ELECTRIC FENCING RANGE 2018



We are producing security and give impulses!



> more on pages 154 - 156

> more on pages 138 - 139

> more on page 16



Via App New smart fencing app for effortless fence management. > page 16



Dear customers,

Thanks to our new red company logo you are now able to recognize horizont even better than before! For the year 2018 we have developed further novelties and solutions for your animals.

Beside scores of product highlights which you can identify by their symbol (****** 🔊), I would like to highlight our YouTube channel as well as our Facebook page.

Our YouTube channel has many videos and is upgraded constantly. You will find numerous hints and tricks concerning the security of your animals. Our Facebook page will keep you informed about horizont current news.

Due to its comfort and simple handling our GPS-energisers and our new SMARTposts convince electric fencing professionals as well as hobby livestock owners!

You can find further innovations to simplify your life and increase security within the next pages of our catalogue. I hope you will enjoy browsing through it! Yours sincerely, Dieter Hake

Dieter Hake Managing Director Animal Care

Viete Sal

A small selection of our highlights

To explore the highlights look for the Highlight a symbol throughout the catalogue!





trapper[®] AB2 All-round electric fence

All-round electric fence energiser for paddocks and short pastures.

> page 44



Solar solution Premium solar solution with ideal setting options.

> page 49





Night watchman Twin blinking LEDs mimic eyes in the night to ward off predators.

> page 61





Posts

Extremely fixed and sturdy. Height of insulators selectable.

> page 139



Electric fence energisers



horiSMART 2-level technology

horiSMART energisers only operate at a maximum of 5 joules output energy. When operating in conjunction with an efficient, well maintained fence, the energiser will operate at the lowest levels while delivering adequate power output – the CPN system = constant power niveau. With very high voltages the horiSMART technology operates in a warning phase, which deters animals and people without being dangerous or inflicting harm. The energiser can detect the difference between low residual resistance load and a contact load, adjusting the output accordingly. After 60 seconds the energiser switches to normal maximum output operation for the duration that the disturbance is on the fence. This can degrade any vegetation which has grown to touch the fence, keeping it clean and running efficiently.

APN - automatic power niveau

APN Set by the potentiomter or set to 50% during setup of the energiser for AN50 / 70. APN adjust the output power incrementally depeding on the fence situation.

horizont load sensing circuitry · less strain on the environment

The load sensor automatically adjusts the output to give the appropriate power to the fence line depending on vegetation or leakage. This horizont patented system ensures that the fencer only draws as much System ensures that the fence ionity draws as much current from the battery as strictly necessary to pro-vide the correct output power for the fence conditions. This ensures both the security on the fence and that the battery life is extended as long as possible thereby reducing concerning each of the security of th reducing operating costs

Patented turbo effect -

considerable increase in performance This unique feature produces a secondary discharge of power if a higher output is required due to high vegetation or poor fence line insulation. If a requirement for a higher output is detected, the secondary output is triggered automatically ensuring a much more effective barrier. Turbo-effect is a horizont patent. Now also with horiSMART energisers. Page 14 and 15



GPS security-GPS location control SMS-SMS control MENU set to a modi

Explanation of power data



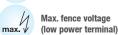




Max. fence voltage (high power terminal)



Fence voltage at 500 Ohm (high power terminal)





Output energy max. at fence load of

Some special characteristics of horizont fencing materials:

TU Max

With newly developed conductors of **Tomax** excellent conductivity is possible. The conductor is extremely weather resistant and high fight connection. Up to 180 x times improved conductivity compared to a standard quality (14,4 Ω/m)!



Bridge conductors

Products with bridge conductors do have a permanent current flow even with conductor breakage

Conductivity

Products with this sign do have best conductivity and are recommended also for very long fences

High breaking strength

The use of very strong monofilaments gives these qualities a higher breaking strain. Up to 10 x times greater breaking strengh compared with standard quality!



2433

horimay



LED LED Earth and fence line LED voltage indicator lights.

"argutektor"



Reduced current B consumption by power switch



Battery indicator light By pressing a single push button you can check the capacity and operation of the battery being used.

These fencers can be operated by using either 9/12V a 9V dry battery or a rechargeable wet 12V battery.

> Premium quality plastic, very durable, UV stabliised and high impact resistant . (Polycarbonate)

UV stabilized



stic products have longer life expectancy. The fencer has two output terminals: strong and extra strong.



High/low power switch. You can switch between two output levels: strong and extra strong

A UV stabiliser is used to protect the product and

prevent it from degradation caused by ultra violet rays. This is why horizont top quality pla-



Very solid battery box.

Fence voltage indicator light. Indicates if the voltage falls below 2000V

ON/OFF ON/OFF-Switch.





6 Volt level control.



Pontentiometer.





Disturbed operation.



High quality plastic, heat resistant and oil constant.



2

A

Alarm functions at change of fence load from \geq 1000 Ω to < 400 Ω .



Warranty from date of purchase. Water damage and damage by flash lightning are excluded as well as damages by abnormal use of product (for energizers). Tapes, wires and ropes - the warranty period refers to UV-stability of the product.

Max. fence length (CEE)	34000 ¹ 1400
Max. fence length with no load	230V
Max. fence length with light load	12V
Max. fence length with heavy load	9/12V



Earth stakes (length and qty)

12/230V 12/230volt operation

(5) 3 or 5 years warranty from date of purchase

At tapes, wires and ropes warranty time refers to UV-stability of the product.



πUV

UV Stabilisation

Compared to many products from other suppliers, all horizont qualities use monofilaments with highest UV stabilisation to be able to guarantee longer life expectancy.

PE (Polyethylene - threads)



UV - indexed Polyethylene threads for long life and highest breaking strength. Polyethylene threads have a smooth surface and are suitable for elastic surfaces of tapes, twines and ropes.

- Long and extreme taper thread for easy installation · Self tapping thread for screwing in easily
- No pre-drilling required
- Sharp thread edges for a secure fit of the insulator

horizont insulator backup with thread for wood

- Insulator support is produced from tempered steel.







Current consumption

Qty of possible netting connection



Ser.

Your ideal energiser!

Benno Spilker

An electric fence system can be built up quick and easy! Have a look at our YouTube channel, our videos provide useful hints. At the first pages of our catalogue you can find solutions regarding the right combination of several components. You can easily compose your fence by selecting your components out of one product series!

Benno Spilker Product manager / electric fencing products

R.G

What type of power should my energiser run from?



See page > S. 8



Operation with solar power

We differ our energizers between the types **B** (9 V battery fencer), A (12 V battery fencer), N and M (mains fencer) and S (solar fencer). Each type offers advantages and disadvantages.

Have a look at the icons!

Which length should the fence be?

Mains operation

The length of the fence is important for the choice of conductive material. The performance of the energizer and the conductivity of conductive material have to suit each other!

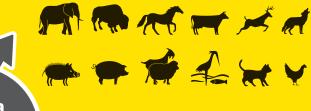
Please be aware, that the indicated length indications are related to optimal conditions! I. e. there is no vegetation on the fence.

Partial energy is discharged from the fence into the ground if you have heavy vegetation on the fence, thus affecting performance! **More information in our FAQs : > see p. 5**



What type of animal am I containing?

Each animal type has special characteristics. The unique sensitivity of the animal and the hair/coat is important in choosing the correct electric fence installation. With the help of the animal icons you can easily see which kind of animal we recommend the energizer is used with:



What else?

look for detailed information within the catalogue:

> p. 5
> p. 7
> p. 6
> p. 8
> p. 9
> p. 10–11
> p. 14–15

First step – find your ideal electric fence equipment Pg. 2

Specials – FAQ Your advantages with horizont FAQ: Electric fence Checklists Energy supply Recommended fence heights & posts	Pg. 4 Pg. 5 Pg. 6 – 7 Pg. 8 Pg. 9		Pg. 1 – 9
Electric fence energis Product Guide / Overview GPS-SMS-MENU / SMART fencing horiSMART® / turbostar® ranger® hotSHOCK®	Pg. 10 – 13	farmer® equiSTOP® / Camouflage trapper® Special mains energiser	Pg. 11 – 46 Pg. 31 – 36 Pg. 37 – 40 Pg. 41 – 45 Pg. 46
Energy, testers and ea Product Guide / Overview Solar solutions Control and energiser accessories Lightning protection, switching, connecting Earthing and accessories	Pg. 47 Pg. 48 – 57 Pg. 58 – 61	Battery and rechargeable battery explanation Dry batteries Block batteries Battery, power supply unit, charger Accessories	Pg. 70 Pg. 71
Fence material and a Product Guide / Overview Tapes Twines Wires Ropes	CCESSOTIES Pg. 77 – 82 Pg. 83 – 87 Pg. 88 – 92 Pg. 93 – 94 Pg. 96 – 99	Horse rug Fence Buster™ Connection and tightening	Pg. 77 – 106 Pg. 100 – 101 Pg. 102 – 106
Insulators Product Guide / Overview for tapes for twines Screw–in aids for wires, tapes and ropes	Pg. 107 – 109 Pg. 110 – 113 Pg. 114 – 116 Pg. 117 Pg. 118	for cables Distance insulators Supplementary insulators	Pg. 107 – 126 Pg. 119 Pg. 120 – 122 Pg. 123 – 126
Gates, Reels & Posts Product Guide / Overview Gate and handle sets Reels Posts	Pg. 127 Pg. 128 – 134 Pg. 135 – 137 Pg. 138 – 144		Pg. 127 – 144
Nets & Permanent fer Product Guide / Overview Nets Permanent fencing	ICING Pg. 145 Pg. 146 – 155 Pg. 157 – 161		Pg. 145 - 161





horizont – The electric fence expert

With horizont you have a consumate expert by your side. Owning more than 50 patents for products that increase animal safety, horizont has continued to excel in developing innovative products for more than 70 years.

Your advantages as a horizont customer



That's what »Made in Germany« is all about

Our electric fence equipment and many accessories are developed and produced in Germany. Extremely low failure rates ensure the product is ready to go when you are. Our reliability in comparison with competitor products alows us to offer longer guarantees on our equipment.



Reliable products

All horizont electric fence equipment is endurance tested for at least 24 hours before being packed. The first endurance test takes place at horizont and not out in your fields! When you buy a horizont energiser, you buy safety that you can rely on.



More than 50 patents & registered designs

Our engineers show true pioneering spirit. We have developed more than 50 patents and registered designs during our company history. As a result, we give you more safety and time to deal with other things.



Quick service

In the unlikely event of a defect or damage to an energiser (e.g. by a lightning strike, water damage or similar), our technical service is at your disposal at a moments notice. Our simple modular designs mean that many of our stockists can repair your energiser on site and can help you out with a loan unit during the short repair time (usually within 48 hours).



Tested products

horizont electric fence products are subjected to tests by our engineers and under practical, working conditions. The products are only added to the portfolio when they meet the quality demands during the extensive testing procedures.



Consulting service

The horizont team looks forward to your call, e-mail or fax. We are always glad to help you with project planning or problem solutions. Furthermore, we are also always grateful for any feedback about your experience with our products.





FAQ: Electric fence

Those of you who have had little experience of electric fences will obviously have several questions. At first glance it does not seem an easy task to choose the right energiser and suitable accessories. We will help you to answer the most important questions.

What are the basic considerations?

- The first goal of fence building: To prepare the open circuit so that it is closed when touched by an animal!
- Then: To make sure that the current stays on the fence and only comes into action when touched by an animal.

What does the electric fence energiser do?

- The energiser sends short electric pulses which flow along the fence and remain unused when not touched by animals or dissipated.
- The pulse duration is only 0.1 to 0.3 thousandths of a second and the pulse interval is between 1 and 2 seconds.

What is earthing?

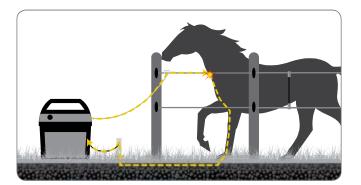
- The earthing is the »counterpart to the freely laid conductor material« in the fence.
- The energy emitted by the energiser is fed back into the energiser through the earth and the ground posts. The earthing turns the circuit into a closed circuit when the energiser is touched.

What happens when the animal touches the fence?

- The animal closes the circuit! The pulse sent by the electric fence energiser flows through the conductive material, the animal's body, the ground and the earth posts 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 and will not try to break through it.

What have joules & volts got to do with it?

- Energy transmitted into the fence is given 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 bridge the insulating skin of the animal. Voltage is the carrier for what causes the shock!



Why pay attention to good conductive material?

- The conductive material is the actual fence, i.e. tapes, ropes or wires.
- The conductive 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 money on the conductive material can undermine the effectiveness of the other fence elements.
- In the worst case, poor material can cause such great energy loss that no current reaches the end of the fence.
- Note: Never knot your conductive material! Too much energy will be lost. Always use suitable connectors to guarantee the current flow.

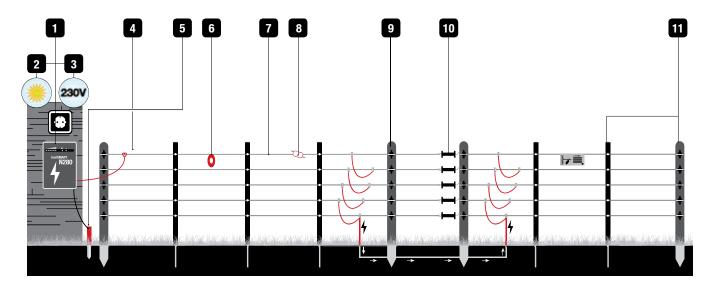
Is long grass at the fence a bad thing?

- Yes, because the grass or other vegetation draws energy from the fence and the fence therefore loses power.
- The fence lengths are reduced as follows in case of vegetation: with medium vegetation:
- to approx. 50% of the specified fence length* with dense vegetation:
- to approx. 20 % of the specified fence length*
- *Data for single and multi-wire fences.



Specials – FAQ FAQ: Electric fence | Checklist permanent fence





What equipment do I need for a long-lasting, reliable permanent fence?

\checkmark		What?	Page	Why?
	1	Electric fence energiser	10 - 46	The energiser transmits impulses to the fence. The impulses provide the deterrent in the electric fence.
	2	Solar solution	47 - 57	Use the energy of the sun for 9V battery energiser and 12 Volt rechar– geable battery units. Save battery costs and tiresome recharging of the battery.
	3	Energy	69 - 75	Have you thought about batteries, rechargeable batteries, 230V power pack and battery charger?
	4	Connection material lightning protection, switch	63 - 68	Makes the electrical connection from the energiser to the fence. Lightning protection systems are a must for mains supply units.
	5	Earthing and accessories	65 - 66	The energy flows from the ground through the ground post and the connecting cable back into the electric fence energiser.
	6	Testers accessories, warning signs	58 - 61	Testers are necessary for informative fence inspection – they make it easier to check the fence function.
	7	Conductive material tapes, ropes, wires	77 - 99	Conducts the electrical impulse in the fence. The conductor is uninsulated and laid open so that it can make a good contact with the animal.
	8	Connecting and tightening	102 - 106	The conductive material can be connected firmly and electrically conductive with connectors. The right tensioners ensure taut conductors to avoid injuries to the animals.
	9	Insulators	107 - 126	Hold the conductive material well insulated in position. The right insulator should suit the conductive material.
	10	Gate handles and sets	128 - 134	Have you though about access to the fields? A gate is normally used several times a day and should be easy to use.
	11	Posts	161	Plastic or metal posts with insulators hold and guide the conductor material along the field and to the ground. We recommend strong wooden posts for gates and corners.



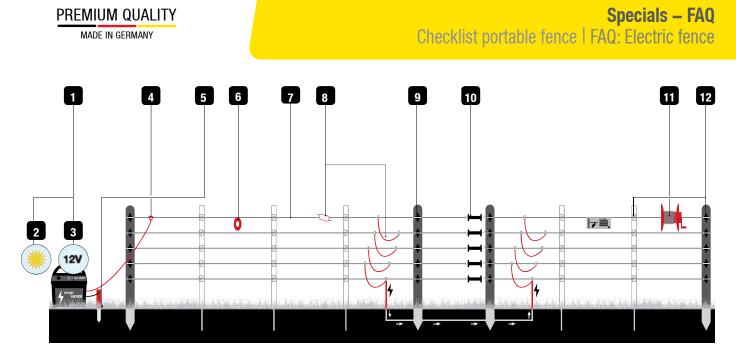
shorizont

Have a look at our YouTube-channel!

Our electric fencing professional is explaining the most effective way to build a perfect permanent fence in a video step by step.

☐^{*} https://www.horizont.com/permanent.fencing





What equipment do I need for a portable fence?

\checkmark		What?	Page	Why?
	1	Electric fence energiser	10 - 46	The energiser transmits impulses to the fence. The impulses provide the shock in the electric fence.
	2	Solar solution	47 - 57	Use the energy of the sun for 9V battery energiser and 12 Volt rechargeable battery energisers. Save battery costs and tiresome recharging of the battery.
	3	Energy	69 - 75	Have you thought about batteries, rechargeable batteries, 230V power pack and battery charger?
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	7	Conductive material tapes, ropes, wires	77 - 99	Conducts the electrical impulse in the fence. The conductor is uninsulated and laid open so that it can make a good contact with the animal.
	8	Connecting and tightening	102 - 106	The conductive material can be connected firmly and electrically conductive with connectors. The right tighteners ensure taut conductors to avoid injuries to the animals.
	9	Insulators	107 - 126	Hold the conductive material well insulated in position. The right insulator should suit the conductive material.
	10	Gate handles and sets	128 - 134	Have you thought about access to the fields? A gate is normally used several times a day and should be easy to use.
	11	Reels	135 - 137	A portable fence or portable sections can be set up and dismantled quickly and easily with a reel.
	12	Posts	138 - 144	Plastic or metal posts with insulators hold and guide the conductive material along the field and to the ground. We recommend strong wooden posts for gates and corners.



Have a look at our YouTube_channel!

Our electric fencing professional is explaining the most effective way to build a perfect portable fence in a video step by step.

☐[®] https://www.horizont.com/portable.fencing



Specials – FAQ Energy supply | FAQ: Electric fence



The right energy supply

The type of energy supply is just as important in determining your choice of energiser as the length of the fence system you wish to power. The type of energy supply (9, 12 or 230 Volt) will influence the mobility of the energiser and the level of maintenance required.



horizont

How far apart should the posts be?

The following spacings are the optimum distances for fastening conductive material between the posts:

• Ropes and twines:

- 6 m to 8 m (depending on the net weight)
- Tapes:

3 m (for tape 40 mm), 5 m (for tape 20 mm) ,

- 6 m to 8 m (for tape 10 mm)
- Wires:
- 4 m (for diameter 6-8 mm), 6 m (for diameter 5-6 mm)
- Terrain:

Consider the terrain. If it is very uneven, more posts are necessary to run the conductive material parallel to the ground.

What else do I need to consider?

• IMPORTANT: Never operate

- Never operate fence systems and nets without an electric fence energiser!
- Connectors:
- Never knot your conductive material always use suitable connectors to guarantee the electricity flow.

• Warning signs:

For safety reasons, you are obliged to position these well visibly and in sufficient numbers (pg. 61) along your electric fence (printed both sides).

• Circuit:

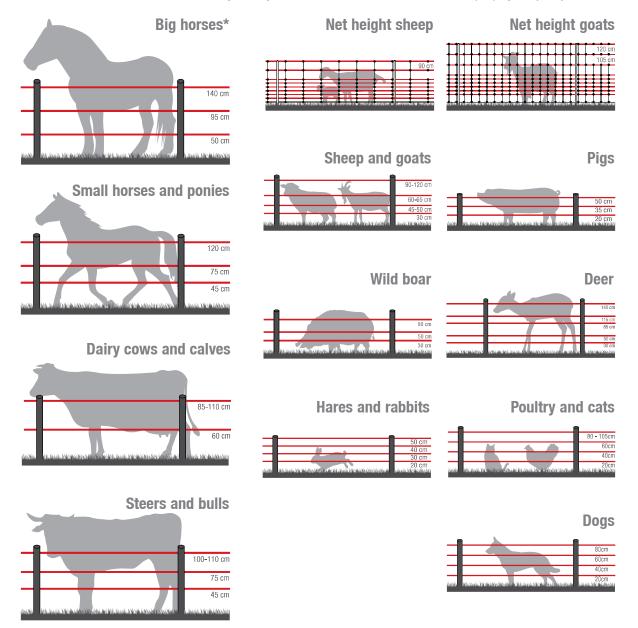
- The fence must not be set up as a closed circuit the circuit is closed by animal contact • Daily inspection:
- Our »SMARTfencing« GPS energiser of the 2nd generation makes inspection of the electric fence much easier.

Conductivity:

ensure high impulse energy on conductive material material with high conductivity and good earthing.

How high must the fence be?

The below measurements are recommended heights for your fence. Of course, the size of the animal and any relevent insurance regulati– ons should also be considered when determining the heights of the wire. You should also consider the »jumping ability« of your animals.



Electric fence energisers

Overview I series and quality-level

PREMIUM QUALITY MADE IN GERMANY

Electric fencing energisers

1. Find the right product series for every job.

You can find the right conductive materials, insulators and other accessories from a product series to suit your energiser by matching the colour coding and name.

2. The recommended application is quickly recognisable from the animal symbols printed on the energiser.

Every animal protected by an electric fence requires a specific electric fence system. horizont, as the leading European premium manufacturer of pasture fence systems, has specific solutions which provide a very high degree of safety and reliability.

Professionals (shepherds, dairy farmers, mixed farms) but also safetyminded smallholders and hobby farmers trust "Made in Germany" by horizont.

The following components must be considered individually for both the animal and basic conditions in order to select the correct products:

- Animal hair and its conductivity in order to transfer an effective yet not too high current pulse to the animal
- Size of the animal
- Fence length to ensure consistent power at all points
- Vegetation growth along the fence, as this weakens the power
- Fences for large pasture animals (such as cows and horses) who are
 often fenced in by conductor material that is positioned at a greater
 distance from the ground.

Animals which are protected from predators from the outside also require specific solutions: As opposed to sensitive grazing cattle, a robust wild boar with its strong bristles and robust character will need a very different current pulse to create an effective deterrent.

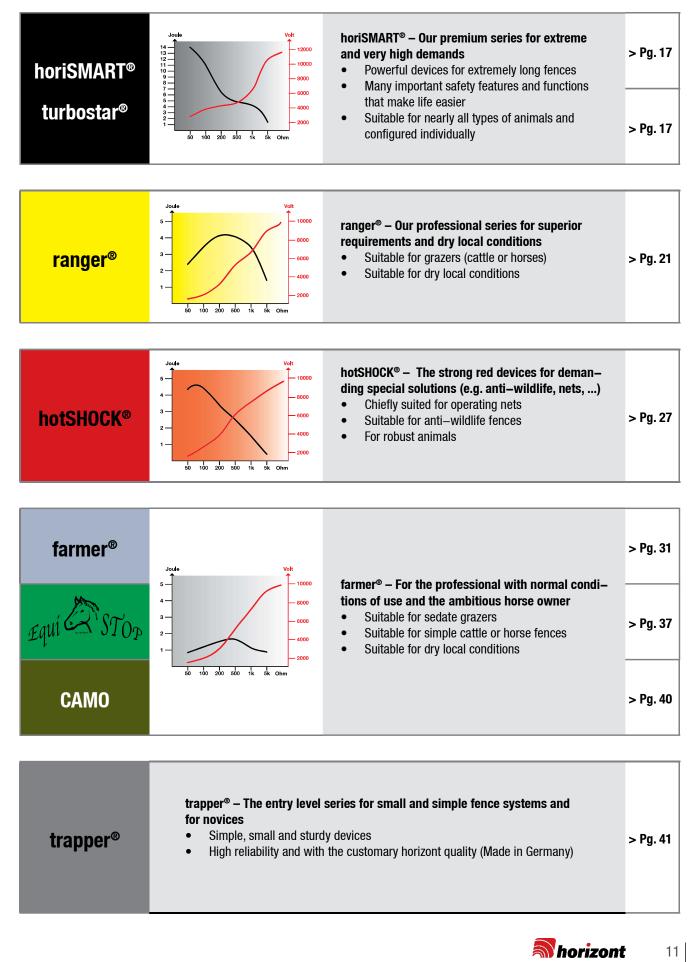
From the many years of experience and close collaboration with livestock owners, horizont can offer you and your animals the safest and most modern electric fence system from the animal's point of view.



