

UKAL



UKAL

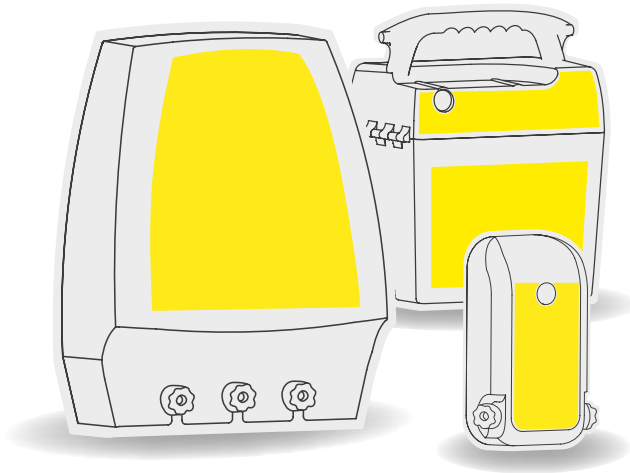
HORIZONT FENCE SELECTION



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85	Insulators
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FAQ

Energisers



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

PREMIUM QUALITY
MADE IN GERMANY

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

WHAT DOES THE ENERGISER DO?

- The energiser emits short current pulses that flow along the 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.

WHY A CLOSED CIRCUIT?

The circuit must be prepared so that it is closed when it comes into contact with the animal. It is also important to ensure that the current remains in the fence and really only activates when it is touched by an animal.

WHAT IS EARTHING?

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

TIP: EARTHING WITH DRY GROUND

Earthing: The number of earth stakes refers to damp soil. If the soil is dry in summer, the number may have to be increased.

WHAT HAPPENS WHEN THE ANIMAL TOUCHES THE FENCE?

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

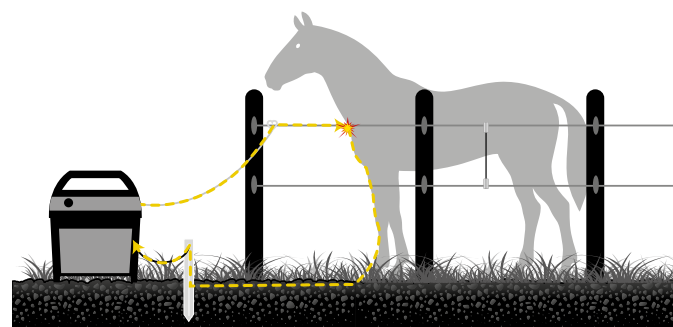
- Energy applied to the fence is expressed in joules. The higher the value, the stronger the electric shock. Joules hurt!
- The voltage of the fence is measured in volts. The voltage is needed to strike through the insulating hide of the animal. This is the only way the energy can jump over. Voltage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

WHY USE HIGH QUALITY 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 better the material, the higher the current that flows through the fence.
 - Saving on conductor material is to be penny-wise and pound-foolish. Poor conductor material may cause significant energy loss and prevent electricity from reaching the end of the fence.
- Never knot your conductor material! Too much energy is lost in the process. Always use suitable connectors to guarantee 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 DENSE VEGETATION:
To approx. 20 % of the specified fence length*



*Data for single and multi-wire fences

HOW FAR APART SHOULD THE POSTS BE?

To ensure the conductor material is optimally fixed between the posts, the following distances have been proven to be effective:

- **POLYWIRES AND WIRES:**
6 m to 8 m (depending on 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 ROPE:**
4 m (for diameter 6 - 8 mm), 6 m (for diameter 5 - 6 mm)
- **TERRAIN:**
Observe the local conditions! If the terrain is very uneven, several posts are required to guide the conductor material parallel to the ground.

WHAT ELSE NEEDS TO BE CONSIDERED?

- **Important:** Never operate fence systems and netting without an energiser!
- **Conductivity:** Be sure to use conductor material with high conductivity and good earthing, especially for high pulse energies.
- **Connectors:** Never knot your conductor material - always use suitable connectors to guarantee the current flow.
- **Warning signs:** For safety reasons, you are legally obliged to attach these to your electric fence, clearly visible and printed on both sides.
- **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**

HOW DOES AN ENERGISER WORK?

The energiser is supplied with power from the mains, a battery or a rechargeable battery (sometimes with solar support). When the energisers 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 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 no dangerous current flows at the high voltage.

WHICH ADDITIONAL FUNCTIONS DO HORIZONT ENERGISERS OFFER?*

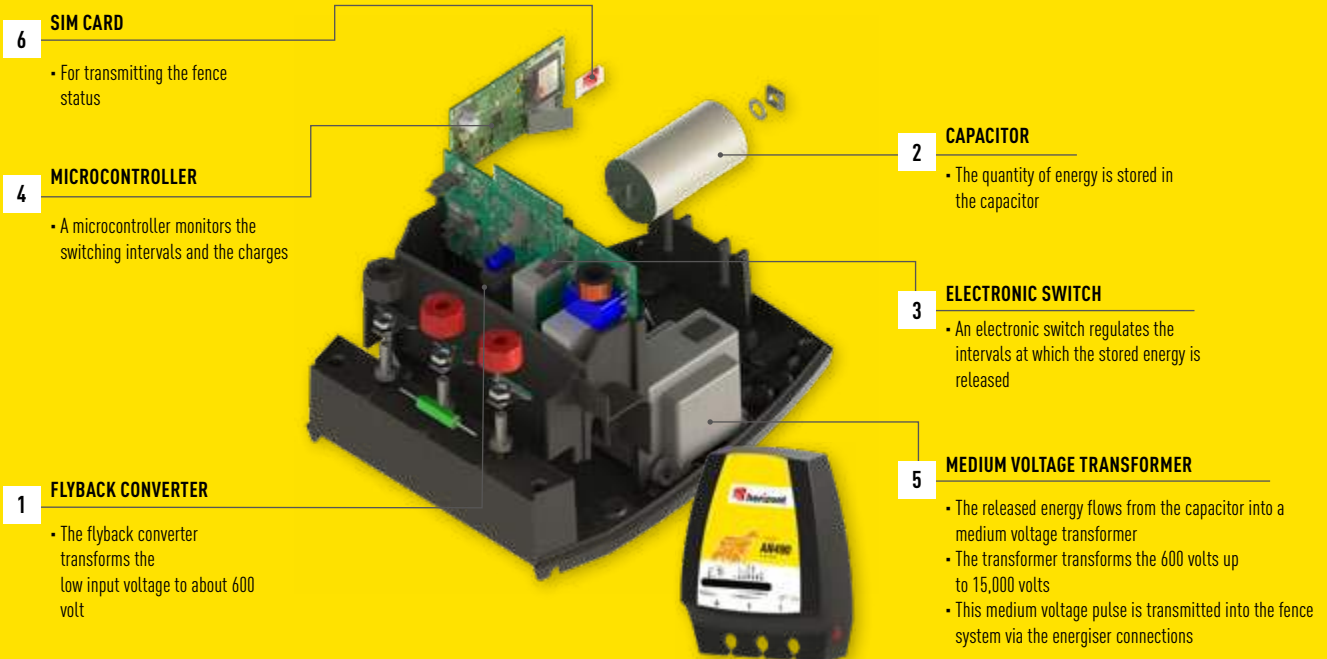
horizont energisers are equipped with various, sometimes automatic, functions. These guarantee simple and flexible adaptation to the respective type of use, fence quality and vegetation. Moreover, you can get by with fewer batteries throughout the entire electric fence season, as many energisers are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

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

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

TIP

But one thing must not be forgotten: The energiser is useless if it is connected to a defective fence!



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

The choice of the right energiser

WHICH ENERGY SUPPLY IS PREFERRED?

horizont distinguishes between battery energisers 9 V, rechargeable battery energisers 12 V, mains energisers 230 V and solar energisers. Many energisers also combine different types of power supply in order to offer more security 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.



Battery energiser 9 V



Battery energiser 12 V



Mains energiser 230 V

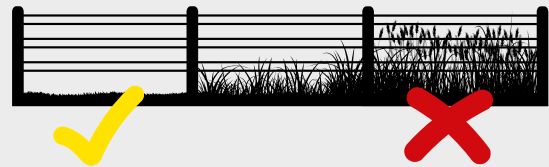


Solar energiser

HOW LARGE IS THE AREA TO BE FENCED?

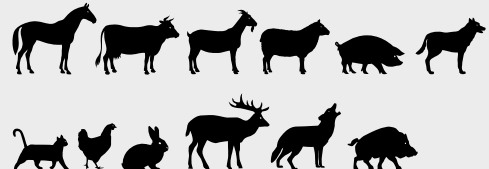
The fence length is important for the choice of the right energiser, but so is the conductor material. The power of the energiser and the conductivity of the conductor material must be compatible! To simplify the choice of suitable products for you, horizont has grouped together matching products in series.

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.



WHICH ANIMALS ARE TO BE HERDED?

Each animal has special characteristics and reacts differently to the current pulse. The sensitivity and 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 security for every animal species and every fence situation. The animal symbols make it easy to identify the energiser recommended for a particular animal species.



WHICH ADDITIONAL FUNCTIONS DO HORIZONT ENERGISERS OFFER?

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



SAFE HANDLING OF ENERGISERS: PROTECTION AGAINST FIRE, BLAZE, AND LIGHTNING

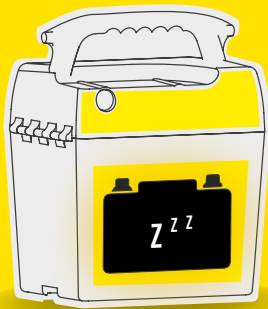
The energiser must not be installed inside buildings in operating areas with a fire hazard, such as barns, and should also be protected from mechanical damage and kept out of the reach of children. To prevent lightning damage, a specialist must install an earthed lightning protection energiser in the fence supply cable to the building or prior to entry into a building.

You will find detailed information in our safety instructions: www.animalcare.horizont.com/Secura

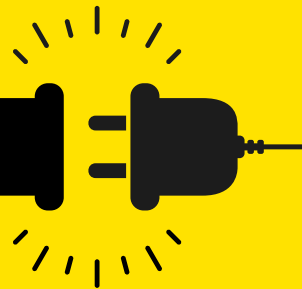
Energy supply cleverly combined

Electrified non-stop!

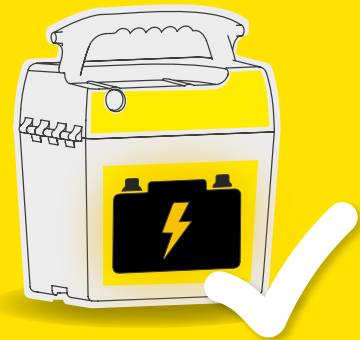
The horizont DUAL energisers with Safety⁺



Regular 230 V operation.



The power supply fails!



Automatic switch-over to 12 V battery operation.

DUAL



Can only be done by horizont energisers:

Automatic switch-over to battery operation in the event of an interruption in the power line.

Dual energisers are primarily operated via 12 volts or 9 volts. The energisers can also be connected to 230 V via a plug-in mains energiser. The 12 volt battery then serves as a backup battery and is charged via the plug-in power supply. If the 230 volt mains fails, the energisers continue to operate without interruption via the 9 or 12 V battery. The energisers can also be operated with a solar panel in conjunction with a 12 or a 9 volt battery.

COMBI



Combi energisers from the 12 V battery range can be operated on the 230 V mains or on the 12 V battery. Combi energisers from the battery range can be operated on the 12 volt battery or on a 9 volt battery. A solar panel can additionally be connected directly to the 12 V battery or to the 9 V battery via the energiser.

From hobby to professional

Product series

The innovative series concept

The right product series for every application:

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

Nearly all 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.

You will find the energiser features with explanations on the respective product in the catalogue.



trapper®

IDEAL FOR SMALL, SIMPLE FENCE SYSTEMS

Our trapper® series is very suitable for newcomers and hobby livestock owners. The trapper 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)



farmer®

IDEAL FOR CALM GRAZING ANIMALS AND NORMAL OPERATING CONDITIONS

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

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

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)



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



hotshock®

IDEAL FOR ROBUST ANIMALS AND FOR WILDLIFE DETERRENT

This series is perfectly suited for deterring robust animals or the keeping of long-haired and feathered animals. hotshock® 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 deterrent.

- Strong energisers with maximum output energy
- Special pulse shape enables special herding security 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 terminals
- Power Control (pulse control)



ranger®

FOR EXACTING DEMANDS AND DRY SOIL CONDITIONS

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

- Energiser function can be adapted to fence conditions depending on the situation
- 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 terminals
- 6 modes function



turbomax®

POWERFUL PERFORMANCE FOR HIGHEST DEMANDS

Our premium series for extreme and particularly high demands. The turbomax® energisers are extremely powerful energisers and are suitable for extremely long fences. turbomax 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
- LED display
- Alarm function
- 2-stage CPN technology
- Impulse Control (cycle sequence monitoring)
- Very sturdy housing
- turbomax technology












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

Product guide

Energisers















BATTERY ENERGISERS 9 V

DUAL / COMBI	Number of possible nets per 50 m	As per CEE* GSE (1500V)	Without vegetation max.	Average vegetation max.	High vegetation max.	Animal husbandry							Wildlife deterrent		Product			
															Designation	Art. No.		
Combi	—	3 km	1.5 km	—	0.5	•				•							trapper® AB12	125H14497
Combi	—	4 km	3 km	1 km	0.3 km	•	•		•	•							trapper® B12	125H10616
Combi	—	8 km	5 km	3.5 km	0.8 km	•	•		•	•							trapper® B22	125H10620
Dual	2	9.5 km	5.5 km	3.8 km	0.9 km	•	•			•			•				farmer® ABN30	125H10891
Dual	3	10 km	6 km	4 km	1.1 km	•	•	•				•		•			hotshock® ABN37	125H10892
Dual	2	12 km	6.5 km	4.5 km	1.3 km	•	•			•			•				ranger® ABN60	125H10983

BATTERY ENERGISERS 12 V

Combi	3	8 km	4 km	2 km	0.8 km	•	•	•	•	•	•						trapper® AN45	125H10867
Combi	4	12 km	8 km	3.5 km	1.2 km	•	•	•	•	•	•						trapper® AN80	125H10866
Combi	6	18 km	12 km	4.5 km	1.5 km	•	•	•	•		•	•					trapper® AN120	125H10865
Dual	6	30 km	10 km	3.5 km	1.2 km	•	•	•	•	•			•				farmer® AN100	125H10896
Dual	12	80 km	18 km	4.8 km	1.9 km	•	•	•	•				•				farmer® AN300	125H10882
Dual	6	40 km	10 km	3.5 km	1.2 km	•	•	•	•				•				farmer® AN1000	125H10855
Dual	6	40 km	10 km	3.5 km	1.2 km	•	•	•	•				•				farmer® AN1000Solar	125H10856
—	14	80 km	30 km	15 km	8 km	•	•	•				•		•	•		hotshock® A300	125H10613
Combi	14	130 km	45 km	20 km	10 km	•	•	•				•		•	•		hotshock® AN490	125H10813
Dual	12	90 km	43 km	17 km	9 km	•	•	•	•			•		•	•		ranger® AN360	125H10997
Dual	14	130 km	60 km	20 km	10 km	•	•	•	•			•		•	•		ranger® AN490	125H10857
Dual	10	50 km	20 km	4.5 km	1.7 km	•	•	•				•		•			ranger® AN2000	125H10854
Dual	12	100 km	33 km	5 km	2 km	•	•	•	•			•		•	•		ranger® AN3000	125H10992
Dual	14	130 km	60 km	20 km	10 km	•	•	•	•			•		•	•		ranger® AN4800	125H10993
Dual	17	180 km	55 km	21 km	14 km	•	•	•			•		•	•			turbomax® AN800	125H10749

MAINS ENERGISERS 230 V

DUAL / COMBI	Number of possible nets per 50 m	As per  CEE (1000V)	Without vegetation  max.	Average vegetation  max.	High vegetation  max.	Animal husbandry							Wildlife deterrent		Product	
																Designation
—	3	15 km	4 km	2 km	0.8 km	•	•		•	•	•	•			trapper ® N45	125H10864
—	10	50 km	15 km	4 km	1.4 km	•	•		•	•			•		farmer ® N200	125H10996
—	16	120 km	45 km	20 km	10 km	•	•	•					•	•	hotshock ® N500	125H10614
—	12	60 km	20 km	5 km	2 km	•	•		•	•			•		ranger ® N270	125H10608
—	16	100 km	40 km	10 km	4 km	•	•		•	•			•		ranger ® N420	125H10742
—	30	320 km	85 km	40 km	25 km	•	•	•		•			•		turbomax ® N1430	125H10748

SOLAR ENERGISERS

—	—	8.5 km	5 km	3 km	0.9 km	•	•			•					trapper ® AS25	125H14982
—	—	18.5 km	5 km	3 km	0.9 km	•	•			•					farmer ® AS50	125H14485
—	8	48 km	14 km	5 km	1.5 km	•	•				•		•		farmer ® AS140	125H14478

UKAL'S TIP

Our small and large batteries are designed to work with our battery-powered energisers. Alkaline batteries provide optimum voltage and are generally used with high performance batteries.



125H15848

125H15844



125H14500

125H12012



125H14896



UKAL'S TIP

What does C20 or C100 mean when the capacity is indicated?

Depending on the acid level, a battery has a certain capacity. This is specified as a C value. C20 indicates the capacity of a battery discharged for 20 h (with current) at the discharge voltage C100 indicates the capacity with a discharge over 100 h at discharge voltage current.

Since a discharge battery discharge of more than 20 h results in a much higher current than a discharge of more than 100 h, the specification of capacity at C100 (standard capacity) is lower than that of C20.



125083103



125083104



125083106



125083100



125083101



125083105

ALKALINE 9 V BATTERIES

- The best power to optimise your energiser's operation.
- 0 % mercury / 0 % cadmium.
- Resistant to extreme conditions: from -20° C to +45° C.
- Turbomax®: guaranteed efficiency.
- Storage life: approx. 2 years.
- Suitable for new-generation energisers.

Sku. 125H15848	AB55 - 55 Ah (l)11 x (H)11,5 x (L)16,5 cm	4 014803 158482	
Sku. 125H15844	AB120 - 120 Ah (l)11 x (H)11,5 x (L)16,5 cm	4 014803 158444	
Sku. 125H14500	AB130 - 130 Ah (l)12,5 x (H)16 x (L)19 cm	4 014803 145000	
Sku. 125H14500P	AB130 - 130 Ah (l)12,5 x (H)16 x (L)19 cm	4 014803 449702	
Sku. 125H12012	AB170 - 170 Ah (l)12,5 x (H)16 x (L)19 cm	4 014803 120120	
Sku. 125H12012P	AB170 - 170 Ah (l)12,5 x (H)16 x (L)19 cm	4 014803 436955	
Sku. 125H14896	AB200 - 200 Ah (l)12,5 x (H)16 x (L)19 cm	4 014803 148964	
Sku. 125H14896P	AB200 (l)12,5 x (H)16 x (L)19 cm	4 014803 464552	

SALINE 9 V BATTERY

- Very good storage life (2 years on average).
- Insensitive to humidity.
- Very good price / Ah ratio.
- High efficiency under 300 Ohm: 112 Ah.

Sku. 125H12010	SB130 - 130 Ah (l)12,5 x (H)16 x (L)19 cm Limited stock	4 014803 120106	
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NEW

RECHARGEABLE 12V BATTERIES



Unbeatable performance. This rechargeable battery offers

energy thanks to its slow discharge for your electric fence needs. It's also compatible with meadow pumps. It is 100% compatible with solar panels for optimum autonomy. This ready-to-use battery comes fully charge. Unaffected by humidity, it offers excellent storage life (2 years on average). It is recyclable (0% mercury, 0% cadmium).

Sku. 125083103	C100: 14 Ah C20: 12 Ah	3 700393 982958	
Sku. 125083104	C100: 31 Ah C20: 27 Ah	3 700393 982965	
Sku. 125083106	C100: 55 Ah C20: 47 Ah	3 700393 982989	
Sku. 125083100	C100: 75 Ah C20: 63 Ah	3 700393 982927	
Sku. 125083101	C100: 100 Ah C20: 85 Ah	3 700393 982934	
Sku. 125083105	C100: 270 Ah C20: 230 Ah	3 700393 982972	On demand



Battery energisers 9 V

Battery energisers are small and handy. This makes them particularly suitable for mobile use. They can be operated with a 9 volt battery or with a 12 volt lead-fleece battery. All battery energisers can also be expanded to solar operation with a solar panel.

The dual energisers can also be connected to the 230 volt mains. The battery energisers offer many possible uses. The maximum output energy of the battery energisers is limited by the performance of the batteries. The use of a lead-fleece battery allows greater energies to be realised.

But beware: 9 V Batteries cannot be recharged. Once they are completely discharged, they must be disposed of properly.

