ranger® FLU0 W3	400 m	8.6 km	~ 160 kg	3	0.25 mm	0.35 Ω/m	yellow/blue/green	1	37.95



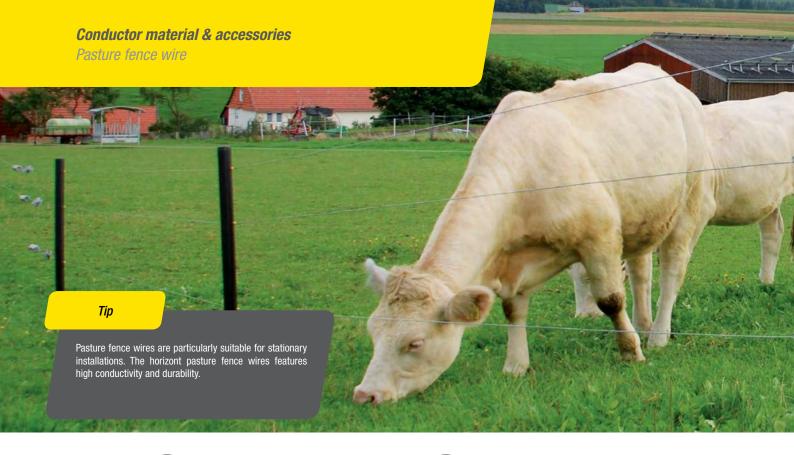
Pasture fence wire *** turbomax®

Suitable for: Advantage: Colour:

 Long to very long fences with strong vegetation
 High conductivity and safe and high current flow
 White/black: for more contrast to the surroundings and better visibility in twilight and darkness



Art. No.	Designation	Reel	Max. fence length	Breaking load	Number of conductors	TD max-	Resistance	Colour	Unit	Price €
17140	turbomax® W6	200 m	25 km	~ 180 kg	6	0.30 mm	0.12 Ω/m	white/black	1	25.95
17140-400	turbomax® W6	400 m	25 km	~ 180 kg	6	0.30 mm	0.12 Ω/m	white/black	1	50.99
17140-1000	turbomax® W6	1000 m	25 km	~ 180 kg	6	0.30 mm	0.12 Ω/m	white/black	1	99.00
17141	turbomax® W9	200 m	27.3 km	~ 200 kg	9	0.25 mm	0.11 Ω/m	white/black	1	31.95
17141-400	turbomax® W9	400 m	27.3 km	~ 200 kg	9	0.25 mm	0.11 Ω/m	white/black	1	61.95
17141-1000	turbomax® W9	1000 m	27.3 km	~ 200 kg	9	0.25 mm	0.11 Ω/m	white/black	1	139.00
17142	turbomax® W12	200 m	37.5 km	~ 220 kg	12	0.25 mm	0.08 Ω/m	white/black	1	35.95
17142-400	turbomax® W12	400 m	37.5 km	~ 220 kg	12	0.25 mm	0.08 Ω/m	white/black	1	69.95
17142-1000	turbomax® W12	1000 m	37.5 km	~ 220 kg	12	0.25 mm	0.08 Ω/m	white/black	1	161.99



PASTURE FENCE WIRE

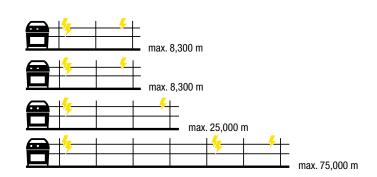
horizont pasture fence wires are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate pasture fence wire for every individual application. For optimum herding safety, observe the diameter and processing (solid or coiled wire) when choosing the conductor material.

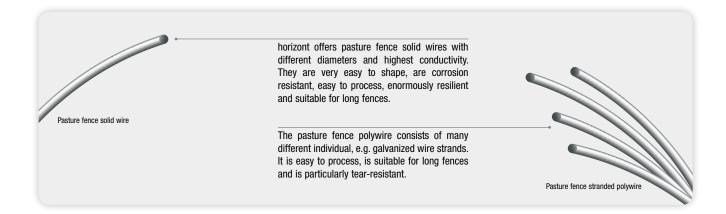
Maximum fence lengths:

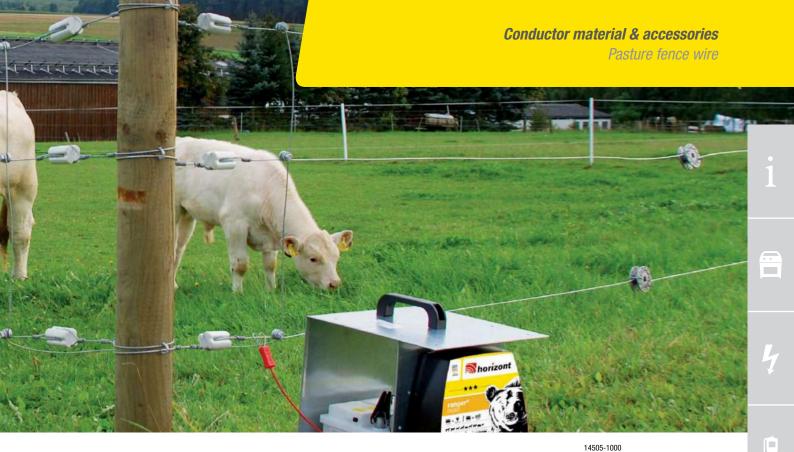
The length specifications show the maximum possible fence length of a level without vegetation with an appropriately strong pasture fence energiser.



- ** Steel wire
- ** Stranded wire
- *** Permanent fencing GALVADUR







Pasture fence wire Original Control Wire

Suitable for: • Short to medium fence lengths

Advantage: • High tear resistance and ductility (without loss of conductivity)

Safe voltage transition to the animal

• Plastic core ø 1.5 mm

· Wrapped with 2 special conductors (galvanized iron wire)

Material: • Iron









Exclusive

The electric pasture fence wire "type Control" is highly regarded - and for more than 60 years at that. The benefits are particularly well known in the new German states. horizont has succeeded in ensuring the continuation of this successful product in the accustomed original quality. The original control wire is produced in Wittgensdorf/Saxony and is exclusively distributed by horizont. This is to ensure the preservation of this product and its further development.

Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Resistance	Material	Unit	Price €
14505-500	Original control wire	1.5 mm	500 m	8,300 m	~ 30 kg	2	0.36 Ω/m	Iron	1	25.95
14505-1000	Original control wire	1.5 mm	1000 m	8,300 m	~ 30 kg	2	0.36 Ω/m	Iron	1	44.95

Pasture fence wire Original Control Wire

Suitable for:
Advantage:
Short to medium fence lengths
Safe voltage transition to the animal

• Plastic core ø 1.4 mm

Wrapped with 2 special conductors (galvanized iron wire)

Material: • Iron





Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Resistance	Material	Unit	Price €
15531S	Dederon polywire	1.4 mm	500 m	8.3 km	~ 30 kg	2	0.35 Ω/m	Iron	1	25.95
15833S	Dederon polywire	1.4 mm	1000 m	8.3 km	~ 30 kg	2	0.35 Ω/m	Iron	1	45.95





Pasture fence wire ** iron

Suitable for:

• Medium fence lengths

Advantage:

Solid wire

☑ www.horizont.com/15036

Art. I	No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Resistance	Material	Unit	Price €
150	36	Steel wire	1.8 mm	250 m	60.0 km	~ 500 kg	1	0.05 Ω/m	galvanized	1	16.99



Pasture fence wire ** stranded wire

Suitable for:

· Medium fence lengths

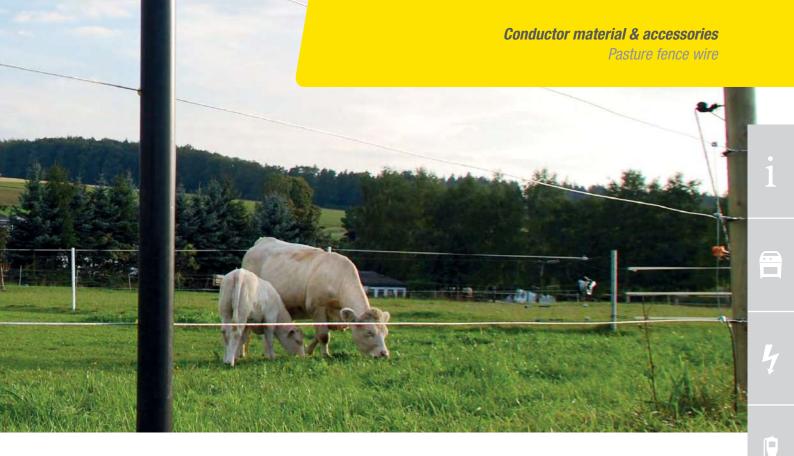
Advantage:

• 7 wires wound into one conductor

· Wire is particularly flexible

www.horizont.com/Art. no.

Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Resistance	Material	Unit	Price €
15009	Stranded wire	1.5 mm	200 m	25.0 km	~ 200 kg	7	0.12 Ω/m	galvanized	1	13.95
14134	Stranded wire	1.5 mm	200 m	25.0 km	~ 200 kg	7	0.12 Ω/m	galvanized	1	15.95
14134-400	Stranded wire	1.5 mm	400 m	25.0 km	~ 200 kg	7	0.12 Ω/m	galvanized	1	27.95



Pasture fence wire *** permanent fencing GALVADUR

Suitable for: Advantage:

- Long fences
 The utilised steel wire is thickly galvanised with a special zinc/aluminium long-term protection (95 % zinc and 5 % aluminium)
- · This achieves a high level of corrosion protection and considerably extends the durability



www.horizont.com/Art. no.

Art. No.	Designation	Diameter	Reel	Max. fence length	Breaking load	Number of conductors	Resistance	Material	Unit	Price €
15904	GALVADUR	1.6 mm	315 m	50.0 km	~ 200 kg	1	0.06 Ω/m	galvanized	1	35.95
15945	GALVADUR	2.5 mm	625 m	75.0 km	~ 500 kg	1	0.04 Ω/m	galvanized	1	99.95













Pasture fence connectors ***

Application:

· Easy and safe to use in the pasture fence tape

• Simple re-tensioning possible

Advantage:

 Stable pasture fence tape connector through one-piece galvanized metal brackets supported by break-proof

Art. No.	Suitable for	Width	Material	Unit	Price €
14988C	Pasture fence tapes	up to 20 mm	galvanized, plastic	10	7.99
14987C	Pasture fence tapes	up to 40 mm	galvanized, plastic	5	8.49











40 mm

Pasture fence tape connection ***

Application:

- · Tape is easy and safe to attach to the gate handle
- · Simple re-tensioning possible

Advantage:

 Stable pasture fence tape connector through one-piece galvanized metal brackets supported by break-proof plastic

Art. No.	Suitable for	Width	Material	Unit	Price €
14989C	Pasture fence tapes	12-40 mm	galvanized, plastic	2	4.99



www.horizont.com/Art. no.







Pasture fence connectors **

Application:

- Easy to use in tape
- Simple re-tensioning of tapes possible

Art. No.	Suitable for	Width	Material	Unit	Price €
15163C	Pasture fence tapes	up to 20 mm	Aluminium	10	9.99
15164C	Pasture fence tapes	up to 40 mm	Aluminium	5	9.99



www.horizont.com/15314C







Pasture fence rope connector **

Application:

- · Easy to close with a Phillips screwdriver
- · For connection of ropes to gate handles
- For connection of insulators to start and end points

Art. No.	Suitable for	Diameter	Material	Unit	Price €
15314C	Pasture fence ropes	5-6 mm	galvanized steel	5	9.99

Pasture fence rope/polywire connector *

• For connection of pasture fence polywires or ropes **Application:**

Advantage: · Large contact surface

Art. No.	Suitable for	Diameter	Material	Unit	Price €
15063C	Pasture fence polywires	1-4 mm	galvanized steel	10	8.49
15483C	Pasture fence ropes	4-6 mm	galvanized steel	5	6.49
15506C	Pasture fence ropes	4-6 mm	Stainless steel	5	12.95
15363C	Pasture fence ropes	7-8 mm	galvanized steel	3	6.99
14053C	Pasture fence ropes	7-8 mm	Stainless steel	3	14.95













Pasture fence tape connecting cable ***

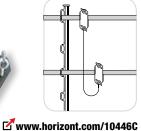
Application: · Screw-on

· Connects overlapping tapes

· Cable length 50 cm

Art. No.	Suitable for	Width	Material	Unit	Price €
10446C	Pasture fence tapes	up to 40 mm	Stainless steel	1	8.49









40 mm

Pasture fence rope connecting cable **

Application: · For the connection of pasture fence ropes stretched over each other

· Cable length 50 cm

Advantage: · All high voltage cables with double insulation

Art. No.	Suitable for	Diameter	Material	Unit	Price €
10596C	Pasture fence ropes	5-6 mm	galvanized steel	1	6.99
10597C	Pasture fence ropes	7-8 mm	Stainless steel	1	13.95













Pasture fence polywire connecting cable **

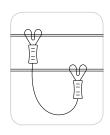
Application: · For the connection of pasture fence polywires stretched over each other

· Cable length 50 cm

Advantage: · All high voltage cables with double insulation

Art. No.	Suitable for	Material	Unit	Price €
10440C	Pasture fence ropes and wires	galvanized steel, plastic	2	12.99





www.horizont.com/10440C



















www.horizont.com/Art. no.