We offer intelligent solutions across all of our energiser series, offering easy to use features and the highest levels of safety as well as remote controls for electric fence devices!

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We offer intelligent solutions across all of our energiser series, offering easy to use features and the highest levels of safety as well as remote controls for electric fence devices!



Electric fence energisers Product Guide / Overview

PREMIUM QUALITY

MADE IN GERMANY

Mair	ns energiser	.													CEE	max.	max.	max.		
	/ Part no.	Energy		7 6			-	A		77		Y	بجعر		max. fence length (CEE)	max. fence length with no load		max. fence length with heavy load	Qty of pos- sible netting connection length 50m	ge
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	ranger® N80 10742	V	-	M	-	#	*	đ	_	_	_	Y	بمحر	-	100	40	10	4	16	22
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	hotSHOCK [®] N50 10614	¥	-	A.	-	1	*	đ	-	-	-	¥	بر	-	120	40	20	10	16	29
	farmer® N25 10633	¥	-	A.	-	1	*	-	-	-	-	_	-	-	50	13	4	1.4	7	33
	farmer® N15 10632	V	-	A.	T	1	*	-	-	7	*	_	-	-	40	10	3.5	1.2	6	33
	equiSTOP® M3 VCS 10622	V	-	M	_	_	_	-	-	-	-	_	_	-	60	20	6	2	-	38
	equiSTOP® M1 10621	V	-	M	-	_	_	-	-	-	-	_	-	-	25	7	3	1	-	38
	equiSTOP® M 14354	¥	-	M	-	_	_	-	_	_	-	_	_	-	15	4	2	0.8	-	38
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	ranger® B8 10841	9V ≌ 12V ≌	-	Ŕ	-	-	-	-	-	-	-	-	-	-	20	12	5	2	_	26
-	ranger® B6 10840	9V ≌ 12V ≌	-	M	-	-	-	-	-	-	-	-	-	-	12	10	4	1.5	-	26
-	ranger® B4 10445	9V ≌∷ 12V ≌∷	-	M	-	-	-	-	-	-	-	-	-	-	10	8	3	1	-	26
	ranger® B 10555	9V ∰ 12V ∰	-	M	-	-	-	-	-	7	*	-	-	-	9	6	4	1	-	26
	hotSHOCK® ABN5 10892	9V ₩ 12V ₩	-	-	-	1	#	đ	-	-	-	¥	<u>ب</u> طر	£	10	6	4	1.1	3	30
	farmer® ABN4 10891	9V ≌ 12V ≌	-	M	7	-	-	-	-	-	*	-	-	-	9.5	5.5	3.8	0.9	-	35
	equiSTOP® B2 10620	9V ≌ 12V ≌	-	Ŕ	-	-	-	-	-	-	-	_	-	-	8	5	3.5	0.8	_	39
	equiSTOP® B1 10619	9V ₩ 12V ₩	-	M	_	-	-	-	-	-	-	_	-	-	4	3	1	0.3	-	39
	trapper [®] B 10616	9V <u>₽</u>	-	M	-	-	-	-	-	A	×	-	-	-	3	1.5	0.5	-	-	43
1	trapper [®] AB2 14497	9V ≌ 12V ≌	-	M	_	_	-	-	-	_	×	_	-	-	18	12	5	1,5	2	44

MADE IN GERMANY

Electric fence energisers Product Guide / Overview

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6	ranger® AN7000 10993	12V ∰	-	The second	7	Ŵ	, R	at 1	*	-	-	-	بجر	-	130	40	20	10	14	25
	ranger [®] AN5000 10992	12V ∰	-	M	-	1	*	đ	-	-	-	-	بعجر	-	100	20	5	2	12	25
6	ranger [®] AN3000 10854	t 12V ≌	-	7 6	-	1	*	đ	*	-	-	_	بجر	_	40	15	4.5	1.7	10	25
Ľ.	ranger [®] AN70 10857	12V 🔛 😽	-	M	7	1	*	đ	*	-	-	-	بجر	-	130	40	20	10	14	23
2	ranger [®] AN50 10858	† 12V ≌	-	M	-	1	-	đ	*	-	-	-	بعجر	-	100	20	5	2	12	23
	hotSHOCK® A50 10613		-	M	-	1	*	đ	-	-	-	¥	-	-	80	30	15	8	14	29
	hotSHOCK® A15 10638	12V <u>₩</u>	-	M	T	1	-	đ	-	-	-	¥	-	-	30	8	3.5	1.2	6	29
	farmer[®] AN1000 10855	± 12V ∰ ₩	-	M	-	Ŵ	~	-	*	-	-	-	-	£	40	8	3	1	5	34
	farmer® AN1000 solar 10855	12V ∰	-	M	T	1	-	-	*	-	-	-	-	£	40	10	3.5	1.2	5	34
	farmer® AN25 10897	± 12V ∰ ₩	-	M	-	Ŵ	~	-	*	-	-	-	-	-	50	15	4.5	1.7	10	33
	farmer [®] AN15 10896	12V ∰	-	M	T	1	-	-	*	A	×	-	-	-	30	8	3.5	1.2	6	33
ġ,	trapper [®] AN24 10865	[†] 12V ∰	-	M	-	1	-	-	-	-	-	¥	-	-	18	12	5	1,5	6	42
,	trapper [®] AN12 10866	t 12V ≌	-	M	T	1	-	-	-	-	-	¥	_	-	12	8	3,5	1,2	4	42
<u>,</u>	trapper® AN8 10867	t 12V ∰ 🍄	-	M	-	1	-	-	-	-	-	¥	_	-	8	4	2	0.8	2	42
	equisSTOP® A2 10623	± 12V ≌	-	M	-	-	-	-	-	-	-	-	-	_	30	10	4	1.5	-	38
10	Camo A50 10932CAM0	tan 12V≌	-	M	-	1	-	đ	-	_	_	_	_	_	70	25	12	6	11	40

Rec	hargeable ba	ittery e	nel	gis	er	/sc	olar	' en	erç	yise	er 🕯	2V 👷 [T			max.	max.	max.	Qty of pos-	
Product	/ Part no.	Energy	6	1. C. C.		1		<u>a</u> t		77	int		بمحر			fence length with no load		fence length with heavy load	sible netting connection length 50m	ge
1	farmer [®] AS70 14475	12V ≌	-	A.	-	-	-	_	*	A	¥	_	-	_	18	16	4.2	1.6	-	36
1	trapper [®] AS70 14983	12V ≌	-	The second	-	-	-	_	*	A	¥	_	-	_	18	16	4.2	1.6	-	43
1	trapper [®] AS35 14982	12V≌ ∰	-	A.	-	-	-	_	*	A	X	_	-	_	8.5	5	3.6	0.9	-	43
1	trapper [®] AS20 14981	12V ≌	_	A.	-	_	-	_	-	A	¥	_	_	_	3.7	2.8	0,9	0.3	_	43

GPS SMS MENU

ranger[®] AN70 GPS

- Battery– / Mains energiser, 6.5J Input, 4.8J Output
- For fences up to 40km with no load and 10km with heavy load
- Fence control is easily seen from further distances as all indications are shown by the energiser optically

Part no. EAN 4057GPS 4014803446510

- Argutektor display with 6 LED's shows when the energiser has a higher power consumption for maintaining the output
- Battery control display 3 step display for detailed information
- Energy saving function automatic regulation
- Earthing control
- <u>Delivery contains:</u>
 Fence and earth connection cable with strengthened plastic cover



For further information see page 23

ranger[®] AN3000 GPS

- Comfortable to carry carrying handle with soft grip inlay
- Fence tension display with 6 LED's
- Agrutektor display with 6 LED's shows when the energiser has a higher power consumption for keeping up the output
- Battery control display 3 step display for detailed information
- Energy saving function automatic regulation

EAN

12/230

Part no.

10854GPS

control display • Earthing control • Housing can be secured with a padlock

Solar charging controller with charging

- Housing can be secured with a p
- <u>Delivery contains:</u>
 Fence and earth connection cable with strengthened plastic cover



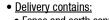
For further information see page 25



hotSHOCK® A50 GPS

- Mains operated energiser, 4.2J Input, 3.0J max. Output
- For fences up to 30km with no load and 8km with heavy load





• Fence and earth connection cable with strengthened plastic cover

For further information sources page 29

and the internet



230V 12V 9V INPUT -10857 ranger[®] AN70 5.7J 4.8J 15000V 6 000V 10000V 95–555mA 130km 40km 20km 10km 14x50m 5x1m 50W 10854 ranger® AN3000 ~ 2.7J 2.0J 14000V 4 500V 100-265mA 40km 15km 4.5km 1.7km 10x50m 2x1m 20W 10613 hotSHOCK® A50 4.2J 3.0J 12000V 6000V 10000V 550mA 80km 30km 15km 8km 14x50m 3x1m 20W Explanation of symbols for features of the energiser please find at folder.





- •Switching on/off
- •Transfer of the battery voltage and backup battery from the GPS/SMS module

Example text message

GPS Safety

- •Switching on/off
- Location monitoring
- •The safety radius (Geofence) around the energiser is freely selectable
- •You receive an alarm message when the energiser leaves the safety radius (Geofence)



Example lext message

SAMSUNG

status 🔘

poweron ok

01/01/2010-01:02

Menu: normal Fence: <u>8324</u>V Alarm: off / off

rgu: 100%

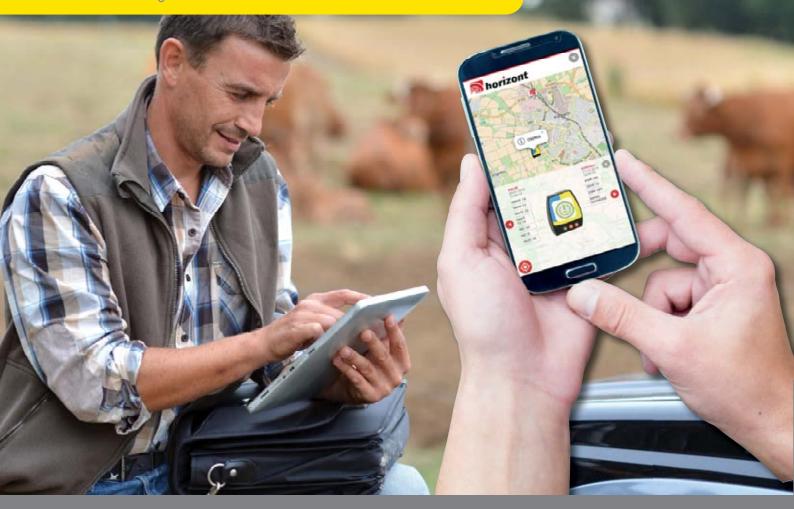
MENU Remote control of the electric fence energiser

- •Switching on/off
- Menu control
- Power control
- •Status report of the battery charge by a solar panel (only ranger® AN3000)
- •Automatic alarm message on dropping below the pre-set voltage thresholds
- •GSM reception quality
- •Transfer of the remaining credit on the SIM card
- •Transfer of the fence insulation display »argutektor«
- •Transfer of the battery voltage and backup battery from the GPS/SMS module
- Transfer of the fence voltage at the output of the electric fence energiser
- •Pasture logbook if the fence voltage does not drop below a pre-set value within 24 hours, a message with the lowest fence voltage value is sent. This documents the regular inspection of your fence.

Example text message



PREMIUM QUALITY MADE IN GERMANY



SMARTfencing New freedom in animal control!

Have you already considered "Smart Home" products or solutions?

More than in almost any other area, we are more concerned with protecting our possessions, even when we are not at home.

A percieved rising rate of crime has led to an increase in demand for technical aids. New leaps in development which will allow an even greater safety and control have already become available in this area.

Is this worry justified or are we just more aware of and open to technical aids, such as surveillance cameras and apps which help us control things remotely?

Both is likley to be the answer.

But can these worries be limited to just our own four walls? Or do we need solutions for the outdoor area as well?

Increasing numbers of reports on cattle theft and animal loss due to unwelcome guests underscore the fact that risks in the outdoor area are increasing. How do you protect yourself from theft or from damage to your fence when it is less risky for thieves – no matter whether human or animal – to poach in outdoor, less populated areas.

Even without unbidden guests, keeping animals means very high – and also legal – requirements for every animal owner. Who will ensure that the pasture fence system will work 365 days a year around the clock without limitations?

From 2017 innovations from the "SMARTfencing Solutions" product range and with our patented technology we can offer you additional solutions to help protect you and your possessions.

This gives you the options to make sure your animal is well protected at all times. No matter where you are!

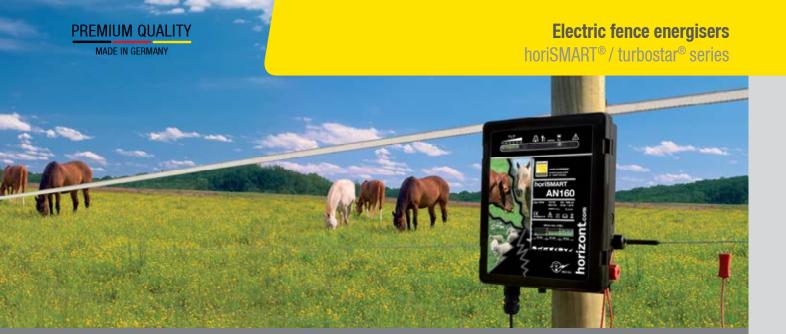
That is SMARTfencing for us!

Our future offers will therefore include the following components:

- Pasture fence device (basis)
- GPS / M2M module (for communication) with a communications provider
- Mobile phone / data contract

We are currently testing the different models and variations, so look out for the product infomation later in the year!

horizont



Professional energiser: The horiSMART[®] energisers have a special safety circuit which increases the power with a »turbo« if required. For a high performance.





For high performances

Energy outputs of more than 5 Joules require a DELAY safety circuit. horiSMART[®] energisers are available up to maximum of 14 Joules out-put energy and are therefore ideally suited for long fences.

DELAY – safety circuit

If prolonged, short-circuit-like disturbances (vegetation and other power drawing interference) occur on the fence, the horiMSART[®] ener-gisers increase the transmitted power after a delay of less than a minute. A further »turbo« impulse is added to the standard impulse. Maximum energy increases automatically.

For dry ground

The horiMSART[®] energisers are equipped with the horimax technology in a normal operating environment (without turbo). This enables comparatively high performances, especially under dry summer ground conditions.

Dual energiser

The horiSMART[®] AN energisers can be operated simultaneously on the 230 Volts mains together with a 12 Volt battery. The energiser operates from the 230 Volts mains and switches over to the 12 Volt backup supply automatically if the 230 Volts supply fails. The 12 Volt battery is trickle charged by the mains connection.

Turbo B

Has a current saving circuit. A fence status check is possible on the »argutektor« 💿. The turbo impulse is added automatically as required.

Chapter	Page
horiSMART [®] series I Technology	18
230V horiSMART [®] series I Mains energiser	19
230V 12V horiSMART® series I Dual energiser	19
9/12V turbostar® series I Battery energiser	20
turbostar [®] series I Solar accessories	20

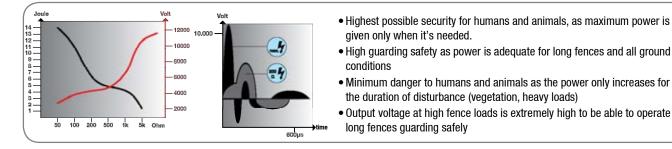


horiSMART[®] (turbo with horimax)

Clever security energiser from horizont

horizont has updated the tried and tested, reliable security energisers horiSMART[®] with increased power. The new horiSMART[®] energisers follow the norms for strong energisers. If the new horiSMART[®] energisers detect a lengthy disturbance on the fence (vegetation growth, heavy loads), maximum energy is transferred to the line, following a saftey delay of 55 seconds. Once the energiser recognises a fence load of 500 0 hms, power is restricted down to 5 Joules or less. When a sudden change of fence load is detected (minimum 6 impulse long lasting change) from 1 000 0 hm to 400 0 hm or lower as long as the fence load remains after a maximum 10 minutes an acoustical and optical alarm is triggered and the impulse interval prolongs to one impulse per 3 seconds. Therefore horiSMART energisers work safely and reliably under unfavourable conditions.







MADE IN GERMANY

horiSMART[®] 230 Volt und 12 Volt (turbo with horimax)

Suitable for stubborn and unsensitive animals

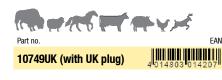
horiSMART[®] N280

- Mains energiser, 25J Input, 14J max. Output
- For fences up to 85km with no load and 25 km with heavy load

Part no. FAN 10748UK (with UK plug)

Dual energiser horiSMART® AN160

- Mains- / battery operated, 12J Input, 8J max. Output
- For fences up to 45km with no load and 14km with heavy load
- Battery control indication
- Combination equipment (12 / 230V)
- Included in delivery:
- · Connection cable for 12V battery



Advantage dual-use:

Energiser can be operated with 230 Volts mains power and in case of a power cut it will be operated by an additional connected 12 Volt battery without interruption.

Recommended solar panel	1–2 x 50 Watt Part no. 14873 (see p. 51)
Recommended battery \geq approx. operating time	230 Ah Part no. 25012B (see p. 72) up to 153 – 287 hours (= approx. 6.4 – 12 days)*
Big battery box	Part no. 21264 (see p. 72)





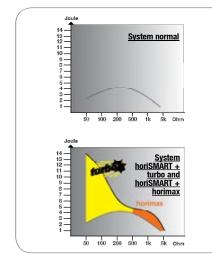


Connection cable for 12V battery

Four level accumulator control

Hint!

Special deep discharge switch off provides more information about deep discharge protection. Your battery will fully discharge but does not switch off the energiser prematurely. Please read also notice on p. 71



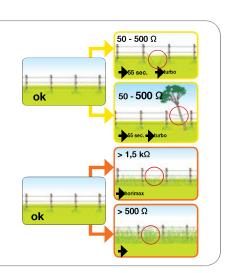


For fence loads under 500 Ohm get a second impulse to the basic impulse.

When fence load is removed energy gets higher, in accordance with Norm Specifications (EN 60335-2-76).

horimax:

For fence loads> = 500 Ohm the horiSMART[®] energisers N280, N220, N160 and AN 160 are using horimax-technology. This very high energy potential is available over a wide fence load range.



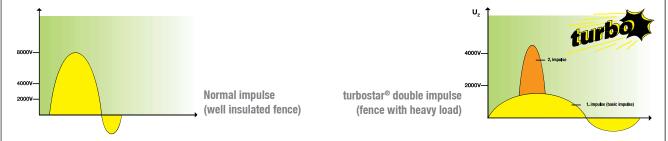
	230V	12V			INPUT	OUTPUT	_4	m 4							+	
10748UK horiSMART® N280	✓	_	\checkmark	\checkmark	25J	14J	12000V	4600V	35W	320km	85km	40km	25km	30x50m	5x1.5m	-
10746UK horiSMART® N160	√	√	\checkmark	\checkmark	12J	8J	12000V	4400V	500- 1200mA	180km	45km	21km	14km	17x50m	3x1.5m	50W

* Figures based upon mathematical calculations assuming optimal conditions.

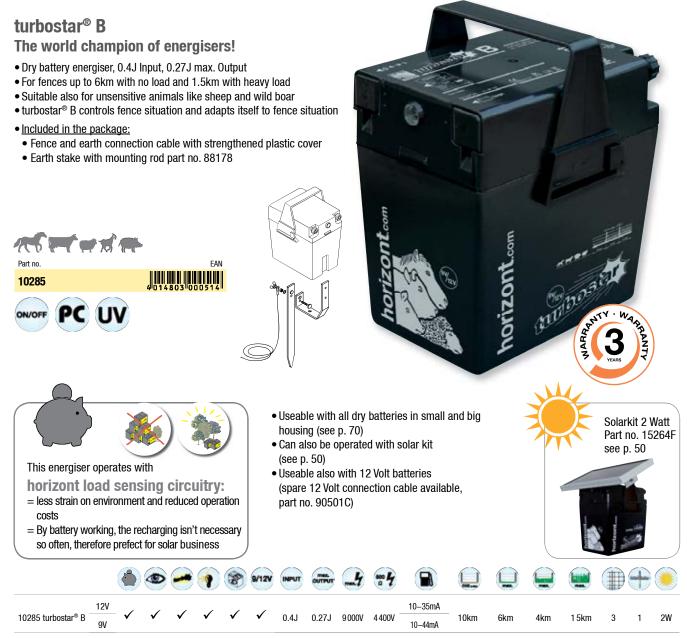
Explanation of symbols for features of the energiser please find at folder.

turbostar[®] B Unique turbo effect, significant increase in effective electric fencing

Due to the unique turbo effect it will always give a second impulse when the fence is badly insulated or in heavily weeded situations. Even on dry ground the turbo effect offers significantly higher performance.



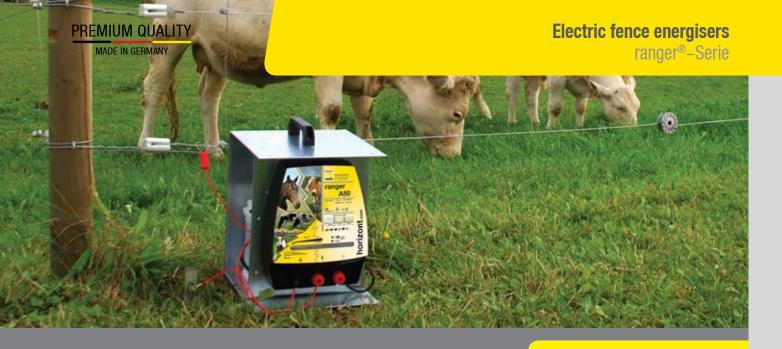
Those who choose the turbostar[®] energiser B once will never use any other energiser! Due to its double impulse and its load sensing circuitry this energiser is the best choice for dry ground, vegetation growth and long fences. Very often this energiser is used for deterring wild predators or for sheep keeping. Even at 500 0hm resistance turbostar[®] B reaches more than 4 000 Volts, the best performance for a 9 Volt dry battery energiser.



* Figures based upon mathematical calculations assuming optimal conditions.

20

Explanation of symbols for features of the energiser please find at folder.



Allrounder:

The ranger[®] energisers are specially designed for dry ground conditions. The AN energisers reach very high output voltages, offering high security.



ranger[®]



For dry ground

The ranger $^{\otimes}$ series is ideally suited for dry ground conditions. This feature ensures the best performance, especially in very dry summer periods.

Effective & gentle

Due to the wide impulse shape, the energy develops effectively and gently on the fence system!

Intelligent »eco-system«

The ranger[®] 9 and 12 Volt energisers **> pg. 26** are intelligent electric energisers offering very high performance. The intelligent »eco-system« and the horizont current saving circuit automatically adapt the output power to the fence condition.

Dual energiser

The ranger[®] AN energisers can be operated simultaneously on the 230 Volts mains together with a 12 Volt battery. The energiser operates from the 230 Volts mains and switches over to the 12 Volt backup supply automatically if the 230 Volts supply fails. The 12 Volt battery is trickle charged by the mains connection.