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

There are two different battery versions: Alkaline batteries (air cells) and zinc-carbon batteries. Both versions are mercury- and cadmium-free and therefore environmentally friendly.

trapper[®] B Battery energiser 9 V



Integrated carrying handle

- Easy to move with one hand



Cable bushing

- Intelligent cable routing from inside the energiser 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

Energy supply

Possibilities of energy supply for these energisers:



Features

- Very sturdy housing
- Power Control (pulse control)
- Automatic switch-over to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Secure closing mechanism – pull energiser apart and remove cover



Housing serves as portable box and protects rechargeable battery / battery from effects of weather

Front view



ON/OFF switch & Power Control

- Shows the activity of the energiser
- Flashes in time with the pulse output

Rear view



Fence terminal

Earth terminal

trapper® B Battery energiser 9 V

COMBI

trapper® B12

trapper® B22



Max. fence length:



As per CEE: 4 km
Without vegetation: 3 km
Average vegetation: 1 km
High vegetation: 0.3 km

As per CEE: 8 km
Without vegetation: 5 km
Average vegetation: 3.5 km
High vegetation: 0.8 km

Type of animal husbandry:



Input:

• 0.18 J

• 0.3 J

Max. output:

• 0.12 J

• 0.22 J

Energy consumption:

• 9 V: 15 mA

• 9 V: 35 mA

• 12 V: 22 mA

• 12 V: 25 mA

Max. voltage:

• 8,500 V

• 9,000 V

Voltage 500 Ω:

• 1,500 V

• 2,200 V

Dimensions (L x W x H):

• 19.5 x 23.3 x 25.0 cm

• 19.5 x 23.3 x 25.0 cm

Scope of delivery:

• Energiser, earth stake (approx. 30 cm), fence and earth connecting cable

• Energiser, earth stake (approx. 30 cm), fence and earth connecting cable

Art. No. Unit EAN
125H10616 1 4 014803 106162

Art. No. Unit EAN
125H10620 1 4 014803 006851

Recommended accessories:

• 12 V lead-fleece battery with 12 Ah (125H15842) ≥ service life: 41 days* or 9 V alkaline battery with 120 Ah (125H15844E) ≥ service life: 333 days*
• Earth stake 1 x 1 m (125H140411)
• Solar panel 1 x 2 W (125H60140)

• 12 V lead-fleece battery with 12 Ah (125H15842) ≥ service life: 20 days* or 9 V alkaline battery with 120 Ah (125H15844E) ≥ service life: 143 days*
• Earth stake 1 x 1 m (125H140411)
• Solar panel 1 x 2 W (125H60140)

Selected accessories

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



12 V lead-fleece battery with 12 Ah (125H15842)



9 V alkaline battery with 120 Ah (125H15844E)



Solar panel 2 W (125H60140)

* The figures refer to a calculated use of 100 % of the stated capacity.

farmer® ABN Battery energiser 9 V



Ergonomic carrying handle

- Carrying comfort thanks to soft grip padding
- Easy to move with one hand

Holding device for solar panel

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

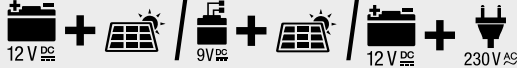
Extremely robust housing

- 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 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Features

- Plug-in profile for earthing rod in housing
- Top and bottom part are connected by hinge
- Housing can be secured by padlock
- Retaining plate inside provides firm stability for 9 and 12 V batteries
- Multi-optional storage compartment for power supply unit when not in use
- Intelligent cable routing prevents pinched cables and runs from inside the energiser to the solar panel
- ECO Power / power saving function: 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 to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001

Advantage:

2 in 1



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

DUAL

farmer® ABN30



Max. fence length:	Netting:	2 x 50 m
	As per CEE:	9.5 km
	Without vegetation:	5.5 km
	Average vegetation:	3.8 km
	High vegetation:	0.9 km

Animal husbandry:



Input:

- 0.4 J
- 0.3 J

Max. output:

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

Energy consumption:

- 10,000 V
- 3,200 V

Max. voltage:

Voltage 500 Ω:

- 17.5 x 24.8 x 31.9 cm

Dimensions (L x W x H):

Scope of delivery:

- Energiser, earth stake (double spike approx. 17 cm), fence and earth connecting cable

Art. No.	Unit	EAN
125H10891	1	4014803*108913

Recommended accessories:

- 12 V lead-fleece battery with 34 Ah (125H14501) ≥ service life: 50-59 days* or 9 V alkaline battery with 150 Ah (125H14057E) ≥ service life: 173-223 days*
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 1 x 1 m (125H140411)
- Solar panel 1 x 5 W (125H14499)

Selected accessories

Find matching accessories for your horizon energiser in the comprehensive horizon catalogue or on the horizon website under the corresponding article number.



12 V lead-fleece with 34 Ah (125H14501) and solar panel 5 W (125H14499)

hotshock® ABN Battery energiser 9 V



Ergonomic carrying handle

- Carrying comfort thanks to soft grip padding
- Easy to move with one hand

Holding device for solar panel

- Easy attachment of the solar panel to the holding 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 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Features

- Plug-in profile for earthing rod in housing
- Top and bottom part are connected by hinge
- Housing can be secured by padlock
- Retaining plate inside provides firm stability for 9 and 12 V batteries
- Multi-optional storage compartment for power supply unit when not in use
- Intelligent cable routing prevents pinched cables and runs from inside the energiser to the solar panel
- Automatic switch-over to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN 60335-2-76 and DIN EN ISO 9001

Advantage:
2 in 1



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

* The figures refer to a calculated use of 100 % of the stated capacity.

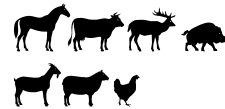
DUAL

hotshock® ABN37



Max. fence length:	Netting:	3 x 50 m
	As per CEE:	10 km
	Without vegetation:	6 km
	Average vegetation:	4 km
	High vegetation:	1.1 km

Animal husbandry:



Input:

- 0.5 J

Max. output:

- 0.37 J

Energy consumption:

- 9 V: 47 mA
- 12 V: 35 mA

Max. voltage:

- 13,000 V

Voltage 500 Ω:

- 3,800 V

Dimensions (L x W x H):

- 17.5 x 24.8 x 31.9 cm

Scope of delivery:

- Energiser, earth stake (double tip approx. 17 cm), fence connection cable

Art. No.	Unit	EAN
125H10892	1	4 014803 108920

Recommended accessories:

- 12 V lead-fleece battery with 34 Ah (125H4501) ≥ service life: 40 days* or 9 V alkaline battery with 170 Ah (125H12012E) ≥ service life: 150 days*
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 1 x 1 m (125H140411)
- Solar panel 1 x 10 W (125H14511)

Selected accessories

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



12 V lead-fleece with 34 Ah (125H4501) and solar panel 10 W (125H14511)

ranger® ABN



Ergonomic carrying handle

- Carrying comfort thanks to soft grip padding
- Easy to move with one hand

Holding device for solar panel

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

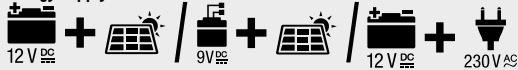
Extremely robust housing

- 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 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Features

- Plug-in profile for earthing rod in housing
- Top and bottom part are connected by hinge
- Exhaustive discharge cut-off at 12 V
- Housing can be secured by padlock
- Retaining plate inside provides firm stability for 9 and 12 V batteries
- Multi-optional storage compartment for power supply unit when not in use
- Intelligent cable routing prevents pinched cables and runs from inside the energiser to the solar panel
- ECO Power / power saving function: 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 to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001

**Advantage:
2 in 1**



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

DUAL

ranger® ABN60



Max. fence length:	Netting:	2 x 50 m
	As per CEE:	12 km
	Without vegetation:	6.5 km
	Average vegetation:	4.5 km
	High vegetation:	1.3 km

Animal husbandry:



Input:

- 0.65 J
- 0.6 J

Max. output:

Energy consumption:

- 9 V: 19 - 57 mA
- 12 V: 22 - 70 mA

Max. voltage:

Voltage 500 Ω:

- 11,000 V
- 3,600 V

Dimensions (L x W x H):

- 17.5 x 24.8 x 31.9 cm

Scope of delivery:

- Energiser, earth stake (double spike approx. 17 cm), fence and earth connecting cable

Art. No.	Unit	EAN
125H10983	1	4 014803 461001

Recommended accessories:

- 12 V lead-fleece battery with 34 Ah (125H14501) ≥ service life: 20-64 days* or 9 V alkaline battery with 170 Ah (125H12012E) ≥ service life: 173-223 days*
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 1 x 1 m (125H140411)
- Solar panel 1 x 10 W (125H14511)

Selected accessories

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



12 V lead-fleece battery with 34 Ah (125H14501), 9 V alkaline battery with 170 Ah (125H12012E) and solar panel 10 W (125H14511)

TIP

Charge your special or lead-fleece battery only with regulated chargers to guarantee a long service life and make sure that the battery is well ventilated.



Battery energisers 12 V

Large fence systems can be operated using battery energisers.

High-capacity batteries can be used to extract so much energy that the turbomax® AN800, for example, can deliver a powerful 8 joules of output energy to the fence.

All batteries can be connected to a solar panel to avoid recharging from the mains if there is sufficient sunlight.

Energisers that can accommodate a battery in the housing also have a solar regulator installed in the energiser. The advantage of this housing shape is that the energiser, battery and solar panel form a compact unit.

trapper® Battery energisers 12 V



Power Control

- Shows the activity of the energiser
- Flashes in time with the pulse output

Hanging device for wall mounting



Input socket

- For connection to 12 V or 230 V

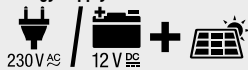
Earth terminal

Fence terminal

Handy housing

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

Energy supply



Combi energisers

Advantage: 2 in 1! Combi energisers can be operated either on 230 V mains power or on a 12 V battery.

Features

- Very sturdy housing
- Power Control (pulse control)
- Automatic switch-over to solar operation
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001

Advantage:

2 in 1



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

Battery energisers 12 V

COMBI

trapper® AN45

trapper® AN80

trapper® AN120



Max. fence length:



Netting: 3 x 50 m
As per CEE: 8 km
Without vegetation: 4 km
Average vegetation: 2 km
High vegetation: 0.8 km

Netting: 4 x 50 m
As per CEE: 12 km
Without vegetation: 8 km
Average vegetation: 3.5 km
High vegetation: 1.2 km

Netting: 6 x 50 m
As per CEE: 18 km
Without vegetation: 12 km
Average vegetation: 4.5 km
High vegetation: 1.5 km

Animal husbandry:



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
- Energiser, power supply unit, fence, earth and battery connecting cable

- 1.2 J
- 0.8 J
- 90 mA
- 8,400 V
- 3,600 V
- 5.8 x 12.4 x 17.2 cm
- Energiser, fence, earth and battery connecting cable

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

Art. No. Unit EAN
125H10867 1 4 014803 108678

Art. No. Unit EAN
125H10866 1 4 014803 108661

Art. No. Unit EAN
125H10865 1 4 014803 108654

Recommended accessories:

- Superchoc sku. 125083106
- Earth stake 1 x 1 m (125H140411)
- Solar panel 1 x 10 W (125H14545)

- Superchoc sku. 125083106
- Earth stake 1 x 1 m (125H140411)
- Solar panel 1 x 10 W (125H14545) or 1 x 20 W (125H14536)

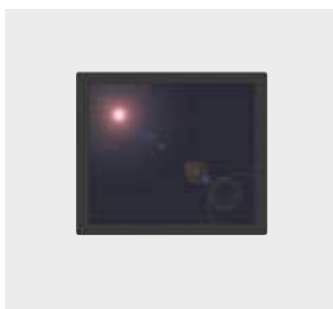
- Superchoc sku. 125083106
- Earth stake 2 x 1 m (125H140411)
- Solar panel 1 x 20 W (125H14536) or 1 x 20 W (125H14536)

Selected accessories

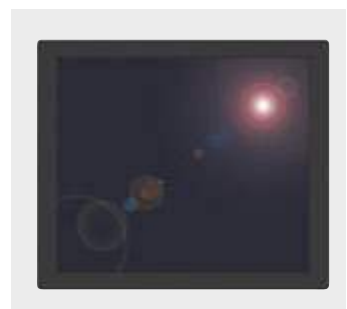
Find matching accessories for your horizon energiser in the comprehensive horizon range here in the catalogue or on the horizon website under the corresponding article number.



Superchoc battery (125083106)



Solar panel 10 W (125H14545)



Solar panel 20 W (125H14536)

farmer® **12V_{DC}** Battery energisers 12 V



Extremely robust housing

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

Energy Control

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

Earth terminal

Fence terminal

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Features

- ECO Power / power saving circuit: 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 to solar operation
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 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

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

DUAL

farmer® AN100



farmer® AN300



Max. fence length:



Netting:	6 x 50 m
As per CEE:	30 km
Without vegetation:	10 km
Average vegetation:	3.5 km
High vegetation:	1.2 km

Netting:	12 x 50 m
As per CEE:	80 km
Without vegetation:	18 km
Average vegetation:	4.8 km
High vegetation:	1.9 km

Animal husbandry:



Input:

Max. output:

Energy consumption:

Max. voltage:

Voltage 500 Ω:

Dimensions (L x W x H):

Scope of delivery:

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

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

Art. No.	Unit	EAN
125H10896	1	4 014803 108968

Art. No.	Unit	EAN
125H10882	1	4 014803 464163

Recommended accessories:

- Superchoc sku. 125083100
 - 230 V power supply unit (125H47PSU0010EU)
 - Earth stake 1 x 1 m (125H140411)
 - Solar panel 1 x 20 W (125H14536)
- Superchoc sku. 125083101
 - 230 V power supply unit (125H47PSU0010EU)
 - Earth stake 3 x 1 m (125H140411)
 - Solar panel 1 x 30 W (125H14537)

Selected accessories

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



Superchoc (125083100 or 125083101)



Solar panel 20 W (125H14536) & 30 W (125H14537)



NEW

METAL BOX (125144442)

Makes it easy to transport the battery. Galvanised sheet metal 1 mm thick. With carrying handle.

For hotshock AN490, A300, and farmer AN100, AN200, AN300.

farmer® Battery energisers 12 V



ON/OFF switch & Energy Control

- 3-stage LED control display for capacity and function of 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

Ergonomic portable handle

- Carrying comfort thanks to soft grip padding
- Easy to move with one hand

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 9 and 12 V batteries up to a size of 265 x 192 x 225 mm



Rear view



Fence terminal

Earth terminal

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to 12 V battery operation.

Features

- ECO Power / power saving function: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- Rechargeable battery or battery is integrated into the handy transport box where it is protected from the weather
- Contact with the battery or the acid is avoided during transport
- Automatic switch-over to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 900



Housing can be secured by padlock



Device for attachment of appropriate solar panel to the back of the energiser cover



Solar panel can be folded away to the side for transport

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

DUAL

farmer® AN1000

farmer® AN1000Solar



Max. fence length:



Netting:	6 x 50 m
As per CEE:	40 km
Without vegetation:	10 km
Average vegetation:	3.5 km
High vegetation:	1.2 km

Netting:	6 x 50 m
As per CEE:	40 km
Without vegetation:	10 km
Average vegetation:	3.5 km
High vegetation:	1.2 km

Animal husbandry:



Input:

• 1.4 J

• 1.4 J

Max. output:

• 1 J

• 1 J

Energy consumption:

• 9 V: 40 - 70 mA

• 9 V: 40 - 70 mA

• 12 V: 30 - 90 mA

• 12 V: 30 - 90 mA

Max. voltage:

• 11,000 V

• 11,000 V

Voltage 500 Ω:

• 4,800 V

• 4,800 V

Dimensions (L x W x H):

• 24.0 x 31.5 x 38.0 cm

• 24.0 x 31.5 x 38.0 cm

Scope of delivery:

• Energiser, fence, earth and battery connecting cable

• Energiser, fence, earth connecting cable, 10 W solar panel

Art. No.	Unit	EAN
125H10855	1	4 014803 108555

Art. No.	Unit	EAN
125H10856	1	4 014803 108562

Recommended accessories:

- Superchoc 12V sku. 125083100 or 125083106
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 1 x 1 m (125H140411)
- Solar panel 1 x 10 W (125H14544)

- Superchoc 12V sku. 125083100 or 125083106
- 230 V power supply unit (47PSU0010FEU)
- Earth stake 1 x 1 m (125H140411)

Selected accessories

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

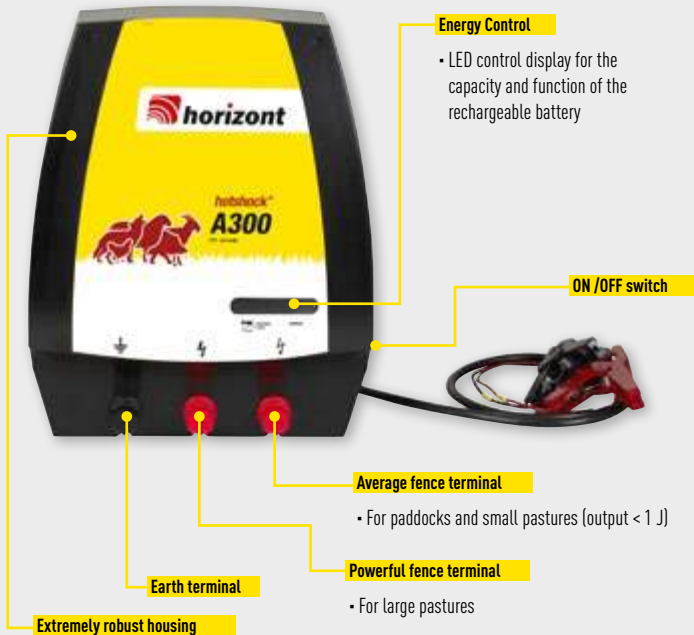


Superchoc (125083106 & 125083100)



Solar panel 10 W with bracket (125H14544)

hotshock® Battery energisers 12 V



Energy Control

- LED control display for the capacity and function of the rechargeable battery

ON / OFF switch

Average fence terminal

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

Powerful fence terminal

- For large pastures

Earth terminal

Extremely robust housing

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

Energy supply



Features

- Two fence terminals for operating one large and one small pasture or paddock
- Automatic switch-over to solar operation
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

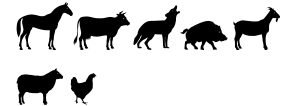
Safety advice: In 230 V operation, the energiser and the power supply unit should and must be installed in a room protected from moisture.

hotshock® A300



Max. fence length:	Netting:	14 x 50 m
	As per CEE:	80 km
	Without vegetation:	30 km
	Average vegetation:	15 km
	High vegetation:	8 km

Animal husbandry:



Input:

- 4 J

Max. output:

- 3 J

Energy consumption:

- 340 mA

Max. voltage:

- 11,000 V

Voltage 500 Ω:

- 5,800 V

Dimensions (L x W x H):

- 9.9 x 22.8 x 28.4 cm

Scope of delivery:

- Energiser, fence, earth and battery connecting cable

Art. No.	Unit	EAN
125H10613	1	4 014803 006486

Recommended accessories:

- Superchoc 12 V sku. 125083101
- Earth stake 3 x 1 m (125H140411)
- Solar panel 1 x 20 W (125H14536) or 1 x 30 W (125H14537)

Selected accessories

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



Superchoc 12V (125083101) and solar panel 30 W (125H14537)

hotshock® ^{12V} Battery energisers 12 V



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

Earth terminal

Powerful fence terminal

Average fence terminal

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

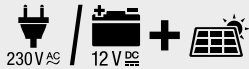
- For large pastures

Control bar

- **Energy Control:** 3-stage LED control display for capacity and function of 9 or 12 V batteries
- **Impulse Control (cycle sequence monitoring):** Lights up when the device is in disrupted operation
- **System Control (argutector display):** Display at higher power consumption to maintain power
- **Voltage display:** 6-step LED display to check the fence voltage



Energy supply



Features

- Two fence terminals 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
- Exhaustive discharge cut-off at 12 V
- ECO Power / power saving function: 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 to solar operation
- Microprocessor control
- Tested and built according to the applicable EU Directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

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

COMBI

hotshock® AN490



Max. fence length:	Netting:	14 x 50 m
	As per CEE:	130 km
	Without vegetation:	45 km
	Average vegetation:	20 km
	High vegetation:	10 km

Animal husbandry:



- Input:** • 5.9 J
- Max. output:** • 4.9 J
- Energy consumption:** • 110 - 435 mA
- Max. voltage:** • 14,000 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:** • Energiser, power supply unit, fence, earth and battery connecting cable

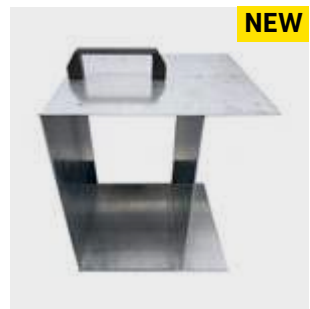
Art. No.	Unit	EAN
125H10813	1	4 014803 460998

Recommended accessories:

- Superchoc 12 V sku. 125083101
- Earth stake 3 x 1.5 m (125H15017-1)
- Solar panel 1 x 50 W (125H14873)

Selected accessories

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



NEW

METAL BOX (125144442)
Makes it easy to transport the battery. Galvanised sheet metal 1 mm thick. With carrying handle. For hotshock AN490, A300, and farmer AN100, AN200, AN300.

ranger[®] 12V **Battery energisers 12 V**



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 at night
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 sequence by day
= additional energy savings, more efficiency, lower operating costs

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

LED control display

- **Energy Control:** 3-stage LED control display for capacity and function of 9 or 12 V batteries
- **Impulse Control (cycle sequence monitoring):** Lights up when the energiser is in disrupted operation
- **System Control (argutector display):** Display at higher power consumption to maintain power
- **Voltage display:** 6-step LED display to check the fence voltage

Average fence terminal

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

Powerful fence terminal

- For large pastures

Earth terminal

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Features

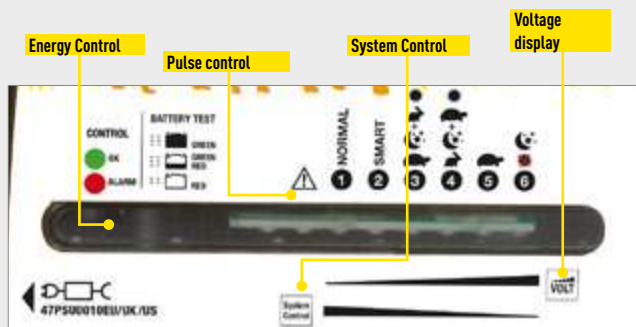
- Two fence terminals for operating one large and one small pasture or paddock
- Connection socket for the power supply unit at the back
- Straightforward and visual information display – easy remote monitoring possible
- Exhaustive discharge cut-off
- ECO Power / power saving function: the power economiser automatically adjusts power consumption to the status of the fence = less energy consumption, less environmental impact and lower costs
- Automatic switch-over to solar operation
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water



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

*APN = Output energy level is set to 60 % of the maximum energy and automatically adjusted in case of load changes, e.g. due to vegetation along the fence

DUAL

ranger® AN360

ranger® AN490



Max. fence length:



Netting:	12 x 50 m
As per CEE:	90 km
Without vegetation:	43 km
Average vegetation:	17 km
High vegetation:	9 km

Netting:	14 x 50 m
As per CEE:	130 km
Without vegetation:	60 km
Average vegetation:	20 km
High vegetation:	10 km

Animal husbandry:



Input:

Max. output:

Energy consumption:

Max. voltage:

Voltage 500 Ω:

Dimensions (L x W x H):

Scope of delivery:

- 4.3 J
- 3.6 J
- 70 - 320 mA
- 12,000 V
- 5,200 V
- 9.9 x 22.8 x 28.4 cm
- Energiser, power supply unit, fence, earth and battery connecting cable

- 5.7 J
- 4.9 J
- 70 - 450 mA
- 12,000 V
- 5,200 V
- 9.9 x 22.8 x 28.4 cm
- Energiser, power supply unit, fence, earth and battery connecting cable

Art. No.	Unit	EAN
125H10997	1	4 014803 109972

Art. No.	Unit	EAN
125H10857	1	4 014803 108579

Recommended accessories:

- Superchoc 12 V sku. 125083101
- Earth stake 2 x 1.5 m (125H15017-1)
- Solar panel 1 x 30 W (125H14537)

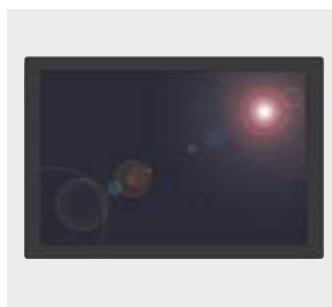
- Superchoc 12 V sku. 125083101
- Earth stake 3 x 1.5 m (125H15017-1)
- Solar panel 1 x 50 W (125H14873)

Selected accessories

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



Superchoc 12V (125083101)



Solar panel 30 W (125H14537)



Solar panel 50 W (125H14873)

ranger[®] 12V^{BS} Battery energisers 12 V



LED control display

- **Impulse Control (cycle sequence monitoring):** Lights up when the energiser is in disrupted operation
- **System Control (argutector display):** Display at higher power consumption to maintain power
- **Voltage display:** 6-step LED display to check the fence voltage