Pasture fence wire connector **

Application: · For connection of iron and steel wires

Art. No.	Suitable for	Material	Unit	Price €
15526C	Pasture fence wires	Aluminium	10	10.99
14197C	Pasture fence wires	hot-dip galvanized	10	9.99
14356	Pasture fence wires	galvanized metal	10	9.99





www.horizont.com/Art. no.





Pasture fence wire connector and tensioner - Gripple

Application:

- · Can also be used as wire tensioner
- 4 times faster than knotting or such
- •Holds tension for a long time and is easy to re-tension
- · Easy to mount with Gripple tensioning tool with tension meter (15962, p. 151)

Art. No.	Suitable for	Diameter	Material	Unit	Price €
15967	Pasture fence solid wires	1.4-2.2 mm	galva- nized	20	31.95
15960	Pasture fence solid wires	2.0-3.25 mm	galva- nized	20	16.95





www.horizont.com/Art. no.







Pasture fence rope tensioner **

Application:

• Tensioner can be mounted directly into the fence

Advantage:

material at any point of the fence · Complete with locking bracket

Art. No.	Suitable for	Diameter	Material	Unit	Price €
15937C	Pasture fence ropes and wires	1-8 mm	Aluminium	2	9.98
15937-25	Pasture fence ropes and wires	1-8 mm	Aluminium	25	91.95





www.horizont.com/14991







Pasture fence polywire/rope tensioner ***

Application:

- · Easy to use
- · Easy re-tensioning possible any time
- · High tensioning effect

Art. No.	Suitable for	Diameter	Material	Unit	Price €
14991	Pasture fence ropes, polywires	6-13 mm	Polypropyl- ene	2	5.19



Pasture fence wire tensioner **

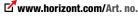
Application: · Keeps the wire taut during temperature fluctuations

Art. No.	Suitable for	Material	Unit	Price €
15905	Pasture fence wires	Stainless steel	2	30.95
14150	Pasture fence wires	hot-dip galvanized steel	2	14.99
14934	Pasture fence wires	hot-dip galvanized steel	2	12.99
15906	Pasture fence wires	hot-dip galvanized steel	2	12.00
15907C	Pasture fence wires	galvanized steel	5	4.99



15907C











Pasture fence tensioning tool -**Gripple**

Application:

- For tensioning the wire with Gripple wire connector (15967, 15960, p. 150)
- Up to 400 kg tension can be applied to wires
- · Regulation of the tension force through integrated tension measurement

Art. No. Suitable for Unit Price €	15062	Pacture fence wires	9	100.00
	Art. No.	Suitable for	Unit	Price €







Art. No.	Suitable for	Unit	Price €
15962	Pasture fence wires	1	109.00

Pasture fence tightening tool **

Application:

• For tightening the rope or wire in conjunction with the pasture fence wire tensioner Art. no. 15937 (p. 150)











Art. No.	Suitable for	Material	Unit	Price €
15936	Pasture fence wires	galvanized steel	1	11.99

Fencing pliers **

Application: · All-purpose pliers for all work with wire

Art. No.	Suitable for	Material	Unit	Price €
15653	Pasture fence wires	Steel	Ī	13.99









☑ www.horizont.com/15933



Reel ★ for wire

Application: Capacity:

· For winding and unwinding

• Pasture fence wire GALVADUR Ø 2.5 mm (15945, p. 147): up to max. 625 m

Brake: · Via a screw Advantage: · Incl. supporting foot Material: · Galvanized steel

Art. No.	Unit	Price €
15933	1	119.00









Reel ★★ MAXI ROLLER 2000 & 4000

Application:

· For winding and unwinding

Capacity:

Guide:

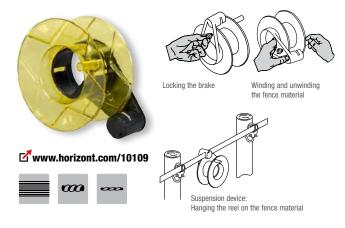
 Pasture fence polywire: up to max. 2000 m (15013) / 4000 m (15839) • Pasture fence tape: up to max. 750 m (15013) / 1500 m (15839)

• Yes

Yes

Brake: · Plastic, with conical shaft Material:

Art. No.	Designation	Unit	Price €
15013	Plastic reel MAXI ROLLER 2000	1	15.99
15031	Carrier to 15013	1	14.99
15839	Plastic reel MAXI ROLLER 4000	1	20.99
15840	Carrier to 15839	1	16.99



Reel ★ MINI ROLLER 300 PC

Application:

Capacity:

· For winding and unwinding and for partitioning off

pastures

• Well suited for mobile fences

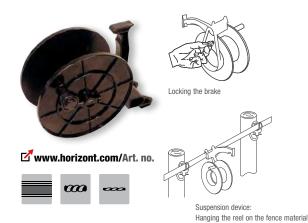
· Pasture fence polywire: up to max. 300 m • Pasture fence tape: up to max. 100 m

Guide: Yes

Brake:

Material: · Polycarbonate, with suspension device

Art. No.	Unit	Price €
10109	1	13 99



Reel ★★ SUPER ROLLER 400

Application:

· For winding and unwinding

Capacity: Guide:

• Pasture fence polywire: up to max. 400 m · Pasture fence tape: up to max. 150 m

• Yes

Brake: Yes

Material: · Plastic, with hooking in device

Art. No.	Designation	Unit	Price €
15289	Plastic reel	1	13.45
14052	Replacement reel	1	8.49

Reel ★★ SUPER ROLLER 600

Application:

· For winding and unwinding

Capacity:

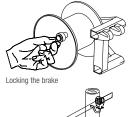
• Pasture fence polywire: up to max. 600 m • Pasture fence tape: up to max. 200 m

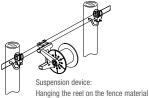
Guide: Yes

Brake: Yes

Material: · Plastic, with hooking in device

Art. No.	Unit	Price €
14168	1	18 45







www.horizont.com/14168







Reel ★★ TURBO ROLLER 3: 1

Application:

· For winding and unwinding

Capacity:

• Pasture fence polywire: up to max. 800 m • Pasture fence tape: up to max. 300 m

Guide:

Brake:

Material:

Yes (trailing and parking brake)
 Impact-resistant plastic, robust steel crank and

steel frame with suspension eyes,



Using the brake



www.horizont.com/Art. no.







Art. No.	Designation	Unit	Price €
13041	Plastic reel	1	71.95
13042	Post stand, 117 cm, single	1	49.95
13043	Mounting part, single	1	18.99



Trailing brake



Roll-back lock



Suspension eyes

Reel ★★ TURBO ROLLER 1500

Application:

• For winding and unwinding for 2- to 3-wire fences

Capacity:

• Pasture fence polywire: up to max. 800 m • Pasture fence tape: up to max. 300 m

Guide: Yes

Brake: Yes

Material: · Plastic, with hooking in device

Art. No.	Designation	Unit	Price €
15340	Plastic reel	1	40.95
13042	Post stand, 117 cm, single	1	49.95
13043	Mounting part, single	1	18.99



Reel with mounting part on



Reel with mounting part on



Mounting part single on



Reels mounted on steel post



www.horizont.com/Art. no.



Tip





153



For the erection and dismantling of fences with four to five levels, you can use two post stands with mounted reels next to each









Every fencing system needs suitable posts to be firmly anchored in the ground and to withstand any weather situation. A secure stability of the fence is just as important for mobile fencing as for permanent fencing. The herding safety of a fence system is decisive for the protection and safety of the animals to be fenced in - the right choice of corner post is therefore of particular importance here, as it must bear the high tensile forces of the fence system.

PRODUCT RANGE

Adviser Things to know about posts	р. 156
Product guide The practical overview to help you quickly find the right post	p. 158
Plastic posts	p. 160
Fibre glass posts	р. 168
Steel posts	p. 170
Recycled plastic, wood posts and accessories	p. 172

Things to know about

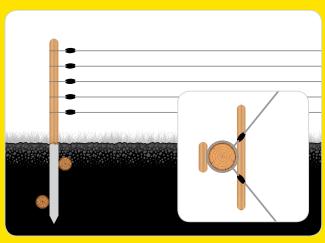
POSTS

1. What are the different purposes of posts?

Corner and gate posts:

Corner and gate posts are usually made of wood or recycled material. They are used when the fence direction changes significantly, for example if you need to integrate a change of direction / corner (more than 30 degrees) into your fence system. Plastic posts cannot sustain the high tensile forces of the fence system as corner posts and are therefore unsuitable for this area of application. Sturdy wood posts are useful; when assembling a corner, make sure you also use the right accessories; use insulators for wood and recycled posts from horizont. Wood posts are also suitable as intermediate posts for long, straight fence sections; in this case, we recommend using them to make the fence system sufficiently stable and secure. If you integrate a gate into your fence, you should also position stable posts at the end of the fence/gate since the last post must bear the tensile force of the fence at the gate. You will find the right products for the assembly of gates here: p. 98 Regardless of whether you integrate a corner or gate into your fence system, the posts must be anchored deep in the ground to provide sufficient stability in the fence system. The more forces a post must withstand, the deeper it must be anchored in the ground and the larger the post diameter

Tip: Corner, gate and intermediate posts are best anchored in the ground using an earth auger and a post rammer (p. 172) and should be twice as long as the fence is high.



Corner situation from the side view and top view

Tip

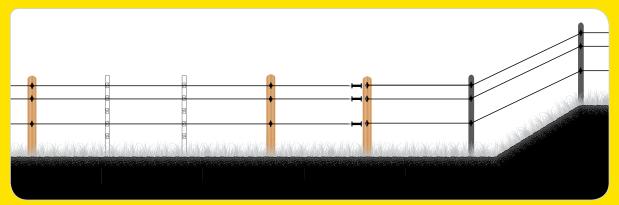
Do your posts often tip over? This would pose a high risk for you as a livestock owner and your animals. Line posts have only limited grip in the ground. The correct use of corner posts is therefore important, as they keep the tension secure and stable from corner post to corner post. For plastic posts, a wide and long earth spike is suitable for a better grip in the ground.

Posts for changing direction:

If the direction of your fence changes (at an angle of 20 to 30 degrees), the post used to change direction need not be as strong as a corner or gate post. The forces acting on the post under this low inclination are not very strong. These poles should also be used in depressions or hills. The most suitable posts for this purpose are those that can be anchored in the ground, such as wooden posts. An inexpensive alternative are the recycled plastic posts from horizont.

Line posts:

The function of the line posts is to keep the conductor material at a constant height. The wider the conductor material is (especially when using tapes), the closer together the posts must be positioned. Even in wind-prone areas, more posts should be placed along one section of the fence to ensure that the fence is stable enough. The utilised conductor material becomes heavier in heavy rain or even in winter, as it absorbs more moisture. This increased weight is not without risk for the herding safety in the fence and should be taken into account. To avoid failures or voltage drops, provide a sufficient number of posts in your fence system as a preventive measure. The choice of the appropriate line post differs depending on whether you own a stationary fence or want to build a mobile fencing. For permanent fencing we recommend wood or recycled plastic posts. When utilising mobile fencing, you should use plastic, fibre glass or angle steel posts.



Example fence with corner/gate posts e.g. made of wood (brown), line posts e.g. made of plastic (white) and posts for changing direction e.g. made of recycled material (grey)



2. How high and how far apart must posts

The height of your pasture fence depends on the type of animal to be herded. Above all, the size of your animals and their jumping characteristics should be taken into account. If you also keep young animals in the pasture, your fence must be extended downwards. Please refer to page 8 for recommendations.

As a general rule, the wider or heavier the conductor material, the closer together the posts must be in wind-prone regions. Refer to page 7 for exact recommendations for post spacing. The distances also differ from the conductor material used.