Situationally adjustable

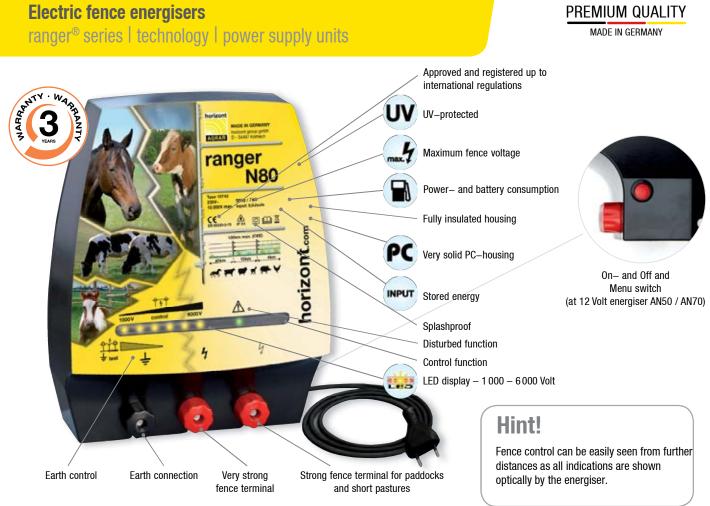
Due to the 6 modes of the ranger $^{\otimes}$ AN energisers, the energiser functions can be adapted to the prevailing fence conditions.

Fence status display

Argutektor - indicates the fence status and the fence insulation. Unwanted dissipation from the fence is indicated by this function. The efficiency of the actual current saving of the current saving circuit can also be derived.

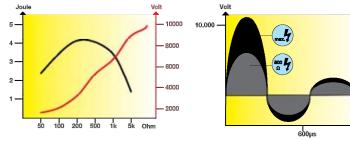
Chapter	Page
ranger [®] series I Technology	22
230v ranger [®] series I Mains energiser	22
230V 12V ranger [®] series I Dual energiser	23 - 25
9/12V ranger® series I Battery energiser	26





All-weather energiser – suitable also for dry ground

Ranger energisers have 3 terminals - a terminal for earth connection, one terminal for normal fences and one additional terminal for a small additional fence or a paddock. Power at the second fence terminal is always limited to non dangerous 0.5 joules or less. Ideal for use for fences near to domestic buildings as offers a high degree of saftey when children are in the vicinity.



- Strong powered all-weather energiser for various use and for dry ground
- Wide impulse form allows energy to develop its power effectively into fence system
- At high resistance values i.g. long haired animals and dry ground this wide form of impulse is most suitable

FAN

100km

60km

7W

5W

40km

20km

10km

5km

4km

2km

Suitable for all kind of animals

ranger[®] N80

10742UK (with UK plug)

10742UK ranger® N80

10608UK ranger® N40

17-6

Part no

22

- Mains operated energiser, 6J Input, 4.2J max. Output
- For fences up to 40km with no load and 4km with heavy load

ranger[®] N40

10608UK (with UK plug)

5600V

5400V

Part no

FAN

4.2J

2.4J

6J

3.5J

10500V

11800V

- Mains operated energiser, 3.5J Input, 2.4J max. Output
- . For fences up to 20km with no load and 2km with heavy load

range N40

~ * Figures based upon mathematical calculations assuming optimal conditions.

10 000V

9000V

16x50m

4x1.5m

2x1.5m

¹²x50m Explanation of symbols for features of the energiser please find at folder.

MADE IN GERMANY

6 MODI:

1. NORMAL:	Normal impulse sequence		
2. SMART:	Normal impulse sequence, output energy is set to 60% of the max. energy. Automatic regulation by the energiser with load charging at the fence, APN [×]		
3. DAY MODE:	Normal impulse sequence at day, slow impulse sequence at night, APN [×]		
4. NIGHT MODE:	Normal impulse sequence at night, slow impulse sequence at day, APN [×]		
5. SLOW MODE:	Slow impulse sequence at day and night, APN ^x		
6. ONLY NIGHT MODE:	Normal impulse sequence at night, no impulse at day, $\ensuremath{APN^x}$		
× APN: only with SMS control (see p. 14–15)			

Advantage: Dual energiser

The new dual fencers AN50 and AN70 are 12 Volt energisers. The connection for the 12 Volt battery is located on the inside of the unit, so that a 12 Volt battery can be connected. On the reverse of the energiser there is an additional connection plug for a mains adaptor. (Available as spare part with part no. 47PSU0010UK). With this mains adaptor the fencer can be operated with 230 Volt. With the connection of mains adapter 47PSU0010UK and a 12V battery the combi fencers can also operated in stand-by mode. In the event of 230 Volt mains failure, the fencer automatically operates from12 Volt.



- automatic regulation by the energiser with load changing at the fence

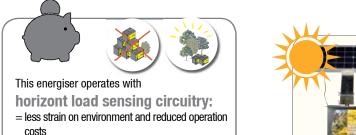
• Clear information display - easy to control from the distance • Fence tension display and Argutektor display with 6 LED's • Battery control display - 3 step display for detailed information

• Fence and earth connection cable with strengthened plastic cover

• Energy saving function - automatic regulation

APN = Output energy selectable by SMS (100% - 60%)

• Earthing control • Delivery contains:



= By battery working, the recharging isn't necessary so often, therefore prefect for solar business



ranger[®] AN70 Recommended solar panel Recommended batt \geq approx. operating Recommended

transport box

EAN

	1 x 50 Watt Part no. 14873 (see p. 51)
tery g time	100 Ah Part no. 14126 (see p. 72) up to 198 – 1052 hours (= approx. 8 – 43 days)*
	Part no. 14129 (see p. 76)



range

ranger[®] AN50

ranger[®] AN70

4.8J Output

10

Part no.

10857

0

with heavy load

• Battery- / Mains energiser, 6.5J Input,

. For fences up to 40km with no load and 10km

- Battery- / mains energiser, 4.5J Input, 3.0J Output
- · For fences up to 20km with no load and 2km with heavy load

Part no.	EAN
10858	4014803 108586
👁 🍈 UV	PC 👔

	ranger [®] AN50
Recommended solar panel	1 x 20 Watt Part no. 140641 (see p. 54)
Recommended battery \geq approx. operating time	100 Ah Part no. 14126 (see p. 72) up to 400 – 952 hours (= approx. 16 – 39 days)*
Recommended transport box	Part no. 14129 (see p. 76)



* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.

Electric fence energisers

ranger[®] series | dual energiser

PREMIUM QUALITY MADE IN GERMANY

Batteries up to 265 x 175 x 225mm can be placed in the box.

Advantage: Dual energiser

The new dual energiser AN3000 are 12 Volt energisers. The connection for the 12 Volt battery is located on the inside of the energiser, so that a 12 Volt battery can be connected. On the reverse of the energiser there is an additional connection plug for a mains adapter. (Available as spare part with part no. 47PSU0008FUK). With this mains adapter the energiser can be operated with 230 Volts. With the connection of mains adapter 47PSU0008FUK and 12 Volt battery the combi energiser can also be operated in stand-by mode. This means that in the event of 230 Volts mains interruption, the energiser is automatically operated from 12 Volt.



This energiser operates with horizont load sensing

circuitry:

- = less strain on environment and reduced operation costs
- = By battery working, the recharging isn't necessary so often, therefore prefect for solar business

r AN3000

6 Mode points:

1. NORMAL:	Normal impulse sequence, output energy adjustable at the rotary potentiometer from 50% of the output energy	Control Top view LED Potentiometer	
2. SMART:	Normal impulse sequence, APN*		
3. DAY MODE:	Normal impulse sequence at day, slow impulse sequence at night, APN*		
4. NIGHT MODE:	Normal impulse sequence at night, slow impulse sequence at day, APN*		
5. SLOW MODE:	Slow impulse sequence at day and night, APN*		
6. NIGHT-ONLY MODE:	Normal impulse sequence at night, no impulse at day, \ensuremath{APN}^\star		

*APN: Output energy selectable at the rotary potentiometer (100% – 50%) – automatic regulation by the energiser with load changing at the fence

- Handy transport box
- 12V battery is integrated in the energiser
- Battery is protected against weather conditions
- No contact with the battery when transporting





ranger[®] series | dual energiser

ranger[®] AN3000 /ranger[®] AN5000 / ranger[®] AN7000

- · Comfortable to carry carrying handle with soft grip inlay
- Fence tension display with 6 LED's
- Agrutektor display with 6 LED's shows when the energiser has a higher power consumption for maintaining the output
- Battery control display 3 step display for detailed information
- Energy saving function automatic regulation
- Solar charging controller with charging
- control display • Earthing control
- Housing can be secured with a padlock

· Package contains:

· Fence and earth connection cable with strengthened plastic cover

AS PT W B PY

Part no.		EAN
10854	AN3000	4014803 108548
10992	AN5000	4014803 108827
10993	AN7000	4014803 108834



For a compact application: ranger[®] AN7000 (battery in the housing) Recommended 1 x 20 Watt solar panel Part no. 141461 (see. p. 52) (solar panel at the housing)

Recommended battery \geq approx. operating time

85 Ah Part no. 14894 (see. p. 72) up to 188 - 1888 hours (= approx. 8 - 78 days)*

For a residential application: ranger[®] AN7000 (battery next to the housing) Recommended 1 x 50 Watt solar panel Part no. 14873 including (solar panel next to the bracket 14143 (see. p. 51) housing) Recommended battery 85 Ah ≥ approx. operating time

Part no. 14894 (see. p. 72) up to 188 – 1888 hours (= approx. 8 - 78 days)*



Recommended 1 x 20 Watt Part no. 141461 (see. p. 52) (solar panel at the fixture for solar modules Art.-Nr. 14462 (s. S. 55) Recommended battery 85 Ah ≥ approx. operating time

solar panel

housing)

Recommended

(solar panel at the housing) Recommended battery

 \geq approx. operating time

solar panel

Part no. 14894 (see. p. 72) up to 404 - 2125 hours (= approx. 16.8 - 88.5 days)*

ranger[®] AN5000

Part no. 140641 (see. p.52)

Part no. 14894 (see. p. 72) up to 309 - 1888 hours (= approx. 13 - 78 days)*

1 x 20 Watt

85 Ah







	230V	12V	9V	INPUT	CUTPUT	-4	- 4			max.				+	
10854 ranger [®] AN3000	\checkmark	\checkmark		2.6J	2.0J	14000V	4 500V	40-210mA	50km	15km	4.5km	1.7km	10x50m	2x1m	20W
			\checkmark	0.7J	0.5J	5600V	2 500V	40-85mA	14km	8km	3km	1km	-	2x1m	20W
10992 ranger [®] AN5000	✓	\checkmark		3.5J	3.0J	12000V	5 200V	45-275mA	100km	20km	5km	2km	12x50m	3x1m	20W
10992 Tanger ANSOOD			\checkmark	0.7J	0.5J	4600V	2 000V	40-85mA	12km	7,5km	2.7km	0.8km	-	1x1m	20W
10993 ranger® AN7000	\checkmark	\checkmark		5.7J	4.8J	15000V	6 000V	45-450mA	130km	40km	20km	10km	14x50m	5x1m	50W
			\checkmark	0.7J	0.5J	4600V	2 000V	40-85mA	12km	7km	2.5km	0.7km	_	1x1m	50W

* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.

Electric fence energisers

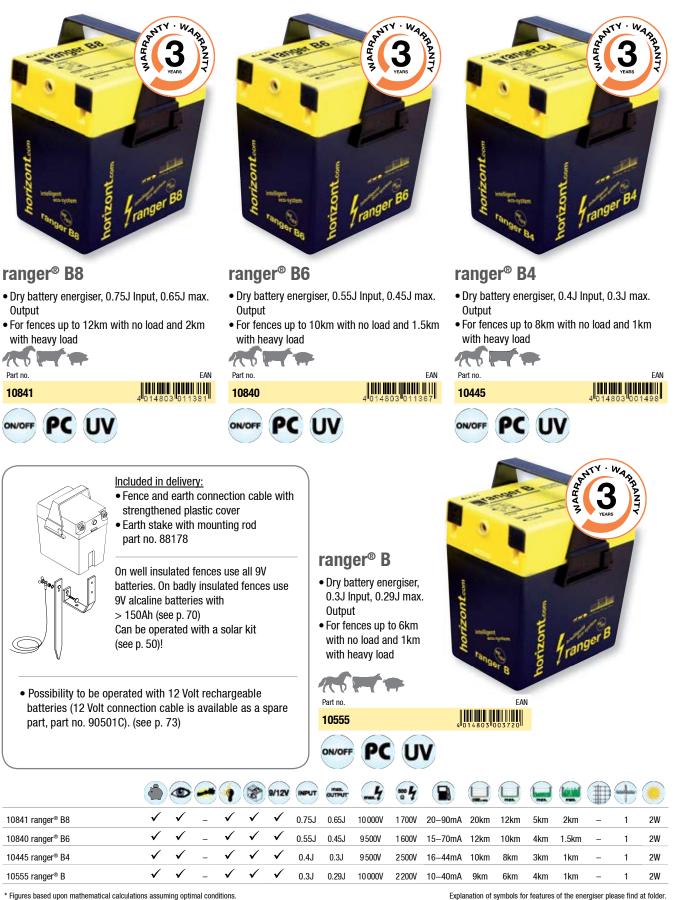
ranger[®] series | dual energiser

PREMIUM QUALITY

MADE IN GERMANY

ranger[®] B8, B6 and B4 are intelligent energisers with very high performance.

The intelligent eco-system and the horizont energy saving circuitry adjust the output power to the fence condition automatically. Power consumption is therfore reduced. The energy saved with each impulse could be used for the next impulse, if required. High efficiency electric fencing can therefore be achieved. The ranger® B electric fencing range is suitable for multifaceted applications and on dry ground. The electric fencing range of ranger[®] B works safety and effectively.



26

Explanation of symbols for features of the energiser please find at folder



Professional energisers for sheep, poultry, wolves and wild animals: The energisers of the hotSHOCK[®] series prove effective under particularly difficult conditions such as with sheep nets or wild animal defence fences in dense vegetation. The impulse form is designed especially for these difficult conditions.









Ideal for long-haired, feathered and robust animals Animals such as these are difficult to keep as their bodies are protected from the impulse by feathers, wool or thick bristles. The high voltage of the hotSHOCK[®] energiser is needed to reliably deter the animals.

High output energy

The energisers of the hotSHOCK[®] series have maximum output energy under dense vegetation conditions on the fence system. Those are common vegetation conditions for sheep knotted meshes or a wild animal fences.

3 connections

The hotSHOCK[®] energisers always have 3 terminals. In addition to the output for earth, there are two fence outputs, one for the normal fence and another one for a small additional fence or a paddock.

The power at the second fence output is always limited to a safe level of less than 1 Joule. This achieves high safety e.g. for example for children playing nearby which is particularly important for fence systems set up near to the house.

Chapter	Page
hotSHOCK [®] series I Technology	28
230V	
hotSHOCK [®] series	29
Mains energiser	
12V	
hotSHOCK [®] series	29
Rechargeable Battery energiser	
9/12V	30
hotSHOCK® series I Battery energiser	

Electric fence energisers

hotSHOCK[®] series | technology | power supply units

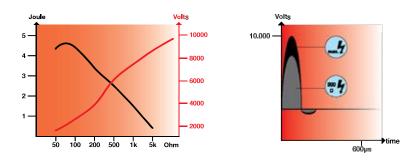
PREMIUM QUALITY

MADE IN GERMANY



Special energiser for the containment of sheep, poultry, the exclusion of wild predators and special applications

hotSHOCK[®] energiser in large housings (N50, A50) always have 3 terminals. In addition to the output for earth, there are two fence outputs, one for the normal fence and another one for a small additional fence or a paddock.



• Special energiser with high output energies at extremely low resistance

• A narrow impulse form allows energy to develop its power aggressively onto the fence system.

This allows energy transport also at difficult conditions i.e. with heavy load when excluding wild predators or power loss with sheep netting where the low horizontal lines are often in contact with vegetation growth.

• The high voltages enable effective, secure containment of long haired and unsensitive animals.

PREMIUM QUALITY

MADE IN GERMANY

Electric fence energisers battery energiser | hotSHOCK® series

hotSHOCK[®] N50

- Mains operated energiser, 6.0J Input, 5.0J max. Output
- For fences up to 40km with no load and 10km with heavy load
- With function control lamp and 6-level LED indication bar

FAN

MAY MA SAM

Part no.

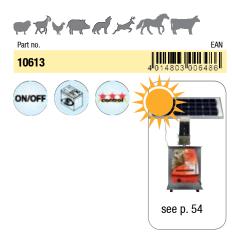
10614UK (with UK plug)





hotSHOCK[®] A50

- Mains operated energiser, 4.2J Input, 3.0J max. Output
- For fences up to 30km with no load and 8km with heavy load



•	included	in the	package	
	• Fonoo	and aar	th connoc	.+

 Fence and earth connection cable with strengthened plastic cover

Recommended solar panel	1 x 20 Watt Part no. 140641 (see p. 52)
Recommended battery \geq approx. operating time	100 Ah Part no. 14126 (see p. 72) up tp 200 hours (= approx 8 days)*
Recommended transport box	Part no. 14129 (see p. 76)

Hi nt! More information about discharge protection please find at page 71

Also available: (10613GPSD see p. 14) **5MS**





hotSHOCK® A15

Ç,

S

- Mains operated energiser, 1.6J Input, 1.0J max. Output
- For fences up to 8km with no load and 1.2km with heavy load

er to y et al	151001
Part no.	EAN
10638	4014803 106384

• Included in the package

• Fence and earth connection cable with strengthened plastic cover

1 x 10 Watt Part no. 14063 (see p. 53)
88 Ah Part no. 14125 (see p. 72) up to 490 hours (= approx. 20,5 days)*
Part no. 14129 (see p. 76)



_	230V	12V	INPUT	OUTPUT	max	500 4	-1		CEE					+	
10614 hotSHOCK® N50	\checkmark	-	6J	5.0J**	9 000V	6 400V	8.000V	9W	120km	40km	20km	10km	16x50m	3x1.5m	-
10613 hotSHOCK® A50	-	\checkmark	4.2J	3.0J	12000V	6 000V	10.000V	500mA	80km	30km	15km	8km	14x50m	3x1m	20W
10638 hotSHOCK® A15	-	\checkmark	1.6J	0.9J	10600V	4100V	-	90mA	30km	8km	3.5km	1.2km	6x50m	1x1.1m	10W

* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.

Electric fence energisers

hotSHOCK[®] serie | battery unit



hotSHOCK® ABN5

- Battery energiser, 0.5J Input, 0.37J Output
- . For fences up to 6km with no load and 1,1km with heavy load
- 3-phase battery indicator light
- For use with 9 Volt dry battery, 12 Volt super vlies special battery and 230 Volts mains energy
- Inbuilt solar charge regulator easy recharging from super vlies special batteries
- Dual energiser: Energiser can be used on 12 Volt battery and 230 Volts mains at the same time. The energiser operates from the 230 Volts mains and switches over to the 12 Volt backup supply automatically if the 230 Volts supply fails. The 12 Volt battery is trickle charged by the mains connection.
- Included in the package:
- Fence and earth connection cable with strengthened plastic cover
- · Earth stake with mounting rod







hotSHOCK ABN5

Recommended	170 Ah
Recommended Super–Vlies–special battery ≥ approx. operating time	34 Ah Part no. 14501 (see pg. 73) up to 971 hours (= approx. 40 days)*
Recommended solar panel	1 x 5 Watt Part no. 14499 (see pg. 49)

Dry battery Part no. 12012 (see pg. 70) ≥ approx. operating time up to 3617 hours (= approx. 150 days)

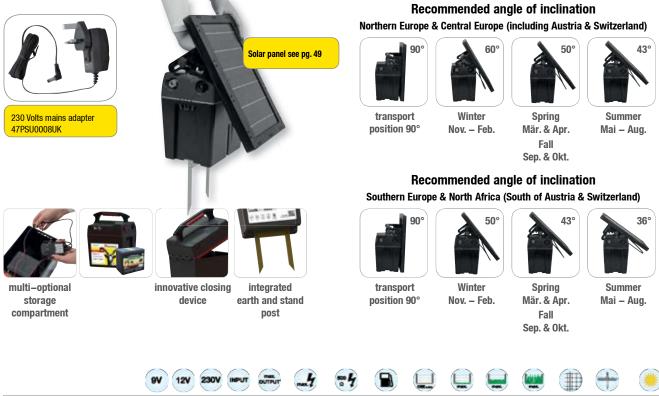
FAN

- Brand new housing and new electronics Case accomodates rechargeable batteries
- with a capacity up to 34 Ah and dry batteries up to 200 Ah

PREMIUM QUALITY

MADE IN GERMANY

- · Retaining plate for different sized batteries, rechargeable battery housing and plug-in power supply when not in use
- Access through simple one handed operation
- Carrying comfort due to soft grip insert in carrying handle
- · Cable routing to avoid pinched cables
- · Easy monitoring of functions via LEDs Solar support in tandem with 9 Volt dry
- batteries enabled Automatic transfer from solar supply during the day to battery operation at night
- Solar support with 12 Volt accumulators enabled - charging of the battery during sunlight and operation at night from the charged battery - automatic transfer
- 230 Volts mains adapter optionally available 5 and 10 watt solar panel optionally available
- · Solar panel is easy to retrofit
- · Solar panel can be adjusted at four angles to the sun (36°/43°/50°/60°)



10892 hotSHOCK® ABN5	✓ ✓	- 🗸	0.5J	0.37J	12500V	3800V	47mA 35mA	10km	6km	4km	1.1km	3x50km	1x1m	5 Watt



Allrounder:

The farmer[®] energisers are especially designed for dry ground conditions. The AN energisers reach very high output voltages that offer high security.





For dry ground

The farmer[®] series is ideally suitable for dry ground. This feature ensures excellent performance, especially in very dry summer periods.

Effective & gentle

Due to the wide impulse shape, the energy is delivered effectively and gently onto the fence system!

Current saving circuit

The farmer[®] AN15, AN25 and AS70 energisers > pg. 32 are intelligent energisers with very high performances. The horizont current saving circuit automatically adapts the output power to the fence condition.

Dual energisers

The farmer[®] AN energisers can be operated simultaneously on the 230 Volts mains together with a 12 Volt battery. The energiser operates from the 230 Volts mains and switches over to the 12 Volt backup supply automatically if the 230 Volts supply fails. The 12 Volt battery is trickle charged by the mains connection.

Battery indicator

The voltage of the 12 Volt battery is displayed in 3 stages on the AN dual energiser and AS solar energiser. The stages give the optimum information about the battery condition.