Ergonomic carrying handle

- Carrying comfort thanks to soft grip padding
- Easy to move with one hand

Rotary potentiometer

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

ON/OFF switch, menu pushbutton & Energy Control

- LED control display for the capacity and function of the 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

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 9 and 12 V batteries with a size up to 265 x 142 x 225 mm



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 at night
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 sequence by day = additional energy savings, more efficiency, lower operating costs

Energy supply



Dual energiser with Safety*

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Features

- 9 or 12 V batteries are integrated into the handy portable box where it is protected from the weather
- Contact with the rechargeable battery or the acid is avoided during transport
- Exhaustive discharge cut-off
- ECO Power / power saving function: 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 to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001

Rear view



Earth terminal

Fence terminal

Advantage: 2 in 1



System Control

Pulse control

Voltage display

Rotary potentiometer



Housing can be secured by padlock



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

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

*APN = Output energy level is set to 50 % of the maximum energy and automatically adjusted in case of load changes, e.g. due to vegetation along the fence

DUAL

ranger® AN2000

ranger® AN3000

ranger® AN4800



Max. fence length:



Netting:	10 x 50 m
As per CEE:	50 km
Without vegetation:	20 km
Average vegetation:	4.5 km
High vegetation:	1.7 km

Netting:	12 x 50 m
As per CEE:	100 km
Without vegetation:	33 km
Average vegetation:	5 km
High vegetation:	2 km

Netting:	14 x 50 m
As per CEE:	130 km
Without vegetation:	60 km
Average vegetation:	20 km
High vegetation:	10 km

Animal husbandry:



Input:

• 2.7 J

Max. output:

• 2 J

Energy consumption:

• 65 - 215 mA

Max. voltage:

• 12,000 V

Voltage 500 Ω:

• 4,700 V

Dimensions (L x W x H):

• 24.0 x 31.5 x 38.0 cm

Scope of delivery:

• Energiser, fence connection cable

• 3.5 J

• 3 J

• 75 - 275 mA

• 12,000 V

• 5,200 V

• 24.0 x 31.5 x 38.0 cm

• Energiser, fence connection cable

• 5.7 J

• 4.8 J

• 85 - 450 mA

• 12,000 V

• 5,200 V

• 24.0 x 31.5 x 38.0 cm

• Energiser, fence connection cable

Art. No.	Unit	EAN
125H10854	1	4 014803 108548

Art. No.	Unit	EAN
125H10992	1	4 014803 109927

Art. No.	Unit	EAN
125H10993	1	4 014803 109934

Recommended accessories:

- Superchoc sku. 125083100 or 125083101
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 2 x 1 m (125H140411)
- Solar panel 1 x 20 W (125H14538) or 1 x 30 W (125H14539)

- Superchoc sku. 125083100 or 125083101
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 3 x 1 m (125H140411)
- Solar panel 1 x 20 W (125H14538) or 1 x 30 W (125H14539)

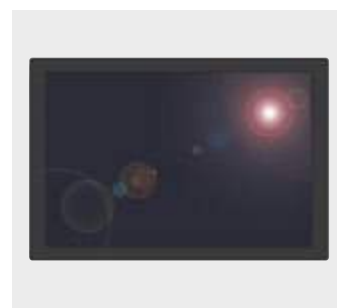
- Superchoc sku. 125083100 or 125083101
- 230 V power supply unit (125H47PSU0010FEU)
- Earth stake 5 x 1 m (125H140411)
- Solar panel 1 x 30 W (125H14539) or 1 x 50 W (125H14873)

Selected accessories

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



Superchoc (125083100 or 125083101)



Solar panel 30 W (125H14539)



Solar panel 50 W (125H14873)

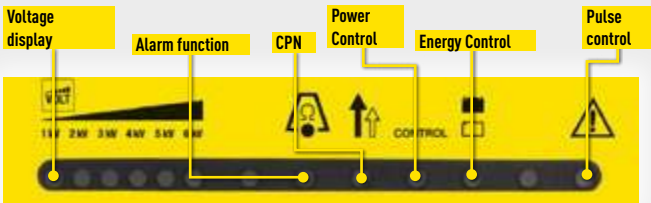
HORIZONT FENCE | Energisers | Battery energisers 12 V

turbomax® ^{12V} Battery energisers 12 V



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 energiser and flashes in time with the pulse output
- **Energy Control:** LED control display for capacity and function of 9 or 12 V batteries
- **Impulse Control (cycle sequence monitoring):** Lights up when the energiser is in disrupted operation



Energy supply



Dual energiser with Safety+

Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure! The energiser switches over automatically to battery operation.

Safety advice

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

Features

- 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 cut-off
- turbomax technology: for fence loads > 500 ohms the energiser works with an enormously high energy potential to reliably supply the fence
- Automatic switch-over to solar operation
- Microprocessor control
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001

DUAL

turbomax® AN800



Max. fence length:	Netting:	17 x 50 m
	As per CEE:	180 km
	Without vegetation:	55 km
	Average vegetation:	21 km
	High vegetation:	14 km

Animal husbandry:



- Input:** - 12 V
- Max. output:** - 8 J
- Energy consumption:** - 500 - 1,200 mA
- Max. voltage:** - 12,000 V
- Voltage 500 Ω:** - 4,400 V
- Dimensions (L x W x H):** - 10.6 x 23.4 x 29.8 cm
- Scope of delivery:** - Energiser, mains plug, battery connecting cable

Art. No.	Unit	EAN
125H10749	1	4 014803 107497

Recommended accessories:

- 12 V battery special with 230 Ah (125H25012B) ≥ service life: 8-19 days*
- Earth stake 5 x 1.5 m (125H15017-1)
- Solar panel 1 x 50 W (125H14873)
- Large-capacity battery box (125H21264)
- Warning sign international (125H14127)
- Earth cable

Selected accessories

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



12 V battery special with 230 Ah 125083105 (on demand) and solar panel 50 W (125H14873)

* The figures refer to a calculated use of 100 % of the stated capacity.



Mains energisers 230 V

The use of a mains energiser assumes that you can access a mains connection in the immediate vicinity of the pasture area.

A mains energiser has the following advantages over other types of power supply:

- High efficiency
- Continuous & reliable operation on 230 V mains
- High operating comfort - no battery replacement necessary
- Can also be used with denser vegetation and animals that are difficult to herd
- Reasonable consumption

trapper® Mains energiser 230 V



Power Control

- Shows the activity of the energiser
- Flashes in time with the pulse output



Handy housing

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

Energy supply



Features

- Very sturdy housing
- Power Control (pulse control)
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting

trapper® N45



Max. fence length:	Netting:	3 x 50 m
	As per CEE:	15 km
	Without vegetation:	4 km
	Average vegetation:	2 km
	High vegetation:	0.8 km

Animal husbandry:



Input:	• 0.8 J
Max. output:	• 0.45 J
Energy consumption:	• 1.5 W
Max. voltage:	• 8,000 V
Voltage 500 Ω:	• 3,900 V
Dimensions (L x W x H):	• 5.8 x 12.4 x 17.2 cm
Scope of delivery:	• Energiser, mains plug, dowels, screws

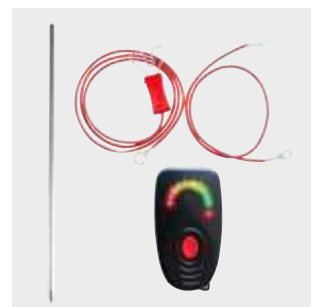
Art. No.	Unit	EAN
125H10864	1	4 014803 108647

Recommended accessories:

- Earth stake 1 x 1 m (125H140411)
- Fence connection kit (125H15522)

Selected accessories

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



Earth stake (125H140411), fence connection kit (125H15522C), fence tester UKAL125UKA400

farmer® Mains energiser 230 V



Extremely robust housing

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



Earth terminal

Fence terminal

Power Control

- Shows the activity of the energiser
- Flashes in time with the pulse output

Energy supply



230V AC

Features

- Very sturdy housing
- Power Control (pulse control)
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

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

farmer® N200



Max. fence length:	Netting:	10 x 50 m
		As per CEE:
	Without vegetation:	15 km
	Average vegetation:	4 km
	High vegetation:	1.4 km

Animal husbandry:



- Input:** - 2.8 J
- Max. output:** - 2 J *
- Energy consumption:** - 5 W
- Max. voltage:** - 14,000 V
- Voltage 500 Ω:** - 5,200 V
- Dimensions (L x W x H):** - 9.9 x 22.8 x 28.4 cm
- Scope of delivery:** - Energiser, mains plug, dowels and screws

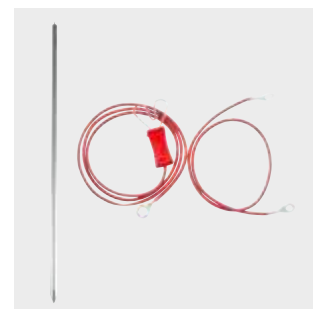
Art. No.	Unit	EAN
125H10996	1	4 014803 109965

Recommended accessories:

- Earth stake 2 x 1 m (125H140411)
- Fence connection kit (125H15522)
- Fence tester farmer (125H14527)
- Warning sign international (125H14127)
- Lightning protection choke (125H15482)
- Earth cable

Selected accessories

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



Earth stake 1 m (125H140411), fence connection kit (125H15522)

hotshock® Mains energiser 230 V

Extremely robust housing

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



Impulse Control (cycle sequence monitoring)

- Lights up when the energiser drops below the power limit- disrupted operation

Average fence terminal

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

Earth terminal

Powerful fence terminal

- For large pastures

Power Control

- Shows the activity of the energiser
- Flashes in time with the pulse output

Energy supply



230V[~]

Features

- Two fence terminals for operating one large and one small pasture or paddock
- Tested and built according to the applicable EU directives and the safety standard EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

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

* at 110 % test voltage 253 V

hotshock® N500



Max. fence length:	Netting:	16 x 50 m
	As per CEE:	120 km
	Without vegetation:	45 km
	Average vegetation:	20 km
	High vegetation:	10 km

Animal husbandry:



Input:

• 6 J

Max. output:

• 5 J *

Energy consumption:

• 8 W

Max. voltage:

• 9,500 V

Voltage 500 Ω:

• 6,000 V

Dimensions (L x W x H):

• 9.9 x 22.8 x 28.4 cm

Scope of delivery:

• Energiser, mains plug, dowels and screws

Art. No. Unit EAN

125H10614

1

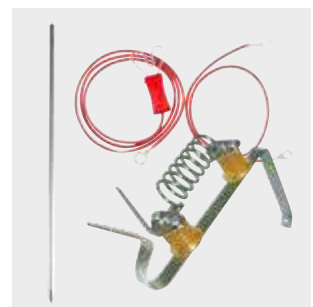
4 014803 106148

Recommended accessories:

- Earth stake 3 x 1.5 m (125H15017-1)
- Fence connection kit (125H15522)
- Lightning protection choke (125H15482)

Selected accessories

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



Earth stake 1.5 m (125H15017-1), fence connection kit (125H15522), lightning protection choke (125H15482)

ranger®  Mains energiser 230 V



Extremely robust housing

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

Impulse Control (cycle sequence monitoring)

- Lights up when the energiser drops below the power limit – disrupted operation



Control display

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

Average fence terminal

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

Powerful fence terminal

- For large pastures

Earth terminal

Energy supply



230V AC

Dual energisers

Advantage: 2 in 1! Dual energisers can be connected in parallel to 230 V mains power and a 12 V battery. Uninterrupted operation is guaranteed in the event of a power failure.

Features

- Two fence terminals 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 EN60335-2-76 and DIN EN ISO 9001

Voltage display

Earthing control

Pulse control



Hanging device for wall mounting



Ventilation slots to allow discharge of condensation water

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

Mains energisers 230 V

ranger® N270



ranger® N420



Max. fence length:

Netting:	12 x 50 m
As per CEE:	60 km
Without vegetation:	20 km
Average vegetation:	5 km
High vegetation:	2 km

Netting:	16 x 50 m
As per CEE:	100 km
Without vegetation:	40 km
Average vegetation:	10 km
High vegetation:	4 km

Animal husbandry:



- 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
- 5,400 V
- 9.9 x 22.8 x 28.4 cm
- Energiser, mains plug, dowels and screws

- 6 J
- 4.2 J
- 7 W
- 9,300 V
- 5,600 V
- 9.9 x 22.8 x 28.4 cm
- Energiser, mains plug, dowels and screws

Art. No.	Unit	EAN
125H10608	1	4 014803 106087

Art. No.	Unit	EAN
125H10742	1	4 014803 107428

Recommended accessories:

- Earth stake 2 x 1.5 m (125H15017-1)
- Lightning protection choke (125H15482)
- Fence connection kit (125H15522)
- Warning sign international (125H14127)
- Earth cable

- Earth stake 3 x 1.5 m (125H15017-1)
- Lightning protection choke (125H15482)
- Fence connection kit (125H15522)
- Warning sign international (125H14127)
- Earth cable

Selected accessories

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



Earth stake 1.5 m (125H15017-1)



Lightning protection choke (125H15482)



Fence connection kit (125H15522)

turbomax[®] Mains energiser 230 V

Extremely robust housing

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



Side view



Fence terminal

Earth terminal

LED control display

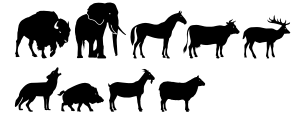
- **Voltage display:** 6-step LED display to check the earthing and fence voltage
- **Alarm function:** Optical and acoustic alarm when the voltage drops below 400 ohms, the fence should be checked for faults or damage
- **2-stage CPN technology:** In the event of faults, higher energies are automatically fed into the fence (LED lights up red) after a safety margin of 55 seconds to ensure herding security

turbomax[®] N1430



Max. fence length:	Netting:	30 x 50 m
	As per CEE:	320 km
	Without vegetation:	85 km
	Average vegetation:	40 km
	High vegetation:	25 km

Animal husbandry:



- Input:** - 25 J
- Max. output:** - 14.3 J
- Energy consumption:** - 35 W
- Max. voltage:** - 12,000 V
- Voltage 500 Ω:** - 4,600 V
- Dimensions (L x W x H):** - 10.6 x 23.4 x 29.8 cm
- Scope of delivery:** - Energiser, mains plug

Art. No.	Unit	EAN
125H10748	1	4 0 14803 107480



Voltage display Alarm function CPN Power Control Pulse control

Features

- Straightforward and visual information display – remote monitoring possible
- turbomax technology: for fence loads > 500 ohms the energiser 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 EN60335-2-76 and DIN EN ISO 9001



Hanging device for wall mounting

Accessories:

- Earth stake 9 x 1.5 m (125H15017-1)
- Large-capacity battery box (125H21264)
- Fence tester turbomax (125H14151)
- Lightning protection choke (125H15482)
- Warning sign international (125H14127)
- Earth cable

accessories

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



Fence tester turbomax (125H14151), lightning protection choke (125H15482)



Solar energisers

The following horizontal solar energisers have an integrated solar panel. This supports the 12 V battery in that it does not need to be recharged so often, as it is discharged more economically.

The solar support is a worthwhile investment in the long term, especially during the sunny times of the year.

The advantage of the solar energisers is that they are delivered fully assembled. The energiser is therefore immediately operational after the rechargeable battery has been fully charged. The components are matched to each other so that the energisers on the fence provide super performance.

trapper®  Solar energisers



Ergonomic carrying handle

- Easy to move with one hand



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 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

TIP

Charge the battery before starting up!

Robust plastic solar panel

- Environmentally friendly use of solar energy
- Compact unit of energiser and solar panel

Rear view



Earth terminal

Fence terminal

Energy supply



Features

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



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



Twist lock on the back to open the housing



Plug-in profile for earthing rod in housing

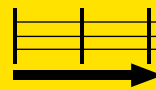


Inclined front for easy alignment of solar panel to the sun

trapper® AS25



Max. fence length:



As per CEE:	8.5 km
Without vegetation:	5 km
Average vegetation:	3 km
High vegetation:	0.9 km

Animal husbandry:



Input:

• 0.33 J

Max. output:

• 0.25 J

Energy consumption:

• 26 mA

Max. voltage:

• 9,000 V

Voltage 500 Ω:

• 3,000 V

Dimensions (L x W x H):

• 23.1 x 37.4 x 32.0 cm

Scope of delivery:

- Energiser, power supply unit, earth stake (approx. 30 cm), 12 V battery, 5 W solar panel, fence and earth connecting cable

Art. No.	Unit	EAN
125H14982	1	4 014803 149824

Recommended accessories:

- Earth stake 1 x 1 m (125H140411)
- Fence tester farmer (125H14527)
- Warning sign international (125H14127)

Selected accessories

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



Earth stake (125H140411), warning sign, international (125H14127)

farmer® Solar energisers



Ergonomic carrying handle

- Easy to move with one hand



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 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

TIP

Charge the battery before starting up!

Robust plastic solar panel

- Environmentally friendly use of solar energy
- Compact unit of energiser and solar panel

Rear view



Earth terminal

Fence terminal

Energy supply



Features

- ECO Power / power saving function: 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 to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control



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



Twist lock on the back to open the housing



Plug-in profile for earthing rod in housing

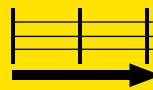


Inclined front for easy alignment of solar panel to the sun

farmer® AS50



Max. fence length:	As per CEE:	8.5 km
	Without vegetation:	5 km
	Average vegetation:	3 km
	High vegetation:	0.9 km



Animal husbandry:



Input:

- 0.65 J

Max. output:

- 0.5 J

Energy consumption:

- 20 - 50 mA

Max. voltage:

- 11,000 V

Voltage 500 Ω:

- 3,600 V

Dimensions (L x W x H):

- 23.1 x 37.4 x 32.0 cm

Scope of delivery:

- Energiser, power supply unit, 12 V rechargeable battery, 10 W solar panel, fence and earth connecting cable

Art. No. Unit EAN

125H14485

1



Recommended accessories:

- Earth stake 1 x 1 m (125H140411)
- Fence tester farmer (125H14527)
- Warning sign international (125H14127)

Selected accessories

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



Earth stake (125H140411), warning sign international (125H14127)

farmer® Solar energisers



Ergonomic carrying handle

- Easy to move with one hand



Extremely robust housing

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

TIP

Charge the battery before starting up!

Robust plastic solar panel

- Environmentally friendly use of solar energy
- Compact unit of energiser and solar panel

ON/OFF switch & Energy Control

- 3-stage LED control display for capacity and function of 9 or 12 V batteries
- Shows the activity of the energiser
- Flashes in time with the pulse output

Rear view



Earth terminal

Fence terminal

Energy supply



Features

- ECO Power / power saving function: 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 to solar operation
- Solar charging control installed in the energiser is weather protected – easy charging of different types of rechargeable batteries
- Microprocessor control



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



Twist lock on the back to open the housing



Plug-in profile for earthing rod in housing

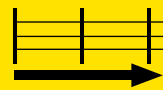


Inclined front for easy alignment of solar panel to the sun

NEW farmer® AS140



Max. fence length:



- As per CEE: 48 km
- Without vegetation: 14 km
- Average vegetation: 5 km
- High vegetation: 1.5 km

Animal husbandry:



Input:

- 2.0 J

Max. output:

- 1.4 J

Energy consumption:

- 30 - 200 mA

Max. voltage:

- 10,000 V

Voltage 500 Ω:

- 4,600 V

Scope of delivery:

- Energiser, power supply unit, earth stake (approx. 30 cm), 12 V battery, 24 W solar panel, fence and earth connecting cable

Art. No.	Unit	EAN
125H14478	1	4 014803 144782

Limited stock

Recommended accessories:

- Earth stake 2 x 1 m (125H140411)
- Fence tester farmer (125H14527)
- Warning sign international (125H14127)

Selected accessories

Find matching accessories for your horizon energiser in the comprehensive horizon catalogue or on the horizon website under the corresponding article number.



Earth stake (125H140411), fence tester farmer (125H14527), warning sign international (125H14127)

Things to know about

Earthing & control

1. WHY IS EARTHING AT THE FENCE SO IMPORTANT?

The most important prerequisite to ensure optimum herding security as well as full energiser performance at the fence is proper earthing. The fence system is a circuit in which electricity flows.

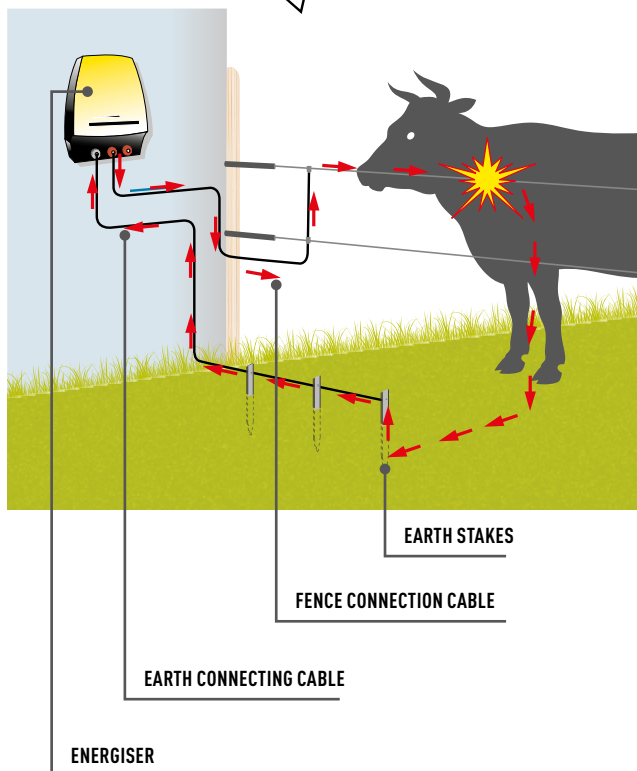
Caution: It is not necessary to set up the fence in a circle to close the circuit because it is closed when touched by the animal. The current thus flows from the energiser through the conductors, the animal body (or vegetation) over the ground, through the earth stakes back to the energiser. Insufficient earthing means that less current flows and the deterrent effect on the animal is reduced. The danger: The animal escapes or enters the fenced area.



TIP: FAULT DETECTION

Connect long supply lines from the energiser to the fence in a branching box every 50-100 m. This can be easily opened and the cables checked for function by measuring the voltage. Troubleshooting is significantly simplified, especially for cables laid in the ground.