Tip

When using plastic posts as line posts, you can easily transfer the heights for the insulators to the corner posts or posts for changes of direction by placing the plastic post in the ground $\underline{\text{next}}$ to the $\underline{\text{wood}}$ or recycling plastic post and transferring the height of the eyes to it.



Important icons for this chapter:

Cross Selling Icons:

These icons refer to products that are additionally required and are compatible with the selected product.



Polywire













3. How does the interaction of posts and fence lengths work?

The following table helps to calculate fence lengths and the number of posts required.

It is important to note that stable posts should be used for each corner and gate and where there are major changes in direction or depressions and hills.

Area	Examples of 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

Example situation horse pasture at the edge of the forest without terrain



This pasture measures 306 m and includes a gate and must also bypass a large boulder. Therefore 6 stable corner posts are needed. For the partly long distances between the posts, line posts should be placed at intervals of 3 m, which keep 3 levels of wide tape at the same height (further post distances p. 7). For a fence length of 300 m you will need 100 line posts, but this does not include the length of the gate (6 m below the boulder here).



Have a look on the horizont YouTube

There horizont explains everything about fence construction and even how to correctly drive the posts into the ground.







POSTS

Plastic posts

Application Features				Insula	tor		Suital	ble for*	Product				
Corner post	Line post	Total height cm	Height above ground cm	Colour	addi- tionally required	in- cludes eye	Tape 40 mm	Tape 20 mm	Rope 8 mm	Polywire 3.5 mm	Designation	Art. No.	Page
	•	72	60	black		•		4		4	Plastic post ★ trapper®	14839	160
	•	136	106	white		•	2	5	5	5	Plastic post ★★ profi-line	15857	160
	•	157	142	white		•	4	4	8	8	Stirrup post ★★	15108	160
	•	75	61	white		•	1	5	1	7	Plastic post ★★★ ranger®	14135	162
	•	104	90	white		•	2	6	2	10	Plastic post ★★ ranger®	15198	162
	•	104	90	green		•	2	6	2	10	Plastic post ★★ ranger®	15198GN	162
	•	138	124	white		•	3	6	3	12	Plastic post ★★ ranger®	15695	162
	•	138	124	green		•	3	6	3	12	Plastic post ★★ ranger®	15695GN	162
	•	150	132	white		•	3	5		8	Plastic post ★★ ranger®	15663-10	162
	•	106	85	white	•		•	•	•	•	Plastic post ★★★ long life	15375	164
	•	146	125	white	•		•	•	•	•	Plastic post ★★★ long life	15376	164
	•	171	150	white	•		•	•	•	•	Plastic post ★★★ long life	15377	164
	•	169	153	white		•	4	6	3	13	Plastic post ★★★ turbomax®	15812	164
	•	78	55	white		•	2	4		6	Plastic post ★★★ turbomax® smart post	14490	166
	•	78	55	green		•	2	4		6	Plastic post ★★★ turbomax® smart post	14490GN	166
	•	115	92	white		•	3	5	2	10	Plastic post ★★★ turbomax® smart post	14491	166
	•	115	92	green		•	3	5	2	10	Plastic post ★★★ turbomax® smart post	14491GN	166
	•	145	122	white		•	4	6	3	12	Plastic post ★★★ turbomax® smart post	14492	166
	•	145	122	green		•	4	6	3	12	Plastic post ★★★ turbomax® smart post	14492GN	166

Fibre glass posts

ı	Appli	ication		Features			Insulator		Suitab	le for*		Product		
	Corner post	Line post	Total height cm	Height above ground cm	Colour	addi- tionally required	in- cludes eye	Tape 40 mm	Tape 20 mm	Rope 8 mm	Polywire 3.5 mm	Designation	Art. No.	Page
		•	124	99	yellow	•			•	•	•	Fibre glass post ★★	14886	168
		•	135	105	white	•			•	•	•	Fibre glass post ★★	14887	168
		•	150	130	white	•			•	•	•	Fibre glass post ★★	14888	168
		•	110	95	yellow	•	•				•	Fibre glass post ★★	15596-10	168

Steel posts

Appl	ication	Features			Insula	tor		Suitab	ole for*		Produc	et .	
Corner post	Line post	Total height cm	Height above ground cm	Colour	addi- tionally required	in- cludes eye	Tape 40 mm	Tape 20 mm	Rope 8 mm	Polywire 3.5 mm	Designation	Art. No.	Page
	•	105	85	white		•	•	•	•	•	Steel post ★★ Pigtail	14179	168
	•	105	85	grey		•	•	•	•	•	Steel post ★★ Pigtail	141791	168
•	•	115	95	red	•					•	Angular steel post ★★	155361	170
•	•	120	100	red	•					•	Angular steel post ★★	15877	170
•	•	165	145	red	•					•	Angular steel post ★★	152541	170
	•	107	82	red		•				•	Steel post ★★ with metal eye	150561	170
	•	106	80	red		•				•	Steel post ★★ with ring insulator	150551	170

Recycled plastic & wood posts

Appl	ication	Features			Insula	tor		Suital	ble for		Product		
Corner post	Line post	Total height cm	Height above ground cm	Colour	addi- tionally required	in- cludes eye	Tape 40 mm	Tape 20 mm	Rope 8 mm	Polywire 3.5 mm	Designation	Art. No.	Page
•	•	200	140	grey	•		•	•	•	•	Recycled plastic post ★★	15243	172
•	•	175	120	grey	•		•	•	•	•	Recycled plastic post ★★	15593	172
•	•	150	100	grey	•		•	•	•	•	Recycled plastic post ★★	15151	172
•		250	150		•		•	•	•	•	Corner/gate post ★★	14131	172
•		200	130		•		•	•	•	•	Corner/gate post ★★	14130	172



Plastic post ★ trapper®

Suitable for: • 4 x wide tapes up to 20 mm and 4 x polywires up to 3.5 mm

Total height: • 72 cm Height over earth: • 60 cm

Art. No.	Colour	Unit	Price €
14839	black	20	16.99

Plastic post ★★ profi-line

Eyes suitable for: • 2 x wide tapes up to 40 mm, 5 x wide tapes up to 20 mm,

5 x rope up to 8 mm, 5 x polywires up to 3.5 mm and 5 x

wires up to 3.5 mm

Total height:
Height over earth:
Earth spike:

Step:

- 136 cm
- 106 cm
- 20 cm, Ø 9 mm
- Single step

Art. No.	Colour	Unit	Price €
15857	white		35.95

Stirrup post **

Eyes suitable for: \cdot 4 x wide tapes up to 40 mm, 4 x wide tapes up to 20 mm,

8 x rope up to 8 mm, 8 x polywires up to 3.5 mm and 8 x $\,$

wires up to 3.5 mm • 157 cm

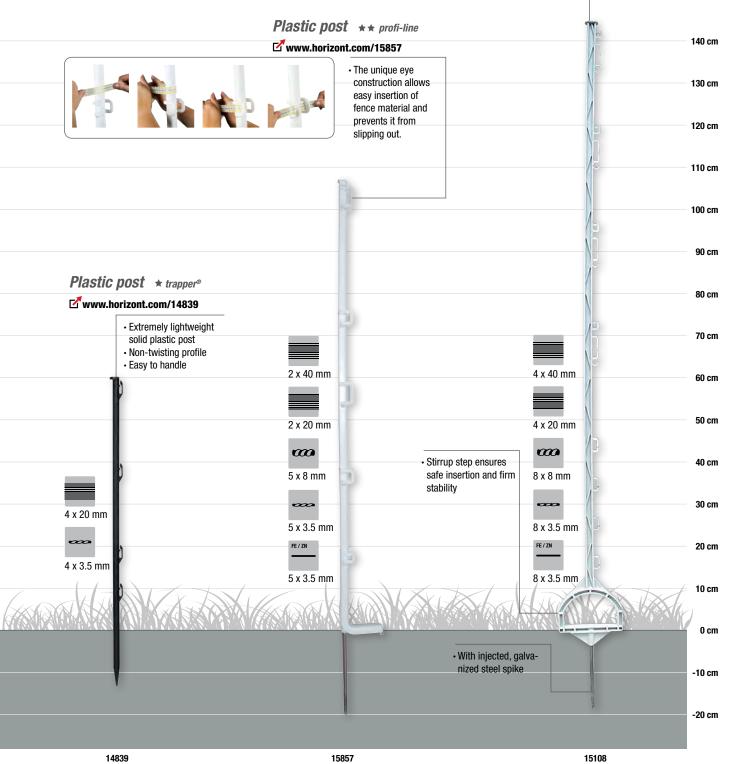
Height over earth: • 142 cm Earth spike: • 15 cm, Ø 8 mm

Art. No.	Colour	Unit	Price €
15108	white	20	72.95

Stirrup post ★★

☑ www.horizont.com/15108GN

- Sturdy design
- Of glass fibre reinforced polypropylene
- Reinforced, twist-free profile



horizont

161



Plastic post ★★★ ranger®

Eyes suitable for: • 1 x wide tape up to 40 mm, 5 x wide tapes up to

20 mm, 1 x rope up to 8 mm, 7 x polywires up to 3.5 mm

Total height: -75 cm
Height over earth: -61 cm
Earth spike: -14 cm, Ø 7 mm
Step: -Single step

Art. No.	Colour	Unit	Price €
14135	white		19.99

Eyes suitable for: • 2 x wide tapes up to 40 mm, 6 x wide tapes up to

20 mm, 2 x rope up to 8 mm, 10 x polywires up to 3.5 mm

Total height: . 104 cm
Height over earth: . 90 cm
Earth spike: . 14 cm, Ø 8 mm
Step: . Single step

Art. No.	Colour	Unit	Price €
15198	white		19.95
15198P	white	% 00	1,169.00
15198GN	green		20.99

Eyes suitable for: • 3 x wide tapes up to 40 mm, 6 x wide tapes up to

20 mm, 3 x rope up to 8 mm, 12 x polywires up to 3.5 mm

Total height:
Height over earth:
Earth spike:

Step:

138 cm
124 cm
14 cm, Ø 7 mm
Single step

Art. No.	Colour	Unit Price €
15695	white	25.45
15695GN	green	25.95

Eyes suitable for: \cdot 3 x wide tapes up to 40 mm, 5 x wide tapes up to

20 mm and 8 x polywires up to 3.5 mm

Total height:
Height over earth:
Earth spike:

Step:

• 156 cm
• 132.5 cm
• 24 cm, ∅ 8 mm
• Double step

Art. No.	Colour	Unit	Price €
15663-10	white	a	22.95

15695

15695GN

15663-10

14135

15198

15198GN



Plastic post ★★★ long life

Suitable for: • Insulators for clamping and all types of conductor material

Total height: -106 cm
Height over earth: -85 cm
Earth spike: -20 cm, Ø 8 mm
Step: -Single step
Diameter: -0 19 mm

Art. No.	Colour	Unit	Price €
15375	white	25	89.95

Suitable for: • Insulators for clamping and all types of conductor material

Total height: . 146 cm
Height over earth: . 125 cm
Earth spike: . 21 cm, Ø 9 mm
Step: . Single step
Diameter: . Ø 19 mm

Art. No.	Colour	Unit	Price €
15376	white	वि	54.95

Suitable for: • Insulators for clamping and all types of conductor material

Total height: - 171 cm
Height over earth: - 150 cm
Earth spike: - 21 cm, Ø 9 mm
Step: - Single step
Diameter: - Ø 19 mm

Art. No.	Colour	Unit	Price €
15377	white	a	59.95

Plastic post ★★★ turbomax®

Eyes suitable for: • 4 x wide tapes up to 40 mm, 6 x wide tapes up to 20 mm,

3 x rope up to 8 mm, 13 x polywires up to 3.5 mm

Total height:
Height over earth:
Earth spike:

Step:

- 169 cm
- 153 cm
- 16 cm, Ø 9 mm
- Single step

Art. No.	Colour	Unit	Price €
15812	white		45.95



Best Choice

- Very high durability made of a high-quality special plastic, therefore also frost-proof
- No seams, as the post is cast in
- one piece
 Insulators can be individually adjusted in number and height
- Post is sealed at top water cannot enter