Chapter	Page
farmer [®] series I Technology	32
230V farmer [®] series I Mains energiser	33
230V 12V farmer® series I Dual energiser	33, 34, 35
9/12V farmer® series I Battery energiser	35
farmer [®] series I Solar energiser	36



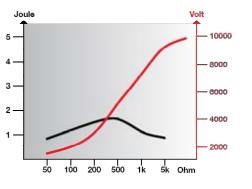
farmer[®] series | technology

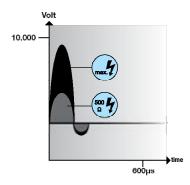
MADE IN GERMANY



All-weather energiser in a small compact housing

Our all-weather energiser farmer® in a compact
housing have output energies up to 2.5 Joules
and voltage up to 10 000 Volts. The combined
energiser AN15 and AN25 work with 12 Volt and
can also be operated with 230 Volt by using a
separate mains adaptor.53





- · Compact all-weather energiser for various use in a compact housing
- Output energy is available for a big area of resistance values, because of this it is universaly applicable
- High voltages guarantee secure guarding





* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.

farmer[®] series | Dual energiser

PREMIUM QUALITY

MADE IN GERMANY

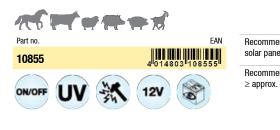
1

Batteries up to 265 x 175 x 225mm can be

placed in the box.

farmer[®] AN1000

- Comfortable to carry carrying handle with soft grip inlay
- Battery control display 3 step display for detailed information
- Solar charging controller in the housing with 6.3mm flat connectors
- \bullet Housing can be closed with a padlock and also be secured
- Package contains:
 - Fence and earth connection cable with strengthened plastic cover



ended el	1 x 10 Watt Part no. 140631 (see p. 53)	0	
ended battery operating time	85 Ah Part no. 14894 up to 944 hours (= approx. 39 days) * see. p. 72	Y · WARANT AND THE STATE	

- Handy transport box
- 12V battery is integrated in the energiser
- Battery is protected against weather influences
- No contact with the battery when transporting

farmer® AN1000 with 10 Watt solar module

- Big solar module
- The solar module can be folded to the side, for an easy carrying
- Package contains:
- Fence and earth connection cable with strengthened plastic cover



Advantage: Dual energiser

The new dual farmer AN1000 are 12 Volt energisers that can accomodate a full size 12 Volt battery inside the case. It also features an additional connection plug for a mains adaptor on the reverse of the energiser. (Available as spare part with part no. 47PSU0008FUK).

With the mains adaptor the energiser can be operated with 230 Volts. With the connection of mains adaptor 47PSU0008FUK and 12 Volt battery. The combi energiser can also be operated in back–up mode, so if 230 Volts mains supply is interupted, the energiser is automatically operated by 12 Volt.





	97	12/2200	INPUT	OUTPUT	4	500 4							+	
		\checkmark	1.4J	1.0J	11 000V	4800V	90mA	40km	10km	3.5km	1.2km	5x50m	1x1m	10W
10855 farmer [®] AN1000	\checkmark		0.7J	0.5J	7 000V	3200V	70mA	13km	8km	3km	1km	-	1x1m	10W
10856 farmer [®] AN1000 Solar		\checkmark	1.4J	1.0J	11000V	4800V	90mA	40km	10km	3.5km	1.2km	5x50m	1x1m	-

* Figures based upon mathematical calculations assuming optimal conditions.

34

Explanation of symbols for features of the energiser please find at folder.

Electric fence energisers battery units | farmer[®] series

farmer[®] ABN4

- Battery energiser, 0.4J Input, 0.3J Output
- . For fences up to 5.5 km with no load and 0.9km with heavy load
- With load sensing circuitry energiser output and energy consumption adapts automatically to the fence condition
- 3-phase battery indicator light
- Can be used with with 9 Volt dry battery, 12 Volt super vlies special battery and 230 Volts mains energy
- With inbuild solar charge regulator easy recharging from super vlies special batteries
- Dual energiser: Energiser can be used on 12 Volt battery and 230 Volts mains at the same time. Primarily the energiser is running on 230 Volts and is charging the 12 Volt battery. If the 230 Volts mains supply fails, the energiser automatically operates with 12 Volt battery
- Included in delivery:
- · Fence and earth connection cable with strengthened plastic cover
- · Earth stake with mounting rod





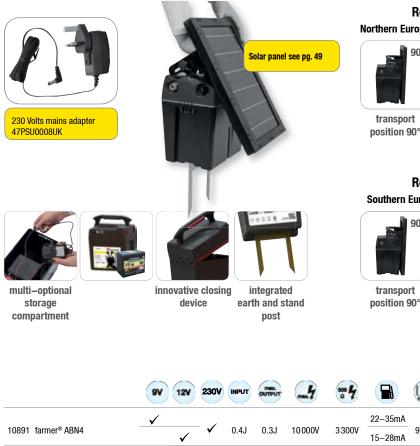
farmer ABN4

Recommended solar panel	1 x 5 Watt Part no. 14499 (see pg. 49)
Recommended	34 Ah
Super–Vlies–special	Part no. 14501 (see pg. 73)
battery	2266 – 1214 Stunden
≥ approx. operating time	(= approx. 94 – 50 days)*
Recommended	170 Ah
Dry battery	Part no. 12012 (see no. 70)

Part no. 12012 (see pg. 70) ≥ approx. operating time 7727 - 4857 hours (= approx. 321 - 202 days)*



- · Brand new housing and new electronics
- Case accomodates rechargeable batteries with a capacity up to 34 Ah and dry batteries up to 200 Ah
- Retaining plate for different sized batteries, rechargeable battery housing and plug-in power supply when not in use
- · Access through simple one handed operation
- · Carrying comfort due to soft grip insert in carrving handle
- Cable routing to avoid pinched cables
- · Easy monitoring of functions via LEDs
- Solar support in tandem with 9 Volt dry batteries enabled - Automatic transfer from solar supply during the day to battery operation at night
- Solar support with 12 Volt accumulators enabled - charging of the battery during sunlight and operation at night from the charged battery - automatic transfer
- 230 Volts mains adapter optionally available
- 5 and 10 watt solar panel optionally available
- · Solar panel is easy to retrofit
- Solar panel can be adjusted at four angles to the sun (36°/43°/50°/60°)



Recommended angle of inclination Northern Europe & Central Europe (including Austria & Switzerland)









Summer Mai – Aug.

Spring Mär. & Apr. Fall Sep. & Okt.

Recommended angle of inclination Southern Europe & North Africa (South of Austria & Switzerland)





Winter

Nov. - Feb.

Winter

Nov. – Feb.





Summer Mai – Aug.

Sep. & Okt.

Spring

Mär. & Apr. Fall





* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.

Electric fence energisers

farmer[®] series | solar energiser





farmer[®] AS70

Environmentally friendly use of the sun energy!

- Compact solar energiser with integrated 12V / 12Ah battery
- Three step battery control display
- With automatic solar charging controller
- 230V charger for keeping up the charge of the integrated 12V battery
- Compact single unit energiser and solar module
- Integrated mount for earth post on the case
- Robust plastic solar panel
- Energy saving function automatic regulation Package includes:
- Fence and earth connection cable with strengthened plastic cover
- 230V mains plug for battery charging*







Integrated solar panel

36

Integrated fitting for the earth stake



Integrated 12 Volt battery



Hint!

Charge before use

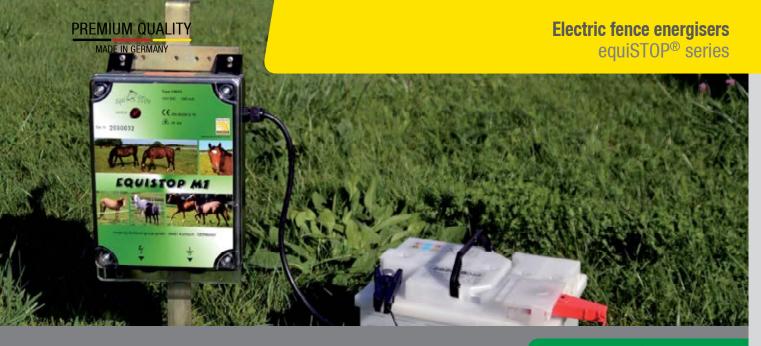
Mains power socket 230 Volt* Integrated handle





* Figures based upon mathematical calculations assuming optimal conditions.





All-round energisers for horse fencing. Our equiSTOP[®] range is especially developed for the fencing of horses which are sensitive to electricity.





Ideal for the fencing of horses

The energisers of our equiSTOP® range are especially designed for horse fences where conducting matieral is situated at a greater distance from the ground. With this type of fence the conducting material is generally free of vegetation.

Fence energy becomes important when used in conjunction with short-haired horses as they are more susceptible to the impulse.

Adequate energy output

The energy output is adapted for the most common aplications and paddock sizes or horse fencing.

Easy handling

With an emphasis on ease of use, all energisers are equipped with a simple control function display.

Can be operated with solar energy

The rechargeable battery energiser and the 9V energiser can be operated with solar energy if used in conjunction with a solar panel.

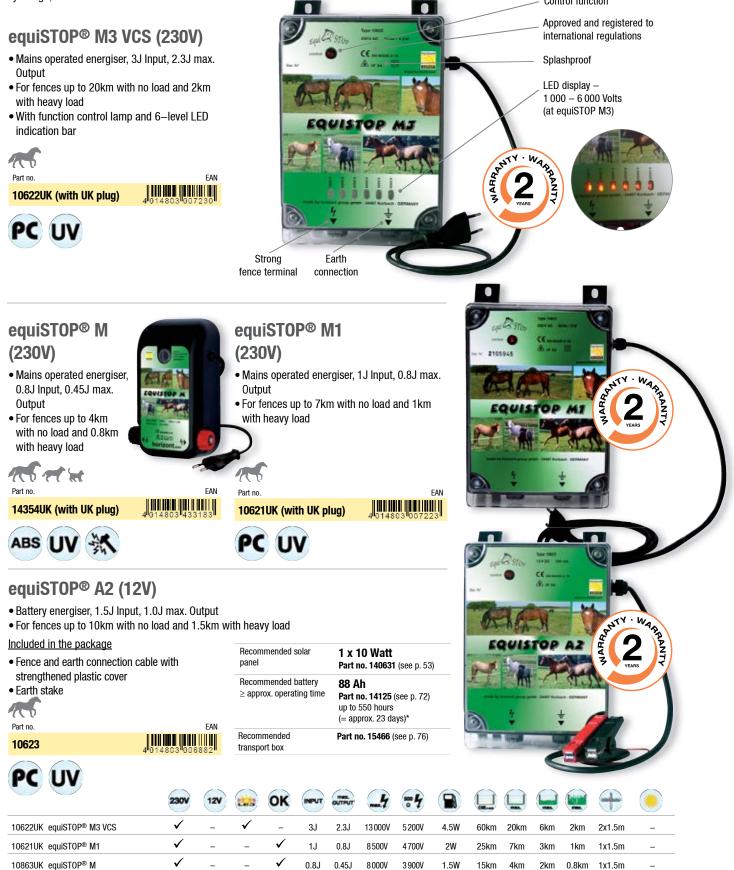
Chapter	Page
2301	38
equiSTOP® series I Mains energiser	
12V equiSTOP® series I Rechargeable battery energiser	38
9/12V equiSTOP® series I Battery energiser	39



MADE IN GERMANY

equiSTOP® energiser for horses

horizont has developed the equistop range specifically with horse owners in mind. Within the range there are two mains operated energisers, one 12 Volt energiser and two 9 Volt dry battery energisers. They are simple and easy to handle, especially for those who are new to electric fencing, and they offer an excellent price / performance balance. All energisers feature attractive animal symbols on the housings and are, by design, secure for the use with horses.



10623 equiSTOP® A2

38

* Figures based upon mathematical calculations assuming optimal conditions.

√

 \checkmark

1.3J

0.9J

10000V

4000V

90mA

30km

10km

Explanation of symbols for features of the energiser please find at folder.

1.5km

1x1m

4km

10W



MADE IN GERMANY

Electric fence energisers battery units | equiSTOP® series



	6V	9/12V	OK	INPUT	OUTPUT		a 7						-		
10620 10624 equiSTOP® B2	-	\checkmark	\checkmark	0.3J	0.2J	9 00 0V	2200V	12V – 25mA 9V – 35mA	8km	5km	3.5km	0.8km	1	2W	-
10619 equiSTOP® B1	-	\checkmark	\checkmark	0.18J	0.12J	8600V	1 500V	12V – 15mA 9V – 22mA	4km	3km	1km	0.3km	1	2W	

* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.

Electric fence energisers

CAMOUFLAGE series I rechargeable battery energiser







Camouflaged energiser: The inconspicuous CAMOUFLAGE energisers blend in with the environment helping to prevent theft!

Camouflage

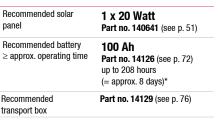
- Battery powered energiser, 4.8J Input, 2.8J max. Output
- For fences without vegetation up to 70km and 6km with high vegetation

Included in the package:

• Fence and earth connection cable with strengthened plastic cover











* Figures based upon mathematical calculations assuming optimal conditions.

horizont

12V



Compact energiser: trapper[®] units are compact, robust, multi purpose, entry level energisers .

PREMIUM QUALITY





Combi-energisers

The trapper $^{\otimes}$ AN energisers can be operated from either 230 Volt or 12 Volt. All connections for both 230V and 12V operation are included with the product

Compact housing

The trapper $\ensuremath{\textcircled{B}}$ AN and N energisers have a slim, robust housing ensuring a long–lasting energiser which is easy to install.

Complete solar package

The trapper $^{\circledast}$ AS energisers are fully-integrated solar energisers packaged complete with 12 Volt battery and mains adaptor for recharging the battery.

Battery indicator

The level of battery charge is indicated in 3 stages on the trapper $\ensuremath{^{\textcircled{B}}}\xspace$ AS energisers, offering information about the battery condition.

Solar charge control

The trapper[®] AS energisers are equipped with an automatic solar charge control ensuring the battery is optimally charged

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2301	42
trapper [®] series I Mains energiser	72
2300 9/120	42
trapper [®] series I Combi energiser	
<u>()</u>	43
trapper [®] series I Solar energiser	
9/12V trapper [®] series I Battery energiser	43
uapper selles i Dallery elleryiser	



DIK 0 trapper AN24 norizon 4 DIO

Strong fence terminal

Earth connection

trapper[®] AN24

- Dual energiser, 2.4J Input, 1.2J max. Output
- For fences up to 12km with no load and 1.5km with heavy load
- Function control

Part no

- Included in delivery: 12V connection cable,
- 230V line adaptor, fence and earth connection

Handy	y combined	energiser	for 12	Volt /	/ 230 Vo	It operation	
trapper [®]	combined energiser	s can be operated					

from either 230 Volt or 12 Volt. They are the perfect starter energiser for protecting sensitive animals.

- Connector for 12V or 230V
- Approved and registered to international regulations

Shplashproof

Compact housing (19 x 8 x 5cm)



Saftey hint ! While operating with 230 Volt mains power, energiser and mains adapter should be installed in a dry, weatherproof building.

Included in the package: 12V connection cable, 230V line adaptor, fence and earth connection

trapper[®] AN12

- Dual energiser, 1.2J Input, 0.8J max. Output
- For fences up to 8km with no load and 1.2km with heavy load
- Function control
- Included in delivery: 12V connection cable, 230V line adaptor, fence and earth connection

trapper[®] AN8

- Dual energiser, 0.8J Input, 0.45J max. Output
- For fences up to 4km with no load and 0.8km
- with heavy load • Function control
- Included in delivery: 12V connection cable, 230V line adaptor, fence and earth connection

FAN

FAN Part no FAN Part no 10865UK 10866UK 10867UK



* Figures based upon mathematical calculations assuming optimal conditions.

10866UK trapper® AN12

10867UK trapper® AN8

10864UK trapper® N8

42



~

0.8J

0.45J

0.45J

0.8J

8400V

7900V

8000V

3600V

3 300V

3900V

90mA

50mA

1.5W

12km

8km

15km

8km

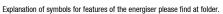
4km

4km

3.5km

2km

2km



4x50m

2x50m

3x50m

2x1m

1x1m

1x1m

1.2km

0.8km

0.8km

PREMIUM QUALITY

Advantage: 2 in 1

trapper[®] combined energiser - trapper[®] AN8,

AN12 and AN24 operate from either a 12 Volt

battery or 230 Volt mains power.

MADE IN GERMANY

Included in delivery!



trapper[®] AS

Environmentally friendly use of the sun energy!

- Compact solar energiser with integrated 12V battery
- Three step battery control display
- With automatic solar charging controller
- 230V charger for keeping up the charge of the integrated 12V battery*
- Compact single unit energiser and solar module
- Integrated mount for earth post in the housing
- Robust plastic solar panel
- Energy saving function automatic regulation

Package inludes:

- · Fence and earth connection cable with strengthened plastic cover
- 230V mains adaptor for battery charging

UV

πυπ		
Part no.	Product	E
14981UK	trapper AS 20	4014803 446770
14982UK	trapper AS 35	4014803 446787
14983UK	trapper AS 70	4014803 446794





Integrated solar panel



FAN

Integrated fitting for the earth stake



Integrated 12 Volt battery



Mains power socket 230 Volt*

HINT!

Charge before use



Integrated handle

	AKKU	INPUT	OUTPUT		500 F		Ļ				+	
14983 trapper® AS 70	12V / 12Ah	0.65J	0.50J	11000V	3600V	50mA	18km	16km	4.2km	1.6km	1x1m	10W
14982 trapper® AS 35	12V / 7Ah	0.33J	0.25J	9000V	3 000V	26mA	8.5km	5.0km	3.6km	0.9km	1x1m	5W
14981 trapper® AS 20	12V / 7Ah	0.18J	0.15J	7 500V	2 500V	17mA	3.7km	2.8km	0.9km	0.3km	1x1m	2W

* Figures based upon mathematical calculations assuming optimal conditions.

Explanation of symbols for features of the energiser please find at folder.



MADE IN GERMANY





hobbygard® N (230 Volts)

- Ideal for use with netting to protect flower beds and vegetable gardens from rabbits (see p. 152)
- Ideal for deterring foxes with poultry netting or with fence tape (see p. 150)
- · Included in package:
- · Earth post
- Fence and earth connection leads each 3m long

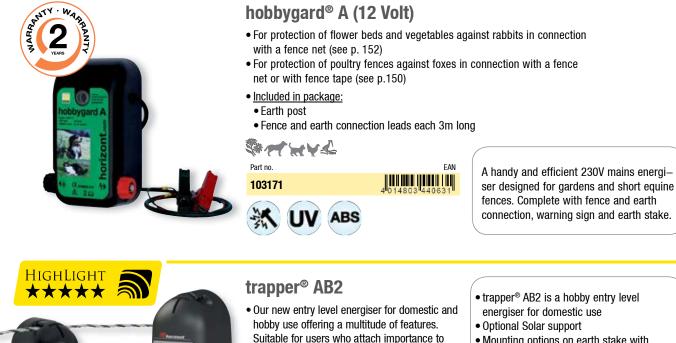
ABS

104271UK (with UK plug)

Part no.



A handy and efficient 230V mains energiser designed for gardens and short equine



safety and quality made by horizont.

Power supply by 6V and 12V possible

0.5km with medium load • On / off switch with pulse control Two different operating modes: slow and

normal pulse repetition

• Battery energiser, 0.18J Input, 0.22J Output

. For fences up to 1.5 km with no load and

• Mounting options on earth stake with pointwith earthing connection or post/wall hanging with srews

Also hangs on the fence line

• Included in package:

- Earth post
- · Fence and earth connection leads each 3m long
- Battery holder for 4 x 1.5V
- Battery connection for an external 12V-battery



* Figures based upon mathematical calculations assuming optimal conditions.

6.2

Explanation of symbols for features of the energiser please find at folder.

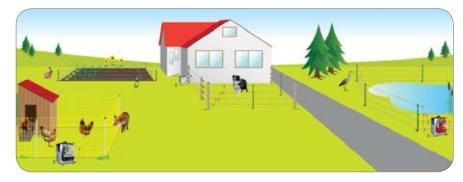


Electric fence for dogs, cats and other small animals

Electronic protection fences are designed to protect:

- Lawns and flower beds
- both contain and deter animals

Hobbygard products are an especially developed electronic fence system which is absolutely safe for humans and animals.



hobbygard N-Set (230 Volts)

This kit contains

- 230V mains energiser hobbygard[®] N, incl. earth and fence connection cable
- Earth spike and warning sign
- 100m spool of 8mm green polytape
- 1 tape connector
- 10 green polyposts each with a total length of 75cm above ground
- 10m insulated cable
- Earth and fence connection cable, per 3 meters





50m electrified poultry netting kit

Electrified poultry netting provides a low visibility, effective detterant against most predators. Easily moved, stored and re-erected, the poultry kit can be powered by mains (230V) or from 12V battery.

Consists of:

- trapper AN12 electric fence energiser complete with connection cable to 230V and 12V, earth and fence connection cable
- 50m 110cm (h) green netting with posts, guy ropes, pegs and repair kit

FAN

- 4 rigid double spike corner posts
- Earth stake
- Warning sign

\$~~~~~~~~

14428UK

Part no





Please also pay attention to our poultry netting gate (see page 145–154) ! special mains energiser

PREMIUM QUALITY

MADE IN GERMANY

stallmaster

- Especially developed circuity where the output values are designed for stable applications (cow trainer)
- When there is a longer animal contact or a bypass in the system, the energiser shuts off after 4 - 5 impulses. The energiser resets if the power plug is pulled out of the electrical socket and then re-connected.



FΔN



scout N2 pigeon

- A special energiser for specific use in deterring pigeons
- · Undisturbed operating energisers for buildings
- Radio controlled very strong







Approved by Federal Office of veterinarian nature (BVET)





Complete solution for protection against pigeons

The problem:



The solution:

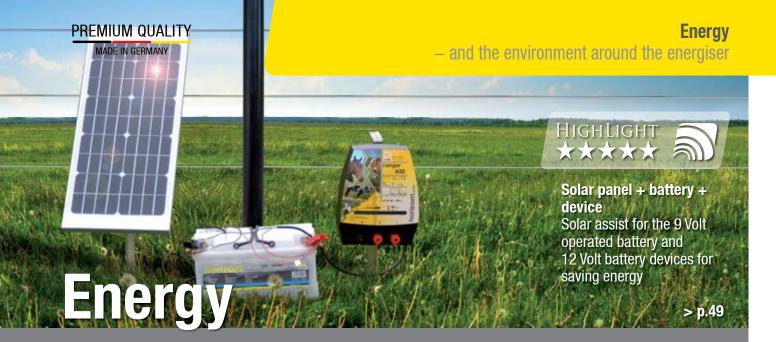


There are a number of reasons to keep pigeons away from houses and buildings. Pigeons carry disease causing agents which cause infection through dust and bacteria present in droppings.

Pigeons carry parasites internally such as mites and pigeon ticks (a single pigeon can produce approx. 10 -12 kilos of wet droppings per year).

The most effective method to keep pigeons away are electric fence systems powered with the special scout N2 energiser from horizont. These electric fence systems are almost invisible and can be adapted as flexible profiles to all buildings. The electrical conductors and connection elements are made of special alloys and create a lower resistance even on long runs.

We work with reputable specialists who offer tailormade solutions for those with pigeon problems. Please do not hesitate to contact us - we will forward your enquiry.



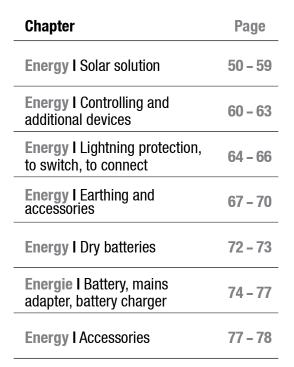
For a dependable use of an energiser, a reliable energy supply is indispensable. The energy supply is ecologically friendly when supported by solar solutions. In order to protect your animals, earthing and test instruments are necessary for security and high energy in the electric fence system.







Performance Batteries for a powerful operation. > page 72







230 volt power Mains adapter for a residential operation. > page 74

shorizont

PREMIUM QUALITY

Application of solar systems!

The sun as an energy source can be used for electric fence installations. Horizont 9V and 12V energisers as well as the combi unit trapper solar can offer this functionality. In the long term solar energy is both environmentally friendly and economical to run. Even at our latitudes the use of solar units is possible without any restrictions from spring to autumn.

5 options of solar operation



Solar operation for use with 9V fencers with special battery.



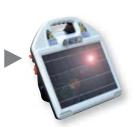
12 Volt or 12 / 230 Voltsarrangements consisting of an energiser and a battery can be extended with a solar panel.



12 / 230 Volts of dual energisers in large housing can be extended by a solar panel fastened to the device for solar power usage.