Closing the electric circuit with correct earthing



2. WHAT IS IMPORTANT TO PAY ATTENTION TO IN TERMS OF SOIL CONDITIONS?

Soil can have a very high resistance and significantly affect the herding security of the electric fence system. The goal is to minimise soil resistance, and this is achieved by good soil conductivity. Damp soil 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 several earth stakes are inserted at least 1 m deep into the soil until they reach damp earth. When using several earth stakes, space them 3 m apart. The earth stakes are then connected to the energiser 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

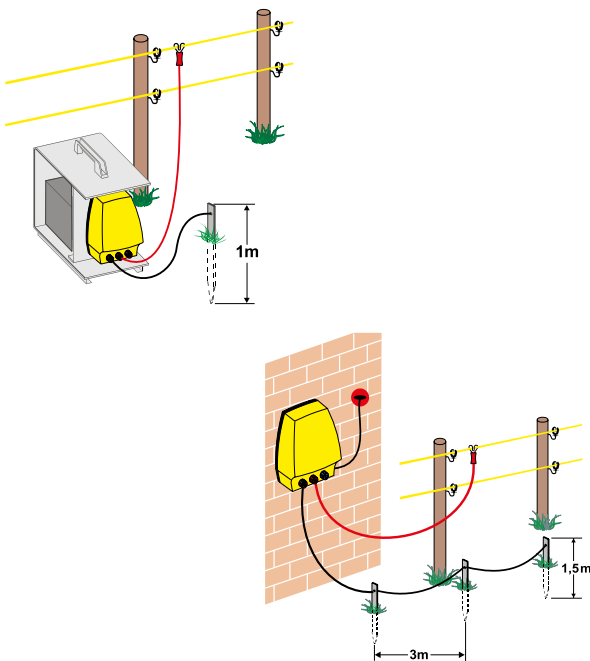
- ✓ Energiser
- ✓ Earth stake
- ✓ Earth connecting cable & connection cable
- ✓ Fence tester

4. WHEN AND HOW IS EARTHING CHECKED?

Earthing reliability should be checked when the pasture is put to use in the spring and during the dry period in the summer. Also in the event of faults in the fence as well as after installation of a new energiser. Certain measuring instruments or fence testers are used for this purpose.

The test procedure is as follows: You produce a short circuit by placing iron posts against the electrical conductor about 100 m away from the energiser. 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 energiser, and the measuring contact is held to the last earthing rod of the energiser. 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 prove that you checked.

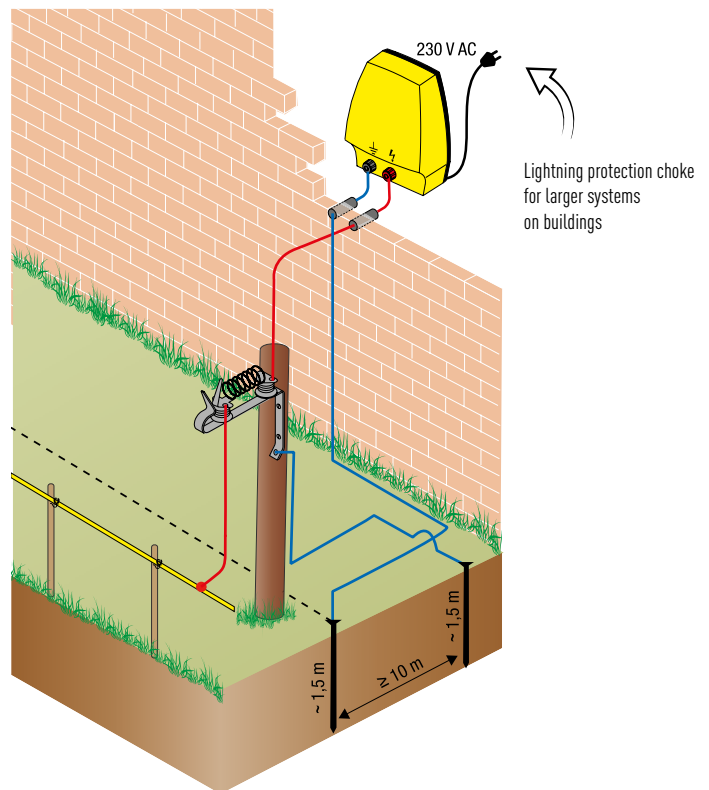


5. WHICH SAFETY REGULATIONS MUST BE OBSERVED?

When earthing the energiser, 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 energiser and the lightning protection should also be at least 10 m.

Excessive voltage (like a lightning strike) can destroy the energiser, the fence is no longer functional and the animal can escape. To prevent this, a lightning protection system should be installed between the energiser 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 mains energiser, as the current can flash over to the mains.

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



IMPORTANT ICONS FOR THIS CHAPTER:

Product describing icons:

These icons describe earthing & control features.



Height



Width



Diameter



Material thickness



Stainless steel



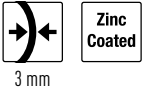
Galvanized

HORIZONT FENCE | Earthing & control | Earth stakes



T-earth stake

- Suitable for:** • 12 V Battery and mains energisers
Length: • 100 cm
Material: • Angle section, galvanized
Material thickness: • 3 mm
Scope of delivery: • Complete with connection bolt



Art. No.	Unit	EAN
125H140411	1	4 014803 434265

Earth cable and warning



Earth / Connecting / Supply cable

- Application:** • Overhead and buried fence supply cables, connection of 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	EAN
125H14040	25 m	1.6 mm	500 m	0.07 Ω/m	1	4 014803 140401
125H15525	50 m	1.6 mm	500 m	0.07 Ω/m	1	4 014803 155252
125H15956	100 m	1.6 mm	500 m	0.07 Ω/m	1	4 014803 159564
125H15516	100 m	2.5 mm	1,000 m	0.035 Ω/m	1	4 014803 155160

TIP



To protect the earth cable, it is advisable to lay it in a protective hose or pipe.



Warning sign international

- Dimensions:** • 20 x 10 cm
Scope of delivery: • Warning sign printed on both sides

Art. No.	Unit	EAN
125H14127	4	4 014803 141279

Fence connection kit

- Suitable for:**
- Heart clamp for connection to tape up to 12 mm, rope, polywire and wire
- Advantage:**
- High voltage cable of the heart clamp with reinforced plastic sheath to avoid voltage flashovers
- Material:**
- Galvanized
- Scope of delivery:**
- Connecting cable 120 cm, earth cable 50 cm

Art. No.	Unit	EAN
9HOR15522	1	4 014803 405784



Zinc Coated

Energiser and earth connection kit

- Suitable for:**
- Heart clamp for connection to tape up to 12 mm, rope, polywire and wire
- Advantage:**
- Earth connecting cable for fastening to earthing rod
- Material:**
- Galvanized
- Scope of delivery:**
- Earthing rod, fence connection cable 2 m, earth connecting cable 3 m, Warning sign

Art. No.	Unit	EAN
125H15858C	1	4 014803 158581



Zinc Coated

Fence tester

Fence tester trapper®

- Advantage:**
- 6 recessed glow lamps for easy reading of voltage
 - Non-slip insulation of the earth stake - additional safety in operation
 - When not in use, the cable can be wrapped around the fence tester and the earthing rod can be fixed in place - easy handling and additional protection against damage
- Operation:**
- Operation without battery!
- Scope of delivery:**
- Fence tester

Art. No.	Unit	EAN
125H14494	1	4 014803 144942



HORIZONT FENCE | Earthing & control | Fence tester



Fence tester ranger®

- Advantage:**
- Digital display for accurate reading of the voltage
 - Device switches on automatically when fence voltage is applied
 - 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

Art. No.	Unit	EAN
125H14496	1	3 700393 916595

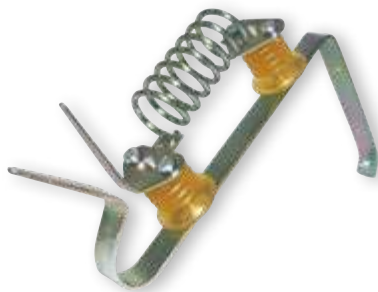


Fence tester turbomax® Fence scout

- 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 fault
 - Display lighting
 - Acoustic signals
 - With battery control indicator
- Operation:**
- Battery operation
- Scope of delivery:**
- Fence tester, 9 V block battery, belt pouch

Art. No.	Unit	EAN
125H14151	Limited stock	3 700393 916540

Lightning protection and fence switch



Lightning protection choke

- Suitable for:**
- Electric fence installation on building installations
- Advantage:**
- Effectively protects energiser from damage caused by lightning and excessive voltage

Art. No.	Unit	EAN
125H15482	1	4 014803 154828

DOUBLE LIGHTNING PROTECTION

2x ⚡

Energisers with two fence terminals 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 energiser 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.

Things to know about Netting



The horizon service for you:
Two year warranty on the
UV stability of all netting.

PREMIUM QUALITY
MADE IN GERMANY

All horizon netting are produced in
Germany, which is why they are known for
their **premium quality**.

1. THE FUNCTION OF NETTING

Netting 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. horizon 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.

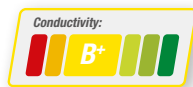
2. THE APPLICATION

As a livestock owner you can keep your animals in or out with a electric 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. Due to their size, small animals such as cats, dogs or rabbits can also be managed with netting. The same rule can also be applied when warding off wildlife or wolves. In this case, the horizon range offers optimal netting and polywire fencing solutions.

The different types of netting 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 horizon netting type contains information on conductivity, e.g. the symbol A++, which stands for the highest conductivity.



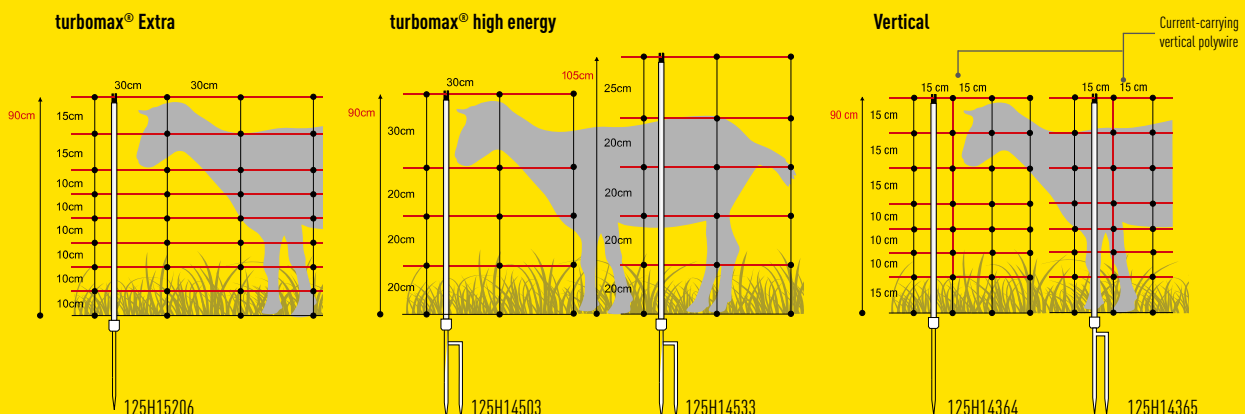
When using netting on particularly dry soil, it is advisable to use netting with earth conductors. If the netting is touched by the animal in this case, the dry soil prevents the necessary transport of electrical pulse energy back to the earth connection of the energiser. The earth conductor of the corresponding netting can act as a substitute and feed the pulse back to the energiser. Netting with earthing conductors can be used in all soil conditions. Particular strengths of the netting are in dry soils and earthing problems.

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 netting 14364, 14365 below) can considerably reduce energy leakage into the ground that is unused for the herding performance. The pulse-type energy of the energiser is available in the optimum intensity required for herding security when the animal comes into contact with the netting. 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.

TIP

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





3. CHOOSING THE CORRECT POSTS

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



SINGLE PRONG

- Use on stony ground or in the mountains

DOUBLE PRONG

- Use on loose or firm stone-free ground
- The post can be anchored in the ground without tools thanks to the tread
- A double prong achieves a greater 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 which wild animals can use to slip through, for example.

4. CONNECTION TO AN ENERGISER

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

5. THE ASSEMBLY AND DISMANTLING OF NETTING

CUTTING THE PASTURE AREA FREE

Why is it so important for the netting to have the pasture area cut free?

The trimmed corridor under the set up netting prevents the first current-carrying polywire from being overgrown through vegetation. The vegetation cannot conduct energy away from the netting into the ground. If the first current-carrying polywires are free from vegetation, no energy will be lost from the fence.

POSTS

How do I choose the optimal post?

The broader surface of posts with double prong makes it easier to drive them into the ground. Yet the double prong is difficult to drive into stony ground. It is better to use a single prong 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 NETTING

How is a net overlap created in sheep netting?

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.

CONNECTING SHEEP NETTING CONDUCTIVELY TOGETHER

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 netting 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 netting can be stretched on the ground with the supplied stakes. This guarantees better herding security.

CONNECTING THE ENERGISER

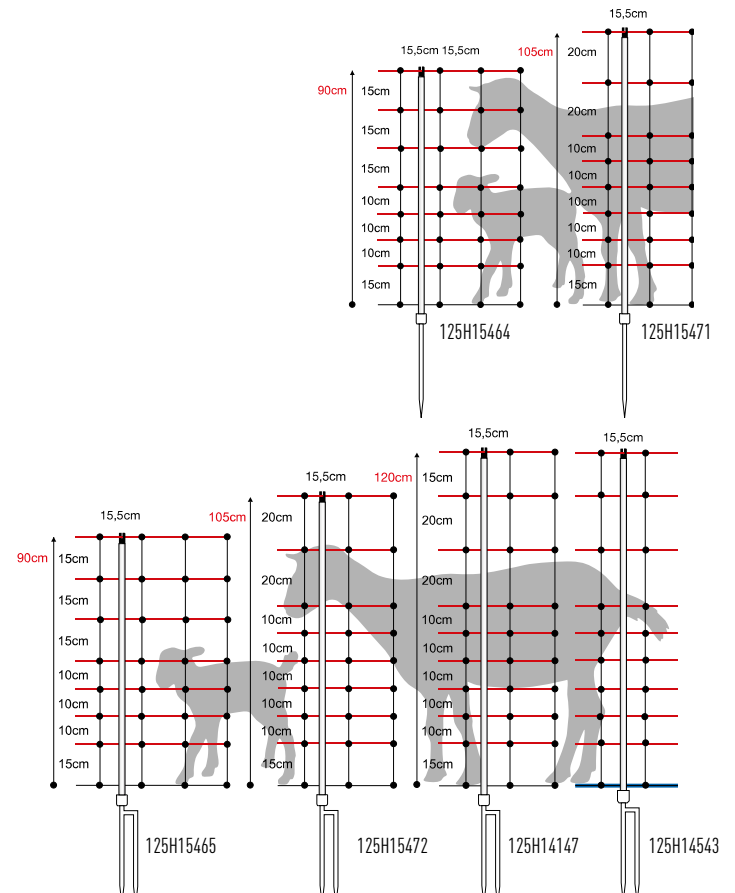
The energiser should be connected to the connecting clips of the netting. This enables the best contact performance.

ROLLING UP SHEEP NETTING

The netting is picked up at the posts. The actual netting (wire strand) is then rolled up to the posts. The netting is tied together with the strings.

Horinetz
Sheep and goat netting

- Suitable for:**
- Sheep and goats
 - Wolf deterrent and repelling of wild boars
- Bottom mesh size:**
- 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 or double prong
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
- Accessories:**
- Replacement post with double prong Ø 13 mm, 90 cm high (125H15022-2), 105 cm high (125H15026-2) or 120 cm high (125H14384-2)



Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H15464	90 cm	50 m	Single prong	14 / plastic	white	●●	8	7	1.15 Ω / m	1	4 014803 154644
125H15465	90 cm	50 m	Double prong	14 / plastic	white	●●	8	7	1.15 Ω / m	1	4 014803 154651
125H15471	105 cm	50 m	Single prong	14 / plastic	white	●●	9	8	1.01 Ω / m	1	4 014803 154712
125H15472	105 cm	50 m	Double prong	14 / plastic	white	●●	9	8	1.01 Ω / m	1	4 014803 154729
125H14147	120 cm	50 m	Double prong	14 / plastic	white	●●	10	9	0.84 Ω / m	1	4 014803 141477

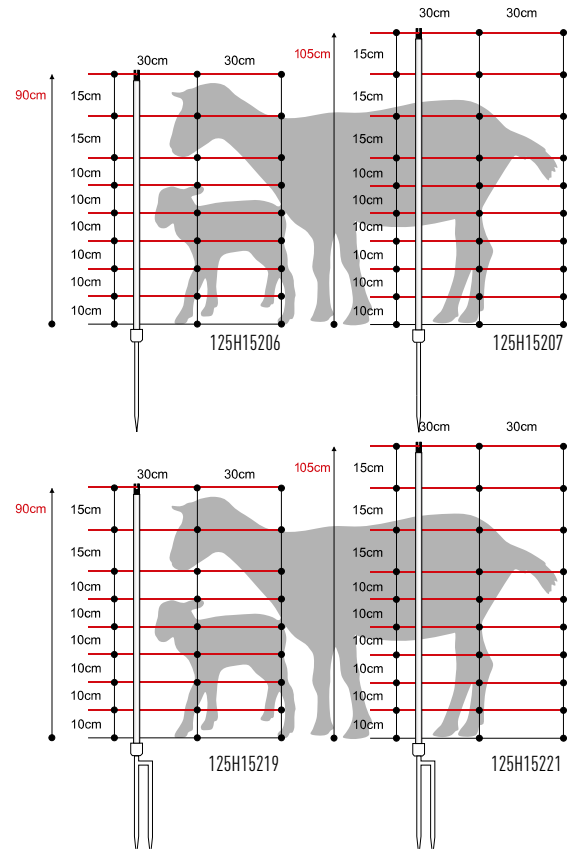


HORIZONT FENCE | Netting | Sheep and goat netting

Turbomax® Extra Sheep and goat netting



- Suitable for:**
- Sheep and goats
 - Wolf deterrent and wild boar repellent
- Bottom mesh size:**
- 10 cm high and 30 cm wide
- Advantages:**
- High stability through special vertical connections
 - Tight mesh spacing prevents lambs from breaking out
 - Professional netting with high conductivity – for more safety
 - White with black outside edges for more contrast to the surroundings and for better visibility
 - horizontal 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 prong
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
- Accessories:**
- Replacement post with double prong Ø 13 mm, 90 cm high (125H15022-2) or 105 cm high (125H15026-2)



Connecting clip



Head insulator



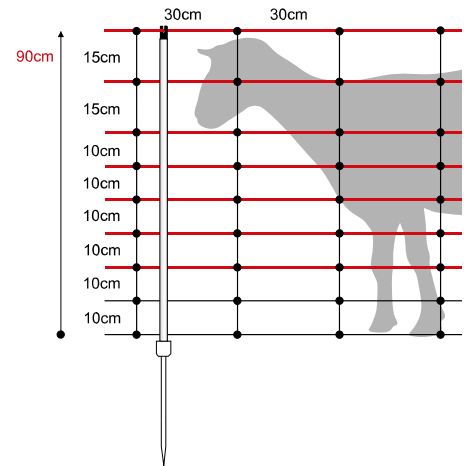
Foot tread with double prong

Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H15206	90 cm	50 m	Single prong	14 / plastic	white	○●	9	8	0.29 Ω / m	1	4 0 14803 152060
125H15207	105 cm	50 m	Single prong	14 / plastic	white	○●	10	9	0.28 Ω / m	1	4 0 14803 152077
125H15221	105 cm	50 m	Double prong	14 / plastic	white	○●	10	9	0.28 Ω / m	1	4 0 14803 152213



Turbomax® Plus
Sheep and goat netting

- Suitable for:**
- Sheep and goats
 - Wolf deterrent and wild boar repellent
- 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 polywire with black outside edges for more contrast to the surroundings and for better visibility
- Scope of delivery:**
- horicont quality with high-quality copper conductor
 - 1 x herding net turbomax high energy complete, 90 cm high, 50 m long
 - 14 x plastic posts with single prongs
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
 - Connecting accessories
- Accessories:**
- Replacement post with single prong Ø 13 mm, 90 cm high (125H14664)



Art. No.	Netting height	Netting length	Prong	Number of posts and material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H14955	90 cm	50 m	Single prong	14 plastic posts	white		9	7	0.33 Ω / m	1	4 014803 149558



hotshock®
The hotshock® energisers are perfectly suited for use on herding nets!

Recommended by sheep breeding associations

Wolf deterrent from 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 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 deterrent systems to protect your farm animals. The netting has been extensively tested in practice and is recommended by the associations – for more safety on your pastures!

TURBOMAX HIGH ENERGY

The turbomax high energy netting is suitable for uneven terrain and mountains. Since the lower mesh spacings are particularly large, small wild animals can also slip through the netting and remain unharmed. Rigid verticals in the netting ensure solid stability. High energy in the netting is ensured due to a reduced number of horizontal polywires. The reduced number of horizontal polywires guarantees a particularly high conductivity with low energy consumption of the 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. The special construction can prevent the wolf from jumping over the net, as the movement of the tape in the wind irritates the wolf's field of vision and it cannot calculate its jump over the netting. UV-stable plastic posts in combination with double prongs ensure a secure stability, even in loose soil or in windy conditions.

HORINETZ SUPER

The horinetz super is an extra high special net with a wolf deterrent with 145 cm height. In combination with further wolf deterrent measures, this high netting offers very good 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.