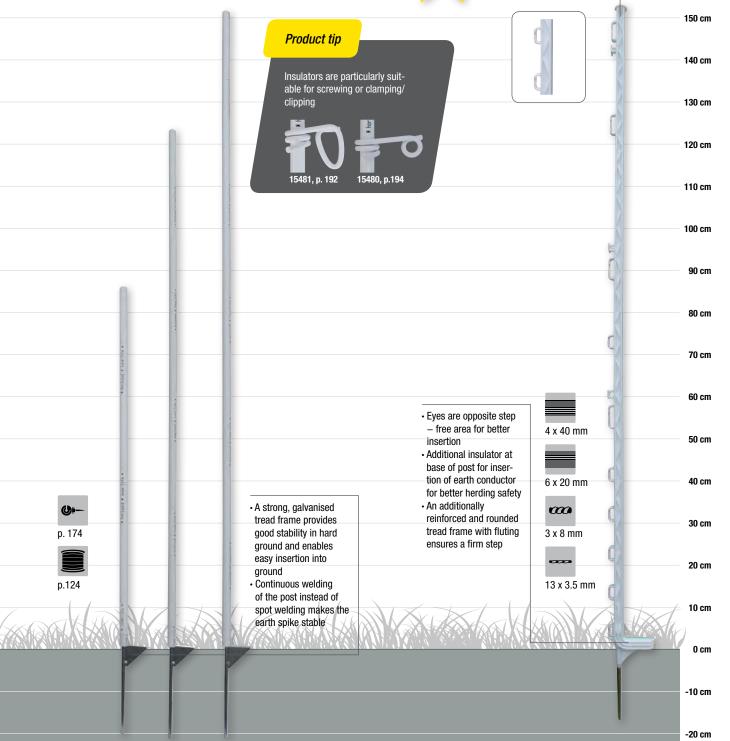




Plastic post ★★★ turbomax®

www.horizont.com/15812

- Transposed twistfree profile
- · Cast from one mould



horizont

15812

15376

15377

15375



Plastic post ★★★ turbomax® smart post

Eyes suitable for: • 2 x wide tapes up to 40 mm, 4 x wide tapes up to 20 mm and

6 x polywires up to 3.5 mm

Total height: -78 cm
Height over earth: -55 cm
Earth spike: -23 cm, Ø 9 mm
Step: -Single step

Art. No.	Colour	Unit	Price €
14490-5	white		12.99
14490-10	white		25.95
14490-5GN	green		12.99
14490-10GN	green		25.95

Eyes suitable for: • 3 x wide tapes up to 40 mm, 5 x wide tapes up to 20 mm,

2 x rope up to 8 mm, 10 x polywires up to 3.5 mm

Total height: -115 cm
Height over earth: -92 cm
Earth spike: -23 cm, Ø 9 mm
Step: -Single step

Art. No.	Colour	Unit	Price €
14491-5	white		15.99
14491-10	white		29.95
14491-5GN	green		14.99
14491-10GN	green		29.95

Eyes suitable for: • 4 x wide tapes up to 40 mm, 6 x wide tapes up to 20 mm,

3 x rope up to 8 mm, 12 x polywires up to 3.5 mm

Total height: -145 cm Height over earth: -122 cm Earth spike: -23 cm, Ø 9 mm Step: -Single step

Art. No.	Colour	Unit	Price €
14492-5	white		20.99
14492-10	white		39.95
14492-5GN	green	₽\$	20.99
14492-10GN	green		40.95





140 cm

Best Choice

- 1 Cross-ribbing in post provides stability which means it can be subjected to higher tensile forces and is difficult to bend
- 2 An additionally reinforced and rounded tread frame with fluting ensures a firm step and prevents accidental slipping off
- 3 Two insulators at the post tip ensure optimum utilisation of the post length when using polywire, rope or tape up to 40 mm
- 4 Numbering the eyes simplifies fence construction, especially for large pastures
- 5 A stable, extra thick galvanized earth spike (9 mm diameter, 23 cm length) injected into the post guarantees high durability and ensures secure stability.



130 cm 120 cm Plastic post ★★★ turbomax® smart post www.horizont.com/Art. no. 110 cm · Of high-quality polypropylene with improved stability and impact resistance · The shape of the post is based on high, 100 cm tapered towers; this form provides particularly good stability · Variously designed, extremely stable 90 cm eyes for tapes, ropes and polywires, suitable for any fence material 80 cm 70 cm 60 cm 50 cm 3 x 40 mm 4 x 40 mm 40 cm 2 x 40 mm 5 x 20 mm 6 x 20 mm w w 30 cm 4 x 20 mm 2 x 8 mm 3 x 8 mm 20 cm 6 x 3.5 mm 10 x 3.5 mm 12 x 3.5 mm 10 cm 0 cm -10 cm 5 -20 cm

14491

14491GN

14492GN

14492

14490GN



Fibre glass post **

Suitable for:

• Insulators for clamping/clipping for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3.5 mm

Total height: - 124 cm
Height over earth: - 99 cm
Step: - Single step
Diameter: - Ø 12 mm

Art. No.	Colour	Unit	Price €
14886	yellow		34.95

Suitable for:

• Insulators for clamping/clipping for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3.5 mm

Total height: • 135 cm Height over earth: • 105 cm • 105 cm • 0 10 mm

Art. No.	Colour	Unit	Price €
14887	white	P	59.95

Suitable for:

• Insulators for clamping/clipping for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3.5 mm

Total height: • 150 cm **Height over earth:** • 130 cm

Earth spike: • With galvanized metal tip and galvanized ground anchor

Diameter: • Ø 10 mm

Art. No.	Colour	Unit	Price €
14888	white	25	95.95

Suitable for: • 2 x polywires up to 3.5 mm and insulators for clamping/

clipping for polywires up to 3.5 \mbox{mm}

Total height:
Height over earth:
Earth spike:
Step:
Diameter:

- 110 cm
- 95 cm
- With steel tip
- Single step
- Ø 8 x 10 mm

Art. No.	Colour	Unit	Price €
15596-10	yellow		23.95

Driving in aid

Suitable for: • Fibre glass posts of \emptyset 7-14 mm

Art. No.	Colour	Unit	Price €
14905C	white	<u>a</u>	8.49

Steel post ★★ Pigtail

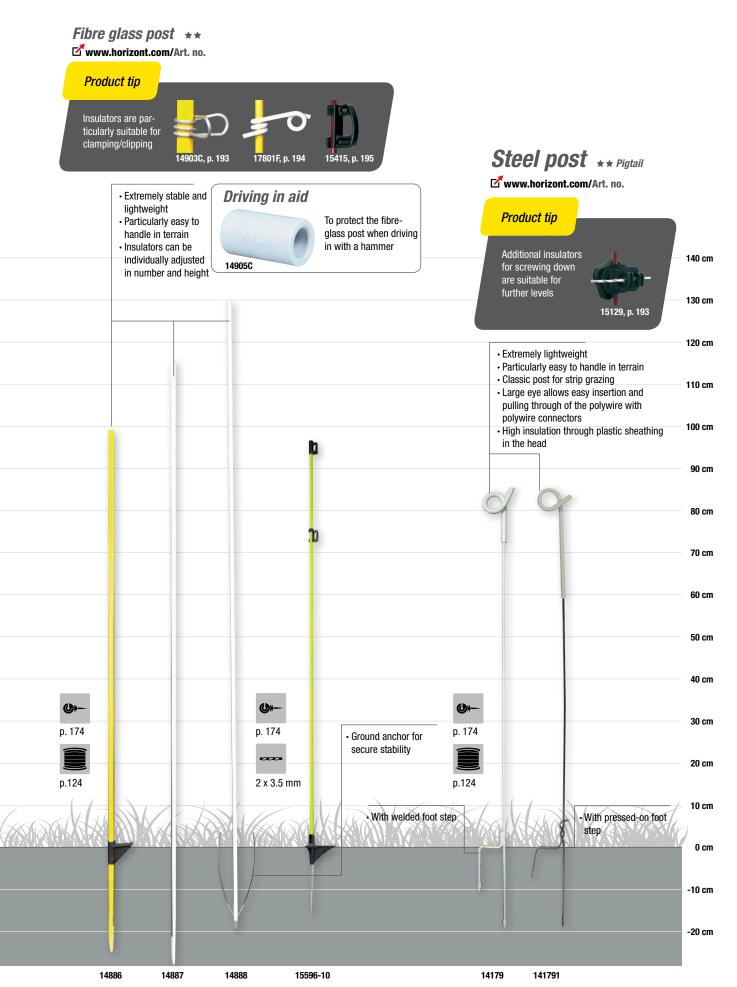
Suitable for:

• 1 x wide tape up to 40 mm, 1 x rope up to 8 mm or 1 x polywire up to 3.5 mm and insulators for screwing on and

clamping/clipping for all types of conductor material

Total height: + 105 cm
Height over earth: + 85 cm
Earth spike: + 0 7 mm
Step: + 5 ingle step
Diameter: + 0 7 mm

Art. No.	Colour	Material	Unit	Price €
14179	white	Steel, painted	30	79.95
141791	white	Steel, galvanized	30	79.95





Angular steel post **

Suitable for: • Insulators with split pin or metric thread for polywires

up to 3.5 mm

Total height: - 115 cm
Height over earth: - 95 cm
Step: - Double step
Wall thickness: - 2 mm

Art. No.	Colour	Design	Unit	Price €
155361	red	4 bore holes		28.95

Suitable for: Insulators with split pin or metric thread for polywires

up to 3.5 mm

Total height: - 120 cm
Height over earth: - 100 cm
Step: - Double step
Wall thickness: - 3 mm

Art. No.	Colour	Design	Unit	Price €
15877	red	4 bore holes		32.95

Suitable for: Insulators with split pin or metric thread for polywires

up to 3.5 mm

Total height: - 165 cm
Height over earth: - 145 cm
Step: - Double step
Wall thickness: - 3 mm

Art. No.	Colour	Design	Unit	Price €
152541*	red	6 bore holes		43.95

Oval steel post ★★★ with metal eye

Eyes suitable for:

• 1 x polywires up to 3,5 mm and insulators for screwing on and clamping/clipping for polywires up to 3.5 mm

Total height: • 107 cm
Height over earth: • 82 cm
Step: • Double step

Art. No.	Colour	Design	Unit	Price €
150561	red	with metal eye	25	64.95

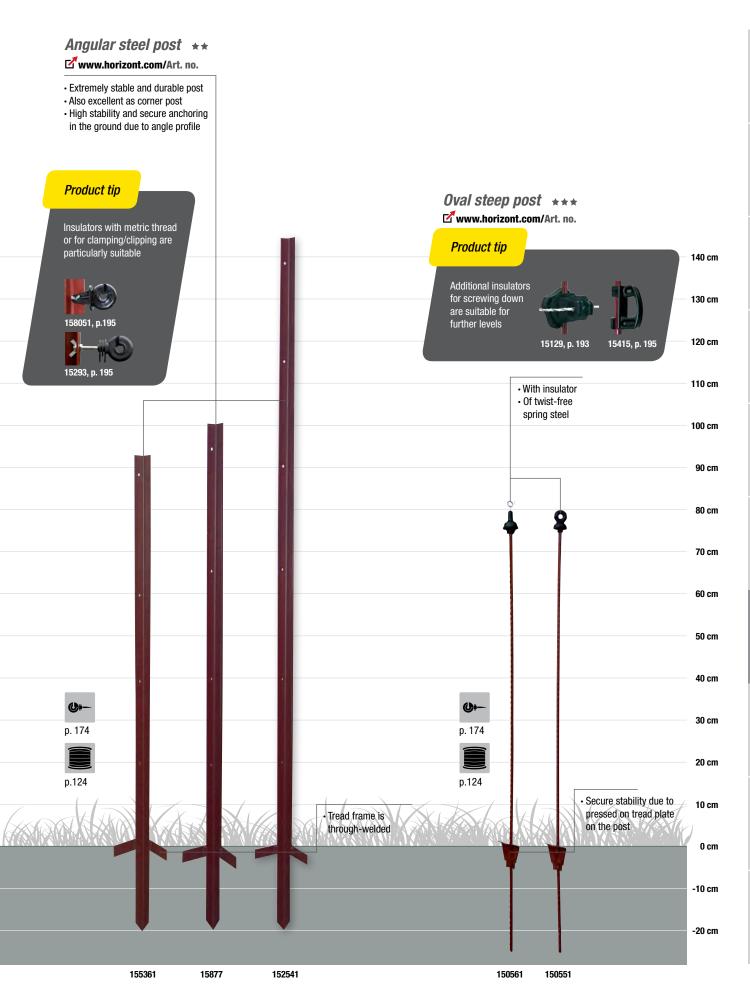
Oval steel post *** with ring insulator

Eyes suitable for:

- 1 x polywires up to 3,5 mm and insulators for screwing on and clamping/clipping for polywires up to 3.5 mm

Total height: • 106 cm
Height over earth: • 80 cm
Step: • Double step

Art. No.	Colour	Design	Unit	Price €
150551	red	with ring insulator	25	59.95





Recycled plastic post* **

Suitable for: • Insulators for screwing in, screwing on and nailing on

Total height: • 200 cm Height over earth: • 140 cm Diameter: • Ø 8 cm

Art. No.	Colour	Unit	Price €
15243	grey	1	12.99

Suitable for: Insulators for screwing in, screwing on and nailing on

Total height: • 175 cm Height over earth: • 120 cm Diameter: • Ø 6 cm

Art. No.	Colour	Unit	Price €
15593	grey	1	8.99

Suitable for: • Insulators for screwing in, screwing on and nailing on

Total height: • 150 cm Height over earth: • 100 cm Diameter: • ∅ 4.5 cm

Art. No.	Colour	Unit	Price €
15151	grey	1	4.99

Corner/gate post* ★★ of softwood

Suitable for: • Insulators for screwing in, screwing on and nailing on

Total height: • 250 cm
Height over earth: • 150 cm
Diameter: • Ø 14-16 cm

Art. No. Unit Price €
14131 1 **36.95**

Suitable for: Insulators for screwing in, screwing on and nailing on

Total height:
Height over earth:
Diameter:

- 200 cm
- 130 cm
- 0 10-12 cm

Art. No. Unit Price €
14130 1 18.95

Post rammer **

Suitable for: • For driving in wood posts up to Ø 15 cm

Weight: • 32 kg

A	Art. No.	Colour	Unit	Price €
1	15934	black	1	159.00

Earth auger **

Suitable for: • For excavating holes for posts of Ø 14 cm

Art. No.	Colour	Unit	Price €
15946	red	1	59.99

Recycled plastic post ★★

www.horizont.com/Art. no.