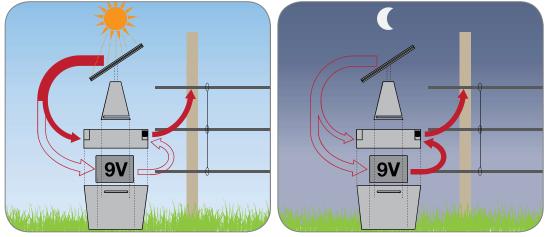


9 / 12 / 230 Volts dual energisers for solar power usage by a solar panel fastend at the energiser.



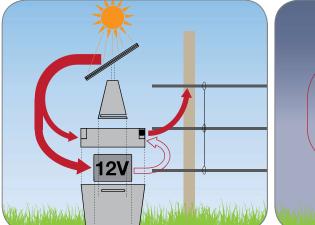
Complete solution with integrated solar panel and strong 12 Volt battery. Recharging the battery is possible when not in use with a battery recharger unit.

2 possible combinations with solar panel and 9V battery and 12V battery



During the day the solar energy is used. During the night the energy is provided by the battery. The device prefers to draw the supply through the solar panel. Only if this energy is no longer sufficient then the required energy is automatically taken from the 9 Volt battery.

Solar panel and 9V battery



As above, the 12 Volt battery will be loaded with sufficient solar power.

Solar panel and 12V battery (rechargeable)



Solarkit 5 and 10 watt

- Sturdy frame and holder of polycarbonate
- Light construction of solar panel and frame of plastic
- Monocrystalline solar panel
- Without charge controller, as the charge controller is installed in the pasture fence device

Solarkit, 5 Watt

Part no.	EAN
14499	4014803 144997

Solarkit, 10 Watt

Part no.	EAN
14511	4014803 145116

OPERATING PRINCIPLE:

The solar panel produces electricity as soon as it is exposed to usable sunlight. The pasture fence device requires consistent electricity – by day as well as by night. The electricity generated in this way by the panel is stored in a rechargeable 12 V battery, which means the device can operate without sunlight or can be supplied directly by a 9 V battery. The solar panel may not always have a sufficiently large output to completely recharge the battery – especially during the dark, grey and foggy months (e.g. October to February). For temperatures around 0 degrees Celsius or below, we recommend using a large 9 V alkaline battery instead of a 12 V rechargeable battery in any case. The device is operated primarily from the solar panel. If the solar panel does not have sufficient output, the device switches automatically to the connected 9 volt battery or to the 12 volt rechargeable battery. OPTIMAL SOLAR ALIGNMENT AND SETTING The correct placement of the pasture fence device and the solar panel is crucial for the best possible operation of the device.

1. POSITION THE PASTURE FENCE DEVICE SO THAT THE PANEL POINTS SOUTH.

This position provides the panel with the maximum amount of sunlight even during the less bright winter days. When placing the device, consider the position of the sun throughout the day and avoid a location which could cover the device with shade from trees, bushes or high grass.

2. DETERMINE THE CORRECT ANGLE OF INCLINATION FOR THE SOLAR PANEL.

During the winter (with the exception of southern Europe), there may not be enough sun hours to completely charge the battery. Charge the battery externally as soon as the battery indicator flashes green/red or red, or alternatively use a large, alkaline 9 V battery with 170–200 Ah, which is also recommended for temperatures around or below freezing.

3. REMOVE DEPOSITS AND DIRT FROM THE SOLAR PANEL AT REGULAR INTERVALS.

(specifically along gravel paths), leaves and snow, since these can reduce the performance of the module for recharging the rechargeable battery.

Performance: Suitable for: Battery recommendation:

5 Watt or 10 Watt hotSHOCK® ABN5, farmer® ABN4

All 9V batteries and 12V super vlies special batteries up to 34 AH – see page 70, 72

Dimension (LxWxH): 39.0cm x 26.5cm x 13.7cm

There are 2 choices:

- 1. The device works with module in parallel operation (directly via the solar module during the day and via 9 volt dry battery at night).
- 2. The device also works with a Super Glass Mat Battery, which is charged over the module (see p. 70).

Summer

Transport position











horizont

49

Winter

Solarkit 2 Watt

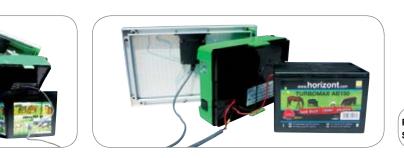
- For horizont dry battery energiser equiSTOP® B1, B2 and trapper® B
- · Easy to fix on to the handle of the housing
- The panel works in parallel to the in-built dry battery (with sufficient brightness the energiser will be directly operated by the solar module and as dusk starts it will be operated by the dry battery)
- The energiser is working also with a Super-Vlies battery, which can be loaded into the module

Solar module with mounting

Part no.	EAN
60140	4014803005731

equistop® B2 solar, energiser incl. module

Pa	art no.	EAN
1	0624	4 014803 106247



Performance: Suitable for: 2 Watt equiSTOP® B1, equiSTOP® B2

Solarkit 2 Watt

- For horizont dry battery energiser since 1981
- The solar module will be supplied completely mounted on a handle. Simply slide this handle onto the housing and connect the leads
- With connection cables
- Incl. charge controller

Part no.



You have two choices:

driven by the battery).

be charged by the panel.

• 1. The panel works in parallel to the

• 2. The energiser also works with an inbuilt 12V Super Vlies battery, that will

inbuilt 9V dry battery (by day directly operated by the solar panel and by night

Increased in the second se

This is the way to connect the Super–Vlies battery 15842 to the energiser !

(
Performance:	2 Watt
Suitable for:	all horizont battery energisers built from 1981 e.g. turbostar [®] B, ranger [®] B, horigard [®] B, farmer [®] B, hotSHOCK [®] B4 a.o.)

Solar module, monocrystalline 50 Watt

- Self regulating solar module with charge controller
- Consisting of monocrystalline silicium cells
- Complete with connection cable, enclosed in a solid aluminium frame, also useful for smaller batteries
- Because of the frame size and the weight (wind load) please choose the mounting 14143 twice

Part no.	EAN
14873	4014803 148735
Performance:	50 Watt
Suitable for:	horiSMART® AN160, hotSHOCK ®A50, ranger® AN70, ranger® AN7000
Battery	
recommendation:	Special battery (230Ah,100Ah) see p. 72
Dimension (l x w x h):	80.0cm x 56.0cm x 3.5cm



Fixture for solar modules

- The angle of inclination can be set from 15 to 75 degrees
- Incl. all screws to fasten

Part no.

14143



4 014803 141439

More Solar modules please find on pages 54 - 55





Monocrystalline solar module 20 Watt

- Solar module, consisting of monocrystalline silicium cells
- · Complete with connection cables and aluminium frame

20 Watt

Part no.
140641

EAN
4014803 438218

Performance: 20 Watt Suitable for: ranger® AN50, ranger® AN3000, hotSHOCK[®] A50, farmer[®] AN25 and other very strong 12 Volt-energisers Battery recommendation:

all 12 Volt-Special-Batteries (100Ah, 88Ah, 63Ah) see p. 72 Dimension (I x w x h): 67.2cm x 29.6cm x 2.5cm



Monocrystalline solar module 20 Watt

• Same module as part no. 140641, but with mounting plate 14462 for ranger® AN3000 (part no. 10854)

10 Watt

IU Wall	
Part no.	EAN
14480	4014803 144805

Performance: Suitable for:

20 Watt ranger® AN3000

Battery recommendation:

Super-Vlies-Batteries 12V / 80Ah see p. 73 Dimension (I x w x h): 67.2cm x 29.6cm x 2.5cm





Monocrystalline solar module 15 Watt

- Solar module, consisting of monocrystalline silicium cells
- · Complete with connection cables and aluminium frame

Battery

hotSHOCK® A15, farmer® AN15 / AN25 and equistop® A2 12 Volt-Specia-Batteries



Performance:

Suitable for:

(63Ah, 85Ah, 88Ah, 100Ah) see p. 72

Dimension (l x w x h): 64.7cm x 29.6cm x 2.5cm

15 Watt



15 Watt

Part no.	
141461	4014803438225

Monocrystalline solar module 10 Watt

- · Solar module, consisting of monocrystalline silicium cells
- · Complete with connection cables and aluminium frame

10 Watt

Part no.	EAN
140631	4 014803 438232

Monocrystalline solar module 10 Watt

• Some module as part. no. 140631, but with mounting plate 14462

10 Watt

Part no.	EAN
14463	4 014803 144638

/	
Performance:	10 Watt
Suitable for:	hotSHOCK [®] A15, farmer [®] AN1000, farmer [®] AN15, equistop [®] A2 and other 12 Volt energiser
Battery	-
recommendation:	all 12 Volt-Special-Batteries (100Ah, 88Ah, 63Ah) (see p. 72)
Dimension (LxWxH)):	39.6cm x 29.6cm x 2.5cm



Performance:	
Suitable for:	

10 Watt farmer® AN1000

Battery

Super-Vlies-Batteries recommendation: (45Ah, 80Ah) (see p. 73)

Dimension (I x w x h): 39.6cm x 29.6cm x 2.5cm



Monocrystalline solar module 5Watt

- · Solar module, consisting of monocrystalline silicium cells
- · Complete with connection cables and aluminium frame

5 Watt

Part no. 141451



EAN

5 Watt farmer® A1000 and other energisers with reduced current consumption Special-Batteries

(63Ah) (see p. 72) Dimension (I x w x h): 25.5cm x 29.6cm x 2.5cm



Solar modul 5Watt with mounting incl. 14907

• Same module as part-no. 141451, but additionally with mounting plate and stake for easy adjustment of the solar panel to energiser farmer[®] A1000, electrificable metal transport box, part-no. 14444 and the transport boxes part-no. 14129 and 15466 in connection with attach fixture 14156

5 Watt



/	
Performance:	5 Watt
Suitable for:	farme [®] A1000 and other energisers with reduced current consumption
Battery	
recommendation:	Special-Battery (63Ah) (see p. 72)

Dimension (I x w x h): 25.5cm x 29.6cm x 2.5cm



Spike for solar panel incl. mounting plate

- This mounting solution consists of a mounting plate which is connected to the aluminium frame of the module and the metal stake with foot tread
- Suitable for 5, 10, 15 and 20 Watt panels
- · Solar panels can be positioned next to the electric fence with the spike
- Length: 62cm

Part no.

14923





Attach fixture for solar modules

- This mounting solution consists of a mounting plate which is connected to the aluminium frame of the module. The mounting plate can be adjusted to the fixture (part no. 14192 and 14156)
- Suitable for 5, 10, 15 and 20 Watt panels





- With this adjustment metal transport boxes can get a retrofit (part no. 14444) also the transport box (part no. 14129)
- Suitable for 14907 (see. above) und 5, 10, 15 und 20 solar modules (see p. 52 - 53)

(
1. Screw on the box	
2. Stick the solar module on	
3. Connect	
4. Ready !	
Part no.	EAM
4 44 70	
14156	4 014803 141569



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æ



Attach fixture for solar modules

- With this attach fixture all 5 20W solar panels can be mounted on the energisers ranger[®] AN3000 and farmer[®] AN1000
 Incl. all required fixings

Part no.	EAN
14462	4 014803 144621





Attach fixture for solar modules for ranger energiser

- With this adjustment fixture energiser turbostar® AB, ranger® A3000 / A2000, farmer® A1000 can get a retrofit
- Suitable for 14907 (see. above) und 5, 10, 15 und 20 solar modules (see above)

1. Screw the attach fixture to the farmer® A– / ranger® A / turbostar® AB	

- 2. Stick the solar module on
- 3. Connect 4. Ready !

Part no.



trapper[®] AS / farmer[®] AS

- Compact solar energiser with integrated 12V battery
- Three step battery control display
- With automatic solar charging controller
- 230V charger for keeping up the charge of the integrated 12V battery*
- Integrated mount for earth post in the housing
- Robust plastic solar panel
- Available in three performance levels
- <u>Delivery contains:</u>
- Fence connection set contains of fence and earth connection cable
- 230V mains plug for battery charging

no martin

Part no.	EAN
14981UK	4014803446770
14982UK	4 014803 446787
14983UK	4014803446794
14475UK	4114815448330





EAN

	AKKU	INPUT	OUTPUT		500 4			Ļ				+	
14981UK trapper® AS20	12V / 7Ah	0.18J	0.15J	7 500V	2 500V	17mA	3.7km	2.8km	0.9km	0.3km	-	1x1m	2W
14982UK trapper® AS35	12V / 7Ah	0.33J	0.25J	9 000V	3 000V	26mA	8.5km	5.0km	3.6km	0.9km	-	1x1m	5W
14983UK trapper® AS70	12V / 12Ah	0.65J	0.50J	11 000V	3 600V	50mA	18km	16km	4.2km	1.6km	-	1x1m	10W
14475UK farmer® AS70	12V / 12Ah	0.65J	0.50J	11 000V	3 600V	20-50mA	18km	16km	4.2km	1.6km	-	1x1m	10W

Explanation of symbols for features of the energiser please find at folder.

Energy Solar solutions

								eal solar solution!
Energiser Part no. Page		Transport box Part no. Page		Mounting Part no. Page		Solar module Part no. Page		Battery Part no. Page
	Ð		Ð		Ð	50 W	¢	Change U
horiSMART® AN160 10749 Pg. 19		21264		14143 Pg. 75	_	14873 Pg. 51		25012B Pg. 72
	Ð	_	•	_	¢		Ð	
turbostar® B 10285 Pg. 20					_	15264F Pg. 50		12012 Pg. 70 15842 Pg. 73
	¢		Đ		Ð	500 000	Ð	
ranger® AN 70 10857 Pg. 23		15466 Pg. 75 14444 Pg. 76		14143 Pg. 75	_	14873 Pg. 51		14126 Pg. 72
	Đ		Ð		Ð		Ð	
ranger® AN 50 10858 Pg. 23		15466 Pg. 75 14444 Pg. 76		14143 Pg. 75		140641 Pg. 52		14126 Pg. 72
		_						
ranger [®] AN7000 10993 Pg. 25				14143 Pg. 75		140641 Pg. 51		14126 Pg. 72
ranger [®] AN3000 ranger [®] AN5000	Đ	_	Ð	_	Ð	20	Ð	14894 Pg. 72
10854 / 10992 Pg. 25					_	14480 Pg. 52		14479 Pg. 73
ranger [®] B	Ð	_	Ð	_	đ		Ð	
10555, 10445 Pg. 26 10840, 10841 Pg. 26						15264F Pg. 50		15844 Pg. 72 12025 Pg. 73
	Ð		Ð		Ð	200	Ð	
hotSHOCK® A 50 10613 Pg. 29		14129 Pg. 75 14444 Pg. 76		14143 Pg. 75		140641 Pg. 52		14126 Pg. 72
	Ð		Ð		đ		Ð	
hotsHOCK® A 15 10638 Pg. 29		14129 Pg. 75 14444 Pg. 76		14143 Pg. 75		140631 Pg. 52		14125 Pg. 72

Combine or complement your energiser corresponding to the chart below to receive your ideal solar solution!

Energy Solar solutions

Energiser Part no. Page		Transport box Part no. Page		Mounting Part no. Page		Solar module Part no. Page		Battery Part no. Page	
hotSHOCK® ABN 5	¢	_	Ð	_	Ð		Ð	15842 Pg. 70	
10892 Pg. 30					_	14499 Pg. 44		15844 Pg. 73	
	¢	_	Ð	_	¢		Ð		
farmer® AN 1000 10855 Pg. 34						14463 Pg. 53		14894 Pg. 72 14479 Pg. 73	
	Ð		Ð		Ð	20	Ð		•
farmer [®] AN 25 10897 Pg. 33		15466 Pg. 75 14444 Pg. 76		14143 Pg. 75		140641 Pg. 52		14126 Pg. 72	
	Ð		Ð		¢		Ð		
farmer® AN 15 10896 Pg. 33		15466 Pg. 75 14444 Pg. 76		14143 Pg. 75		140631 Pg. 53		14125 Pg. 72	
farmer [®] ABN 4	Ð	_	¢	_	¢	State State	Ð	15842 Pg. 73	
10891 Pg. 35		_				14499 Pg. 44		15509 Pg. 70	
	¢		•		¢		Ð		
equistop® A 2 10623 Pg. 38		15466 Pg. 75 14444 Pg. 76		14143 Pg. 75		140631 Pg. 53		14125 Pg. 72	
	Ð	_	Ð	_	Ð		Ð		
equistop® B 10620 Pg. 39						00140 5 55		15848 Pg. 70 15509 Pg. 70	
10619 Pg. 39	¢	_	0		¢	60140 Pg. 50	¢	15842 Pg. 73	
10932 Pg. 40				14143 Pg. 75		140641 Pg. 52		14126 Pg. 72	
	Ð		Ð		0		Ð	15848 Pg. 70	
trapper® B 10616 Pg. 43						60140 Pg. 50		15509 Pg. 70 15842 Pg. 73	

Fence controller –

control device for 12 Volt or 230

Volts operation

- This control device allows a permanent and secure control of your electric fence, no matter which type of energiser is used
- Three LED diodes inform you about the fence circumstances
- For connection of all 230 Volts and 12 Volt operated energiser
- Dry contact, closing when the fence voltage drops below a preset level
- Optical and acustical signal generator can be connected

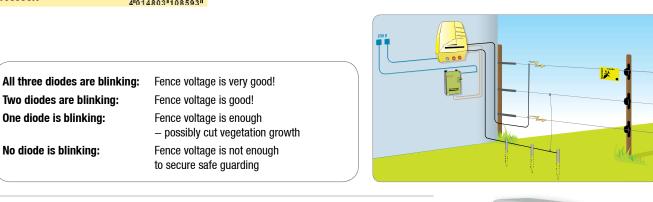
12 Volt / 230 Volts





- Advantage: 2 in 1 Included in delivery!
 - Fencecontrol combi allows the operation with 12 Volt batteries as well as with 230 Volts main power.





SMS socket-outlet

- Simple regulating by text or call
- Alarm message in case of power failure
- Switchable from anywhere, where you can find adequate network coverage
- The SIM-card is not included

Part no

14936

Part no.

34544

58

• To be installed in a room which is protected against humidity







Luda Fence sensor

- The Luda Fence sensor monitors the voltage
- You receive notifications when the voltage drops below your set level, and alarms if there is a problem with your fence and the voltage drops significantly
- Luda Fence can be used anywhere if a GSM net is available



EAN





Shorizont

International warning sign "Caution electric fence"

- Every part of an electric fence, which is installed besides a public street or a public way, must be marked at constant intervals of approx. 100m by warning signs. The warning signs have to be fixed safely on fence posts or on fence ropes
- Complete with 8 ties for secure fastening for all polytapes, polywires and electrical ropes
- Measurements: 20cm x 10cm



ENTION

ELEKTROZAUN ELECTRIC FENCE

CLOTURE ELECTRIQUE SCHRIKDRAAD ELSTANGSEL

CERCADO ELECTRICO

RECINTO ELETTRICO

staont agrante

ELEKTRISK HEGN ELEKTRISKE GJERDEAPPARATER

text on both sides			text on one side*			Warning signs must I
Part no.	EAN	Piece	Part no.	EAN	Piece	
14127	4014803 141279	4	15317	4 014803 153173	4	printed double-sided and be easily readabl
14127C	4 014803 426116	4	153170	4 014803 420381	4	allu be easily leauabi
			* for example for use on fences	s besides buildings		

International warning sign "Caution electric fence"

- Every part of an electric fence, which is installed besides a public street or a public way, must be marked at constant intervals of approx. 100m by warning signs. The warning signs have to be fixed safely on fence posts or on fence ropes
- Complete with 8 ties for secure fastening for all polytapes, polywires and electrical ropes
- Measurements: 20cm x 10cm

text on both sides

same as 14481, but with customer specific print**

Part no.	EAN	Piece	Part no.	
14481	4014803 144812	1	14482	



-

JOLIZON

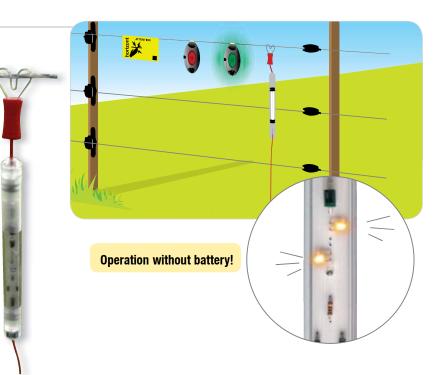
Fence voltage indicator

Designed in the style of a neon tube with LEDs

- To be connected to the fence
- Flashes in the rhythm of the impulses. Can be seen in the dark from a considerable distance to show the fence is working
- If the fence voltage falls below 2 000 Volts the light will stop flashing
- Also acts as a predator deterrent

flashes if fence voltage is over 2 000 Volts

Part no.	EAN	Piece
10424C	4 014803 405548	1



Volt-alarm

- This control device shows you the function of your fence
- To clip onto the fence line (no earth connection needed)
- With a switch on the front side of the device you can choose two levels:
- Level 1: the indication lamp starts blinking if fence voltage drops below 2 000 Volts
- Level 2: the indication lamp starts blinking if fence voltage drops below 4 000 Volts

Piece

1

flashes if fence voltage is under 2 000 / 4 000 Volts

Part no.

Including battery!

Fence control device FLASH 2 000

- Fence control device FLASH 2 000 shows to the user, if the fence is working
- FLASH 2 000 flashes with each impulse and stops flashing when fence voltage drops under 2 000 volts
- Additional deterrent for wild predator
- Very useful as optical function control at darkness and at dawn
- To clip onto the fence line (no earth connection needed)
- Just clip flash 2 000 to existing fence material and it starts working (does not need to be earthed)

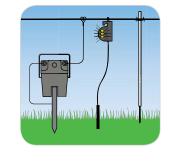
flashes if fence voltage is over 2 000 Volts

Part no.	EAN	Piece
14149C	4014803 141491	1

ISOTESTER 6 000

- Allows easy and fast reading of your fence
- The control lamp of the 1-level tester will indicate a fence voltage of minimum 2 000 Volts
- The 3-level tester shows the fence voltage on three levels: 2 000 Volts, 4 000 Volts and 6 000 Volts

Part no.	EAN	Piece
14082C	4 014803 428684	1



Including battery!

Operating without battery!



fence scout II – fault finder!

- Effective range up to 10 000 Volts
- Display for electrical current flow direction on fence
- Directional sign for problems on the electric fence
- Measurement is only possible on the fence

3 in 1 Tester for: Fence voltage + intensity of current + fault finder Partno. EAN Piece

14151C

60







Fence Voltmeter "ranger® Digital"

- Device is turning on automatically whilst in contact with fence voltage
- Battery (included in delivery) easy to change
- Nonslip isolation of the earth stake additional operating security
- Cable can be wound around the fence tester if you don't use it. Easy handling and additional protection against damage

Part no.	EAN	Piece
14496C	4014803 144966	1



Fence Voltmeter "farmer® 7 LED"

- Sunken LED's for a best possible readability even with strong daylight
- Sunken key-button to avoid unintentional operation (e.g. while stored in pocket).
- Battery (included in delivery) easy to change
- Battery control indication
- No grounding via earth cable necessary

Part no.	EAN	Piece
14495C	4014803 144959	1

Including I	battery!
-------------	----------

Including battery!