Art. No. 125H14503/ 125H14533
with additional earth conductor: Art. No. 125H14534/ 125H14652



Art. No. 125H14992/ 125H14925

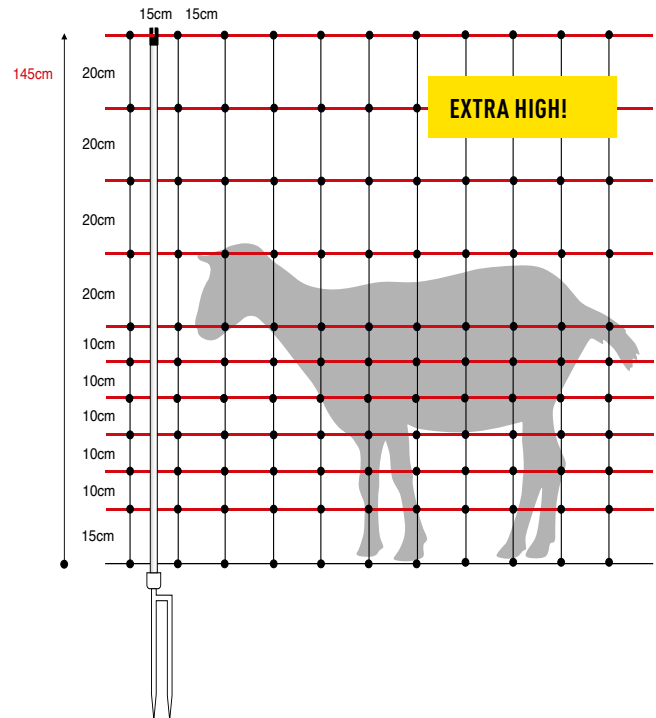


Art. No. 125H14967

Horinetz super
Wolf deterrent netting



- Suitable for:**
- Sheep and goats
 - Wolf deterrent and wild boar repellent
- Bottom mesh size:**
- 15 cm high and 15 cm wide
- Advantages:**
- Extra high special net for wolf defence with 145 cm height
 - High stability due to reinforced top and bottom polywires
- Scope of delivery:**
- 1 x herding net wolf deterrent netting horinetz super complete, 145 cm high, 50 m long
 - 15 x plastic posts with double prongs
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
- Accessories:**
- Replacement post with double prong Ø 19 mm, 145 cm high (125H14993)



Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H14967	145 cm	50 m	Double prong	15 / plastic	black	●●	11	10	0.81 Ω / m	1	4 014803 149671



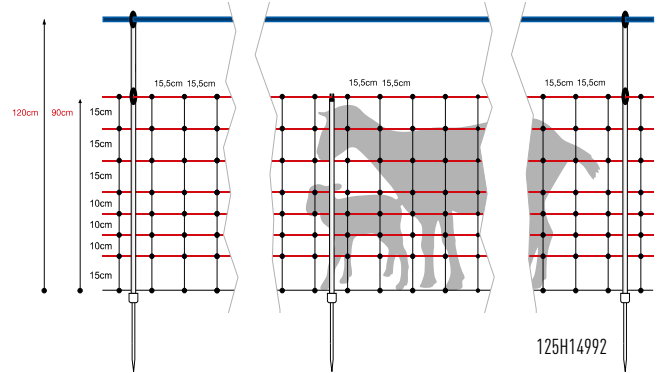
HORIZONT FENCE | Netting | Wolf deterrent netting

Horinetz super plus Wolf deterrent netting

- Suitable for:**
- Sheep and goats
 - Wolf deterrent and wild boar repellent
- Bottom mesh size:**
- 15 cm high and 15.5 cm wide
- Advantages:**
- Recommended by the Saxon Sheep and Goat Breeding Association
 - Increased jump height through additional 20 mm tape at 120 cm height
 - Quick and easy assembly
 - High energy due to accompanying earth conductor
- Scope of delivery:**
- 1 x herding net wolf deterrent netting horinetz super plus complete, 50 m long
 - 15 x plastic posts with single or double prong
 - 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
- Accessories:**
- Replacement post with double prong Ø 13 mm, 90 cm high (125H15022-2, 15)
 - 20 mm tape (125H17111)
 - Earth stake for guying and earthing (125H15017-1)
 - Tape connecting cable (125H10447)



A wolf deterrent 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.	Netting height	Netting Length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H14925	90 / 120 cm	50 m	Double prong	15 / plastic	white	Yellow/Black	8	7	1.15 Ω / m	1	4 0 14803 149251

Anti-jump protection through additional tape

- Netting increased to 120 cm through 20 mm tape
- The movement of the tape irritates the wolf; it cannot calculate the jump

Posts with double prongs

- Posts are made of UV-resistant plastic
- Double prongs ensure secure stability even in loose soil or in windy conditions

High stability

- Top and ground polywires reinforced by more than 60 %

High energy due to accompanying earth conductor

Good visibility

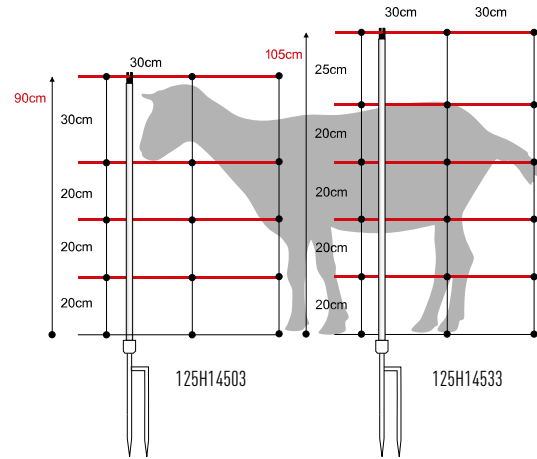
- Yellow polywires are easier to see in twilight or darkness

Turbomax® high energy
Wolf deterrent netting

- Suitable for:**
- Sheep and goats
 - Wolf deterrent and wild boar repellent
- 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 with black outside edges for more contrast to the surroundings and for better visibility
- Scope of delivery:**
- 1 x herding net turbomax high energy complete, 50 m long
 - 14 x plastic posts with double prongs
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
- Accessories:**
- Replacement post with double prong Ø 13 mm, 90 cm high (125H15022-2) or 105 cm high (125H15026-2)



The particularly high herding security is recommended by the Baden-Württemberg State Sheep Breeding Association. This sheep and goat netting was developed together with horizont.



Connecting clip



Head insulator



Ground stake

Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H14503	90 cm	50 m	Double prong	14 / plastic	white	○●	5	4	0.33 Ω / m	1	4 014803 145031

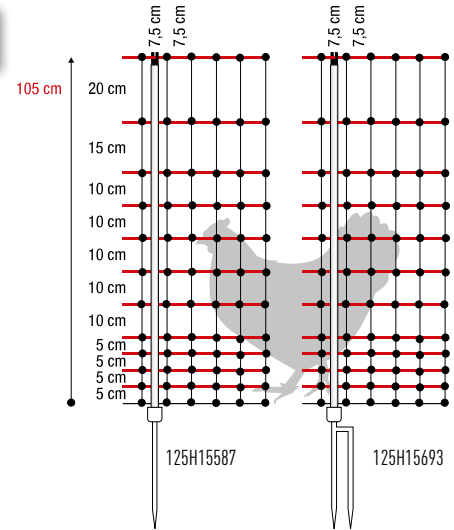


HORIZONT FENCE | Netting | Poultry netting

Ranger® Poultry netting 105 cm



- Suitable for:**
- Chickens, turkeys, geese and ducks
- Bottom mesh size:**
- 5 cm high and 7.5 cm wide
- Advantages:**
- High conductivity for optimal herding security
 - High quality posts for high stability
 - Materials are rust-free and therefore extremely resistant
- Scope of delivery:**
- 1 x poultry netting complete, 105 cm high, 50 m long
 - 15 x posts with single or double prongs
 - 1 x repair kit, 1 x warning sign and 2 x ground stakes
- Accessories:**
- Replacement post with double prong Ø 13 mm, 105 cm high (125H15026-2)

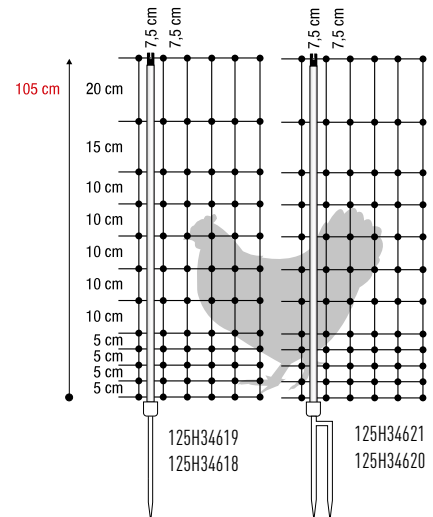


Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H15587	105 cm	50 m	Single prong	15 / plastic	white	●●	12	11	0.74 Ω / m	1	4 014803 155870

Ranger® security Poultry netting (not electrifiable)



- Suitable for:**
- Chickens, turkeys, geese and ducks
- Bottom mesh size:**
- 5 cm high and 7.5 cm wide
- Advantages:**
- 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 prongs
 - Repair kit, 2 x ground stakes
- Accessories:**
- Replacement post with double prong Ø 13 mm, 110 cm high (125H14662)



Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H34619	105 cm	25 m	Single prong	9 / plastic	green	●	12	not electrifiable		1	4 014803 346193
125H34618	105 cm	50 m	Single prong	15 / plastic	green	●	12	not electrifiable		1	4 014803 346186



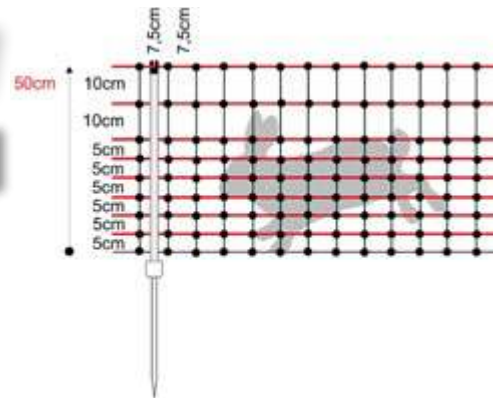
EVEN MORE FOR FEATHERED FRIENDS



Our animal husbandry catalogue offers the right range of products for poultry farming. Let our service team assist you.

Farmer® extra | small animal netting

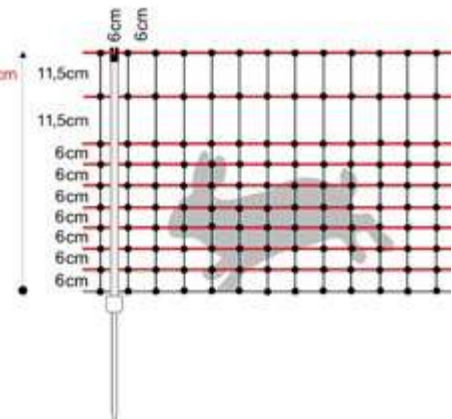
- Suitable for:** • Chicks, small hares and rabbits
- Bottom mesh size:** • 5 cm high and 7.5 cm wide
- Advantages:** • High quality posts for high stability
• horizont quality with high-quality stainless steel conductors
- Scope of delivery:** • 1 x herding net complete, 50 cm high, 50 m long
• 15 x posts with single prongs
• Connecting accessories
- Accessories:** • Replacement post with single prong with Ø 13 mm, 50 cm high (125H15028)



Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H15576	50 cm	50 m	Single prong	15 / plastic	white	●●●●●	9	8	1.01 Ω / m	1	4 014803 155764

Farmer® plus | small animal netting

- Suitable for:** • Chicks, small hares and rabbits
- Bottom mesh size:** • 6 cm high and 6 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, 65 cm high, 50 m long
• 15 x posts with single prongs
• Connecting accessories
- Accessories:** • Replacement post with single prong with Ø 13 mm, 50 cm high (125H15223)



Art. No.	Netting height	Netting length	Prong	Number of posts/ material	Colour of posts	Colour of netting	Horizontal polywires	Current-carrying polywires	Resistance	Unit	EAN
125H14895	65 cm	50 m	Single prong	15 / plastic	green	●●●●●●	10	9	0.90 Ω / m	1	4 014803 148957

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 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 security.

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 in ohms / m. The lower this value, the higher the quality of the conductor material. High resistance values cannot be compensated even with powerful energisers!



The **BREAKING LOAD** is given in kilograms and indicates the maximum load (in kg) or tensile force the conductor material can withstand.



The **NUMBER AND THICKNESS** of the current-carrying conductors provides information about its conductivity. The more conductors and the thicker the conductors are in the conductor material, the more current is carried.

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.

SEVERAL LEVELS IN THE FENCE:

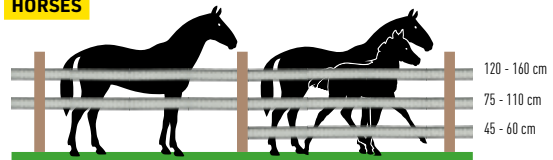
When using several levels in the fence, the following should be noted:

- The total resistance of the fence system decreases with each additional level (conductor material) - but it is always smaller than the lowest resistance value of a level
- With fencing, the same conductor material should always be used on the different levels, as this guarantees optimum herding security - 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

RECOMMENDATIONS FOR DIFFERENT TYPES OF ANIMALS:

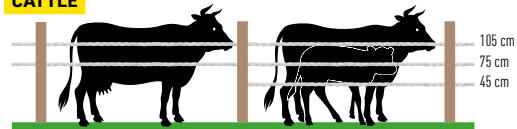
For different types of animals, horizon recommends different conductor materials and a certain number of levels when building fences:

HORSES



horizon recommends fencing horses with 40 mm wide electric fence tape; horses are fleeing animals, and the wider the electric fence tape, the better it is perceived by the animals. This considerably reduces the risk of injury and escape of your animals!

CATTLE



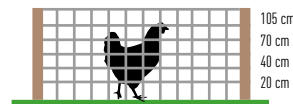
horizon recommends fencing cattle with electric fence rope or polywire.

SHEEP AND GOATS



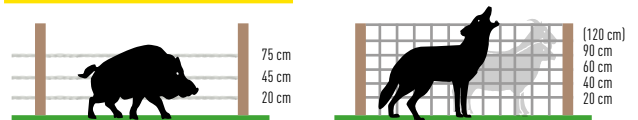
Sheep and goats can be fenced in locally with electric fence polywire. Alternatively, electric nets are also ideal for herding such animals.

POULTRY

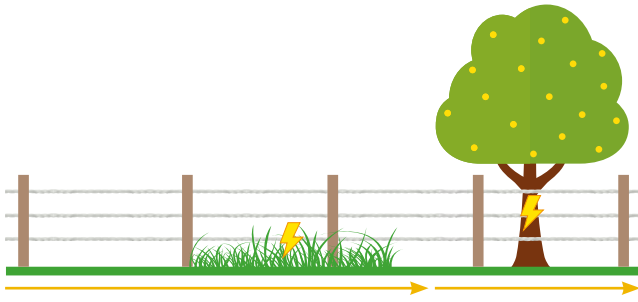


horizon recommends fencing in poultry with electric nets.

WILDLIFE OR WOLF DETERRENT

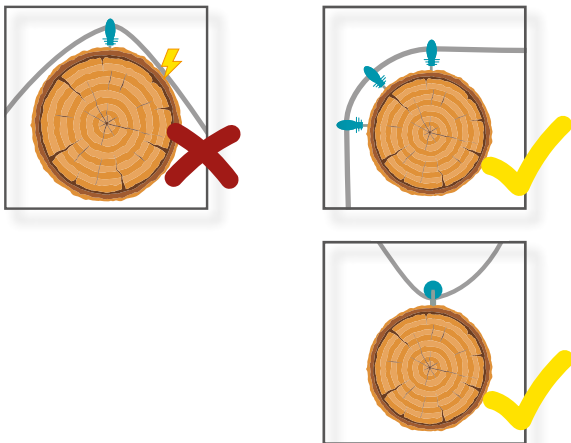


horizon recommends securing corn fields or forest areas against wild boars with electric fence tape or rope. For wolf deterrent and for the protection of sheep or goats, horizon recommends the use of special wolf deterrent netting.



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. The fence gains stability.



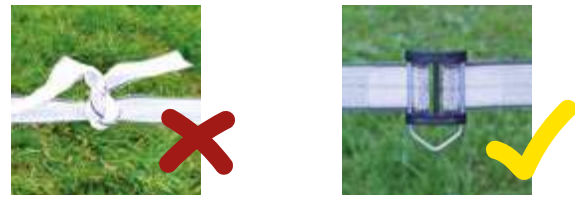
Conductor material attached to wood posts, often resulting from incorrectly attached insulators, can also influence the current flow. The conductor material should always be run in appropriate insulators.

3. TIPS FOR HANDLING CONDUCTOR MATERIAL

If the conductor material is torn, use suitable accessories such as connectors to restore the herding security. If the conductor material is sagging and needs to be re-tensioned, use the appropriate tensioners to keep it properly at height again. 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. A recommended method for easy and practical storage of the conductor material is to wind it onto reels. This allows for direct storage and the use of reels also makes it easier to reassemble the fence in the spring.

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.



In areas particularly exposed to the wind, electric fence tapes should be twisted when tensioned, as this reduces the surface area exposed to gusts of wind and increases the stability of your fence.

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 Ω / 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.



IMPORTANT ICONS FOR THIS CHAPTER:

Product describing icons:

These icons describe earthing & control features.



Polypropylene



Galvanized



Aluminium



Length

Cross selling icons:

These icons refer to products that are additionally required and are compatible with the selected product.



Tape



Rope



Polywire



Wire



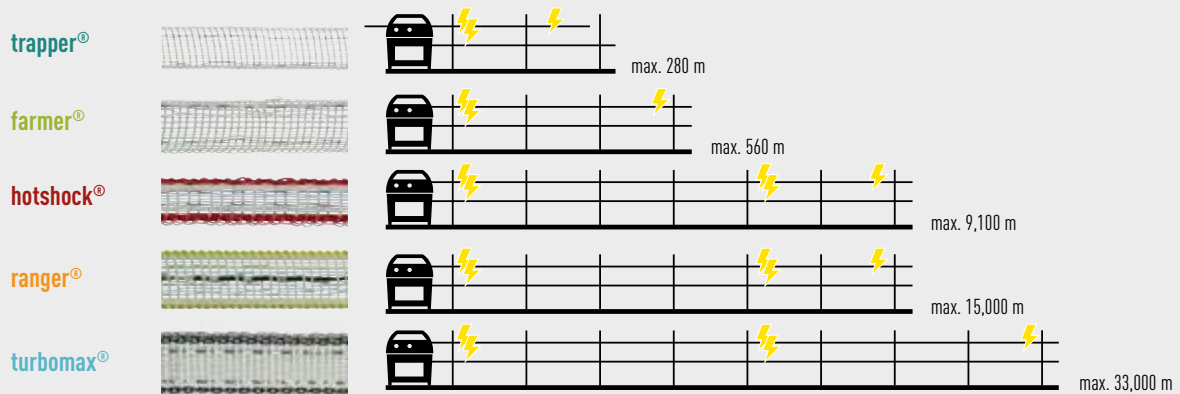
Gate handle



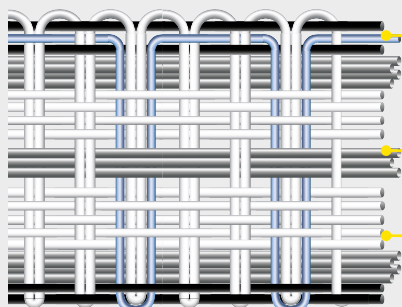
TIP:
Your fence system should have stable corner and intermediate posts which simultaneously tension the electric fence tape and keep it at height. This keeps it straight and parallel to each other.

ELECTRIC FENCE TAPES

horizont electric fence tapes are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate electric fence tape for every individual application. When choosing the conductor material, pay attention to width and colour for optimum herding security.



Maximum fence lengths: The length specifications show the maximum possible fence length of a level without vegetation with an appropriately strong energiser.



Cross-connections ensure the consistent flow of current and optimum current conduction.

Bundled **TLDmax** - conductors ensure highest conductivity and high current flow.

Polyethylene threads ensure maximum durability and high breaking loads.

turbomax® electric fence tapes

*Fence length: Specification for simple fences with one conductor and without vegetation. Depending on the amount of vegetation, this will reduce the specified fence lengths. If using several fence conductors on several levels, longer fences are possible.

Electric fence tape trapper®

- Suitable for:**
- Short fences and strip grazing
- Advantage:**
- Monofilaments with high UV stability
 - Stainless steel conductor for good conductivity and highest bending strength
- Colour:**
- White: for more contrast to the surroundings and increased visibility in twilight and darkness



Art. No.	Designation	Width	Reel	Max. fence length*	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	EAN
125H17280	trapper® T10 - W	10 mm	250 m	210 m	~ 20 kg	3	0,15 mm	14,40 Ω/m	○	1	4 014803 459718

Electric 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 increased visibility in twilight and darkness
 - Yellow/orange: good visibility
 - Green: blends in well with nature



Art. No.	Designation	Width	Reel	Max. fence length*	Breaking load	Number of conductors	Ø Stainless steel conductor	Resistance	Colour	Unit	EAN
125H17451	farmer® T10 - W	10 mm	200 m	210 m	~ 40 kg	3	0,15 mm	14,40 Ω/m	○	1	4 014803 174512
125H17287	farmer® T10 - O	10 mm	200 m	210 m	~ 40 kg	3	0,15 mm	14,40 Ω/m	●●	1	4 014803 172877
125H17475	farmer® T20 - W	20 mm	200 m	280 m	~ 90 kg	4	0,15 mm	10,80 Ω/m	○	1	4 014803 174758
125H17272	farmer® T20 - W	20 mm	2 x 200 m	280 m	~ 90 kg	4	0,15 mm	10,80 Ω/m	○	1	4 014803 172723
125H17528	farmer® T20 - O	20 mm	200 m	280 m	~ 90 kg	4	0,15 mm	10,80 Ω/m	●●	1	4 014803 175281
125H17458	farmer® T40 - W	40 mm	200 m	560 m	~ 120 kg	8	0,15 mm	5,40 Ω/m	○	1	4 014803 174581
125H17458008	farmer® T40 - G	40 mm	200 m	560 m	~ 120 kg	8	0,15 mm	5,40 Ω/m	●	1	4 014803 428813

Electric fence tape turbomax®

- Suitable for:**
- Long to very long fences
- Advantage:**
- High conductivity ensures high herding security
 - Conductors of **TLDmax** 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
- Colour:**
- White: with black outer edges: for more contrast to the surroundings and increased visibility in twilight and darkness



Art. No.	Designation	Width	Reel	Max. fence length*	Breaking load	Number of conductors	TLDmax	Ø Stainless steel conductor	Resistance	Colour	Unit	EAN
125H17110	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	●○	1	4 014803 171108
125H17111	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	●○	1	4 014803 171115
125H17112	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	●○	1	4 014803 171122

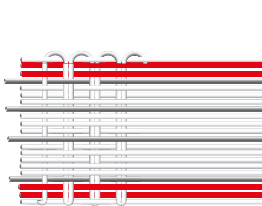
HORIZONT FENCE | Conductor material | Electric fence tape



Electric fence tape hotshock®

- Suitable for:**
- Medium fence lengths
- Advantage:**
- Greater durability due to additional corrosion protection
 - Reinforced conductor material with higher breaking load
 - Specifically for strong energisers (wildlife deterrent)
- Colour:**
- White/blue: good visibility for animal and human

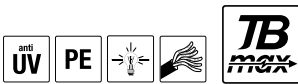
Art. No.	Designation	Width	Reel	Max. fence length*	Breaking load	Number of conductors	TBmax	Resistance	Colour	Unit	EAN
125H17211	hotshock® T12	12 mm	200 m	8,600 m	~ 100 kg	6	0,30 mm	0.36 Ω/m		1	4 014803 467423



Electric fence tape hotshock®

For all HOTSHOCK T12 tapes, the TBmax conductors ensure high conductivity. These HOTSHOCK energisers are specially designed to withstand high power, ideal for keeping sheep and fighting game and wild animals.

The wires are made of polyethylene, which gives them increased protection against UV rays, allowing them to last longer and have a high breaking strength.