- Processing with common tools (post does not splinter)
- Manufactured of recycled plastics— can be recycled again
- Unlimited durability guaranteed
- Individual adjustment of holes
- Impregnation not necessary water cannot enter the post

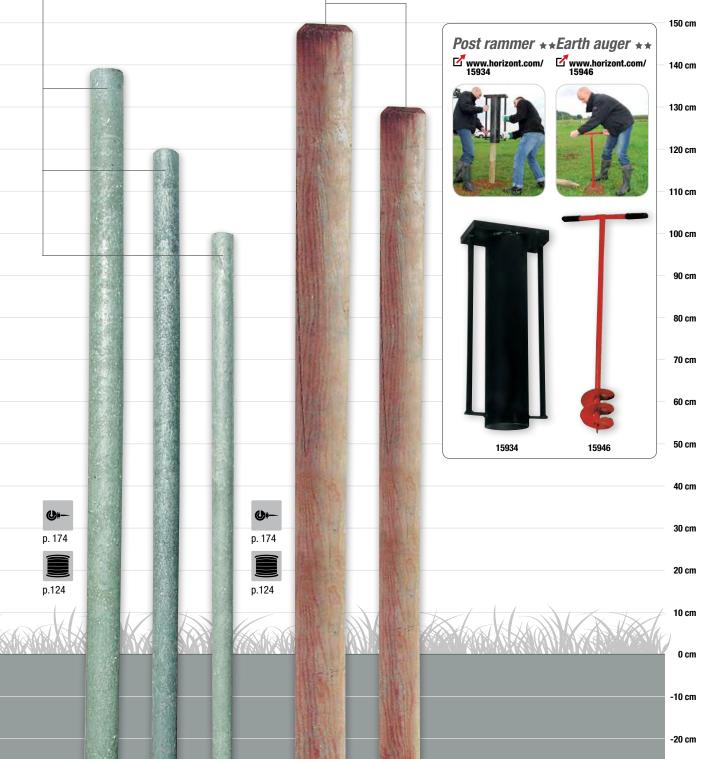


Corner/gate post ★★ www.horizont.com/Art. no.

- Particularly weather-resistant due to pressure impregnation
- Head milled cylindrically

 reduces splintering of
 the wood when driving in





15593

15151

14131

14130

15243



08 INSULATORS

A sufficiently high herding voltage is a prerequisite for safe animal husbandry. Insulators should have a very high insulating capacity as they insulate the conductor material against the pole and earth. The current flow is prevented between earth and fence and the required herding voltage is only applied in the fence material

PRODUCT RANGE

Adviser Things to know about insulators	р. 176
Product guide The practical overview to help you quickly find the right insulator	p. 178
Insulators for wood and recycled plastic posts Tape insulators Rope insulators Polywire insulators Wire insulators	p. 182
Screw-in aids	р. 191
Insulators for plastic and fibre glass posts • Tape insulators • Rope insulators • Polywire insulators	р. 192
Insulators for steel posts Tape insulators Polywire insulators	p. 195

Note

You will find gate handle insulators in chapter 9: "Gates" (p. 188)

Things to know about

INSULATORS

There are countless fence variants and a suitable insulator is available for nearly every variant. To make it easier to choose the optimal accessory, some criteria should be considered when choosing an insulator.

1. Does your insulator have to cope with a special fence situation?

Line / guide insulator:



Line or guide insulators always keep the conductor material at a constant height. The conductor material is guided close to the fence post which makes the fence particularly stable. In addition, their small surface area prevents animals from leaning against or touching the insulators and possibly bending them.

Corner insulator:



If you want to build a corner in your fence, we recommend using so-called corner insulators. These can be screwed to the inside of the post. Corner insulators are particularly stable and usually have a metal support inside the insulator which absorbs the tensile forces from the conductor material. This means that the fence is stable and will not collapse in strong gusts of wind, for example.

Spacer insulator:



Spacer insulators are less tightly fitted than line/guide insulators, as the guide of the conductor material is further away from the screw-in point of the insulator. They still guarantee good herding safety. The use of these insulators prevents direct contact between the animal and the fence. This prevents the animals from leaning against fence posts, for example, and allows the fence to last longer. Spacer insulators are also used to protect solid wood fences, as the animals do not nibble at the wood.

Strain insulator:



Strain insulators are used at the beginning and end of a fence section or in corners. They are particularly suitable for use with ropes (with a diameter of up to 8 mm, p. 136) or wire (p. 144).

2. Which conductor material must the insulator carry?

Depending on the type of animal to be fenced in (p. 8) you have selected the appropriate conductor material for your fence. The horizont range carries insulators for tapes, ropes, polywires and wires. There are even insulators that can carry more than one conductor material. Combined insulators are also available for special application situations; these allow you to install tape, rope or polywire in just one insulator.

Always use the appropriate insulator for your conductor material. Never attempt to install a rope in a ring insulator. Ring insulators are suitable for polywires. You may otherwise damage the conductor material and risk a weak herding safety of the fence system.



3. Should the conductor material in the insulator run freely or be fixed?

Conductor material is usually fixed in places where strong wind can occur. The conductor material can be fastened by closing the insulator or with a screw. These variants enable the tight fit of the conductor material. Insulators with free-running conductor material are used for stable corner posts or as line / guide insulators. The advantage is that the conductor material can be stretched over long distances because it can move freely in the insulator. If fixed insulators were to be used, the conductor material would have to be readjusted on each individual insulator.





Tape runs free!

Tape is fixed!

4. How is an insulator mounted?

Always select the appropriate insulator in relation to your post. The product finder will help you (p. 176):



Screw in:

If insulators are to be fastened in wood, plastic or on stone walls, use insulators that can be screwed in, bolted, nailed or fastened with a special staple.

The horizont range carries special insulators with a unique screw thread for screwing into e.g. wood posts. This special thread prevents annoying splintering of the wood post. The time-consuming process of pre-drilling or countersinking is no longer necessary for you. Because the wood only splinters slightly - after the insulator has been attached - an extremely secure fit can be guaranteed and the herding safety on your pasture should be established.



Screwing/nailing:

If you prefer insulators without support, it is best to use insulators that can be nailed or fastened with special staples or screws. These are best attached to wood posts.

Insulators with separate metric thread, can - in addition to materials such as wood, plastic or stone also be easily attached to drillable materials such as metal. Just as with the insulators for screwing in, a securely tight fit on the post is possible here.



Clamps:

Depending on the type of post you use, we also carry insulators for clamping, clipping or inserting. No additional tools are necessary for installation. The insulators can be mounted very quickly and easily directly on the post.

Important icons for this chapter:

Product describing icons:

These icons describe insulator features.



runs free







Corner





is fixed







UV resistant Polycar-

Cross Selling Icons:

These icons refer to products that are additionally required and are compatible with the selected product.













INSULATORS

for wood and recycled plastic posts

Suitable as						Conducto		Support	
Line insulator	Beginning/ Corner insulator	Spacer insulator	Tension insulator	Spare/Addi- tional 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				
•					40		4		
•	•				40	8	4		
	•					8	4		
	•					8	4		
•	•					8	4	2.5	•
•		•				8	4		•
•		•				8	4		
•							2		
•							2		
•					13		4		
•	•				13		4		
•	•				13	8	4		•
•					13		4		•
•		•	•		13		4		•
•							3		
•	•				13		4		
•	•				13		4		
•	•				13		4		•
•		•	•		13		4		•
•	•				13		4		
•					13		4		
•					13	4		4	
•	•					7	4	2.5	

Support	Appl	ication	Product		
Continuous	Fixed	Free running	Designation	Art. No.	Page
	•		Tape insulator ★★ corner 40 fix	14163C	182
		•	Tape insulator ★★ corner 40	15297	182
	•		Tape insulator ★★ corner 40 plus	15572C, 15299	182
		•	Tape insulator ★★★ combi 40	15828C	182
		•	Tape insulator ★★★ combi 40	15682, 15390	183
		•	Tape insulator ★★★ ranger® 20	15186	183
	•		Tape insulator ★★★ ranger® 40 fix	14990	183
		•	Tape insulator ★★★ ranger® 20	15555-25, 15555C	183
	•		Tape insulator ★★★ ranger® 40	14161C, 14162C	184
	•		Tape insulator ★★★ ranger® 40 fix	15373C	184
		•	Tape insulator ★★★ ranger® 40	15460-10	184
	•		Tape insulator ★★★ turbomax® plus	15843C, 15837C	184
		•	Rope insulator ★★ corner metric	14166C	185
		•	Rope insulator ★★ farmer® corner plus	10012C, 100121-10	185
		•	Rope insulator ★★★ turbomax®	15835C	185
		•	Rope insulator ★★★ turbomax® metric	15073C	185
		•	Rope insulator ★ flexibar 400 - one side	15318	186
		•	Knob insulator ★ trapper®	15495-100, 15495C	186
	•		Nail insulator ★★ farmer®	153021	186
•		•	Ring insulator ★★ farmer® pnd	14984	186
•		•	Ring insulator ★★ farmer® plus	15364	187
		•	Ring insulator ★★ farmer® gigant	140271	187
		•	Ring insulator ★★ farmer®	15275-25	187
		•	Ring insulator ★★ farmer®	14937	187
•	•	•	Slotted insulator ★★ farmer®	15278, 15276	188
•	•	•	Slotted insulator ★★★ ranger® plus pc	15485	188
•		•	Ring insulator ★★★ ranger® plus	15370	188
		•	Ring insulator ★★★ ranger®	15461	189
		•	Ring insulator ★★★ ranger®	15595	189
•		•	Ring insulator ★★★ ranger® plus pc	15341-25, 15341C	189
		•	Wire insulator ★ economy	14164	190
		•	Wire insulator ★ economy	14165	190
		•	Wire insulator ★★★ ranger®	15929-10, 15929EI	190

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INSULATORS

for plastic and fibre glass posts

Suitable as					Conductor material				Support
Line insulator	Beginning/ Corner insulator	Spacer insulator	Tension insulator	Spare/Addi- tional 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		

for steel posts (round, oval and angle steel)

Suitable as				Conductor material				Support		
Line insulator	Beginning/ Corner insulator	Spacer insulator	Tension insulator	Spare/Addi- tional insulator	Tape (mm)	Rope (mm)	Polywire (mm)	Wire (mm)	Short	
•				•	20		4			
•				•			4			
•				•			4			
•				•			4			
•				•			4			
•				•			4			
•				•			4			
•		•					4			

Support	Application .		Product		
Continuous	Fixed	Free running	Designation	Art. No.	Page
		•	Spare/Additional insulator ★★ combi ip-15	15290	192
	•		Spare/Additional insulator ★★ farmer® 40	14969-25	192
		•	Spare/Additional insulator ★★ farmer® ip-19	15474C	192
		•	Spare/Additional insulator ★★★ long life	15481	192
		•	Spare/Additional insulator ★★ farmer ip-15	15129	193
		•	Spare/Additional insulator ★★ clip master	14903C, 14903-100	193
		•	Spare/Additional insulator ★★ clip master	14904C, 14904-100	193
		•	Head insulator ★	14922	193
		•	Spare/Additional insulator ★★ farmer® fiber	14046C, 14046EI	194
		•	Spare/Additional insulator ★★★ long life	15480	194
		•	Spare/Additional insulator ★★★ long life	17801F, 17804F	194