Fence Voltmeter "trapper® 6 Light"

- Sunken glow lamp for a best possible readability even with strong daylight.
- Nonslip isolation of the earth stake additional operating security
- Cable can be wound around the fence tester if you don't use it – easy handling and additional protection against damage
- Operation and delivery without battery

Part no.
14494C









horizont

Night watchman

- The night guardian twin blinking LEDs mimic eyes in the night to ward off predators
- Solar panel charges the battery in the day and a sensor turns the LEDs on when the day grows dark
- Visibility for up to 800m





Energy Lightning protection, switching and connection



Lightning arrester kit (for larger installations)

- Protects your energiser against damage from lightning strike and power surge
- Includes 2 anti–lightning insulators, 1 arrester coil and 1 cut–out switch
- The cut out switch can also be used to turn your fence installation on/off

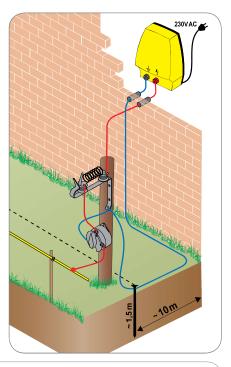
Hint!

Energiser with two outlets require two lightning arrestor kits!

Con l
10319C

15482

Part no.	Product	EAN	Piece
15498C	complete	4-014803-405760	1
15482	Arrester coil, single	4 ¹ 014803 ¹ 154828	1
10319C	Cut-out switch, single	4 014803 405944	1



Safety hint!

Don't mount the energiser inside buildings next to flammable materials, for example in barns or stables.

To protect the energiser from lightning, mount in the fence connection a lightning arrestor outside the building or close to the entry of the connection. The lightning arrestor must be connected to the earth.

The installation must be done by a specialist. Experience shows, that mains energiser are damaged more often by lightning than battery energiser. Therefore it's necessary to use a lightning arrestor. Follow the instructions for mounting the arrestor kit. Don't connect the fence earth and the earth from the building.

Fence switch

Part no.

14865C

- To switch current independently from the energiser
- Two outlets can be controlled

(• Posi	tions of	the switch:
	•0	=	off
	•	=	fencing 1
	•	=	fencing 2
	• +	=	fencing 1 and 2



Lightning arrestor (for energiser < 1 Joule)

EAN Piece

1

- For the installation on the wall or on the fence
- It protects the energiser by conducting the lightning into the ground





On / Off switch

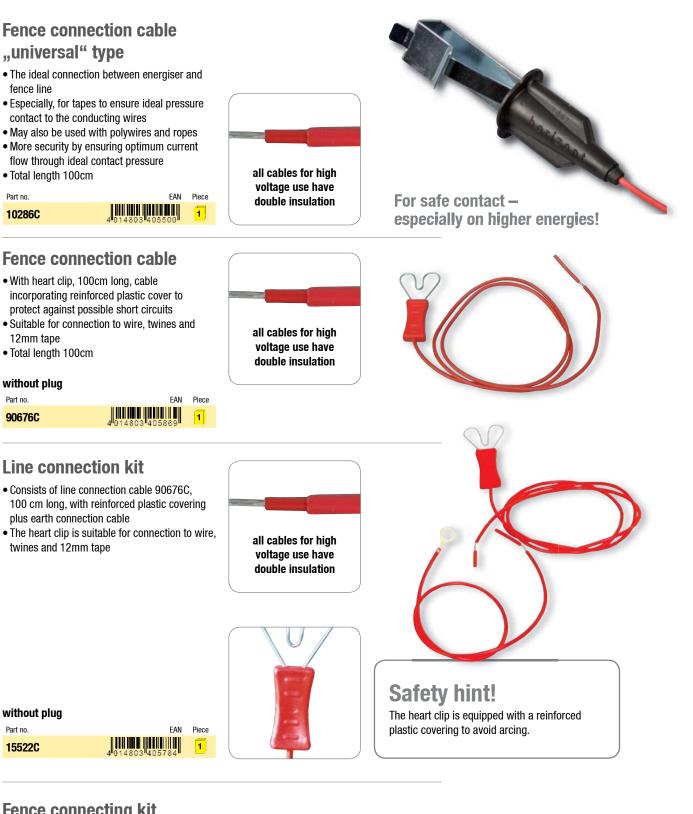
• Usable for switching the electricity on and off independently from the energiser

• For switching individual fence sections on and off

Part no.	EAN	Piece
14084C	4014803 428691	1



62 **Shorizont**



Fence connecting kit

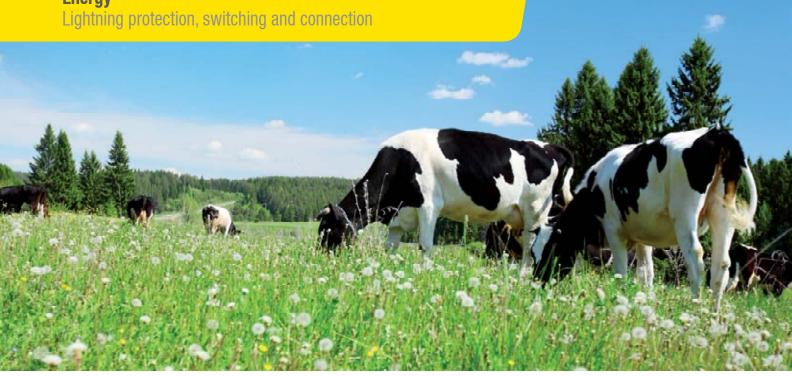
- The fence connecting kit consists of a connection cable (150cm) with a reinforced plastic cover and ring eyes
- The alligator clips can be connected to wire, twine, tape and rope as well as to earth stakes

Part no.	EAN	Piece
14879	4014803 148797	1





Energy



Fence connection cable for wide tape

- Ensuring a perfect connection between energiser and fence
- The ideal connection between energiser and fence line, especially when using tape up to 40mm

FAN Piece

1

• Total length 100cm

Part no.

10447C

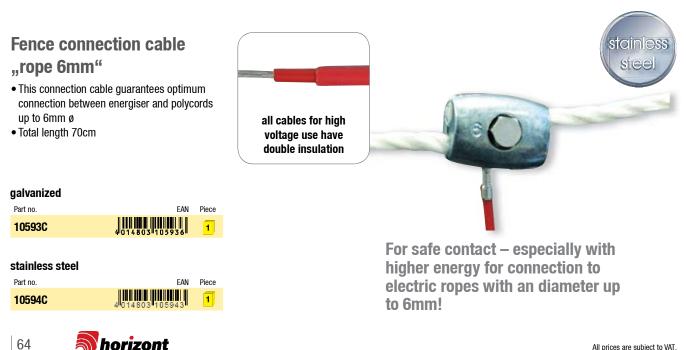


all cables for high voltage use have double insulation



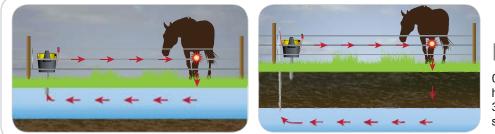


For safe contact – especially with higher energy for connection to tape!



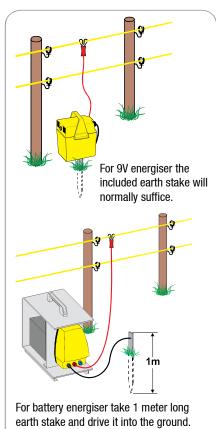
The earthing of an electric fence

A good earth is essential for a well installed and effective electric fence. As the electric fence is an "open circuit" the current originating from the energiser transmitted via the wire, across the normal earth and via earth pegs, needs to flow back to the energiser. If the circuit is not closed there will be no current flow, animals will not be deterred and the fence will not work. On sandy, stony and very dry ground the earth will only poorly conduct the current. That is when good earthing is even more important. From the energiser the earth cable connects to the earth post establishing the contact from the energiser to the ground. For lower energy energiser very often a small earth stake similar to the one included in horizont energiser will be sufficient. For battery energiser we recommend to use approximately 1 meter long earth stake and for mains energiser 2 – 3 such earth stakes which are connected to each other. If you can still feel voltage on your earth post the earthing is not ok. Just install a second or maybe a third earth stake in distances of 1 meter apart and connect the earth posts with an earth cable.



Hint!

Compare quality of earth posts. horizont earth posts are made of 3mm galvanised steel and more solid than standard earth posts!



For strong mains energiser connect 2 - 3

earth stakes 1 - 2 metres long to each

other. Only if there is no more current on the last earth post is your grounding

sufficient.

T-earth stake · Solid galvanised T angle earth post

- complete with a wire joint connector
- We recommend 1m posts for all 12 Volt battery energiser and the solar energiser trapper[®] and farmer[®] AS
- We recommend 1.5m posts for all 230 Volts mains energisers

Total length 150cm, 3mm thick

15017-1	4014803 434272	1
15017	4014803 150127	3
Part no.	EAN	Piece

Total length 100cm, 3mm thick

Part no.	EAN	Piece
14041	4014803 140418	3
14041-1	4014803 434265	1



Earth stake, round, galvanized

· Very solid earth stake made of galvanized round steel post, complete with connection screw Diameter 13mm

Total length, 100cm

Part no.	EAN	Piece
14199	4014803 141996	3

Earth stake, standard

- Earth stake made of galvanized round steel post
- Complete with mounting for the energiser equistop® M and trapper® AN24, AN12, AN8, N8 and hobbygard® N and A

Total length, 50cm

Part no.	EAN	Piece
14355	4014803 143556	1







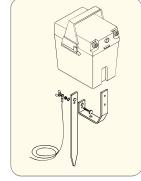
Energy Earthing and accessories



Earth stake with mounting rod

- This galvanized earth stake is supplied complete with screws and nuts
- Complete with bottom part (80054) and angle (83449)
- Suitable for: 9V horizont energisers from 1981 onwards (currently e.g. turbostar® B, ranger® B, B4, B6, B8, farmer[®] B3 and B2)

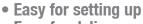
Part no.	Product	EAN	Piece
88178	Set complete	4014803 881786	1
80054	Bottom part, single	4014803 882370	7
83449	Angle part, single	4014803 882387	1



Earth and point bearing pile

- Galvanized earth and point bearing pile including connection bolt
- Suitable for horizont energisers ABN 4 and hotSHOCK® ABN5

ArtNr.	EAN	Einheit	
14498	4014803 144980	1	



- Easy for delivery
- Easy for use

Earth stake

- All 9V energisers can be mounted on the four- footed earth stake
- Just drill a hole into the battery housing
- The earth stake should bolt hard to the energiser

Lenath 25cm

14178	4 014803 141781	1	• Easy
Part no.	EAN	Piece	• Eas
-			- Lagi

- Easy for setting up
- y for delivery



• All housings of the energiser shown below can be mounted on the stable earth stake

Length 66cm

66

Part no.	EAN	Piece
14899	4014803 148995	1

y for use

Hint! For bigger enclosures and higher energy please attach the earth stake suggestions for energisers!

- Easy for setting up
- Easy for delivery
- Easy for use











Earth cable 90cm complete with screw

- Earth cable complete with screw for secure fastening at the earth stake
- Cable length: 90cm

Part no.	EAN	Piece
90150C	4 014803 005793	1



all cables for high voltage use have double insulation



Energiser- and earth connection kit

· Consists of earth stake, fence connection cable, 2m long and earth connection cable, 3m long and warning sign

Part no. 15858C

EAN Piece 1

Safety hint!

The horizont heart clamp is appointed with plastic coating, for extra protection

all cables for high voltage use have double insulation





Epoxy resin kit

- With this kit you can connect underground cables. These need to be sealed connections to avoid any interference to the current flow
- Kit consists of 1 x casting compound,
- 2 x connectors, 1 x pair of work gloves





PREMIUM QUALITY

MADE IN GERMANY

Flexible underground cable for gates and fences

- This cable is used for the abovegrounded or undergrounded fence service connection, for the connection of earth stakes or the currency feed at fence gates
- The electric strength is about 20 000 Volts
- All types are double insulated and dispose of a copper conductor



Part no.	length of spool	ø	max. length of conductor	Ω/m	EAN	Piece
14523	8m	1.6mm	8m	0.01	4014803 145239	1
14524	50m	1.6mm	500m	0.01	4014803 145246	1

Underground and supply cable

- These cables can be used for over earth and under earth fence supply, for expraction of earth states and retrausus
- for connection of earth stakes and gateways • The voltage strength is approx. 20 000 Volts
- All cables are double insulated and have a conductor made of galvanized steel wire



An electric fence gate should always be constructed with a gate handle set and an underground cable which is placed parallel. In this way the energy of the fence will be conducted through the underground cable in case of an open gate. Gate solutions can be electrified by a gate handle. The conductive material will be hinged to an insulator which is not connected to the fence. Thereby the gate will only be electrified if it is closed. Consequently a gate handle which is lying on the floor won't cause any deductions or disruptions.





Double insulated!

Part no.	length of spool	ø	max. length of conductor	Ω / m	EAN	Piece
15321	10m	1.6mm	500m	0.06	4014803 153210	1
14040	25m	1.6mm	500m	0.06	44014803 140401	1
15525	50m	1.6mm	500m	0.06	4014803 155252	1
15956	100m	1.6mm	500m	0.06	4014803 159564	1
15516	100m	2.5mm	1 000m	0.06	4 014803 155160	1

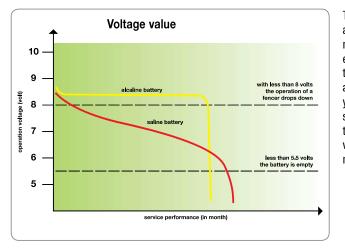
HINT !

For cable up to Ø 1,6mm the insulating tube (part no. 15951, see p. 160) can be used to protect the earth cable, especially when laid into the ground.

Dry batteries for 9 Volt energiser are one-way batteries, which will be disposed of after use. These are the most used batteries, as they can be used without much effort and easily installed. After use please return the empty batteries to your retailer. In connection with the use of a horizont 9 Volt battery energiser and the horizont power saver control the battery can last up to 2 years, depending on application and use. All of this ensures a high degree of enviromental harmony.

Dry batteries

The difference between alcaline and saline dry batteries:



There are 2 different types of dry batteries, the alcaline and saline. Both types are cadmium and mercury free and therefore absolutely enviromental friendly. Particulary interesting is the voltage curve. The alcaline batteries will hold a constant voltage during its whole life time (see yellow curve in the diagram). The voltage of the saline battery is constantly dropping over its life time (see red curve in the diagram). And at a voltage of appx. 5.5 Volt the battery is empty and must be replaced.

12 Volt Voltage value **batteries** The difference between battery capacitiy (% of input capacity) **12 Volt Super-Vlies** 100 er vlies special batte batteries and 12 Volt Lead acid batteries: Qty of charging/ decharging process Safety hint! All special 12V batteries should be duly and always

Traditional starter-batteries have due to their high discharge a disadvantage. They tolerate considerably less charging - and discharging procedures.

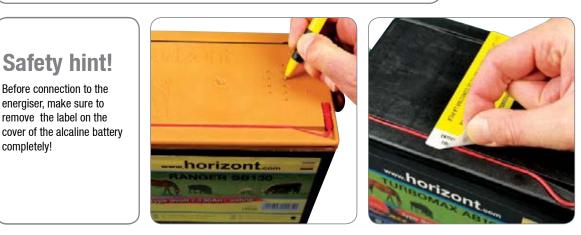
Our Super-Vlies batteries for the 12 Volt energiser and solar installations are maintenance free and work irrespective of its position. They have low self-discharging and very good cycle firmness. Our special-batteries are dry pre-loadeds and need to be filled up with commercial battery acid before use. We recommend to check the acid level appx. every 4 weeks and if so re-fill destilled water.

fully recharged (see the control display on your energiser).

Hint! Stamp sales date on battery top!

Safety hint! Before connection to the energiser, make sure to remove the label on the

completely!





Dry batteries 6 / 9 Volt, alcaline "TURBOMAX AB"

- Shows constant output voltage supply
- Cadmium and mercury free
- Can be stored for about 2 years

big housing (l x w x h): small housing (l x w x h):	12.5 x 16.0 x 19cm 11.0 x 11.5 x 16.5cm		
	EAN	Piece	

Part no.	Product	EAN	Piece
14896	TURBOMAX AB200, 9V / 200Ah (big housing)	4 014803 148964	1
12012	TURBOMAX AB170, 9V / 170Ah (big housing)	4 014803 120120	1
120121P	TURBOMAX AB170, 9V / 170Ah (big housing)	4014803440617	45
14057	TURBOMAX AB150, 9V / 150Ah (small housing)	4 014803 140579	1
15844	TURBOMAX AB120, 9V / 120Ah (small housing)	4 014803 158444	1
15509	TURBOMAX AB75, 9V / 75Ah (small housing)	4 014803 155092	1
15848	TURBOMAX AB55, 9V / 55Ah (small housing)	4 014803 158482	1







Hint!

Small and big battery housings fit in all battery energiser. In the housing of the turbostar® AB fits two batteries. Alkaline batteries should be used for high power battery energiser, because they ensure a high voltage at the fence.

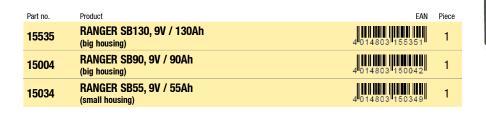
Dry batteries 9 Volt, saline "RANGER SB"

• Shows constant output voltage supply

• Cadmium and mercury free

big housing (l x w x h):	12.5
small housing (l x w x h):	11.0 x

2.5 x 16.0 x 19cm .0 x 11.5 x 16.5cm







Monobloc battery 6V / 50Ah

- Cadmium and mercury free
- With a high capacity and longer storage life
- For use with energisers hobbygard® B and equiSTOP® B (see p. 44)

Part no.	Product	EAN	Piece
230502	Monobloc battery 6V / 50Ah	40301631351374	1

Monobloc battery 6V / 7Ah

- Cadmium and mercury free
- With high resilience and storage life
- To be used in conjunction with hobbygard® B, hobbygard® AB30 and equiSTOP® B as included in the horse kits (see p. 44)

Part no.	Product	EAN	Piece
253967	6V / 7Ah dry battery	4 ¹ 030163 ¹ 537521	1

6 Volt alcaline dry battery (round housing)

- Cadmium and mercury free
- Can be stored for about 2 years

Part no. Product **14898 6V / 100Ah**

EAN Piece







Important hint for deep discharge!

For energisers a sufficient energy supply is necessary to work without interuptions.

Horizont energisers are equipped with a battery control function that provides the information to the user to change the battery or recharge the battery. If the user ignores this information for a longer time span, the energiser will not deliver a sufficient level of charge to the fence which will impact upon security.

The horiSAMRT® AN160 is equipped with a deep discharge shut off, because of the higher energy consumption.

The user will also be informed about the energy state of the battery by the battery control LED.

Energiser with a **"deep discharge protection"** shut off early, before the battery is discharged totally. The battery should therefore be protected against damage. This way the maximum time span that is normally left to protect the animals with the energiser will be reduced by shutting off the energiser too early.

Because of the self discharging of the battery and the energy consumption of the "deep discharge protection" the deep discharge can't be stopped. To avoid a deep discharged battery it is important to recharge the battery directly after use or regularly when the battery is not used. Recharge the battery latest after it is discharged by 60% down to 40% of the declared capacity.

Never recharge the battery later than at 80% discharge (20% of the declared capacity is left in the battery) to avoid damage by deep discharging.

The energy consumption of the energiser is given, so it is possible to calculate the possible time to run an energiser. For example: current consumption of an energiser is 180 mA, capacity of the battery: $100Ah \rightarrow 100Ah : 0.18A = 555.5h : 24h = 23 d$.

- * What means C20 and accordingly C100 to the capacity details of batteries?
- Depending on the strength of the battery discharge, the battery has a higher capacity. C20 shows which capacity the battery has. C20 would discharge over 20 hours until the discharge end pressure. C100 would discharge over 100 hours until the discharge end pressure. To discharge over 20 hours would be more stressful to the battery. This goes to explain the different values on the batteries.

Lead acid batteries 12 Volt

· Wet battery for battery- and solar installations

12V / 63(C20)*Ah , without acid

12V / 85(C100)*Ah, without acid

12V / 88(C20)*Ah, without acid

12V / 100(C20)*Ah, without acid

180Ah (5h Charging time), with acid

Akku 12V / 230(C20)*Ah (20h Charging time),

- Extremely low self-discharging
- High cycle firmness

Part no.

14124

14894

14125

14126

25012B

21264

• Delivered dry and precharged

Product

• To avoid damage, please recharge these batteries only with a controlled charger, e.g.14684 and 14863 (see p. 74, 75)

Supply takes place without battery acid !



box (21264)

Supply is without battery acid (at

Ask for delivery conditions!



/				~
Part no.	Capacity	Measurement (I x w x h)	Acid	
14124	63Ah	246 x 175 x 190mm	3.7 Liter	
14894	85Ah	265 x 175 x 225mm	4.37 Liter	
14125	88Ah	353 x 175 x 190mm	4.6 Liter	
14126	100Ah	353 x 175 x 190mm	4.15Liter	
25012B	230Ah	518 x 276 x 242mm	Contains	

Battery acid

Suitable for all 12 Volt lead acid batteries

Big lead acid box

(800 x 450 x 292mm inside)

Sulfuric acid 37.5%

Product

Part no

Suitable for a first filling of dry precharged 12 Volt lead acid batteries



25012B)!

- Outtuble for	u mot ming o	i ury proonurg	cu 12 von louu	uolu buttorios

|--|

Safe handling of 12 volt batteries (wet cell battery or lead acid battery)

Lead acid battery operating instructions: Please wear protective clothing and protection goggles. Pay attention to a good aeration, corrosivity and a potential expolosion hazard. Keep out of reach of children! Please respect warning symbols on the battery!

1

Storage and transportation

- · Before putting into operation: The special batteries are dry preloaded and do not require any maintenance in this state. Store cool (frost-free) and dry.
- Please pay attention to an upstanding transport and storage position to avoid an exit of acid.
 While transportation please assure that the battery isn't able to tip.
- The surface of the battery should be kept clean and dry. In order to avoid the formation of leakage currents that can cause significant self-discharge, oils and fluids should not be allowed to accumulate on the surface.
 Check the fill level of the battery and recharge if necessary. Battery shouldn't be discharged lower than 12 Volt (not lower than 12.5 Volt would be better)!

Initial operation

- While filling the battery with acid the temperature of both should be 10° C at least.
- Remove the closing plug. Take care of acid splashes!
- Fill up individual battery cells with acid suphur (density 1.28 / 37.5 % acid suphur) up to the marking level for acid or rather 5–15 mm over the top edge of the plaque.
 Don't move the battery for at least 15 minutes and tip it sidewards several times. If necessary refill some acid. The first charging process should start after 60 minutes earliest.
- Tighten the closing plug. Remove acid splashes.

Positioning at / in the energiser

· Don't put on stony underground.

- · Avoid short circuits caused by tools.
- Protect against atmospheric conditions (rain, sun or temperatures below 0°C). · Pay attention to the right polarity of the battery while connecting the energiser

Charging and maintenance of the battery

- · Check the fill level of the battery regulary and top it up with purified water if necessary (never add battery acid!)
- Remove the closing plug before starting the charging process and tighten it strongly afterwards.
 Seperate the battery from the energiser while charging.
- When charging the battery first connect it with the charging device and switch on afterwards. When finishing the process first switch off the charging device (Pay attention to the right polarity).
- Please control the fill level after the charging process and top it up with purified water up to the marking level or rather 5 mm over the top edge of the plaque
- Please pay attention to an adequate aeration during the charging process. Protect yourself from acid splashes.
 Don't move the battery for at least 60 minutes after the charging process.