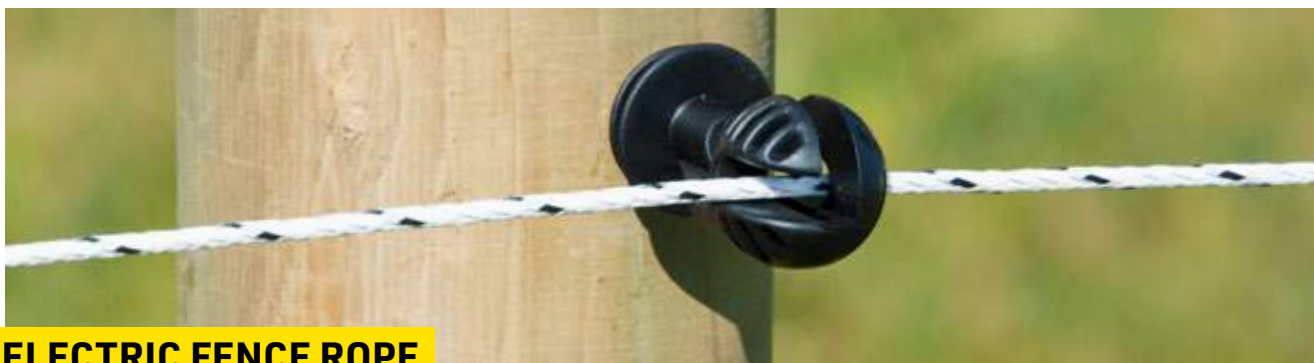
Art. No.	Designation	Width	Number of conductors	TBmax	Resistance	max.	Max. fence length*	EAN
125H17202	hotshock® T12	250 m	4	0,30 mm	0,533 Ω/m	~ 100 kg	5 600 m	4 014803 172020



Electric fence tape ranger®

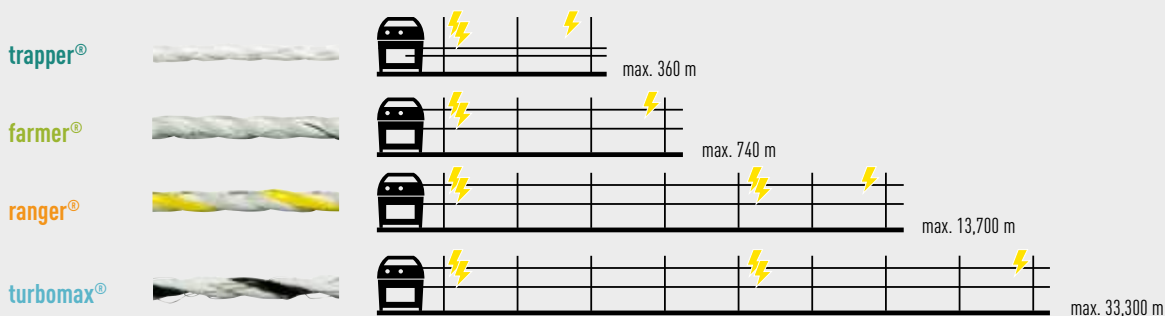
- Suitable for:**
- Medium to long fences
- Advantage:**
- High conductivity
 - Polyethylene monofilaments for high tensile strength
 - Bundled TLDmax - conductors for highest current flow
 - High tensile loads can be absorbed due to particularly high and reinforced outside edges (only for 125H17121, 125H17122, 125H17124, 125H17125)
- Colour:**
- White with yellow outside edges: For more contrast to the surroundings and increased 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 with stable wooden fence situations

Art. No.	Designation	Width	Reel	Max. fence length*	Breaking load	Number of conductors	TLDmax	Resistance	Colour	Unit	EAN
125H17116	ranger® FLUO T12	12 mm	200 m	9,100 m	~ 60 kg	4	0.22 mm	0.33 Ω/m		1	4 014803 171160
125H17113	ranger® T12 - W	12 mm	200 m	9,100 m	~ 60 kg	4	0.22 mm	0.33 Ω/m		1	4 014803 171139
125H17114	ranger® T20 - W	20 mm	200 m	11,100 m	~ 120 kg	5	0.22 mm	0.27 Ω/m		1	4 014803 171146
125H17115	ranger® T40 - W	40 mm	200 m	15,000 m	~ 180 kg	8	0.20 mm	0.20 Ω/m		1	4 014803 171153
125H17125	ranger® T40 - B-E	40 mm	200 m	15,000 m	~ 260 kg	8	0.20 mm	0.20 Ω/m		1	4 014803 171252

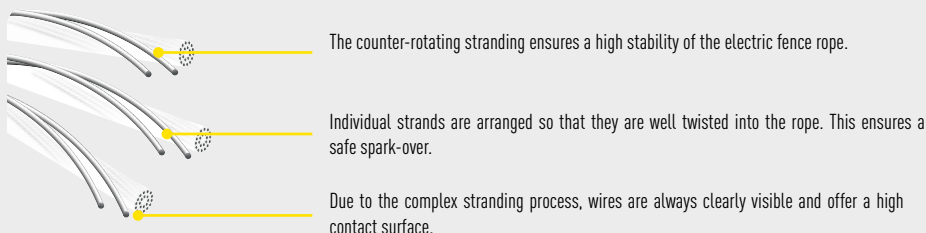


ELECTRIC FENCE ROPE

horizont electric fence ropes are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate electric fence rope for every individual application. When choosing the conductor material, observe the diameter and colour for optimum herding security.



Maximum fence lengths: The length specifications show the maximum possible fence length of a level without vegetation with an appropriately strong energiser.



Electric fence rope farmer®

- Suitable for:** • Short fences and strip grazing with little vegetation
- Advantage:** • 125H462560: The elasticity of the horizont fence rope makes it ideal for use on pasture gates in combination with gate handles
- Colour:** • White: for more contrast to the surroundings and increased 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	EAN
125H153372	farmer® R6	6 mm	200 m	740 m	~ 250 kg	6	0,20 mm	4,05 Ω/m	○	1	4 014803 438034
125H153372400	farmer® R6	6 mm	400 m	740 m	~ 250 kg	6	0,20 mm	4,05 Ω/m	○	1	4 014803 438041
125H462560	farmer® stretch W3	8 mm	50 m	370 m	~ 100 kg	3	0,20 mm	8,10 Ω/m	◐	1	3 485630 025604

*Fence length: Specification for simple fences with one conductor and without vegetation. Depending on the amount of vegetation, this will reduce the specified fence lengths. If using several fence conductors on several levels, longer fences are possible.

HORIZONT FENCE | Conductor material | Electric fence rope



Electric fence rope ranger®

- Suitable for:**
- Medium to long fences
- Advantage:**
- High number of wires ensures high current flow
 - Polyethylene threads with high tensile strength
- Colour:**
- White: for more contrast to the surroundings and increased visibility in twilight and darkness
 - Green: blends in well with nature

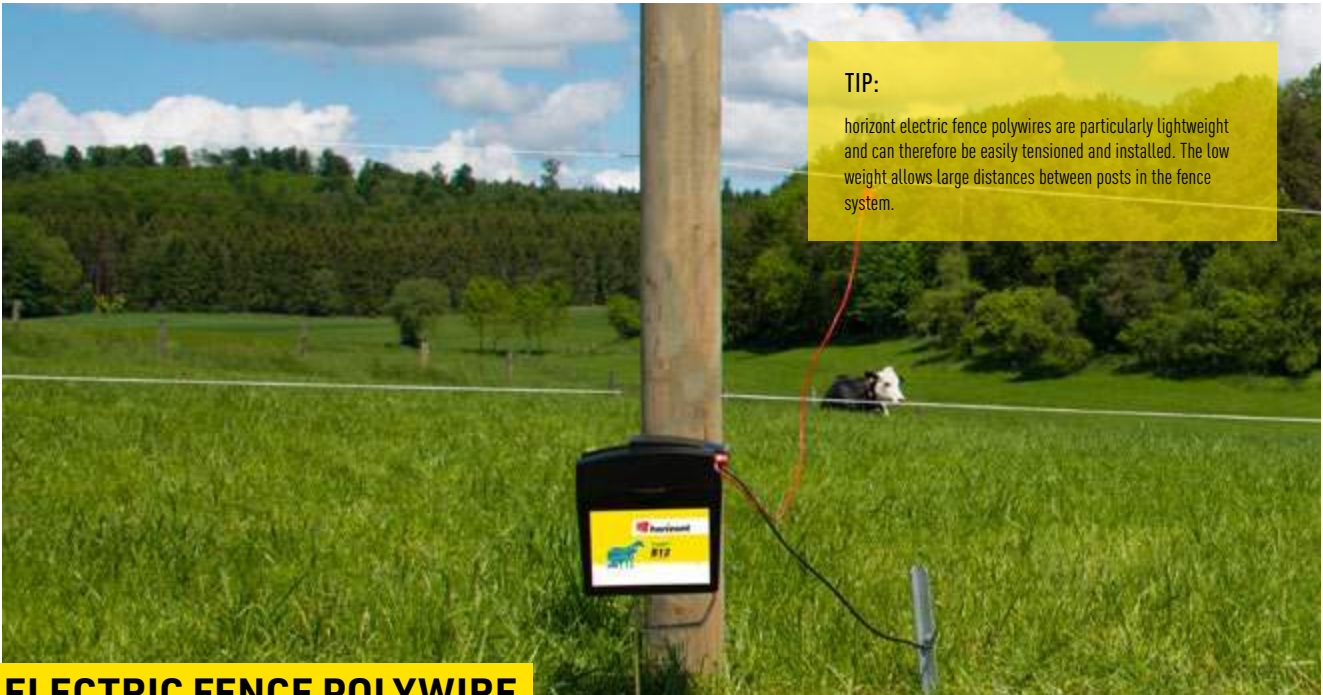
Art. No.	Designation	Diameter	Reel	Max. fence length*	Breaking load	Number of conductors	TLDmax	Resistance	Colour	Unit	EAN
125H17182	ranger® R6	6 mm	200 m	13,700 m	~ 250 kg	6	0,22 mm	0.22 Ω/m	○●	1	4 014803 171825
125H17182400	ranger® R6	6 mm	400 m	13,700 m	~ 250 kg	6	0,22 mm	0.22 Ω/m	○●	1	4 014803 438010



Electric fence rope turbomax®

- Suitable for:**
- Long to very long fences with dense vegetation
- Advantage:**
- The **TLDmax** 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 increased visibility in twilight and darkness

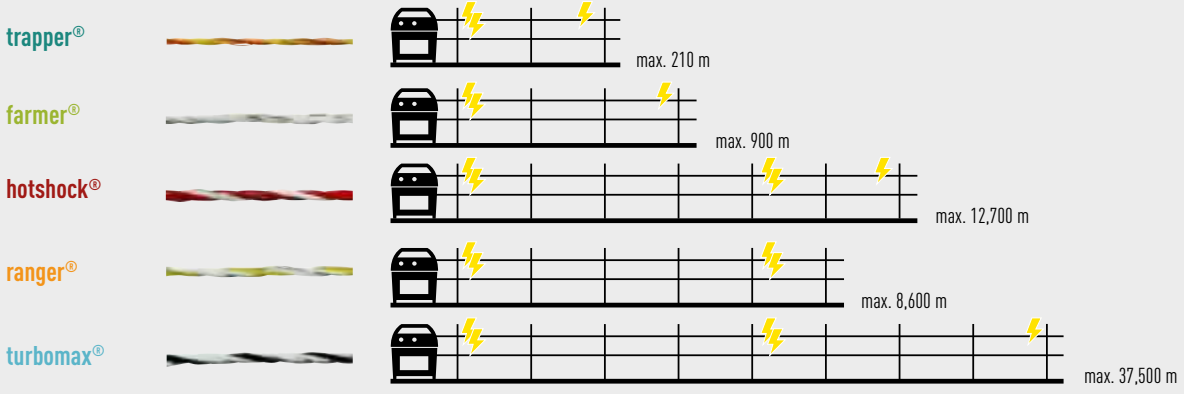
Art. No.	Designation	Diameter	Reel	Max. fence length*	Breaking load	Number of conductors	TLDmax	Resistance	Colour	Unit	EAN
125H17180	turbomax® R6-PE	6 mm	200 m	17,700 m	~ 500 kg	6	0,25 mm	0.17 Ω/m	○●	1	4 014803 171801
125H17180400	turbomax® R6-PE	6 mm	400 m	17,700 m	~ 500 kg	6	0,25 mm	0.17 Ω/m	○●	1	4 014803 431998
125H17180800	turbomax® R6-PE	6 mm	800 m	17,000 m	~ 500 kg	6	0,25 mm	0.17 Ω/m	○●	1	4 014803 438003



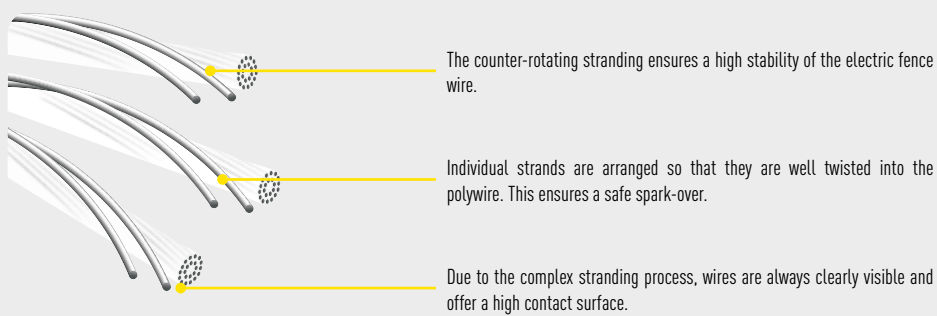
TIP:
 horizont electric fence polywires are particularly lightweight and can therefore be easily tensioned and installed. The low weight allows large distances between posts in the fence system.

ELECTRIC FENCE POLYWIRE

horizont electric fence polywires are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate electric fence polywire for every individual application. All horizont electric 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 a correspondingly powerful energiser.



*Fence length: Specification for simple fences with one conductor and without vegetation. Depending on the amount of vegetation, this will reduce the specified fence lengths. If using several fence conductors on several levels, longer fences are possible.

HORIZONT FENCE | Conductor material | Electric fence polywire

Electric fence polywire trapper®



- Suitable for:** - Short fences and strip grazing
Advantage: - Simple quality optimal for the hobby sector
Colour: - Yellow/ orange: good visibility for animal and human

Art. No.	Designation	Reel	Max. fence length*	Breaking load	Number of conductors	∅ Stainless steel conductor	Resistance	Colour	Unit	EAN
125H15567	trapper® W3	250 m	210 m	~ 30 kg	3	0,15 mm	14,4 Ω/m	●●	1	4 014803 155672
125H15849	trapper® W3	500 m	210 m	~ 30 kg	3	0,15 mm	14,4 Ω/m	●●	1	4 014803 158499

Electric fence polywire farmer®



- Suitable for:** - Short to medium fences
Advantage: - Average breaking loads
 - Double the amount of monofilaments compared to a standard quality
Colour: - White: for more contrast to the surroundings and increased 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	∅ Stainless steel conductor	Resistance	Colour	Unit	EAN
125H15347	farmer® W9 - W	250 m	900 m	~ 70 kg	9	0,18 mm	3,33 Ω/m	○	1	4 014803 153470
125H15277	farmer® W9 - W	400 m	900 m	~ 70 kg	9	0,18 mm	3,33 Ω/m	○	1	4 014803 152770
125H15282	farmer® W6 - W	250 m	600 m	~ 60 kg	6	0,18 mm	4,98 Ω/m	○	1	4 014803 152824
125H15283	farmer® W6 - W	400 m	600 m	~ 60 kg	6	0,18 mm	4,98 Ω/m	○	1	4 014803 152831
125H15345	farmer® W3 - O	250 m	300 m	~ 50 kg	3	0,18 mm	9,99 Ω/m	●●	1	4 014803 153456

Electric fence polywire hotshock®



The HOTSHOCK W6 400 m HORIZONT wire is very resistant. It ensures a better conductivity thanks to the use of TBmax conductors.

The wires are made of polyethylene, which gives them a reinforced protection against UV rays, allowing them a longer life and a high resistance to breakage.

They are specially designed to withstand the high power of the HOTSHOCK energizers, to keep sheep and fight against game and various wild animals.

3-year warranty on UV resistance.

Art. No.	Designation	Reel	Number of conductors	Conductor	∅ Stainless steel conductor	Line resistance	Breaking load: approx.	Colour	Unit	EAN
125H17208	hotshock® W6	400 m	6	∅ 0.30 m	0.18 mm	3,356 Ω/m	100 kg	○●	8	4 014803 172082
125H17209	hotshock® W9	400 m	9	∅ 0.30 m	0.18 mm	3,33 Ω/m	120 kg	○●	8	4 014803 172099

Electric fence polywire | ranger®

Suitable for:
Advantage:
Colour:

- Medium to long fences
- High conductivity, high tensile strengths and safe and high current flow
- White/yellow: for more contrast to the surroundings and increased 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	TLDmax	Resistance	Colour	Unit	EAN
125H17143	ranger® W3 - 0	200 m	8,6 km	~ 160 kg	3	0,25 mm	0,35 Ω/m	●●●	1	4 014803 171436
125H17143400	ranger® W3 - 0	400 m	8,6 km	~ 160 kg	3	0,25 mm	0,35 Ω/m	●●●	1	4 014803 437952
125H171431000	ranger® W3 - 0	1000 m	8,6 km	~ 160 kg	3	0,25 mm	0,35 Ω/m	●●●	1	4 014803 437969
125H17144	ranger® W3 - W	200 m	8,6 km	~ 160 kg	3	0,25 mm	0,35 Ω/m	○●●	1	4 014803 171443
125H17144400	ranger® W3 - W	400 m	8,6 km	~ 160 kg	3	0,25 mm	0,35 Ω/m	○●●	1	4 014803 437976
125H171441000	ranger® W3 - W	1000 m	8,6 km	~ 160 kg	3	0,25 mm	0,35 Ω/m	○●●	1	4 014803 437983

Electric fence polywire | turbomax®

Suitable for:
Advantage:
Colour:

- Long to very long fences with dense vegetation
- High conductivity and safe and high current flow
- White/yellow: for more contrast to the surroundings and increased visibility in twilight and darkness



Art. No.	Designation	Reel	Max. fence length*	Breaking load	Number of conductors	TLDmax	Resistance	Colour	Unit	EAN
125H17140	turbomax® W6	200 m	25 km	~ 180 kg	6	0,30 mm	0,12 Ω/m	○●●●	1	4 014803 171405
125H17140400	turbomax® W6	400 m	25 km	~ 180 kg	6	0,30 mm	0,12 Ω/m	○●●●	1	4 014803 437891
125H171401000	turbomax® W6	1000 m	25 km	~ 180 kg	6	0,30 mm	0,12 Ω/m	○●●●	1	4 014803 437907
125H17141	turbomax® W9	200 m	27,3 km	~ 200 kg	9	0,25 mm	0,11 Ω/m	○●●●●	1	4 014803 171412
125H17141400	turbomax® W9	400 m	27,3 km	~ 200 kg	9	0,25 mm	0,11 Ω/m	○●●●●	1	4 014803 437914
125H171411000	turbomax® W9	1000 m	27,3 km	~ 200 kg	9	0,25 mm	0,11 Ω/m	○●●●●	1	4 014803 437921
125H17142	turbomax® W12	200 m	37,5 km	~ 220 kg	12	0,25 mm	0,08 Ω/m	○●●●●●	1	4 014803 171429
125H17142400	turbomax® W12	400 m	37,5 km	~ 220 kg	12	0,25 mm	0,08 Ω/m	○●●●●●	1	4 014803 437938
125H171421000	turbomax® W12	1000 m	37,5 km	~ 220 kg	12	0,25 mm	0,08 Ω/m	○●●●●●	1	4 014803 437945

*Fence length: Specification for simple fences with one conductor and without vegetation. Depending on the amount of vegetation, this will reduce the specified fence lengths. If using several fence conductors on several levels, longer fences are possible.

Electric fence polywire turbomax® braided wire



Suitable for:

- Long to very long fences with dense vegetation
- Mobile fences that are frequently assembled 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:

- White/black: for more contrast to the surroundings and increased visibility in twilight and darkness

Art. No.	Designation	Ø	Reel	Max. fence length*	Breaking load	Number of conductors	Ø Stainless steel conductor	Ø Copper conductor	Resistance	Colour	Unit	EAN
125H145121	turbomax® braided wire 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	☉	1	4 014803 467430
125H145121400	turbomax® braided wire 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	☉	1	4 014803 467447





TIP:

Electric fence wires are particularly suitable for electric permanent fences installations. horizont electric fence wires are characterized above all by their high conductivity and durability.

ELECTRIC FENCE WIRE

horizont electric fence wires are available in different series, which are characterized by the maximum fence length. horizont offers the appropriate electric fence wire for every individual application. For optimum herding security, observe the diameter and processing (solid or coiled wire) when choosing the conductor material.

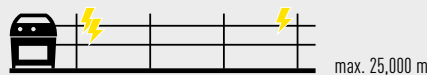
Original control wire



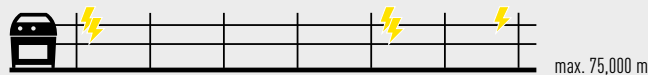
Steel wire



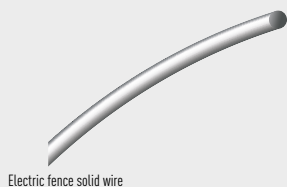
Stranded wire



Permanent fencing GALVADUR



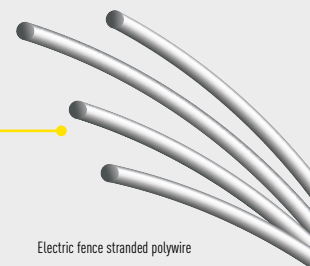
Maximum fence lengths: The length specifications show the maximum possible fence length of a level without vegetation with a correspondingly powerful energiser.



Electric fence solid wire

horizont offers electric fence solid wires with different diameters and highest conductivity. They are very easy to shape, are corrosion resistant, easy to process, enormously resilient and suitable for long fences.

The electric fence polywire consists of many different individual, e.g. galvanized wire strands. It is easy to process, is suitable for long fences and is particularly tear-resistant.



Electric fence stranded polywire

*Fence length: Specification for simple fences with one conductor and without vegetation. Depending on the amount of vegetation, this will reduce the specified fence lengths. If using several fence conductors on several levels, longer fences are possible.