Support	Application		Product		
Continuous	Fixed	Free running	Designation	Art. No.	Page
		•	Spare/Additional insulator ★★ farmer® clamp	15415	195
		•	Splint insulator ★★ farmer® splint	158051	195
		•	Ring insulator metr. thread ★★ farmer® metric	15293, 152931	195
		•	Spare/Additional insulator★★ farmer® clip	150511	196
		•	Spare/Additional insulator★★ farmer® plastic	15059-50	196
		•	Spare/Additional insulator★★ farmer® plastic	15053-50	196
		•	Spare/Additional insulator ★★ farmer® plastic	15054-50	196
		•	Ring insulator metr. thread ★★★ ranger® metric	14167	197

4

















☑ www.horizont.com/14163C











Tape insulator ★★ corner 40 fix

· Line insulator, beginning/corner insulator

Conductor material: • Tape up to 40 mm

Fastening:

· Nailing or screwing to wood or recycled plastic posts

with at least two 5 mm screws

Advantage: Tape tensioner and anti-twist protection

· Conductor material cannot "fall" out of the insulator

even when it is not under tension

Application: Fixed

Art. No.	Unit	Price €
14163C	2	10.99





☑ www.horizont.com/15297











Tape insulator ★★ corner 40

Suitable as:

Advantage:

· Line insulator, beginning/corner insulator

Conductor material: • Tape up to 40 mm Fastening:

· Nailing or screwing to wood or recycled plastic posts

with at least two 5 mm screws

· Conductor material cannot "fall" out of the insulator

even when it is not under tension

Application: Free running Material: Galvanized Scope of delivery: Screws

Art. No.	Unit	Price €
15297	[5]	8.99





www.horizont.com/Art. no.









40 mm

Tape insulator ★★★ corner 40 plus

Suitable as:

· Beginning/corner insulator

Conductor material: • Tape up to 40 mm

Fastening:

· Nailing or screwing to wood or recycled plastic posts

with at least two 5 mm screws

Advantage:

· Conductor material cannot "fall" out of the insulator

even when it is not under tension

· Easy retensioning possible **Application:** Fixed

Scope of delivery: Screws

Bracket

Art. No.	Material	Unit	Price €
15572C	of stainless steel	2	13.95
15299	galvanized	5	12.99





www.horizont.com/15828C

















6 mm 40 mm 4 mm 8 mm

Tape insulator ★★★ combi 40

Suitable as:

Support:

· Line insulator, spacer insulator

Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm

Fastening:

· Screwing in to wood or recycled plastic posts • Large dry room = High insulation

Advantage: **Application:**

· Free running · Short, Ø 6 mm

Art. No.	Unit	Price €
15828C	10	13.99



Tape insulator ★★★ combi 40

· Line insulator, beginning/corner insulator

Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm

Fastening: • Screwing in to wood or recycled plastic posts

Advantage: • Large dry room = High insulation

Application: Free running · Short, Ø 6 mm Support:

Art. No.	Colour	Unit	Price €
15682	black	30	14.45
15390C	black	25	13.45
15390El	black	80	37.95
15390HG-30	hright groop	- G	15.05
10000110 00	bright green	30	15.95

























40 mm 4 mm

8 mm

Tape insulator ★★★ ranger® 20

Suitable as: · Line insulator, spacer insulator

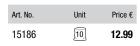
Conductor material: • Tape up to 20 mm, polywire up to 4 mm, rope up to 8 mm

Fastening: · Screwing in to wood or recycled plastic posts

Advantage: · Because of the lateral ground position, the tape cannot "fall"

out of the insulator unintentionally, even if guided over hill and dale

Application: Free running · Short, Ø 6 mm Support:







www.horizont.com/15186











6 mm



20 mm





Tape insulator ★★★ ranger® 40 fix

Suitable as: · Line insulator

Conductor material: • Tape up to 40 mm, rope up to 8 mm

Fastening: · Nailing or screwing to wood or recycled plastic posts

Advantage: • Strongly interlocked closure support on tape, which provides a secure hold

Application:

Art. No.	Unit	Price €
14990	25	8.49
14990C	20	8.99
14990EI	80	25.95





www.horizont.com/Art. no.











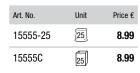
40 mm 8 mm

Tape insulator ★★★ ranger® 20

Suitable as: · Line insulator, spacer insulator

Conductor material: • Tape up to 20 mm, polywire up to 4 mm Fastening: · Screwing in to wood or recycled plastic posts Advantage: · Closure support creates secure hold

Application: · Free running Support: · Short, Ø 5 mm



All prices include the statutory value added tax.





www.horizont.com/Art. no.













4 mm







www.horizont.com/Art. no.















www.horizont.com/15373C









40 mm

Tape insulator ★★★ ranger® 40

Suitable as: · Line insulator Conductor material: • Tape up to 40 mm

Fastening: · Nailing or screwing to wood or recycled plastic posts

with two 5 mm screws

Application: Fixed Scope of delivery: · Plastic screws

Art. No.	Design	Unit	Price €
14161C	without rubber insert	8	12.95
14161EI	without rubber insert	30	40.95
14162C	with rubber insert	8	17.45

Tape insulator ★★★ ranger® 40 fix

Suitable as: · Line insulator Conductor material: • Tape up to 40 mm

Fastening:

· Nailing or screwing to wood or recycled plastic posts

with two 5 mm screws

Application: Fixed

Art. No.	Unit	Price €
15373C	12	7.79





www.horizont.com/Art. no.











4 mm

Tape insulator ★★★ ranger® 40

Suitable as:

Conductor material: • Tape up to 40 mm, polywire up to 4 mm

Fastening:

· Nailing or screwing to wood or recycled plastic posts

with two 5 mm screws

Advantage:

• Opposing clamps prevent the tape from "falling out"

even in hilly terrain

Application:

Free running

Art. No.	Unit	Price €
15460-10	20	3.99
15460C	20	8.99







www.horizont.com/Art. no.







8 mm







4 mm





Tape insulator ★★★ turbomax® plus

Suitable as:

· Line insulator, beginning/corner insulator

Conductor material: • Tape up to 40 mm, polywires up to 4 mm, rope up to 8 mm Fastening:

· Nailing or screwing to wood or recycled plastic posts with two 5 mm screws

Application: Fixed

Art. No. Design Price € with connecting plate 1 15843C 7.99 can be used as gate handle insulator 15837C without connecting plate 14.99



This design is unique on the market and offers many advantages. The insulator can be opened and closed very easily. The screw is fixed firmly to the insulator so that it can be swivelled, making installation child's play. A gate handle can even be attached to the non-rusting metal connecting plate. Fence branche can also be easily created. Form your own impression of our universal insulator!

Rope insulator ** corner metric

Suitable as: Beginning/corner insulator

Conductor material: • Polywire up to 4 mm, rope up to 8 mm Fastening: • Screwing to through holes of e.g. metal posts

Application: Free running

Support: • With metric thread M8, Ø 8 mm

Art. No.	Unit	Price €
14166C	5	7.99



















4 mm

Rope insulator ** farmer® corner plus

Suitable as: · Beginning/corner insulator

Conductor material: • Polywire up to 4 mm, rope up to 8 mm Fastening: · Screwing in to wood or recycled plastic posts

Application: Free running Support: · Short, Ø 7 mm

Art. No.	Design	Unit	Price €
10012C	with wide support bottom	5	8.49
100121-10	without wide support bottom	10	9.49





www.horizont.com/Art. no.















Rope insulator *** turbomax®

· Line insulator, beginning/corner insulator Suitable as: Conductor material: • Polywire up to 4 mm, rope up to 8 mm, wire up

to 2.5 mm

Fastening: · Screwing in to wood or recycled plastic posts Advantage: · Ergonomic shape for optimal handling

Application: · Free running · Short, Ø 6 mm Support:







www.horizont.com/15835C



















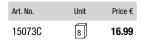
8 mm 2.5 mm 6 mm

Rope insulator *** turbomax® metric

· Line insulator, spacer insulator Suitable as: **Conductor material:** • Polywire up to 4 mm, rope up to 8 mm · Screwing to through holes of e.g. metal posts Fastening: Advantage: · Large dry room = High insulation

Application: · Free running

· With metric thread M6, Ø 6 mm Support:







www.horizont.com/15073C

















All prices include the statutory value added tax.





www.horizont.com/15318









40 mm 4 mm 8 mm

Rope insulator * flexibar 400 - one side

· Line insulator, spacer insulator, strain insulator

Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm

Distance: · Distance to post is 40 cm

Material: • Extruded plastic, therefore extremely durable

Art. No.	Unit	Price €
15318	10	25.95











Note

Use the knob and nail insulato only in conjunction with 9 V pasture fence energisers.



























2 mm

Knob insulator ★ trapper®

Suitable as: · Line insulator Conductor material: • Polywire up to 2 mm

Fastening: · Nailing to wood or recycled plastic posts

Advantage: · Ideal for short fences with low voltage, as there is little

insulation from the post

Application: · Free running

Art. No.	Unit	Price €
15495-100	100	9.99
15495C	25	3.69

Nail insulator ** farmer®

Suitable as: · Line insulator Conductor material: • Polywire up to 2 mm

Fastening: · Nailing to wood or recycled plastic posts

· Ideal for short fences with low voltage, as there is little Advantage:

insulation from the post Fixed

Application:

Scope of delivery: Nail

Art. No.	Unit	Price €
153021	50	8.49





www.horizont.com/Art. no.





















Ring insulator ** farmer® pnd

Suitable as: · Line insulator

Conductor material: • Tape up to 13 mm, polywires up to 4 mm

Fastening: • Screwing in/pushing on to wood or recycled plastic posts

Advantage: · Easy handling - quick assembly*

· Very high electrical insulation against the post

Application: Free running • Continuous, Ø 8 mm Support:

Art. No. Price € 50 6.95 14984 14984EI 20 95



*Have a look at our YouTube channel! In the video we explain how to mount and use our ring insulator farmer® pnd.

www.horizont.com/ytFarmerPND





Ring insulator ** farmer® plus

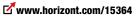
Suitable as: · Line insulator, beginning/corner insulator Conductor material: • Tape up to 13 mm, polywire up to 4 mm Fastening: · Screwing in to wood or recycled plastic posts

Application: · Free running Support: • Continuous, Ø 5.3 mm

Art. No.	Unit	Price €
15364	50	13.99





















5.3 mm 13 mm

Ring insulator ** farmer® gigant

Suitable as: · Line insulator, beginning/corner insulator

Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 8 mm

Fastening: · Screwing in to wood or recycled plastic posts

Application: Free running Support: · Short, Ø 6 mm

Art. No.	Unit	Price €
140271	25	7.99





www.horizont.com/140271

















Ring insulator ** farmer®

Suitable as: Line insulator

Conductor material: • Tape up to 13 mm, polywire up to 4 mm Fastening: · Screwing in to wood or recycled plastic posts

Application: · Free running · Short, Ø 5.3 mm Support:

Art. No.	Colour	Unit	Price €
15275-25	black	25	5.19
15275C	black	25	5.99
15275El	black	120	23.95
15275GE-25	yellow	25	4.99
15275GE	yellow	50	10.99







www.horizont.com/Art. no.













13 mm 4 mm

Ring insulator ** farmer®

Suitable as: · Spacer insulator, strain insulator, line insulator Conductor material: • Tape up to 13 mm, polywire up to 4 mm Fastening: · Screwing in to wood or recycled plastic posts

Application: Free running Support: · Short, Ø 6 mm





















6 mm 13 mm 4 mm





www.horizont.com/Art. no.













Slotted insulator ** farmer®

Suitable as: · Line insulator Conductor material: • Polywire up to 3 mm

Fastening: • Screwing in to wood or recycled plastic posts

Advantage: · Cross-reinforced dry room **Application:** • Free running or fixed Support: · Continuous, Ø 5 mm

Art. No.	Colour	Unit	Price €
15278	black	50	9.99
15276	yellow	50	10.49
15276-25	yellow	25	4.99





www.horizont.com/Art. no.



13 mm



4 mm













Slotted insulator *** ranger® plus pc

· Line insulator, beginning/corner insulator Conductor material: • Tape up to 13 mm, polywire up to 4 mm

Fastening: · Screwing in to wood or recycled plastic posts Advantage: · Cross-reinforced dry room Application: · Free running or fixed Support: · Continuous, Ø 6 mm

Material: · Insulation structure of polycarbonate

15485C	25	8.99
15485	25	8.99
Art. No.	Unit	Price €











www.horizont.com/Art. no.