12 Volt Super Vlies special battery

- The ideal, low-maintenance and rechargeable batteries, irrespective of its position
- Type 15842 (=12Ah) and Type 12025 (=27Ah) especially suitable for all battery-driven energisers complete with 9V connection cable. Accumulators fit in the battery-casing
- Typ 14501 (=34Ah) especially suitable for battery-driven energisers farmer® ABN4 und hotSHOCK® ABN5
- Type 15128 (=45Ah) and 14479 (=80Ah) especially suitable for ranger[®] AN3000 and farmer[®] AN1000
 The energiser ranger[®] AN3000, farmer[®] AN1000 and all 9 Volt battery-driven energisers are with an inbuilt charge regulator.
- To avoid damage please charge your batteries with regulated charging devices, e.g. art. no. 14863 and 14864 (see p. 74, 75)

Part no.	Product	Capacity	EAN	Piece
14479	12V/80Ah	C20*	4014803 144799	1
15128	12V/45Ah	C20*	4 014803 151285	1
14501	12V/34Ah	C20*	4014803 145017	
12025	12V/27Ah	C20*	4 014803 120250	1
15842	12V/12Ah	C20*	4 014803 158420	1
90439C	Connection cable for batteries 15128, 12025, 15842		4014803005786	1

Part no.	Capacity	Measurement (I x w x h)	Acid
14479	80Ah	260 x 170 x 205mm	24.0kg
15128	45Ah	195 x 165 x 175mm	14.8kg
14501	34Ah	260 x 205 x 170mm	10,8kg
12025	27Ah	175 x 166 x 125mm	8.6kg
15842	12Ah	150 x 98 x 95mm	4.1kg

Connection cables for 12 Volt batteries

- For all 9V energiser that can also be operated with 12V batteries
- Suitable for all horizont energisers pages 18, 23, 29, 33 and 39 and many previous models

Round connectors: ø 4–6mm, galvanize	d	
Part no.	EAN	Piece
90501C	4 014 8 03 4 05 8 5 2	1



Connection cable is included

in delivery volume of Super-Vlies-batteries.



• For all models of trapper AN fencecontrol



Connection terminals, single

black			red		
Part no.	EAN	Piece	Part no.	EAN	Piece
47PLAS00237	4014803 015044	1	47PLAS00235	4 014803 015037	1

Battery tester

- Tester for measuring the voltage of batteries
- The tester indicates with 10 lamps the voltage of the battery up to 14V

Part no.,	EAN	Piece
14672C	4 014803 146724	1









Attention!

At least every two month.

The self discharging of the horizont Super-Vlies-batteries is very low. While the battery is not in use, recharge regularly.

roduct / Part no.		Energy	230Vol	-power supply unit		
trapper® As 14983	S70	12V ≌				
trapper® As	S35	† 12V ≅ ∰	Part no.	EAN	Piece	
trapper® As	S20	12V ≅	47BCUK	9021385 009193	1	
farmer® AS 14475	570	12V≌				
farmer® AN 10637 (bis		12V 🔛 🙀	Part no.	EAN	Piece	E
farmer® AN 10636 (bis		12V 🔛 😽	97921UK	4 014803 441737	<u>1</u>	
farmer® AN 10897 (ab E		12V 🔛 😽	Part no.	EAN	Piece	
farmer® AN 10896 (ab E		12V 🔛	47PSU0008UK	5021385 008523	1	
ranger® AN 10993	17000	12V 🔛 😽				
ranger® AN	15000	12V 😭 😽	Part no.	EAN	Piece	
ranger [®] AN 10854	13000	12V 😭 😽	47PSU0010FUK	5021385008585	1	
ranger [®] AN 10854GPSD						
hotSH0CK®	° ABN5	12V 🔛 🙏				
farmer® AB	BN4	12V № AS	Part no.	EAN	Piece	(figure shows article 97921)
farmer [®] AN 10855	11000	12V 🔛 😽	47PSU0008FUK	50213850008523	1	
farmer [®] AN 10856	11000 Solar	12V 😭 😽				
ranger® A 10857	N70	12V 😭 😽	Part no.	EAN	Piece	1
ranger® A 10858	N50	12V 🔛 😽	47PSU0010UK	5021385008554	1	
trapper® A 10865	N24					1
trapper® Al 10866	N12	12V 🔛 😾	Part no. 47PSU0008UK	EAN	Piece	
trapper® Al	N8	12V 😭 😽	Part no.	EAN		
trapper® Al	N8	12V 🔛 😽	47PSU0009UK	5021385 008042	1	

- Suitable for all 12V lead acid batteries and 12V super-vlies special batteries from 1.2 up to 120Ah
 Full automatic and regulated charging
- LED state display
- Protected against dust and splash water
 Pulsecharging / preservation charging / duration charging
 230V / 50Hz voltage
- Complete with:

14863

74

nylon bag, connection cable with terminal clamps, connection cable with ring connectors, connection cable with terminal for cigarette lighter Part no. Product

Digital charging unit CHARGE BOX	4 260 173
12V / 3.6A	4260173

3030020

EAN Piece

Charging	time:

,

(
Part no.	Ah	Charging time (hours)	
15842	12Ah	4	
12025	26Ah	6.5	
15128	45Ah	11	
14124	63Ah	14	
14863	85Ah	16	
14125	88Ah	21	
14126	100Ah	23	

Digital charging unit CHARGE BOX 7.0

- Suitable for all 12V lead acid batteries and 12V super-vlies special batteries from 14 up to 230Ah
- Full automatic and regulated charging
- LED state display
- · Protected against overheating
- · Protected against dust and splash water
- Pulsecharging / preservation charging / duration charging
- 230V/50Hz voltage

• Complete with:

. .

nylon bag, connection cable with terminal clamps, connection cable with ring connectors, connection cable with terminal for cigarette lighter

Duradiura

14864	Digital charging unit CHARGE BOX	4260173-030037	Piece 1	14 25
				\sim

Battery-Guard

- With this product and its free app you are able to control the state of charge of batteries via your smartphone
- . Monitoring of 12 and 9 volts is possible
- The app is compatible with iPhone (starting from 4S), Android 4.3 and Windows 10
- · Power consumption approx. 6 to 24mW

Part no. Piece Product FAN 14525 Battery-Guard 1

1 Electrificable metal transport box

- Provides best protection against theft as it can be locked and electrified
- If anybody unauthorized touches the box they will feel a shock • Only the owner can open the metal box by using the insulated key and
- can operate the energiser
- For use with all 12 Volt battery energisers from range horiSMART®, farmer®, hotSHOCK®, equiSTOP® and ranger®
- Supplied complete with long earth spike (100cms) and 2 keys
- On- and off switch

Part no. 14444	EAN	Piece 1
Dimensions (I x w x h):	273 x 445 x 530mm	

(2) Mounting for solar modules

- Mounting for retrofitting to electrifiable transport box 15444 and for the transport boxes 14129 and 15466 (see below)
- Recommended for solar modules 5 Watt (141451), 10 Watt (140631), 20 Watt (140641) and 50 Watt (14873) (see p. 53-55)
- The drift angle of solar modules can be altered from 15 up to 75 degrees
- Complete with attachment screws









Charging time:

-....

			1
Part no.	Ah	Charging time (hours)	
12025	26Ah	5	
15128	45Ah	6	
14124	63Ah	8	
14864	85Ah	10	
14125	88Ah	11	
14126	100Ah	12	
25012B	230Ah	29	
			1



(Battery and energiser are not included in delivery.)

2

1

insulated key



Large metal transport box

- Large metal transport box for easy transport of 9V battery and 12V energisers
- With handle
- Metal transport box can be fitted with an attachment fixture for solar panels (see p. 75)
- Ideal for 12V batteries 63Ah and 85Ah



Part no. Product for models like horiSMART®, farmer®, ranger®, hotSHOCK®, equistop® and Camo® EAN Piece

1

4014803 144202

(Battery and energiser are not included in delivery.)

horizont

HIGHLIGHT

Create connections Do not knot! Connect

electrical conductive!

Fence material and accessories

Good visibility of the fence material helps the animal to accept the fence line as a barrier and helps maintain a secure fence . High conductivity ensures perfect transport of the energy.

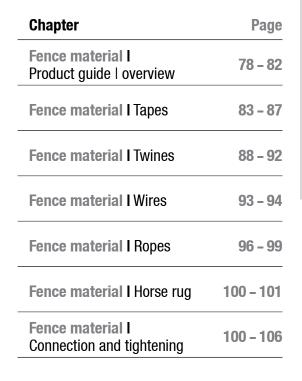




Super conductive TURBOMAX-tape for a secure fencing of your horses. > page 97



Good connection Tape connector instead of knots to secure a good connection. > page 103







Small and strained Tidy strained twines instead of sagging fence material. > page 105



			Max rec. fe	nce length									
Series	type	Product	Mains—/Accumulator energiser	Battery energiser	ল্ল	 *	1	~~	<i>a</i> t	?	¥	بمحر	Width / Ø
		TURBOMAX T12	17000 m	5600 m	-	-	Ń	-	đ	-	_	X	12 mm
	Таре	TURBOMAX T20	16500 m	5500 m	-	-	-	*	at	_	_	X	20 mm
		TURBOMAX T40	23 000 m	7700 m	₹.	-	-	1	at	-	_	X	40 mm
×		TURBOMAX W6	18500 m	6100 m	-	-	1	*	at	-	_	-	
ma	Twine	TURBOMAX W9	19000 m	6300 m	-	-	1	**	at	-	_	-	
turbomax		TURBOMAX W12	23 500 m	8000 m	-	-	1	*	at	-	_	-	
-		TURBOMAX R6-PE	16000 m	5300 m	-	-	_	-	at	-	-	X	6 mm
	Dono	TURBOMAX R7-PE	16000 m	5300 m	-	-	_	**	at	-	_	X	7 mm
	Rope	BRAIDED ROPE D3	18000 m	5900 m	-	-	_	**	a		_	X	3 mm
		BRAIDED ROPE D5,5	23500 m	8000 m	-		-	**	at	1	-	X	5.5 mm
		1					à						
	Таре	RANGER T12–W	13000 m	4300 m	-			**		-	_	×	12 mm
		RANGER T12–0	13000 m	4300 m	-	1	1	**		-	-	×	12 mm
		RANGER FLUO T12	13000 m	4300 m	-	1	1	**		-	-	×	12 mm
e		RANGER T20–W	13500 m	4500 m	-	1	*	~		-	-	×	20 mm
ranger [®]		RANGER T40–W	14500 m	4800 m	175		1	*		-	_	×	40 mm
rar		RANGER W3-0	12000 m	4000 m	-	**	*	1		-	-	-	
	Twine	RANGER W3–W	12.000 m	4000 m	-	1	*	1	R	-	-	-	
		RANGER FLUO W3	12000 m	4000 m	-	1	1	*	at	-	-	-	
	Rope	RANGER R6	14000 m	4600 m	-	***	*	*	at	-	_	-	5–6 mm
		RANGER FLUO R6	14000 m	4600 m	-	-	Ŵ	*	M	-	-	-	5–6 mm
® X	Таре	HOTSHOCK T12	10000 m	3 300 m	-	-	_	.	Ŕ	_	_	×	12 mm
ЮН	· ·	HOTSHOCK W6	12000 m	4000 m	-		*	-	-	_	_	×.	
hotSHOCK®	Twine	НОТЅНОСК Ѡ9	14500 m	5000 m	-		1	-	_	_	_	×.	
									. #				
<u> </u>	_	GREEN-POWER T12	12000 m	4000 m	-	•••	-	*		-	-	×	12 mm
Mer	Tape	GREEN-POWER T20	13500 m	4500 m	-		-			-	-	×	20 mm
green power-line		GREEN-POWER T40	14500 m	4800 m	175	-	-	**		-	_	×	40 mm
SEE	Twine	GREEN-POWER W3	12000 m	4000 m	-		*	*		-	_	-	
GF	Rope	GREEN-POWER R6	14000 m	4600 m	-		Ŕ	*	at	-	-	-	5–6 mm



				1	Types of co	nducter				,	
breaking load	Con– ductors	stainless steel	ironwire galvanized	aluminium	Copper	TID m <u>ax</u> -	<mark>TDm<u>ax</u>-</mark>	TBmax.	Resistance	Spool	Page
~ 60 kg	6	0.20 mm				0.30 mm			0.14 Ω/m	200 m	85
~ 140 kg	8	0.20 mm				0.25 mm			0.15 Ω/m	200 m	85
~ 240 kg	12	0.20 mm				0.25 mm			0.09 Ω/m	200 m	85
~ 180 kg	6					0.30 mm			0.12 Ω/m	200 / 400 / 1 000 m	90
~ 200 kg	9					0.25 mm			0.11 Ω/m	200 / 400 / 1 000 m	90
~ 220 kg	12					0.25 mm			0.08 Ω/m	200 / 400 / 1 000 m	90
~ 500 kg	6					0.25 mm			0.17 Ω/m	200 / 400 / 800 m	97
~ 600 kg	6					0.25 mm			0.17 Ω/m	200 / 400 m	97
~ 200 kg	6	0.15 mm							0.13 Ω/m	200 m	97
~ 600 kg	6	0.20 mm							0.09 Ω/m	200 m	97
~ 60 kg	4						0.22 mm		0.33 Ω/m	200 m	86
~ 60 kg	4						0.22 mm		0.33 Ω/m	200 m	86
~ 60 kg	4						0.22 mm		0.33 Ω/m	200 m	86
~ 120 kg	5						0.22 mm		0.27 Ω/m	200 m	86
~ 180 kg	8						0.22 mm		0.20 Ω/m	200 m	86
~ 160 kg	3						0.25 mm		0.35 Ω/m	200 / 400 / 1 000 m	91
~ 160 kg	3						0.25 mm		0.35 Ω/m	200 / 400 / 1 000 m	91
~ 160 kg	3						0.25 mm		0.35 Ω/m	200 / 400 m	91
~ 350 kg	6						0.22 mm		0.22 Ω/m	200 / 400 m	98
~ 350 kg	6						0.22 mm		0.22 Ω/m	200 m	98
~ 100 kg	4							0.30 mm	0.533 Ω/m	250 m	86
~ 100 kg	6							0.30 mm	0.356 Ω/m	200 / 400 m	92
~ 120 kg	9							0.30 mm	0.237 Ω/m	200 / 400 m	92
~ 60 kg	3						0.25 mm		0.35 Ω/m	200 m	87
~ 120 kg	5						0.22 mm		0.27 Ω/m	200 m	87
~ 180 kg	8						0.20 mm		0.20 Ω/m	200 m	87
~ 160 kg	3						0.25 mm		0.35 Ω/m	200 m	92
~ 350 kg	6						0.22 mm		0.22 Ω/m	200 / 400 m	99
							~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		175	_	

1 perfectly suitable 200 conditionally suitable

not recommended

Shorizont

			Max rec. fe	nce length									
Series	type	Product	Mains–/Accumulator energiser	Battery energiser	n <del>e</del> s	-	1	<b>~~</b>	æt	1	¥	×	Width / Ø
-		HOBBYGARD T8	12000 m	4000 m	-	-		-	đ	1 The	-	-	8 mm
obbygard equistop	Tama	EQUISTOP T20	13000 m	4300 m	-	-	1	<b>**</b>	at	Ent	Ý	-	20 mm
hobbygard / equistop	Tape	EQUISTOP T30	14000 m	4600 m	-	-	1	<b>*</b>	at	The	¥	-	30 mm
<u>ح</u>		EQUISTOP T40	14500 m	4800 m	The second se		1	-	at	1 Reck	¥	-	40 mm
<b>a</b>									4				
	Tape	HAPPY NT 2.0	13000 m	4300 m	-	-	-	<b>**</b>		17	Y	×	20 mm
***		HAPPY NT 4.0	14500 m	4800 m	1		_	<b>**</b>	<i>n</i> t	1	¥	×	40 mm
		FARMER T10	1 800 m	500 m	_		-	<b>~</b>	at	_	_	×	10 mm
	Таре	FARMER T20	2500 m	800 m	_					_	_		20 mm
	Tape	FARMER T40	3300 m	1100 m	<b>M</b>					_	_	*	40 mm
farmer®		FARMER W3	3000 m	900 m	-	* 1			đ		V	×	40 11111
farm	Turino										Y	×	
	Twine	FARMER W6	3500 m	1 100 m	-		*	<b>~</b>		1	15,	×	
		FARMER W9	4500 m	1 500 m	-		Ń	1		17	Ň	×	
	Rope	FARMER R6	4000 m	1 300 m	-		-		kel	Prek	_	-	6 mm
trapper®	Twine	TRAPPER W3	1 800 m	500 m	_	-	*	*	_	_	_	ж.	
		DEDERON WIRE	12000 m	4000 m	_		1	-	đ	_	¥	_	
		HORILITZE	12000 m	4000 m	_		<b>1</b>		đ	_	×	_	
		RANGER TWIST	6000 m	2000 m	-		<b>**</b>	-	<i>R</i>	1. T.	¥	_	
		HIGHTENSILE WIRE GALVADUR	30 000 m	11000 m	-		<b>**</b>	-	đ	_	V	بجر	
ں ا	3	GALVADUR	26000 m	8700 m	-		1		đ	_	¥	*	
		STEEL WIRE	28 000 m	9400 m	-		<b>*</b>	_	đ	1	V	-	
		STRANDED STEEL WIRE	18500 m	6100 m	-		1		_	-	-	_	
		MIXAL, 1.8mm ø	35000 m	12000 m	-	-	\$	<b>~</b>	-	-	-	×	
		MIXAL, 2.5mm ø	40 000 m	18000 m	-	-	#	*	_	-	_	×	
		DEDERON WIRE (STEUER)	12000m	4000m	-	-	Ŵ	<b>*</b>	-	-	-	-	



					Types of co	nducter	1			
breaking load	Con– ductors	stainless steel	ironwire galvanized	aluminium	Copper	TDm <u>ax</u> -	710m <u>ax</u> -	Resistance	Spool	Page
~ 30 kg	3						0.25 mm	0.35 Ω/m	100 m	87
~ 150 kg	4						0.22 mm	0.33 Ω/m	200 m	88
~ 220 kg	6						0.22 mm	0.22 Ω/m	200 m	88
~ 260 kg	8						0.20 mm	0.20 Ω/m	200 m	88
~ 130 kg	4						0.22 mm	0.33 Ω/m	200 m	88
~ 180 kg	8						0.20 mm	0.20 Ω/m	200 m	88
40 km	•	0.15 mm						14.40.0/m	000 / 0 × 000 m	
~ 40 kg	3	0.15 mm						14.40 Ω/m	200 / 2 x 200 m	89
~ 90 kg	4	0.15 mm						10.80 Ω/m	200 / 2 x 200 m	89
~ 120 kg	8	0.15 mm						5.40 Ω/m	200 m	89
~ 50 kg	3	0.18 mm						9.99 Ω/m	250 m	93
~ 60 kg	6	0.18 mm						4.98 Ω/m	250 / 400 m	93
~ 70 kg	9	0.18 mm						3.33 Ω/m	250 / 400 m	93
~ 250 kg	6	0.20 mm						4.05 Ω/m	200 / 400 m	99
~ 30 kg	3	0.15 mm						14.40 Ω/m	250 / 500 m	93
~ 30 kg	2		0.50 mm					0.35 Ω/m	500 / 1 000 m	94
~ 30 kg	2		0.50 mm					0.35 Ω/m	1 000 m	94
~ 30 kg	1		0.50 mm					0.70 Ω/m	200 m	95
~ 500 kg	1	2.50 mm						0.04 Ω/m	625 m	95
~ 200 kg	1	1.60 mm						0.06 Ω/m	315 m	95
~ 500 kg	1	1.80 mm						0.05 Ω/m	250 m	96
~ 200 kg	7	0.50 mm						0.12 Ω/m	200 / 400 m	96
~ 75 kg	1			1.80 mm				0.01 Ω/m	250 m	95
~ 150 kg	1			2.50 mm				0.006 Ω/m	400 m	95
~ 30 kg	2	0.50 mm						0.35 Ω/m	500 / 1 000 m	94

15 perfectly suitable

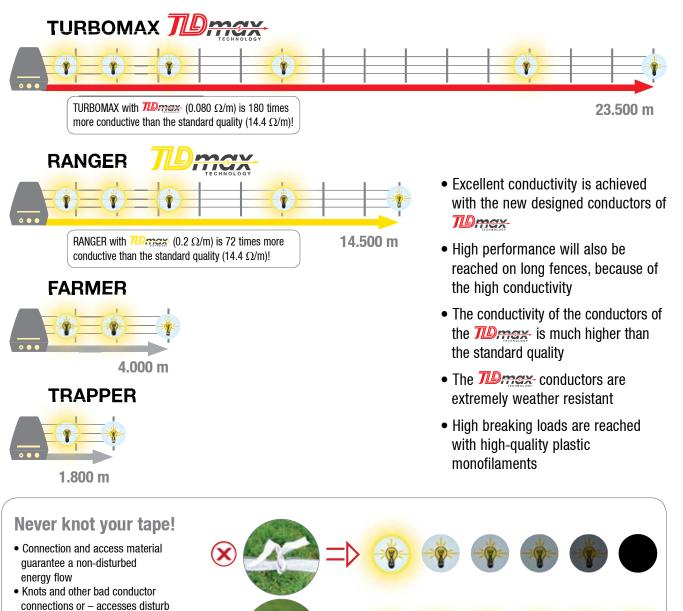
conditionally suitable

shorizont

10

not recommended

Tapes | Twines | Ropes



the energy flow • The conductor material at multistranded fences is connected

at regular distances

82

horizont

All prices are subject to VAT.