HORIZONT FENCE | Conductor material | Electric fence wire

14134



Electric fence wire | Stranded wire

- Suitable for:**
- Medium fence lengths
- Advantage:**
- 7 wires wound into one conductor
 - Wire is particularly flexible

Art. No.	Designation	Diameter	Reel	Max. fence length*	Breaking load	Number of conductors	Resistance	Material	Unit	EAN
125H14134400	Stranded wire	1.5 mm	400 m	25,0 km	~ 200 kg	7	0,12 Ω/m	galvanized	1	4 014803 438102

125H15904



Electric fence wire | Permanent fencing GALVADUR

- Suitable for:**
- Long fences
- Advantage:**
- The utilised steel wire is thickly galvanized 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

Art. No.	Designation	Diameter	Reel	Max. fence length*	Breaking load	Number of conductors	Resistance	Material	Unit	EAN
125H15904	GALVADUR	1,6 mm	315 m	50,0 km	~ 200 kg	1	0,06 Ω/m	galvanized	1	4 014803 159045
125H15945	GALVADUR	2,5 mm	625 m	75,0 km	~ 500 kg	1	0,04 Ω/m	galvanized	1	4 014803 159458

ACO wire

- Galvanized steel single cord.
- Conductors: galvanized braided wires with a diameter of 1.2 mm
- Length: 200 m reel
- Linear resistance: 0.9 Ohm/m
- Breaking load: approx. 150 k



125H13011400

Art. No.	Length	Unit	EAN
125H13010	200 m reel Limited stock	6	3 700393 916052
125H13011400	400 m reel Limited stock		4 014803 438355

Electric fence connectors

- Application:**
- Easy and safe to use in the electric fence tape
 - Simple re-tensioning possible
- Advantage:**
- Stable electric fence tape connector through one-piece galvanized metal brackets supported by break-proof plastic



Art. No.	Suitable for	Width	Material	Unit	EAN
125H14988	Electric fence tapes	up to 20 mm	galvanized, plastic	10	3 700393 916632
125H14987	Electric fence tapes	up to 40 mm	galvanized, plastic	6	3 700393 916625

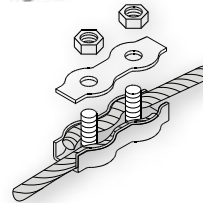


Electric fence rope/polywire connector

- Application:**
- For connection of electric fence polywires or ropes
- Advantage:**
- Large contact surface

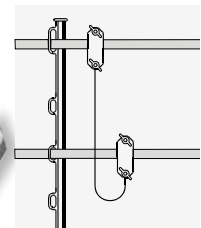


Art. No.	Suitable for	Diameter	Material	Unit	EAN
125H15063	Electric fence polywires	1-4 mm	galvanized steel	10	4 014803 405388
125H15483	Electric fence ropes	4-6 mm	galvanized steel	5	4 014803 405746



Electric fence tape connecting cable

- Application:**
- Screw-on
 - Connects overlapping tapes
 - Cable length 50 cm



Art. No.	Suitable for	Width	Material	Unit	EAN
125H10446	Electric fence tapes	up to 40 mm	Stainless steel	1	3 700393 916496



40 mm

Electric fence polywire connecting cable

- Application:**
- For the connection of electric fence polywires stretched over each other
 - Cable length 50 cm
- Advantage:**
- All high voltage cables with double insulation



Art. No.	Suitable for	Material	Unit	EAN
125H10440	Electric fence ropes and wires	galvanized steel, plastic	2	3 700393 916472



50 cm



20 mm



Zinc Coated

FE / ZN



Electric 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 (125H15962)

Art. No.	Suitable for	Diameter	Material	Unit	EAN
125H15967	Electric fence solid wires	1,4-2,2 mm	galvanized	20	3 700393 916953
125H47GRIP0001	Electric fence solid wires	2,0-3,25 mm	galvanized	20	3 700393 916960



Aluminium

FE / ZN



Electric fence rope tensioner

- Application:**
- Tensioner can be mounted directly into the fence material at any point of the fence
- Advantage:**
- Complete with locking bracket

Art. No.	Suitable for	Diameter	Material	Unit	EAN
125H15937	Electric fence ropes and wires	1-8 mm	Aluminium	2	3 700393 916922
125H15937025	Electric fence ropes and wires	1-8 mm	Aluminium	25	4 014803 413192



Polypropylen



Electric fence polywire/rope tensioner

- Application:**
- Easy to use
 - Easy re-tensioning possible any time
 - High tensioning effect

Art. No.	Suitable for	Diameter	Material	Unit	EAN
125H14991	Electric fence ropes, polywires	6-13 mm	Polypropylene	2	4 014803 149916



Zinc Coated

Stainless Steel

FE / ZN



Electric fence wire tensioner | Accessories

- Application:**
- Keeps the wire taut during temperature fluctuations

Art. No.	Suitable for	Material	Unit	EAN
125H14150	Electric fence wires	hot-dip galvanized steel	2	4 014803 141507
125H15906	Electric fence wires	hot-dip galvanized steel	2	3 700393 919534



FE / ZN



Electric fence tensioning tool | Gripple

- Application:**
- For tensioning the wire with the Gripple wire connector (125H15967, 125H47GRIP0001)
 - Up to 400 kg tension can be applied to wires
 - Regulation of the tension force through integrated tension measurement

Art. No.	Suitable for	Unit	EAN
125H15962	Electric fence tensioning tool	1	5 038006 012548



Zinc Coated

FE / ZN



Electric fence tightening tool

- Application:**
- For tightening the rope or wire in conjunction with the electric fence wire tensioner (Art. No. 125H15937)

Art. No.	Suitable for	Material	Unit	EAN
125H15936	Electric fence tightening tool	galvanized steel	1	4 014803 159366

Reel for wire

- Application:** • For winding and unwinding
- Capacity:** • Electric fence wire GALVADUR Ø 2,5 mm (125H15945): up to max. 625 m
- Brake:** • Via a screw
- Advantage:** • Incl. supporting foot
- Material:** • Galvanized steel






FE / ZN

Art. No.	Unit	EAN
125H15933	1	 4 014803 159335

Reel | MAXI ROLLER 2000 & 4000

- Application:** • For winding and unwinding
- Capacity:** • Electric fence polywire: up to max. 2000 m (125H15013) / 4000 m (125H15839)
• Electric fence tape: up to max. 750 m (125H15013) / 1500 m (125H15839)
- Guide:** • Yes
- Brake:** • Yes
- Material:** • Plastic, with conical shaft

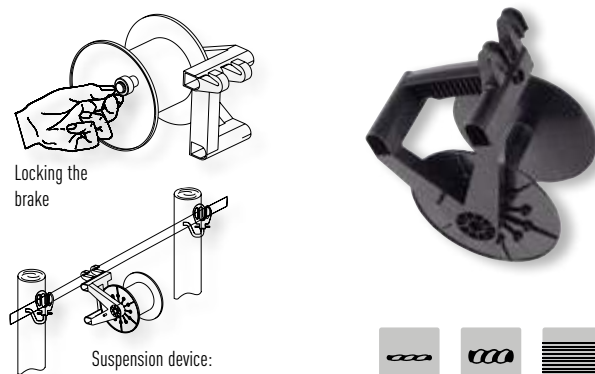


Art. No.	Designation	Unit	EAN
125H14068	Reel 4000 m	1	 4 014803 140685
125H15013	Replacement roll for MAXI ROLLER 2000	1	 4 014803 150134
125H15839	Replacement roll for MAXI ROLLER 4000	1	 4 014803 158390



Reel | SUPER ROLLER 1000

- Application:** • For winding and unwinding
- Capacity:** • Electric fence polywire: up to max. 600 m
• Electric fence tape: up to max. 200 m
- Guide:** • Yes
- Brake:** • Yes
- Material:** • Plastic, with hooking in device



Locking the brake

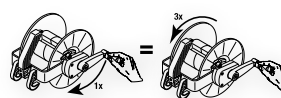
Suspension device:
Clipping the reel onto the fence material



Art. No.	Unit	EAN
125H14168	1	 4 014803 141682

Reel | TURBO ROLLER 3: 1

- Application:** • For winding and unwinding
- Capacity:** • Electric fence polywire: up to max. 800 m
• Electric fence tape: up to max. 300 m
- Guide:** • Yes
- Brake:** • Yes (trailing and parking brake)
- Material:** • Impact-resistant plastic, robust steel crank and steel frame with suspension eyes
- Advantages:** • Roll-back lock, suspension eyes



Using the brake



Art. No.	Designation	Unit	EAN
125H13041	Plastic reel	1	 4 014803 130419

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 horizontal. 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.

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 must be.

Tip: Corner, gate and intermediate posts are best anchored in the ground using an earth auger and a post rammer and should be twice as long as the fence is high.

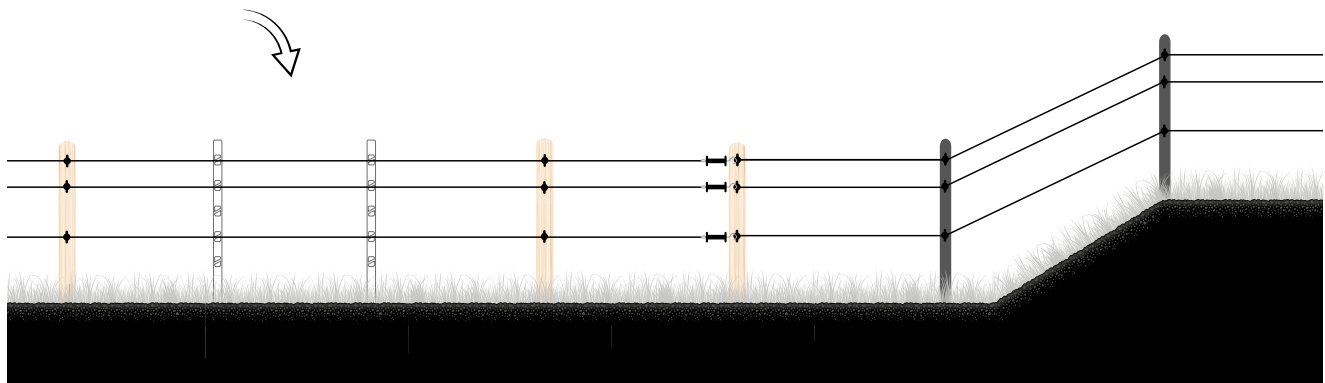
POSTS FOR CHANGING DIRECTION

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. Recycled plastic posts from horizontal are an inexpensive alternative.

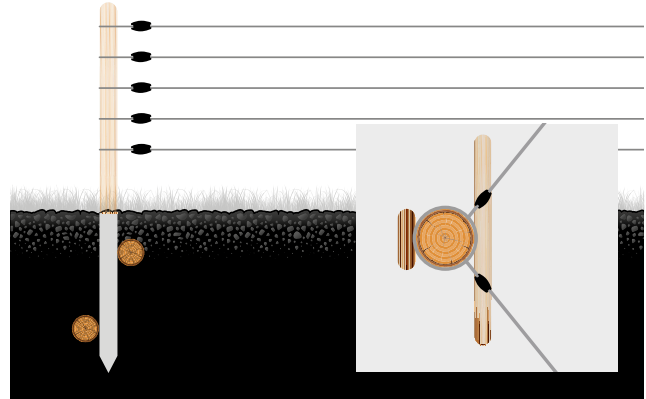
TIP: TILTING POSTS?

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.

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)



Corner situation from the side view and top view



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. 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 security 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, fibreglass or angle steel posts.

2. HOW HIGH AND HOW FAR APART MUST POSTS BE?

The height of your electric 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.

As a general rule, the wider or heavier the conductor material, the closer together the posts must be in wind-prone regions. 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 next to the wood or recycling plastic post and transferring the height of the eyes to it.



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 some of the 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. 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).

IMPORTANT ICONS FOR THIS CHAPTER:

Cross Selling Icons:

These icons refer to products that are additionally required and are compatible with the selected product.



Insulator



Tape



Polywire



Conductor material



Wire



Rope



Stirrup post

- Eyes suitable for:**
- 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
- Total height:**
- 157 cm
- Height above ground:**
- 142 cm
- Earth spike:**
- 15 cm, Ø 8 mm
- Tread:**
- Stirrup step

Art. No.	Colour	Unit	EAN
125H15108GN	green	 20	 4 014803 432384






Plastic post ranger®







- Eyes suitable for:** - 2x wide tape up to 40 mm, 3x wide tape up to 20 mm, 5x polywire up to 3.5 mm
- Total height:** - 71 cm
- Height above ground:** - 58 cm
- Earth spike:** - 13 cm, Ø 7 mm

Art. No.	Colour	Tread	Unit	EAN
125H14471	white	Single tread	 10	 4 014803 465719

- Eyes suitable for:** - 3x wide tape up to 40 mm, 5x wide tape up to 20 mm, 2x rope up to 8 mm, 10x polywire up to 3.5 mm
- Total height:** - 108 cm
- Height above ground:** - 95 cm
- Earth spike:** - 13 cm, Ø 8 mm

Art. No.	Colour	Tread	Unit	EAN
125H14472	white	Single tread	 10	 4 014803 465740
125H14472GN	green	Single tread	 10	 4 014803 465764

- Eyes suitable for:** - 4x wide tape up to 40 mm, 5x wide tape up to 20 mm, 3x rope up to 8 mm, 12x polywire up to 3.5 mm
- Total height:** - 138 cm
- Height above ground:** - 125 cm
- Earth spike:** - 13 cm, Ø 7 mm

Art. No.	Colour	Tread	Unit	EAN
125H14473	white	Single tread	 10	 4 014803 465788
125H14381-5	white	Double tread	 5	 4 014803 465894
125H14473GN	green	Simple tread	 5	 4 014803 465801

Plastic post long life

- Suitable for:** - Insulators for clamping and all types of conductor material
- Total height:** - 146 cm
- Height above ground:** - 125 cm
- Earth spike:** - 21 cm, Ø 9 mm
- Tread:** - Single tread
- Diameter:** - Ø 19 mm

Art. No.	Colour	Unit	EAN
125H15376	white	 10	 4 014803 153760

EXCLUSIVE ADVANTAGES OF THE NEW PLASTIC POSTS:



Additional lugs

back-friendly guying of the nets and ensures that the post does not twist in the ground

The post has a particularly stable tread



Additional ribs in lengthwise direction

Fits

allow posts to lie securely against each other

Numbering

for insulators on the post

140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
0 cm
-10 cm
-20 cm



2 x 40 mm



3 x 20 mm



5 x 3,5 mm



125H14471



4 x 40 mm



5 x 20 mm



2 x 8 mm



10 x 3,5 mm



125H14472 125H144726N



4 x 40 mm



5 x 20 mm



2 x 8 mm



12 x 3,5 mm



125H14473 125H144736N

PLASTIC POST LONG LIFE - A GOOD CHOICE!



- Very high durability – made of a high-quality special plastic, therefore 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

PRODUCT TIP

Insulators are particularly suitable for screwing or clamping / clipping



125H15481

125H15480

Plastic post long life

- A strong, galvanised tread frame provides good stability in hard ground and enables easy insertion into ground
- Continuous welding of the post instead of spot welding makes the earth spike stable






150 cm
140 cm
130 cm
120 cm
110 cm
100 cm
90 cm
80 cm
70 cm
60 cm
50 cm
40 cm
30 cm
20 cm
10 cm
0 cm
-10 cm
-20 cm

HORIZONTAL FENCE | Posts | Plastic posts

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 above ground:** • 55 cm
- Earth spike:** • 23 cm, Ø 9 mm
- Tread:** • Single tread

Art. No.	Colour	Unit	EAN
125H1449010	white	 10	4 014803 450180
125H144905GN	green	 5	4 014803 450210
125H1449010GN	green	 10	4 014803 450241

- 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 above ground:** • 92 cm
- Earth spike:** • 23 cm, Ø 9 mm
- Tread:** • Single tread

Art. No.	Colour	Unit	EAN
125H1449110	white	 10	4 014803 144911
125H1449110GN	green	 10	4 014803 450258

- 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 above ground:** • 122 cm
- Earth spike:** • 23 cm, Ø 9 mm
- Tread:** • Single tread

Art. No.	Colour	Unit	EAN
125H1449210	white	 10	4 014803 144928
125H144925GN	green	 5	4 014803 450234
125H1449210GN	green	 10	4 014803 450265



PLASTIC POST TURBOMAX® SMART POST - WITH STRONG ADVANTAGES:



Cross-ribbing in post provides stability, so it can be subjected to higher tensile forces and is difficult to bend

An **additionally reinforced and rounded tread** frame with fluting ensures a firm tread and prevents accidental slipping off

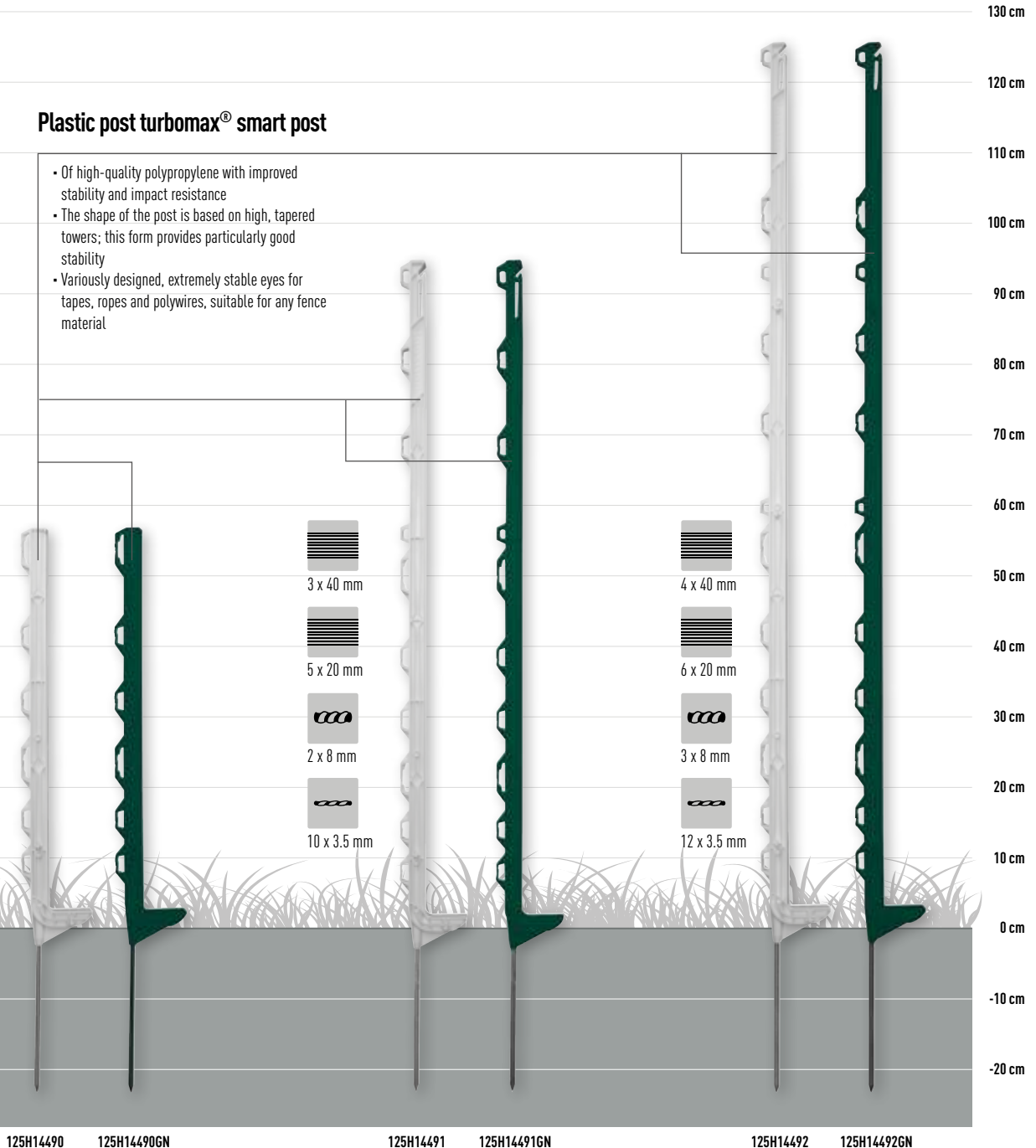
Two insulators at the post tip ensure optimum utilisation of the post length when using polywire, rope or tape up to 40 mm

The **numbering** of the eyes simplifies fence assembly, especially for large pastures

A stable, extra thick galvanized earth **spike** (9 mm diameter, 23 cm length) injected into the post guarantees high durability and ensures secure stability

Plastic post turbomax® smart post

- Of high-quality polypropylene with improved stability and impact resistance
- The shape of the post is based on high, tapered towers; this form provides particularly good stability
- Various designed, extremely stable eyes for tapes, ropes and polywires, suitable for any fence material



125H14490

125H14490GN

125H14491

125H14491GN

125H14492

125H14492GN

HORIZONT FENCE | Posts | Fibreglass and steel posts

Fibreglass post

- Suitable for:** • Insulators for wide tapes up to 20 mm, rope up to 8 mm and polywires up to 3,5 mm
- Total height:** • 124 cm
- Height above ground:** • 99 cm
- Tread:** • Single tread
- Diameter:** • Ø 12 mm

Art. No.	Colour	Unit	EAN
125H14886	yellow	10	4 014803 148865



Recycled plastic post*

- Suitable for:** • Insulators for screwing in, screwing on and nailing on
- Total height:** • 175 cm
- Height above ground:** • 120 cm
- Diameter:** • Ø 6 cm
- Please note: Sold only by the pallet!**

Art. No.	Colour	Unit	EAN
125H15593	grey	125	4 014803 155931

YOUR ADVANTAGE:

- 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

* Delivery ex works. Please request a non-binding offer for the freight costs.