13 mm

Ring insulator *** ranger® plus

Suitable as:

· Line insulator, beginning/corner insulator

Conductor material: • Tape up to 13 mm, polywire up to 4 mm Fastening:

• Screwing in to wood or recycled plastic posts

Advantage:

• Large dry room = High insulation · Very high electric strength

Application: Support:

· Free running

• Continuous, Ø 6 mm

Art. No.	Colour	Unit	Price €
15370	black	25	7.09
15370C	black	25	7.99
15370-50	black	50	13.99
15370El	black	120	31.95
15370El-240	black	240	64.95
15370HG	bright green	25	8.99
15370LI	purple	25	8.99
15370TU	turquoise	25	8.99

Ring insulator *** ranger®

Suitable as: · Line insulator, beginning/corner insulator Conductor material: • Tape up to 13 mm, polywire up to 4 mm Fastening: · Screwing in to wood or recycled plastic posts Advantage: • Large dry room = High insulation

Application: Free running · Short, Ø 6 mm Support:

Art. No.	Unit	Price €
15461	25	6.49
15461C	25	6.59
15461-50	50	12.45
15461El	120	29.49





www.horizont.com/Art. no.















4 mm

Ring insulator *** ranger®

Suitable as: · Line insulator, spacer insulator, strain insulator Conductor material: • Tape up to 13 mm, polywire up to 4 mm

Fastening: · Screwing in to wood or recycled plastic posts • Large dry room = High insulation Advantage:

· Because of the lateral ground position, the tape cannot "fall" out of the insulator unintentionally, even if it is guided over hill and dale

Application: Free running Support: · Short, Ø 6 mm

Art. No.	Unit	Price €
15595	10	10.49





☑ www.horizont.com/15595















13 mm 4 mm

Ring insulator *** ranger® plus pc

Suitable as: **Conductor material:**

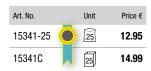
· Line insulator, beginning/corner insulator • Tape up to 13 mm, polywire up to 4 mm

 Screwing in to wood or recycled plastic posts Fastening: Advantage: • Large dry room = High insulation

· Extremely break-proof

Application: Free running Support: · Continuous, Ø 6 mm

Material: · Insulation structure of polycarbonate

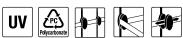








www.horizont.com/Art. no.



























www.horizont.com/14164









8 mm

Wire insulator ★ economy

Suitable as:

Conductor material: • Rope up to 8 mm, wire up to 4 mm

Fastening: · Nailing or screwing to wood or recycled plastic posts

Application: Free running

Art. No.	Unit	Price €
14164	25	11.95





www.horizont.com/14165













12 mm

4 mm 4 mm

Wire insulator ★ economy

Suitable as: · Line insulator

Conductor material: • Tape up to 12 mm, rope up to 4 mm, wire up to 4 mm Fastening: • Nailing or screwing to wood or recycled plastic posts

Application: · Free running

14165	50	13.95
Art. No.	Unit	Price €





www.horizont.com/Art. no.















4 mm

2.5 mm 7 mm

Wire insulator *** ranger®

Suitable as: · Line insulator, beginning/corner insulator

Conductor material: • Polywire up to 4 mm, rope up to 7 mm, wire up to 2.5 mm Fastening: · Nailing or screwing to wood or recycled plastic posts

Application: · Free running

Art. No.	Unit	Price €
15929-10	10	4.99
15929El	45	19.99





www.horizont.com/Art. no.

Insulating tube *

Conductor material: • 15935: Wire (p. 144)

• 15935WS, 15951: Rope (p. 136)

• Insulation of wire on wooden posts for electrified fence **Application:**

Length: • 25 m Material: Plastic

Art. No.	Diameter	Unit	Price €
15935	interior Ø 5 mm, exterior Ø 10 mm	1	32.95
15935WS	interior Ø 5 mm, exterior Ø 10 mm	1	29.95
15951	interior Ø 8 mm, exterior Ø 12 mm	1	32.95

Special fence staples *

• Plastic tubes (15935, 15935SW, 15951, p. 190) **Application:** · For fastening the plastic insulating tube to the post

Art. No.	Unit	Price €
15909	50	3.99





✓ www.horizont.com/15909

Screw-in aid *

Suitable for: · All insulators turbomax for rope

Application: · Easy screwing in of the insulators using a cordless screwdriver

Art. No.	Unit	Price €
15349C	1	8.99



www.horizont.com/15349C

Screw-in aid *

Suitable for: · Ring insulators with a wall thickness up to 16 mm

Application: · Easy screwing in of the insulators using a cordless screwdriver

Art. No.	Unit	Price €
15357C	1	6.99



✓ www.horizont.com/15357C

Screw-in aid *

 Slotted insulators Suitable for:

Application: · Easy screwing in of the insulators using a cordless screwdriver

Art. No.	Unit	Price €
15358C	1	6.99



www.horizont.com/15358C

Screw-in aid *

Suitable for: · Tape and rope insulators

Application: · Easy screwing in of the insulators using a cordless screwdriver

Art. No.	Unit	Price €
14088C	1	6.99



www.horizont.com/14088C

Screw-in aid **

Suitable for: • Ring insulators, rope insulator corner metric (14166C, p.185), gate handle insulators

Application: · Easy screwing in of the insulators using a cordless screwdriver

Art. No.	Unit	Price €
14965	1	6.99
14965C	1	7.99





www.horizont.com/Art. no.











www.horizont.com/Art. no.











13 mm 4 mm 6 mm

Spare/Additional insulator

★★ combi ip-15

Suitable as: · Line insulator Suitable for: • Posts up to Ø 15 mm

Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 6 mm

Application: Free running

· Insulator is closed at post output Note:

Art. No.	Unit	Price €
15290	25	9.99
15290C	25	11.45
15290EI	50	18.99





☑ www.horizont.com/14969-25









40 mm 4 mm

Spare/Additional insulator

** farmer® 40

Suitable as:

• Round posts up to Ø 12 mm Suitable for:

Conductor material: • Tape up to 40 mm, polywire up to 4 mm

Application: Fixed

• Insulator is closed at post output Note:

Art. No.	Unit	Price €
14969-25	25	12.99





☑ www.horizont.com/15474C













Spare/Additional insulator

★★ farmer® ip-19

Suitable as: · Line insulator Suitable for: • Posts from Ø 7-19 mm

Conductor material: • Tape up to 12 mm, polywire up to 4 mm

Application: · Free running

· Insulator is open at post output Note:

Art. No.	Unit	Price €
15474C	10	5.49





✓ www.horizont.com/15481

















Spare/Additional insulator

★★★ long life

Suitable as:

• Plastic posts long life (15375,15376, 15377, p.164) Suitable for: Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm

Application: • Free running

Art. No.	Unit	Price €
15481	25	11.99

Spare/Additional insulator ★★ farmer® ip-15

Suitable as:

• Line insulator

• Posts up to ∅ 15 mm

Conductor material: • Polywire up to 4 mm, rope up to 6 mm

Application: • Free running

Note: • Insulator is closed at post output

Price €	Unit	Art. No.
5.49	10	15129
12.99	25	15129C
27.95	60	15129El





www.horizont.com/Art. no.











4 mm 8 mm

Spare/Additional insulator ★★ clip master

Suitable as: • Line insulator

Suitable for: • Round posts up to \emptyset 12 mm (14885-14888, p. 168)

Conductor material: • Polywire up to 4 mm, rope up to 2.5 mm **Application:** • Free running

14903-100	a	39.95
14903C	25	10.49
Art. No.	Unit	Price €





www.horizont.com/Art. no.









4 mm 2.5 mm

Spare/Additional insulator ★★ clip master

Suitable as: • Line insulator

Suitable for: • Round posts up to ∅ 10 mm (14885, 14887, 14888, p. 168)

Conductor material: • Polywire up to 4 mm, wire up to 2.5 mm

Application: • Free running

Art. No.	Unit	Price €
14904C	25	9.49
14904-100		39.95





www.horizont.com/Art. no.









4 mm 2.5 mm

Head insulator *

Suitable as: • Line insulator

Suitable for: • Fibre glass posts with Ø 12 mm (14886, p. 168)

Conductor material: • Polywire up to 2 mm

Art. No.	Unit	Price €
14922	50	8.95





www.horizont.com/14922







2 mm







www.horizont.com/Art. no.









13 mm 4 mm

Spare/Additional insulator

★★ farmer® fiber

Suitable as: · Line insulator

• Posts with Ø 12 mm (14886, p. 168) Suitable for: Conductor material: • Tape up to 13 mm, polywire up to 4 mm

Application: • Free running

8.99
Price €





☑ www.horizont.com/15480













13 mm 4 mm 8 mm

Spare/Additional insulator

★★★ long life

Suitable as: · Line insulator

• Posts with Ø 19 mm (15375-15377, p. 164) Suitable for:

Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 8 mm

Application: · Free running

Art. No.	Unit	Price €
15480	25	9.99





www.horizont.com/Art. no.















Spare/Additional insulator

★★★ long life

Suitable as: · Line insulator

Suitable for: • 17801F: (14886, p. 168) • 17804F: (14885, 14887, 14888, p. 168)

Conductor material: • Tape up to 13 mm, polywire up to 4 mm, rope up to 8 mm

Application: Free running

Art. No.	Diameter of post	Unit	Price €
17801F	Ø 12 mm	[50]	18.99
17804F	Ø 10 mm	50	18.99

Spare/Additional insulator ** farmer® clamp

Suitable as: • Line insulator

Suitable for: • Round posts and oval posts up to Ø 8 mm (150551, 150561, p. 170)

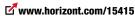
Conductor material: • Tape up to 20 mm, polywire up to 4 mm

Application: • Free running

Art. No.	Unit	Price €
15415	25	11.29

















20 mm 4 mm

Splint insulator ★★ farmer® splint

Suitable as: • Line insulator

Suitable for: • Angular steel posts with Ø 2-3 mm (155361, p. 170),

(15877, p. 170), (152541, p. 170)

Conductor material: • Polywire up to 4 mm **Application:** • Free running

Art. No.	Unit	Price €
158051	50	9.99





☑ www.horizont.com/158051









4 mm

Ring insulator metr. thread ** farmer® metric

Suitable as: Line insulator

Suitable for: • Angular steel posts with Ø 2-3 mm (155361, 15877, 152541, p. 170)

Conductor material: • Polywire up to 4 mm **Application:** • Free running

Support: • With metric thread M6, thread length of 30 mm

Art. No.	Unit	Price €
15293	25	13.99
152931	25	12.45





☑ www.horizont.com/Art. no.









4 mm

Spare/Additional insulator ★★ farmer® clip

Suitable as: • Line insulator

Suitable for: • Round and oval posts with \emptyset 8 mm (150551, 150561, p. 170)

Conductor material: • Polywire up to 4 mm • Free running

Art. No.	Unit	Price €
150511	25	17.29





✓ www.horizont.com/150511









4 mm







www.horizont.com/15059-50









4 mm

Spare/Additional insulator

★★ farmer® plastic

Suitable as: • Line insulator

Suitable for: • Round steel posts (150551, 150561, p. 170)

Conductor material: • Polywire up to 4 mm
Application: • Free running
Material: • Plastic ring

Art. No.	Unit	Price €
15059-50	50	17.45





☑ www.horizont.com/15053-50









4 mm

Spare/Additional insulator

★★ farmer® plastic

Suitable as: Line insulator

Suitable for: • Oval steel posts (150551, p. 170)

Conductor material: • Polywire up to 4 mm
Application: • Free running
Material: • Plastic ring

Art. No.	Unit	Price €
15053-50	50	17.99





☑ www.horizont.com/15054-50









4 mm

Spare/Additional insulator

★★ farmer® plastic

Suitable as: Line insulator

Suitable for: • For round and oval steel posts (150561, p. 170)

Conductor material: • Polywire up to 4 mm
Application: • Free running
Material: • Metal eye

Art. No.	Unit	Price €
15054-50	50	22.99





✓ www.horizont.com/14167











6 mm 4 mm

Ring insulator metr. Thread

** ranger® metric

Suitable as: • Line insulato

Suitable for: • Angular steel posts with \emptyset 2-3 mm (155361, 15877,

152541 p. 170)

Conductor material: • Polywire up to 4 mm • Free running

 $\textbf{Support:} \qquad \quad \textbf{-} \ \, \text{With metric thread M6, thread length of 80 mm}$

Art. No.	Unit	Price €
14167	25	19.99







The gate system is an important component. Gates for passage through pasture fence systems are particularly necessary in agriculture. Since a gate is usually opened once or twice a day, it is subject to very high wear. If the gate is open, there is often no current flowing. An additional underground bridging is therefore recommended.