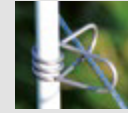
125H15593

Fibreglass post

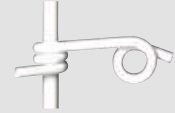
- Extremely stable and lightweight
- Particularly easy to handle in terrain
- Insulators can be individually adjusted in number and height

PRODUCT TIP

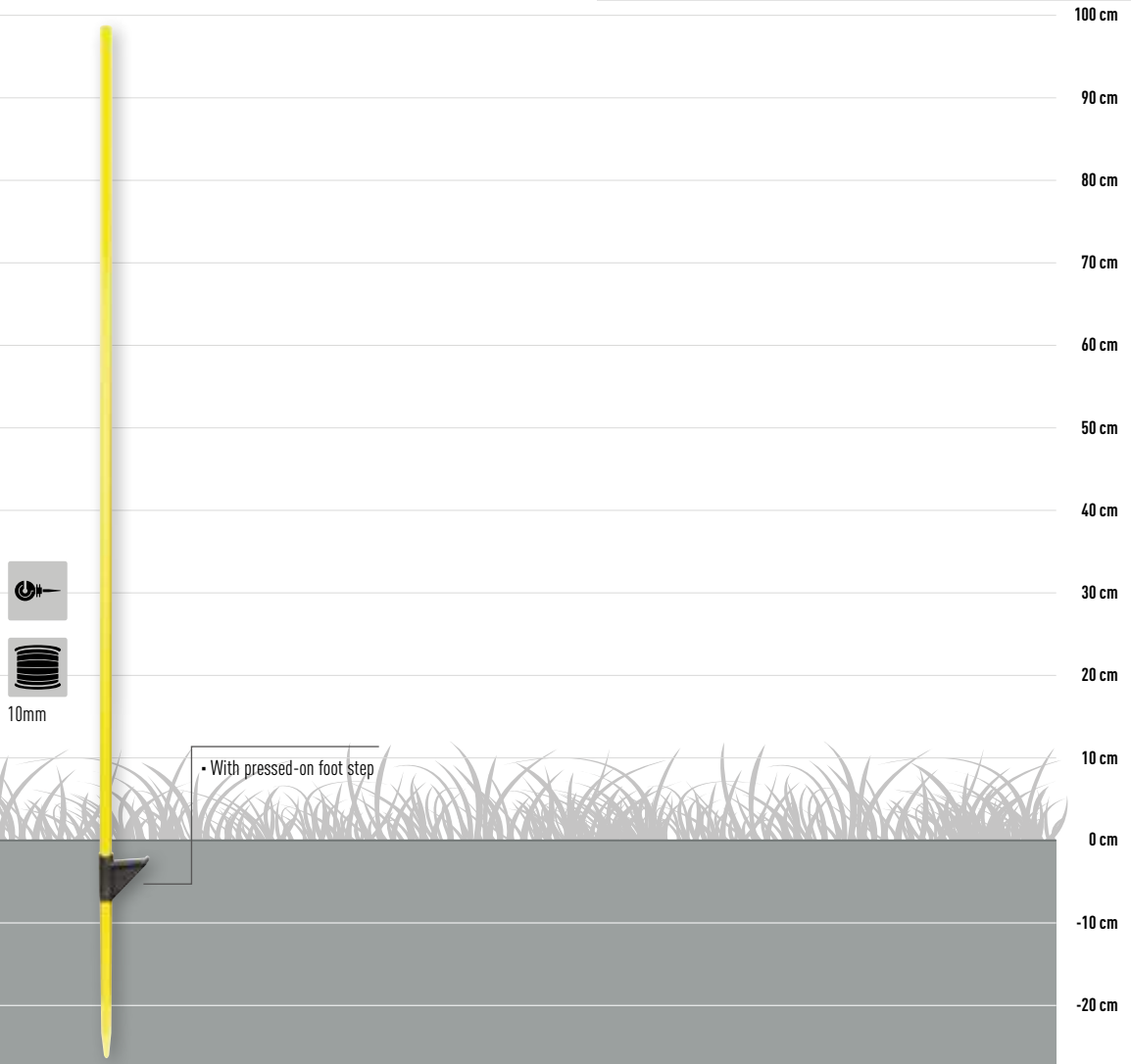
Insulators are particularly suitable for clamping / clipping



125H14904



125H17801F



125H14886



Angular steel post

- Suitable for:** • Insulators with split pin or metric thread for polywires up to 3.5 mm
- Total height:** • 120 cm
- Height above ground:** • 100 cm
- Tread:** • Double tread
- Wall thickness:** • 3 mm

Art. No.	Colour	Design	Unit	EAN
125H15877	red	4 bore holes Limited stock	 10	 4*014803*011794*

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 above ground:** • 82 cm
- Tread:** • Double tread

Art. No.	Colour	Design	Unit	EAN
125H150561	red	with metal eye	 25	 4*014803*432810*

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 above ground:** • 80 cm
- Tread:** • Double tread

Art. No.	Colour	Design	Unit	EAN
125H150551	red	with ring insulator	 25	 4*014803*432803*

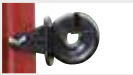
HORIZONT FENCE | Posts | Steel posts

Angular steel post

- Extremely stable and durable post
- High stability and secure anchoring in the ground due to angle profile

PRODUCT TIP

Insulators with metric thread or for clamping/clipping are particularly suitable



125H158052



125H152932

PRODUCT TIP

Additional insulators for screwing down are suitable for further levels



Oval steep post

- With insulator
- Of twist-free spring steel

• Secure stability due to pressed on tread plate on the post

• Tread frame is through-welded



140 cm

130 cm

120 cm

110 cm

100 cm

90 cm

80 cm

70 cm

60 cm

50 cm

40 cm

30 cm

20 cm

10 cm

0 cm

-10 cm

-20 cm

125H155361

125H15877

125H152541

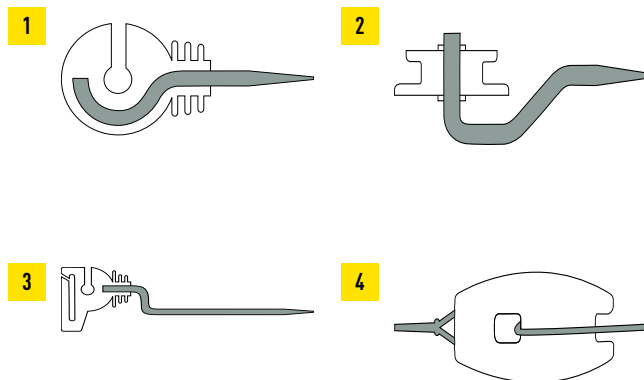
125H150561

125H150551

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. IS THERE A SPECIAL FENCING SITUATION YOU NEED TO MASTER WITH YOUR INSULATOR?

1 SECTION/ GUIDE INSULATOR

Section 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.

2 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. As a result, the fence is stable and will not collapse in strong gusts of wind, for example.

3 SPACER INSULATOR

Spacer insulators are less tightly fitted than section /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 security. 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 enables the fence to last longer. Spacer insulators are also used to protect solid wood fences, as the animals do not nibble at the wood.

4 STRAIN INSULATOR

Strain insulators are used at the start 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) or wire.



NOTE

If you want to fence in animals, attach the spacer insulators on the inside of the pasture. If you want to fend off animals, fasten the insulators on the outside of the pasture.

2. WHICH CONDUCTOR MATERIAL MUST THE INSULATOR CARRY?

Depending on the type of animal to be fenced in 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 enable 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. Otherwise you are in danger of damaging the conductor material and risk weakening the herding security 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 by using 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 section/ 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?

Important: Always select the appropriate insulator in relation to your post. The Product Guide will help you here:



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 includes special insulators with a unique screw thread for screwing into e.g. wood posts. This special thread prevents annoying splintering of the wood post. For you, the time-consuming process of pre-drilling or countersinking is no longer necessary. Because of the low splintering of the wood – after the insulator has been attached – an extremely secure fit can be guaranteed and herding security be established in your pasture.



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.



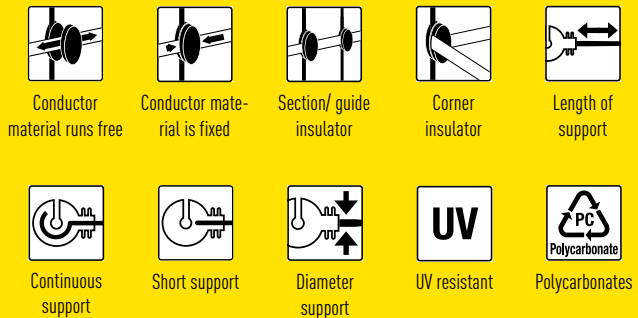
CLAMPS

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 directly on the post very quickly and easily.

Important icons for this chapter:

Product describing icons:

These icons describe insulator features.



Cross Selling Icons:

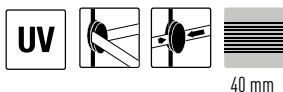
These icons refer to products that are additionally required and are compatible with the selected product.





Tape insulator | corner 40 plus

- Suitable as:** • Starting/corner insulator
Conductor material: • Tape up to 40 mm
Fastening: • Nailing or screwing to wood or recycled 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 re-tensioning possible
Application: • Fixed
Scope of delivery: • Screws, bracket

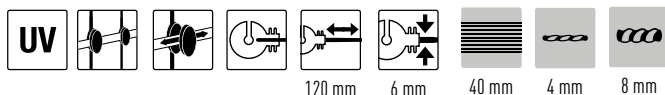


Art. No.	Material	Unit	EAN
125H15299	galvanized	5	3 700393 919619



Tape insulator | combi 40

- Suitable as:** • Section insulator, spacer insulator
Conductor material: • Tape up to 40 mm, polywire up to 4 mm, rope up to 8 mm
Fastening: • Screwing in to wood or recycled plastic posts
Advantage: • Large dry room = High insulation
Application: • Free running
Support: • Short, Ø 6 mm

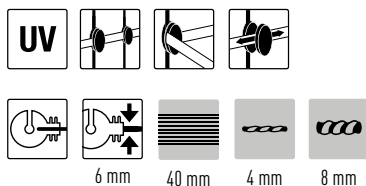


Art. No.	Unit	EAN
125H15828010	10	4 014803 158284



Tape insulator combi 40

- Suitable as:** • Section insulator, starting/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
Support: • Short, Ø 6 mm

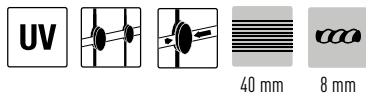


Art. No.	Colour	Unit	EAN
125H15390	black	30	3 700393 916748
125H15390080	black	80	4 014803 413147



Tape insulator ranger® 40 fix

- Suitable as:** • Section insulator
Conductor material: • Tape up to 40 mm, rope up to 8 mm
Fastening: • Nailing or screwing to wood or recycled plastic posts
Advantage: • Strongly interlocked closure support on tape, which provides a secure hold
Application: • Fixed



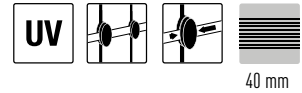
Art. No.	Unit	EAN
125H14990	15	3 700393 916649
125H14990080	80	4 014803 446534

Tape insulator ranger® 40

- Suitable as:** • Section 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

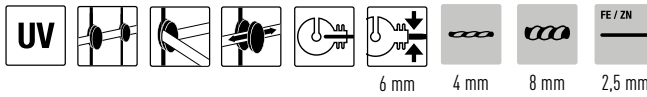


Art. No.	Design	Unit	EAN
125H14161030	without rubber insert	30	4 014803 428929

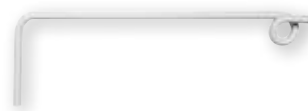


Rope insulator turbomax®

- Suitable as:** • Section insulator, starting/corner insulator
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
Support: • Short, Ø 6 mm

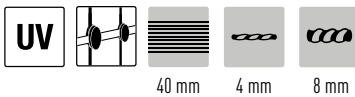


Art. No.	Unit	EAN
125H15835	15	3 700393 916885



Rope insulator flexibar 400 - one side

- Suitable as:** • Section 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	EAN
125H15318	10 Limited stock	4 014803 153 180

Ring insulator trapper® IS-S

- Suitable as:** • Section insulator, corner insulator
Conductor material: • Tape up to 12 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	EAN
125H1449350	50	4 014803 144935
125H14493200	200	4 014803 464415

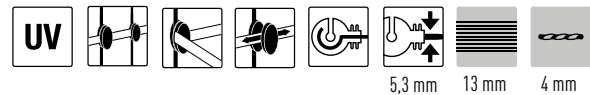


Ring insulator farmer® plus ISL

- Suitable as:** • Section insulator, starting/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	EAN
125H15364	50	4 014803 153647

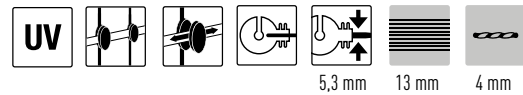


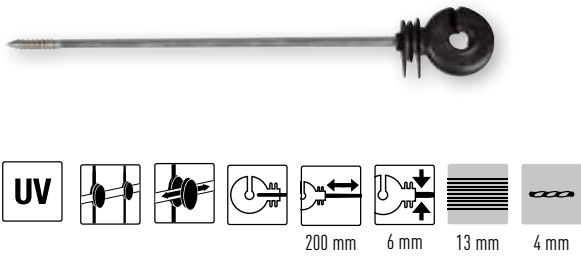
Ring insulator farmer®

- Suitable as:** • Section 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 5,3 mm



Art. No.	Colour	Unit	EAN
125H15275025	black	25	4 014803 420923
125H15275K50	black	50	5 901764 261742
125H15275120	black	120	4 014803 419859
125H15275010	yellow	50	4 014803 417602





Ring insulator farmer®

- Suitable as:** • Spacer insulator, strain insulator, section 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

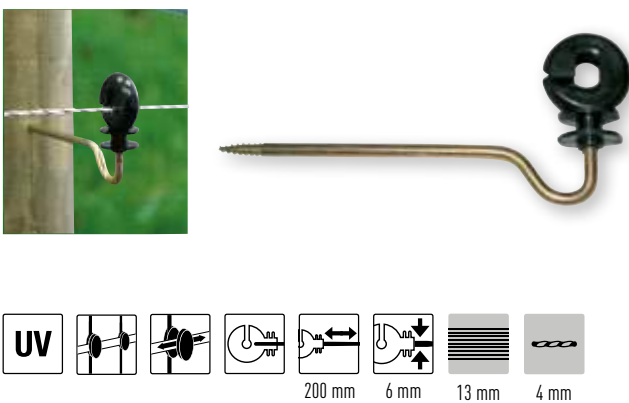
Art. No.	Unit	EAN
125H14937010	10	4 014803 149374



Ring insulator ranger® plus

- Suitable as:** • Section insulator, starting/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:** • Free running
- Support:** • Continuous, Ø 6 mm

Art. No.	Colour	Unit	EAN
125H15370120	black	120	4 014803 002792



Ring insulator ranger®

- Suitable as:** • Section 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
- Advantage:** • Large dry room = High insulation
• 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
- Support:** • Short, Ø 6 mm

Art. No.	Unit	EAN
125H15595	10	3 700393 916816

Wire insulator ranger®

- Suitable as:** • Section insulator, starting/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	EAN
125H15929045	45	4 014803 002938



Screw-in aid

Insulating tube

- Conductor material:** • Wire
• Rope
Application: • Insulation of wire on wooden posts for electrified fence
Length: • 25 m
Material: • Plastic



125H15935



Art. No.	Diameter	Unit	EAN
125H15935	interior Ø 5 mm, exterior Ø 10 mm	1	4 014803 159359

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



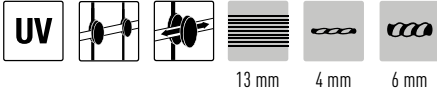
Art. No.	Unit	EAN
125H15357	1	4 014803 431738

Screw-in aid

- Suitable for:** • Ring insulators, rope insulator, gate handle insulators
Application: • Easy screwing in of the insulators using a cordless screwdriver



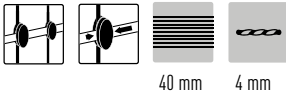
Art. No.	Unit	EAN
125UKA407	1	3 700393 986444



Replacement/additional insulator combi ip-15

- Suitable as:** • Section 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
Note: • Insulator is open at the post attachment

Art. No.	Unit	EAN
125H15290	25	3 700393 916670
125H15290050	50	4 014803 417930



Replacement/additional insulator farmer® 40

- Suitable as:** • Section insulator
Suitable for: • Round posts up to Ø 12 mm
Conductor material: • Tape up to 40 mm, polywire up to 4 mm
Application: • Fixed
Note: • Insulator is closed at post output

Art. No.	Unit	EAN
125H14969025	25	4 014803 444592
125H14969090	90	3 700393 919763

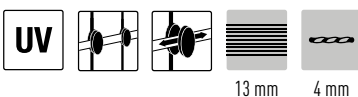
Rope and polywire insulators



Replacement/additional insulator farmer® ip-15

- Suitable as:** • Section insulator
Suitable for: • Posts up to Ø 15 mm
Conductor material: • Polywire up to 4 mm, rope up to 6 mm
Application: • Free running
Note: • Insulator is closed at post output

Art. No.	Unit	EAN
125H15129060	25	4 014803 420473
125H1512960	60	4 014803 420541



Replacement/additional insulator farmer® fiber

- Suitable as:** • Section insulator
Suitable for: • Posts with Ø 12 mm (125H14886)
Conductor material: • Tape up to 13 mm, polywire up to 4 mm
Application: • Free running

Art. No.	Unit	EAN
125H14046	25	3 700393 916519

Insulators plastic eyelet

The eyelet insulator keeps the wires, ropes and tapes tight and ensures a perfect tension of the fence. It is suitable for the following posts: 125H14886 and 125H14921.

For round posts with a diameter of 12 mm.

- Secure fixing
- For 12 mm diameter tapes
- For 6 mm diameter wires and ropes

Art. No.	Unit	EAN
125H17801F	20	4 014803 178015

By 50



Insulators plastic eyelet

The eyelet insulator keeps the wires, ropes and tapes tight and ensures a perfect tension of the fence. It is suitable for the following posts: 125H14885, 125H14887 and 125H14888.

For round posts with a diameter of 10 mm.

- Secure fixing
- For 12 mm diameter tapes
- For 6 mm diameter wires and ropes

Art. No.	Unit	EAN
125H17804F	20	4 014803 178046

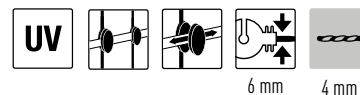
By 50



Ring insulator metric thread ranger®

- Suitable as:** • Section insulator
- Suitable for:** • Angular steel posts with Ø 2-3 mm (125H155361, 125H15877, 125H152541)
- Conductor material:** • Polywire up to 4 mm
- Application:** • Free running
- Support:** • With metric thread M6, thread length of 80 mm

Art. No.	Unit	EAN
125H14167	25	4 014803 141675



Horizont strain insulator

- Suitable as:** • Stretching insulator
- Conductor material:** • Polywire, ropes and wire
- Application:** • Guying of the fence section
- Material:** • Plastic

Art. No.	Unit	EAN
125H14061	18	3 700393 916526





Gate handle with hook farmer®

- Spring travel limit:** • 3 cm
Material: • Plastic
Fastening: • Eye for conductor material on handle

Art. No.	Colour	Unit	EAN
125H15817002	black	1	4 014803 417848
125H15817019	orange	1	4 014803 417879
125H15817010	yellow	1	4 014803 4158178



Gate handle with hook ranger®

- Spring travel limit:** • 5 cm
Advantage: • Reinforced insulation, therefore suitable for use with powerful equipment
 • Stainless steel rotating pressure spring
Material: • Polycarbonate
Fastening: • Eye for conductor material on handle
Colour: • Transparent dark grey

Art. No.	Unit	EAN
125H14350	1	4 014803 143501



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 gate opening
 • The tape can be easily re-tensioned
 • Safe handling due to wide flange
Material: • Plastic
Colour: • Black

Art. No.	Unit	EAN
125H156031	1	4 014803 446541



Gate handle with hook and tape connector turbomax® equistop

- Spring travel limit:** • 8 cm
Advantage: • With the mounted tape connector, a tape up to 40 mm wide can be attached directly to the gate, thus ensuring optimum gate opening
 • The tape can be easily re-tensioned
Material: • Plastic
Colour: • Black

Art. No.	Unit	EAN
125H151391	1	4 014803 446558

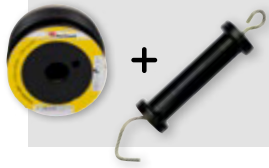


Gate handle with hook turbomax®

- 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	EAN
125H15445010	1	4 014803 402509

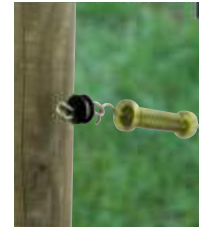
CLEVER COMBINATION: GATE HANDLE & UNDERGROUND CABLE



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. So, there is a risk that your animal will escape. Bridge the gate with a parallel installed underground cable.

Gate handle insulator with wooden thread

- 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
- Colour:**
 - Black
- Support:**
 - Insulator support with thread for wood



Art. No.	Unit	EAN
125H15126	3	4 014803 456410

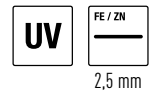


Gate handle insulator with metal plate

- 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 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

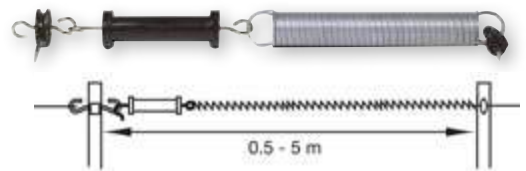


Art. No.	Unit	EAN
125H15307	2	4 014803 405951



Gate handle set 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

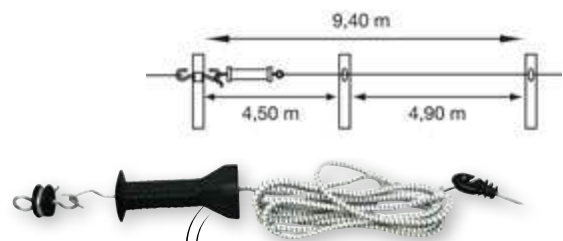


Art. No.	Design	Unit	EAN
125H15416	Kit	2	3 700393 916687
125H15487	Tension spring single, galvanized, thick	1	3 700393 916786



Gate handle set with rope

- Application:**
 - Especially suitable for easy opening and closing of gates without ground contact through electrically conductive rope
- Scope of delivery:**
 - 1x gate handle with hook
 - 1x rope: 4.50 m long (slack), 9,4 long (taut)
 - 1x gate handle insulator
 - 1x ring insulator

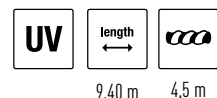


Art. No.	Unit	EAN
125H15316	1	4 014803 405937

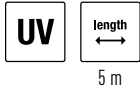
CATTLE FARMING



These gate handle sets are designed for optimal use in cattle farming.



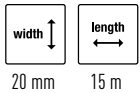
HORIZONT FENCE | Gates



Gate handle set 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	EAN
125H15291	2	4 014803 420442



NEW Roller Gate ranger®

Gate handle set 20 mm, swivelling

- Application:**
- Gate for electric fences
 - Easy to open without the conductor material touching the ground, the tape is rolled up automatically
 - Can be swivelled when installed to the 2 sturdy metal holders and can therefore be used for 2 gates
 - Large pasture gates or double-row gates up to 7 m width are possible with the 15 m long tape
- Scope of delivery:**
- 1 x belt retractor, 1 x gate handle with tape connector, 2 x metal supports, 15 m tape 20 mm

Art. No.	Unit	EAN
125H14651	1	4 014803 146519



EXPERTS RECOMMEND THE USE OF HORIZONT UNDERGROUND CABLES HERE

With a gate, it is particularly important to install a parallel running underground cable. The underground cable keeps the fence electrified even when the gate is open. As a result, the energy from the fence is not discharged into the ground when the gate is open, so there is no risk to the herding security.



125H14040



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UKAL

Parc économique de la Sauer
2 rue de l'Étang
CS 50244 Eschbach
67892 Niederbronn-les-Bains
France
Tel.: +33 3 88 07 40 15
ukalel@ukal.com
www.ukal.com

AFTER SALES SERVICE

sav@ukal.com
Tel.: 03 88 90 73 93

UKAL INTERNATIONAL

Tel.: +33 3 88 07 40 16
Fax: +33 3 88 07 40 14
export@ukal.com

GERMANY

HORIZONT ANIMAL CARE

Homberger Weg 4-6
34497 Korbach
Germany
Tel.: +49 (0) 5631/565-100
animalcare@horizont.com
www.animalcare.horizont.com

UKAL CANADA INC.

7525 rue Pion
J2R 1R8
St Hyacinthe
Quebec, Canada
Tel.: (450) 796-1414
Fax: (450) 796-1415
Toll-free: 1,800,665 8389
info@ukal.ca

POLAND

ROLOS

Ul. Henryka Sienkiewicza 2
Wyszków
PL 07-200
Poland
rolos@horizont.com.pl
Tel.: +48 29 742 33 39
www.horizont.com.pl

SLOVENIA

HORIZONT CLAIR D.O.O. TRGOVSKO PODJETJE D.O.O.

Zbilje 4 H
1215 SL - Medvode
Slovenia
Tel.: +386 (0) 1 3617 606
Fax: +386 (0) 1 3617 607
info@clair.si
www.clair.si

UNITED KINGDOM

HOTLINE ELECTRIC FENCING

2 Roundhead Road
Heathfield Industrial Estate
Newton Abbot
Devon TQ12 6UE
United Kingdom
Tel: +44 (0) 1626 33 11 88
Fax: +44 (0) 1626 33 18 10
sales@hotline-fencing.co.uk
hotline.horizont.com



UKAL.com