PRODUCT RANGE

Gate handles p. 200

Gate handle insulators p. 202

Gate handle kits p. 204

Pasture gates p. 206











www.horizont.com/Art. no.











Gate handle with hook ★ trapper®

Spring travel limit: • 5 cm Material: Plastic Colour: Black

Art. No.	Unit	Price €
14172SW	1	1.99
141721SW	1	1.99

Gate handle with hook ★★ farmer®

Spring travel limit: • 3 cm Material: Plastic

Fastening: · Eye for conductor material on handle

Art. No.	Colour	Un	it Price €
15817SW	black	1	2.29
15817SW-5	black	5	9.99
158170R	orange	1	2.29
158170R-5	orange	[5	9.99
15817GE	yellow	1	2.29
15817LI	purple	1	2.29
15817HG	bright green	1	2.49
15817TU	turquoise	1	2.29

Gate handle with eye ★★ farmer®

Spring travel limit:

Advantage:

· Low risk of injury, as the eye, unlike the hook, cannot

tear into the hand

Material: Plastic

Fastening:

• Eye for conductor material on handle

Colour: Black

Art. No.	Unit	Price €
14080SW	1	2.49

✓ www.horizont.com/15295





Gate handle with hook ★★ ★ ranger®

Spring travel limit:

None

Advantage: · Safe handling due to extra wide flanges Plastic

Material:

Fastening: • Eye for conductor material on handle

Colour: • Black

Art. No.	Unit	Price €
15295	1	3.49

Gate handle with hook ★★ ★ ranger®

Spring travel limit:

Advantage: · Reinforced insulation, therefore suitable for use with high-performance equipment

· Stainless steel rotating pressure spring

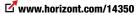
Material: Polycarbonate

Fastening: • Eye for conductor material on handle

Colour: · Transparent dark grey

Art. No.	Unit	Price €
14350	1	4.99











Gate handle with hook and tape connector ★★ ★ ranger®

Spring travel limit:

None

Advantage:

· With the mounted tape connector, a tape up to 40 mm wide can be attached directly to the gate, thus ensuring optimum opening of gate

· The tape can be easily re-tensioned

· Safe handling due to wide flanges

Material: Plastic Colour: Black

Art. No.









Gate handle with hook and tape connector ★★ ★ turbomax®

Spring travel limit:

• 8 cm

5.29

Advantage:

156031

• With the mounted tape connector, a tape up to 40 mm wide can be attached directly to the gate, thus ensuring optimum opening of gate

· The tape can be easily re-tensioned

Material: Plastic Colour: Black

Art. No. 151391GNV 5.49 1









Gate handle with eye ★★ ★ turbomax®

Spring travel limit: Advantage:

· Extremely durable and compressible pressure spring

· Low risk of injury, as the eye, unlike the hook, cannot tear into the hand

Material: · Polycarbonate Colour: Black

Art. No.	Unit	Price €
10013E	1	3.99













☑ www.horizont.com/15445E







www.horizont.com/15139E







www.horizont.com/15436E





Note

The current should never be transmitted through the gate handle and the conductor material in the gate. Especially when things need to move quickly, the gate handle often remains on the ground and is not immediately reattached. In this case, the current is diverted via the ground and the herding voltage in the fence drops. This means your animal is in danger of breaking out. Bridge the gate with a parallel installed underground cable (p. 94).





www.horizont.com/Art. no.





Gate handle with hook ★★★ turbomax®

Spring travel limit: • 8 cm

Advantage: • Extremely durable and compressible pressure spring

Material: • Polycarbonate

Fastening: • Eye for conductor material on handle

Colour: • Transparent yellow

Art. No.	Unit	Price €
15445E	1	5.49

Gate handle with hook *** turbomax®

Spring travel limit: • 8 cm

Advantage: • Extremely durable and compressible pressure spring

Material: • Polycarbonate

Fastening: • Eye for conductor material on handle

Colour: • Black

Art. No.	Unit	Price €
15139E	1	4.19

Gate handle with eye ★★★ turbomax®

Spring travel limit: • 8 cm

Advantage: • Extremely durable and compressible pressure spring

· Low risk of injury, as the eye, unlike the hook, cannot

tear into the hand

Material: • Polycarbonate

Fastening: • Eye for conductor material on handle

Colour: • Transparent yellow

Art. No.	Unit	Price €
15436F	1	4.99

Gate handle insulator

with wooden thread ★★

Suitable for: • All gate handles with hooks or eyes

Conductor material: • Rope, polywire, wire • Plastic, galvanized iron

Application: • For screwing in to wood and recycled plastic posts

Colour: • Black

Support: Insulator support with thread for wood

Art. No.	Unit	Price €
14092C	2	3.29
14175	10	15.99
15126C	5	7.99

Gate handle insulator with metric thread **

Suitable for: · All gate handles with hooks or eyes

Conductor material: • Rope, polywire, wire Material: · Plastic, galvanized iron

Application: · For screwing into through holes of e.g. metal plates

Colour: Support: · Metric thread M6

Thread length: • 30 mm

Art. No. Unit Price € 5 14169C 8.99











Gate handle insulator non-twisting **

Suitable for: · All gate handles with hooks or eyes

Conductor material: · Rope, polywire, wire Material: · Plastic, galvanized iron

Application: · For screwing in to wood and recycled plastic posts Advantage: · Eyes do not twist away when the gate is inserted

Colour: Black

· Insulator support with thread for wood Support:







✓ www.horizont.com/14866-10





Gate handle insulator

with wooden thread and thimble ★★

· All gate handles with hooks or eyes Suitable for:

Conductor material: · Rope, polywire Material: · Plastic, galvanized iron

Application: · For screwing in to wood and recycled plastic posts Advantage: • The conductor material can be connected safely and

without damage with a thimble.

Colour:

· Insulator support with thread for wood Support:

Art. No.	Unit	Price €
14170C	2	4.99





www.horizont.com/14170C





Gate handle insulator with tape connector ***

Suitable for: · All gate handles with hooks **Conductor material:** Tape up to 40 mm Material: · Plastic, galvanized iron

Application: · For screwing on to wood and recycled plastic posts Advantage: • The tape can be easily re-tensioned at the insulator

Colour: Black

Art. No.	Unit	Price €
14358C	1	4.49





www.horizont.com/14358C





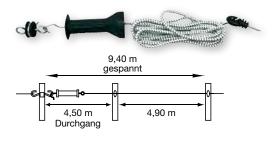


☑ www.horizont.com/15307C

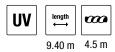


www.horizont.com/Art. no.





www.horizont.com/15316C



Gate handle insulator with metal plate ***

Suitable for: · All gate handles with hooks Conductor material: · Wire up to 2.5 mm

Application: · For screwing or nailing on to wood and recycled plastic posts Advantage: • Wire connection screws (Art. No. 15526, p.150) can be placed on the metal plate. This establishes a connection

to other fence wires

Colour: Black Scope of delivery: · Metal plate

· Plastic part with screws

Art. No.	Unit	Price €
15307C	2	5.19

Gate handle kit with spring ★★

Application: · Especially suitable for easy opening

and closing of gates through electrically conductive

tension spring

Scope of delivery: • 1x gate handle turbomax with hook

• 1x gate handle insulator

1x ring insulator

· Tension spring, galvanized, thick

Art. No.	Design	Unit	Price €
15416	Kit	1	7.99
15416C	Kit	1	8.49
15487	Tension spring single, galvanized, thick	1	5.49

Gate handle kit with rope **

Application: · Especially suitable for easy opening and closing of gates without ground contact through electrically

conductive rope

• 1x gate handle with hook Scope of delivery:

• 1x rope: 4.50 m long (slack), 9.4 long (taut)

• 1x gate handle insulator

· 1x ring insulator

Art. No.	Unit	Price €
15316C	1	23.95

0.5 - 5 m

www.horizont.com/Art. no.



Gate handle kit with thin spring ★★

Application:

· Especially suitable for easy opening and closing of gates through electrically conductive tension spring

Scope of delivery:

· 1x gate handle farmer

• 1x tension spring, galvanized, thin

Art. No.	Unit	Price €
15291	1	6.99
15291C	[1]	11.99

Recommendation

These gate handle kits are designed for optimal use in cattle farming.

Gate handle kit with tape ★★

Application:

- Special gate handle kit, which allows easy opening of the gate without ground contact through electrically

conductive tape

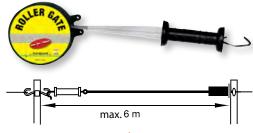
Advantage: • Tape winds up automatically when opening

Scope of delivery: • Wall/post mount

• 1x gate handle

• 1x connection cable high voltage resistant

Art. No.	Unit	Price €
14351C	fill.	32.95







Gate handle kit with rope ★★

Application:
- Special gate handle kit, which allows easy opening of the gate without ground contact through electrically

conductive rope

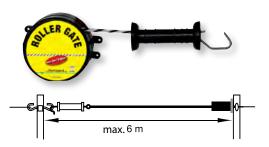
Advantage: • Rope winds up automatically when opening

Scope of delivery:

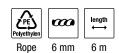
Wall/post mount

1x gate handle1x connection cable high voltage resistant

Art. No.	Unit	Price €
14352C	1	32.95







Gate handle kit swivelling with tape ★★

Application:

• Special gate handle kit, which allows easy opening of the gate without ground contact through electrically

conductive tape

Advantage: • Gate handle kit can be swivelled by up to 180 degrees

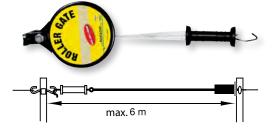
• Tape winds up automatically when opening

Scope of delivery: • Wall/post mount

• 1x gate handle kit with gate handle

• 1x connection cable high voltage resistant









Gate handle kit swivelling with rope ★★

Application:

• Special gate handle kit, which allows easy opening of the gate without ground contact through electrically conductive rope

conductive rope

Gate handle kit can be swivelled by up to 180 degrees

Rope winds up automatically when opening

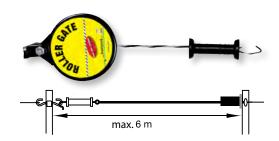
Scope of delivery: • Wall/post mount

 $\bullet\,1x$ gate handle kit with gate handle

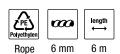
• 1x connection cable high voltage resistant

Art. No.	Unit	Price €
14902C	1	38.95

Advantage:



☑ www.horizont.com/14902C



Advantage

When wound up, the conductor material of these gate handle kits is protected from the weather.



www.horizont.com/Art. no.



1.1 m

Pasture gate adjustable **

Advantage: • Flexible pasture gate can be pulled out by 1 m in each case

Material: • Hot-dip galvanized

Pipe diameter: • 1 1/4" inside

Pipe distance: • 1 1/4 inside • 2.3 cm

54095

Note: • Prices include fittings

Art. No.	Length	Unit	Price €
54091	1.05 m - 1.7 m	1	159.00
54092	2.05 m - 3.0 m	1	179.00
54093	3.05 m - 4.0 m	1	199.00
54094	4 05 m - 5 0 m	1	229 00

· Delivery ex works. Please inquire freight costs

269.00

25	8

www.horizont.com/54096



2 m 80 mm 80 mm

Square tube post **

5.05 m - 6.0 m

Suitable for: • Pasture gate adjustable

Application: • For fastening the adjustable fittings and the bolt lock

Design: • With pre-drilled holes

Art. No.	Unit	Price €
54096	1	59.95



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Consultation

Do you have any questions about pasture fences? Contact us. Our competent employees will be happy to advise you personally.

www.horizont.com/Consultation



Repair Service

Our repair service is reliable, competent and fast. A defective device can be easily repaired by our team in Korbach, Germany. For the duration of the repair we will gladly provide a loaner device.

www.horizont.com/Repair



Catalogues

In addition to our range of pasture fences, we also offer catalogues on animal husbandry and equestrian sports. Simply request the catalogues from us online or browse through our flip catalogues.

www.horizont.com/Catalogue



Website

Discover our website and find further articles, highlights, special offers, films, tips and much more We are looking forward to seeing you!

✓ www.horizont.com



Newsletter

Our newsletter will always keep you up to date on discounts, special offers or current highlights. Register for free and stay tuned!

www.horizont.com/newsletter



Social Media

Our social media channels enjoy a growing number of followers and are updated daily with news and

www.horizont.com/facebookAC

www.horizont.com/youtubeAC

www.horizont.com/instagramAC



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