#### for maximum current flow



The bridge conductors allow a permanent current flow even with conductor breakage



Grouped **TD**mex – conductors for best conductivity and highest breaking strength



Polyethylene monofilaments ensures long-levity

#### **TURBOMAX**

- Excellent conductivity is achieved with the newly designed conductors of **TD**max.
- High performance can also be reached on long fences, because of the high conductivity
- The conductivity of the conductors of the TLPmax is much higher than the standard quality
- Tomes conductors are extremely weather resistant
- High breaking loads are reached with high-quality plastic monofilaments
- 5 years warranty for UV-stability



Part no.	Product	Width	Colour		Spool	EAN	Piece	ALL
17110	TURBOMAX T12	12mm	bla	ack/white/black	200m	4 014803 171108	1	3 124
17111	TURBOMAX T20	20mm	bla	ack/white/black	200m	4 014803 171115	1	
17112	TURBOMAX T40	40mm	bla	ack/white/black	200m	4 014803 171122	1	ANTILIV

	Width	Spool	Conduc-	Diameter		Resistance	$\bigcirc$	Max rec. fer	rec. fence length	
			tors	stainless steel	JU TECHNOLOGY			main energiser	dry battery energiser*	
17110	12mm	200m	6	0.20mm	0.3mm	0.14Ω/m	~60kg	17 000m	5600m	18
17111	20mm	200m	8	0.20mm	0.25mm	0.15Ω/m	~140kg	16500m	5 500m	8
17112	40mm	200m	12	0.20mm	0.25mm	0.09Ω/m	~240kg	23000m	7700m	3

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

ไปและกันที่มีที่มีที่ได้ ในได้เหลือกันสารชาต

TURBOMAX T40

ney



With yellow outer edges for better visibility

Grouped *max*-conductors for best conductivity and highest breaking strength

Up to 72 times (0.2  $\Omega$ /m) more conductive than the standard quality (14.4  $\Omega$ /m)



• The high number of *Tomax* conductors in all Ranger-tapes ensure a good conductivity

- Grouped TDmax conductors for best conductivity and highest strengths
- Polyethylene monofilaments for highest tensile strength
- 3 years warranty
- White tape with yellow outer edges

Dmax
13000mm

Part no.	Product	Width	Colour	Spool	EAN	Piece
17113	RANGER T12-W	12mm	yellow/white/yellow	200m	4 014803 171139	1
17114	RANGER T20-W	20mm	yellow/white/yellow	200m	4 014803 171146	1
17115	RANGER T40-W	40mm	yellow/white/yellow	200m	4 014803 171153	1
17117	RANGER T12-0	12mm	yellow/orange/yellow	200m	4 014803 171177	1



#### 

- The tape Ranger Fluo is very visible because of its fluorescent colour
- Especially visible in front of dark backgrounds, like woodland
- High number of TOmax conductors for best conductivity
- Grouped 70 mex conductors for best conductivity and highest strengths
- Monofilaments with highest UV-protection
- · Polyethylene monofilaments for highest tensile strength

Tape hotSHOCK

High durability by additional protection
Especially made for strong energisers

Polyethylen monofilaments with a high UV-protection
5 times higher conductivity than stainless steel conductors

• 3 years warranty

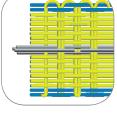
Part no.	Product	Width	Colour		Spool	EAN	Piece
17116	RANGER FLUO T12	12mm		fluorescent acting	200m	4 014803 171160	1



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RANGER FLUO TI

PE





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Part no. Product Width Colour Spool EAN Piece 17202 hotSHOCK 12mm white/red/white 200m 10 14803 17 2020 1

	Width	Spool	Conduc-	TBmax-	TDmax-	Resistance		Max rec. fer	ice length	
			tors	TECHNOLOGY	TECHNOLDOY			main energiser	dry battery energiser*	
17113	12mm	200m	4	-	0.22mm	0.33Ω/m	~60kg	13000m	4 300m	18
17114	20mm	200m	5	-	0.22mm	0.27Ω/m	~120kg	13500m	4 500m	8
17115	40mm	200m	8	-	0.20mm	0.2Ω/m	~180kg	14500m	4 800m	8
17117	12mm	200m	4	-	0.22mm	0.33Ω/m	~60kg	13000m	4 300m	18
17202	12mm	250m	4	0.30mm	_	0.533Ω/m	~100kg	10.000m	3 300m	16

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

### GREEN POWEr-line Tomax

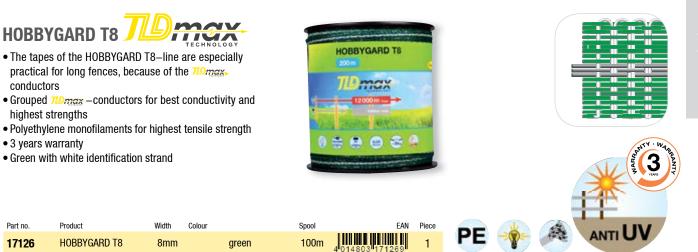
- The tapes of the Green power-line are especially practical for long fences, because of the *max* conductors
- Because of the green colour, the tape fits perfectly to the landscape
- · Good visibility because of the white identification strand
- Grouped Tomax conductors for best conductivity and highest strengths
- Monofilaments with highest UV-protection
- Polyethylene monofilaments for highest tensile strength
- 3 years warranty





17118       GREEN-POWER T12       12mm       green       200m       1       1         17119       GREEN-POWER T20       20mm       green       200m       1       1         17120       GREEN-POWER T40       40mm       green       200m       1       1	Part no.	Product	Width	Colour	Spool	EAN	Piece		S
4"014803"171191"	17118	GREEN-POWER T12	12mm	green	200m	4 014803 171184	1		17
17120 GREEN-POWER T40 40mm green 200m 4014803 171207 1 PE 💎 🥓 ANT	17119	GREEN-POWER T20	20mm	green	200m	4 014803 171191	1		4
	17120	GREEN-POWER T40	40mm	green	200m	4 014803 171207	1	PE 🥐 (	ANT





Part no.	Width	Width Spool Conduc-			Resistance		Max rec. fe		
			tors	TECHNOLOGY			main fencers	dry battery fencers*	
17118	12mm	200m	3	0.25mm	0.35Ω/m	~60kg	12000m	4 000m	18
17119	20mm	200m	5	0.22mm	0.27Ω/m	~120kg	13500m	4 500m	15
17120	40mm	200m	8	0.20mm	0.2Ω/m	~180kg	14500m	4 800m	8
17126	8mm	100m	3	0.25mm	0.35Ω/m	~30kg	12000m	4 000m	42
		* Rec. fend	ce length to be re	educed to 50% with medi	um vegetation growth	n and to 20% with	n heavy vegetation growth	. Icon description pleas	se see cover.

85

Morizont 🕈



- The tapes of the Equistop-line are especially practical for long fences, because of the TOmax conductors
- High tensile load is possible because of strengthened outer edges
- Grouped TLamax conductors for best conductivity and highest strengths
- Monofilaments with highest UV protection

EQUISTOP T20-W

EQUISTOP T20-B

EQUISTOP T30-G

EQUISTOP T40-W

EQUISTOP T40-B

• Polyethylene monofilaments for highest tensile strength

Width

20mm

20mm

30mm

40mm

40mm

Colour

white

brown

green

white

brown

• 3 years warranty

Part no.

17121

17122

17123

17124

17125

• Colours white, brown and green Product



EAN

Piece

1

1

1

1

1

PE

edges 1.4mm Polyamid !

Spool

200m

200m

200m

200m

200m

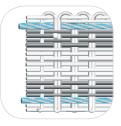
TANITALITATION CONTRACTOR



• The happy-tapes are available in widths of 20mm and 40mm

· Highly visible coloured edges



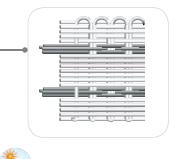


Part no.	Product	Width	Colour	Spool	EAN	Piece													
17136HG	Happy NT2.0	20mm	lime/white/lime	200m 4	014803 444677	1					_								
17136LI	Happy NT2.0	20mm	purple/white/purple	200m ₄	014803 444684	1				4	APANT,	and the state	ANTY - W	SPNTY · W	ANTY WA	Stanty - Wag	ANTY WARE	ST TY - WARD	Stanty - Way
17136TU	Happy NT2.0	20mm	turquoise/white/turquoise	200m 4	014803 444691	1	-		4	A PAR	MA	AN VEN	A J VEARS	A J J VEARS	A J YEARS	A J J VEARS	A J J J J VEARS	A J YEARS	AT A VEARS
17137HG	Happy NT4.0	40mm	lime/white/lime	200m ₄	014803 444707	1		13	P	A	A	TA -	A	A	A	A	A	A	A
17137LI	Happy NT4.0	40mm	purple/white/purple	200m ₄	014803 444714	1		-	Carlo			-111/	_1.11/	-111/					
17137TU	Happy NT4.0	40mm	turquoise/white/turquoise	200m ₄	014803 444721	1	PE 🥐 🧖	AI	NTI	NTIU		NTIUV	NTIUV	NTIUV	NTIUV	NTIUV	NTIUV	NTIUV	NTIUV

Part no.	Width	Spool	Conduc–	TDmax-	Resistance	$\bigcirc$	Max rec. fe	nce length	
			tors	TECHNOLOGY			main fencers	dry battery fencers*	
17121	20mm	200m	4	0.22mm	0.33Ω/m	~150kg	13000m	4 300m	8
17122	20mm	200m	4	0.22mm	0.33Ω/m	~150kg	13000m	4 300m	8
17123	30mm	200m	6	0.22mm	0.22Ω/m	~220kg	14000m	4 600m	6
17124	40mm	200m	8	0.20mm	0.2Ω/m	~260kg	14500m	4 800m	4
17125	40mm	200m	8	0.20mm	0.2Ω/m	~260kg	14500m	4 800m	4
17136HG	20mm	200m	4	0.22mm	0.33Ω/m	~130kg	13000m	4 300m	8
17136LI	20mm	200m	4	0.22mm	0.33Ω/m	~130kg	13000m	4 300m	8
17136TU	20mm	200m	4	0.22mm	0.33Ω/m	~130kg	13000m	4 300m	8
17137HG	40mm	200m	8	0.20mm	0.2Ω/m	~180kg	14500m	4 800m	4
17137LI	40mm	200m	8	0.20mm	0.2Ω/m	~180kg	14500m	4 800m	4
17126TU	40mm	200m	8	0.20mm	0.2Ω/m	~180kg	14500m	4 800m	4

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

Grouped stainless steel conductors for best conductivity and highest breaking strength





#### FARMER

- These standard tapes are suitable for short fences and paddocks
- High breaking strength
- Monofilaments with a high UV-stability
- Colour: white, yellow/orange or green.

Part no.	Product	Width	Colour	Spool	EAN	Piece
17451	FARMER T10-W	10mm	white	200m 4014803	174512	1
17287	FARMER T10-0	10mm	yellow/orange	200m 4014803	172877	1
17475	FARMER T20-W	20mm	white	200m 4014803	174758	1
17475GR	FARMER T20-G	20mm	green	200m 4014803	428806	1
17528	FARMER T20-0	20mm	yellow/orange	200m 4014803	175281	1
17458	FARMER T40-W	40mm	white	200m 4014803	174581	1
17458GR	FARMER T40-G	40mm	green	200m 4014803	428813	1

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#### **FARMER** in double packs

I	Part no.	Product	Width	Colour	Spool	EAN	Piece
	17271	FARMER T10-W	10mm	white	2 x 200m	4 014803 172716	1
	17272	FARMER T20-W	20mm	white	2 x 200m	4 014803 172723	1
	17273	FARMER T10-0	10mm	yellow/orange	2 x 200m	4 014803 172730	1
	17274	FARMER T20-G	20mm	yellow/orange	2 x 200m	4014803 172747	1



Part no.	Width	Spool	Con-	Diametre	Resistance		Max rec. fer	ice length	
			ductors	stainless steel			main fencers / 12V*	dry battey fencers*	
17451	10mm	200m	3	0.15mm	14.4Ω/m	~40kg	1 800m	500m	18
17287	10mm	200m	3	0.15mm	14.4Ω/m	~40kg	1 800m	500m	18
17475	20mm	200m	4	0.15mm	10.8Ω/m	~90kg	2 500m	800m	15
17475GR	20mm	200m	4	0.15mm	10.8Ω/m	~90kg	2 500m	800m	15
17528	20mm	200m	4	0.15mm	10.8Ω/m	~90kg	2 500m	800m	15
17458	40mm	200m	8	0.15mm	5.4Ω/m	~120kg	3300m	1100m	8
17458GR	40mm	200m	8	0.15mm	5.4Ω/m	~120kg	3 300m	1100m	8
17271	10mm	2 x 200m	3	0.15mm	14.4Ω/m	~40kg	1 800m	500m	16
17272	20mm	2 x 200m	4	0.15mm	10.8Ω/m	~90kg	2 500m	800m	8
17273	10mm	2 x 200m	3	0.15mm	14.4Ω/m	~40kg	1 800m	500m	16
17274	20mm	2 x 200m	4	0.15mm	10.8Ω/m	~90kg	2 500m	800m	8

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

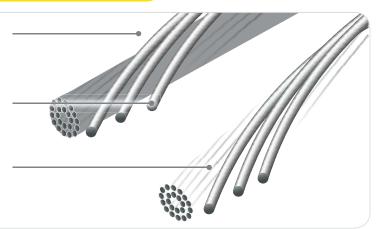


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Turbomax (0.080 $\Omega$ /m) is 180 times more conductive than the standard quality  $(14.4\Omega/m)!$ 

**TDmax** conductors for best conductivity and highest breaking strength

Monofilaments with highest UV-protection





#### **TURBOMAX**

- Tomax conductors provide maximum conductivity and a high tensile strength among all Turbomax strength
- The high number of *manage* conductors ensure a high energy flow and high conductivity
- Polyethylene monofilaments with highest UV-protection
- Polyethylene monofilaments for highest tensile strength
- 5 years warranty for UV-stability



Part no.	Product	Con– ductors	Colour	Spool	EAN	Piece
17140	TURBOMAX W6	6	white/black/white	200m	4 014803 171405	1
17140-400	TURBOMAX W6	6	white/black/white	400m	4 014803 437891	1
17140-1000	TURBOMAX W6	6	white/black/white	1000m	4 014803 437907	1
17141	TURBOMAX W9	9	white/black/white	200m	4 014803 171412	1
17141-400	TURBOMAX W9	9	white/black/white	400m	4 014803 437914	1
17141-1000	TURBOMAX W9	9	white/black/white	1000m	4 014803 437921	1
17142	TURBOMAX W12	12	white/black/white	200m	4 014803 171429	1
17142-400	TURBOMAX W12	12	white/black/white	400m	4 014803 437938	1
17142-1000	TURBOMAX W12	12	white/black/white	1000m	4 014803 437945	1



Part no.	Spool	Conduc–		Resistance	$\bigcirc$	Max rec. fence length		
		tors				main fencers	dry battery fencers*	
17140	200m	6	0.30mm	0.12Ω/m	~180kg	18500m	6100m	18
17140-400	400m	6	0.30mm	0.12Ω/m	~180kg	18500m	6100m	8
17140–1000	1 000m	6	0.30mm	0.12Ω/m	~180kg	18500m	6100m	4
17141	200m	9	0.25mm	0.11Ω/m	~200kg	19000m	6 300m	18
17141-400	400m	9	0.25mm	0.11Ω/m	~200kg	19000m	6 300m	8
17141–1000	1 000m	9	0.25mm	0.11Ω/m	~200kg	19000m	6 300m	4
17142	200m	12	0.25mm	0.08Ω/m	~220kg	23500m	8 000m	18
17142–400	400m	12	0.25mm	0.08Ω/m	~220kg	23500m	8 000m	8
17142–1000	1 000m	12	0.25mm	0.08Ω/m	~220kg	23500m	8000m	4

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

Up to 42 times more conductive (0.35  $\Omega/m)$  than the standard quality (14.4  $\Omega/m)$ 

Grouped *TDmax* conductors for best conductivity

UV-stabilized polyethylene monofilaments for best resistance



- The high number of *TLPmax* conductors in all RANGER twines ensure a good conductivity and high tensile strength
- The high number of *TDmax* conductors ensure a high energy flow and a high conductivity
- Monofilaments with highest UV-protection
- · Polyethylene monofilaments for highest tensile strength
- 3 years warranty

Part no.	Product	Con– ductors	Colour	Spool	EAN	Piece
17143	RANGER W3-0	3	orange/grey/orange	200m	4 014803 171436	1
17143-400	RANGER W3-0	3	orange/grey/orange	400m	4 014803 437952	1
17143-1000	RANGER W3-0	3	orange/grey/orange	1000m	4 014803 437969	1
17144	RANGER W3-W	3	orange/grey/orange	200m	4 014803 171443	1
17144-400	RANGER W3-W	3	orange/grey/orange	400m	4 014803 437976	1
17144-1000	RANGER W3-W	3	orange/grey/orange	1000m	4 014803 437983	1



Twines

Fence material and accessories



	AND
藏	ANTI UV



Part no.	Spool	Conduc–		Resistance		Max rec. fence length		
		tors:				main fencers	dry battery fencers*	
17143	200m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	32
17143-400	400m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	18
17143–1000	1 000m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	4
17144	200m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	32
17144-400	400m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	18
17144–1000	1 000m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	4
17145	200m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	32
17145-400	400m	3	0.25mm	0.35Ω/m	~160kg	12000m	4000m	18

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

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#### Twine hotSHOCK JB



- Polyethylene monofilaments with high UV-protection
  5 times higher conductivity than stainless steel conductors
- High durability
- Especially made for strong energisers
- (for instance sheep or wild animal protection)
- 3 years warranty



Part no.	Product	Con– ductors	Colour	Spool E	AN	Piece
17203	hotSHOCK W6	6	white/red/white	250m 4 014803 17203	7	1
17208	hotSHOCK W6	6	white/red/white	400m 4014803 17208	2	1
17204	hotSHOCK W9	9	white/red/white	250m 4 014803 17204	4	1
17209	hotSHOCK W9	9	white/red/white	400m 4014803 17209	9	1

<ul> <li>The twine: fences, be</li> <li>Because o</li> <li>Very visibl</li> <li>Grouped 7</li> <li>Monofilan</li> </ul>	cause of the <u>TDma</u> of the green colour, the le because of the wi <u>TDmax</u> -conductors for nents with highest U ene monofilaments f	r–line ar condine twine nite ider for best o V-prote	fits perfectly to the la tification strand conductivity and high ction	andscape					een-pOWe	W3 C C C C C C C C C C C C C C C C C C C	TY BY REALITY
Part no.	Product	Con– ductors	Colour	Spool	EAN	Piece		TLD	and a	++-	
17146	GREEN POWER W3	3	green	200m	4 014803 171467	1	PE		free o	ANTI U	

	Spool	Con-	TBmax-	TDmax-	Resistance	$\bigcirc$	Max rec. fen		_
		ductors	ductors "Convolution				main fencers / 12V*	dry battey fencers*	
17203	250m	6	0.30mm	-	0.356Ω/m	~100kg	12000m	4 000m	20
17204	400m	9	0.30mm	-	0.237Ω/m	~120kg	14 500m	5 000m	18
17208	250m	6	0.30mm	-	0.356Ω/m	~100kg	12000m	4 000m	50
17209	500m	9	0.30mm	-	0.237Ω/m	~120kg	14 500m	5 000m	24
17146	200m	3	-	0.25mm	0.350Ω/m	~160kg	12000m	4000m	32

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

#### FARMER

- Polywire standard qualities for short and medium sized fence lengths with increased number of strong monofilaments for higher breaking strength
- More special features are:
- Twice as many monofilaments as a standard quality.
- Monofilaments with highest UV-protection
- Best breaking strength
- Colour: white and yellow/orange/yellow

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TRAPPER W3

TRAPPER W3

14.4

500 m



Part no.	Product	Con– ductors	Colour	Spool	EAN	Piece
15346	FARMER W3-W	3	white	250m	4 014803 153463	1
15282	FARMER W6-W	6	white	250m	4 014803 152824	1
15283	FARMER W6-W	6	white	400m	4 014803 152831	1
15347	FARMER W9-W	9	white	250m	4 014803 153470	1
15277	FARMER W9-W	9	white	400m	4 014803 152770	1
15345	FARMER W3-0	3	yellow/orange/yellow	250m	4 014803 153456	1
15277	FARMER W9-W	9	white	400m	4 014803 152770	1

#### **TRAPPER**

- For short fences only
- Colour: yellow/orange/yellow



Part no.	Product	Con– ductors	Colour	Spool	EAN	Piece	
15567	TRAPPER W3	3	yellow/orange/yellow	250m	4 014803 155672	1	
15849	TRAPPER W3	3	yellow/orange/yellow	500m	4 014803 158499	1	PE

Part no.	Spool	Con-	Diametre	70max	Resistance		Max rec. fer		
		ductors	stainless steel	ΤΕΟΝΝΟΙΟΟΫ			main fencers / 12V*	dry battey fencers*	4_
15345	250m	3	0.18mm	-	9.99Ω/m	~50kg	3 000m	900m	32
15346	250m	3	0.18mm	-	9.99Ω/m	~50kg	3 000m	900m	32
15282	250m	6	0.18mm	-	4.98Ω/m	~60kg	3 500m	1100m	32
15283	400m	6	0.18mm	-	4.98Ω/m	~60kg	3 500m	1100m	18
15347	250m	9	0.18mm	-	3.33Ω/m	~70kg	4 500m	1 500m	20
15277	400m	9	0.18mm	_	3.33Ω/m	~70kg	4 500m	1 500m	18
15567	250m	3	0.15mm	-	14.4Ω/m	~30kg	1 800m	500m	50
15849	500m	3	0.15mm	-	14.4Ω/m	~30kg	1 800m	500m	24

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

Twines



#### Original "Steuer" wire bound to tradition!

- High tensile strength (without any loss of conductivity)
- small electric resistance (0.36 0hm / m)
- safe passage of impulse to the animal
- Plastic core ø 1.5mm
- Entwined with 2 special conductors
- Galvanized metal wire

- The electric wire type "Steuer" has enjoyed an excellent reputation for more than 60 years. Especially within the newly-formed German states its advantages are wellknown therefore the "Steuer" wire is in high demand.
- · horizont has succeeded in continuing the success of this product with the accustomed original quality. The original "Steuer" wire is produced in Wittgensdorf / Saxony and distributed by horizont exclusively. Therefore the preservation as well as the enhancement of the product can be ensured.



			500m			
Part no.	EAN	Piece	Part no.	EAN	Piece	
14505-1000	4014803 450715	1	14505–500	4014803 145055	1	



#### **Dederon wire "Original Steuer"**

- Plastic core 1.4 mm diameter
- Entwined with 2 special conductors
- Galvanized metal wire

1000m			500m		
Part no.	EAN	Piece	Part no.	EAN	Piece
15833S	4014803 426420	1	15531S	4 014803 426413	1

Part no.	Spool	Conduc-	HIGH	Diameter	Resistance		Max rec. fence length		<u> </u>
		tors	TENSILE	stainless steel			main fencers	main fencers	
14505–1000	1 000m	2		0.5mm	0.36Ω/m	~30kg	12000m	4000m	1
14505–500	5000m	2		0.5mm	0.36Ω/m	~30kg	12000m	4000m	1
15833S	1 000m	2		0.5mm	0.35Ω/m	~30kg	12000m	4000m	1
15531S	500m	2		0.5mm	0.35Ω/m	~30kg	12000m	4000m	1

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

#### Mixal – Aluminium wire

- Increased magnesium level
- Especially for permanent fences
- High conductivity, for long fences without any loss of voltage
- Additional protection against corrosion
- Fast and easy to set up



Mixal, 400	)m, 1.8mm ø		Mixal, 250m,	2.5mm ø	
Part no.	EAN	Piece	Part no.	EAN	Piece
14882	4 ⁰ 014803 ¹ 148827	1	19853	4014803 198532	1





#### High tensile wire GALVADUR

- Special wire with a thick galvanized zinc/alu long time protection (95% zinc and 5% aluminium)
- High tensile wire has four times longer life compared to normal steel wires

	60Em (_	OEka)	2 Emm a
GALVADUR 2.5,	0ZƏHI (=	: zoky),	Z.ƏHHH Ø

#### GALVADUR 1.6, 315m (= 5kg), 1.6mm ø

Part no.	EAN	Piece	Part no.	EAN	Piece	
15945	4 014803 159458	1	15904	4014803 159045	1	

Part no.	Spool		HIGH	Diameter	Resistance		Max rec. fence length		
		tors	TENSILE	stainless steel			main fencers	main fencers	
14882	250m	1		1.8mm	0.01Ω/m	~75kg	35 000m	12000m	1
19853	400m	1		2.5mm	0.006Ω/m	~150kg	40v000m	18000m	1
15945	625m	1		2.5mm	0.04Ω/m	~500kg	30 000m	11 000m	1
15904	315m	1		1.6mm	0.06Ω/m	~200kg	26000m	8700m	1

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.







Part no.	Spool	Con-	Diameter	Resistance	$\frown$	Max rec. fence length

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14134-400

		ductors	stainless steel			main fencers / 12V*	dry battey fencers*	
15036	250m	1	1.8mm	0.05Ω/m	~500kg	28 000m	9400m	5
15036S	250m	1	1.8mm	0.05Ω/m	~500kg	28 000m	9400m	5
15009	200m	7	0.5mm	0.12Ω/m	~200kg	18 500m	6100m	1
14134	200m	7	0.5mm	0.12Ω/m	~200kg	18 500m	6100m	1
14134–400	400m	7	0.5mm	0.12Ω/m	~200kg	18500m	6100m	1

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

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Up to 84 times more conductive  $(0.17\Omega/m)$  than the standard quality  $(14.4\Omega/m)!$ 

Grouped **TDmax**- conductors for best conductivity and highest breaking strength

UV stabilized polyethylene filaments for best resistance



#### **TURBOMAX**

- The high number of *Themax* conductors in all TURBOMAX ropes ensure a high conductivity and high tensile strength
- The high number of *max* conductors ensure a high energy flow
- Polyethylene monofilaments with highest UV-protection
- Polyethylene monofilaments for highest tensile strength
- 5 years warranty
- · Colour: white with black identification strand

Part no.	Product	Ø	Spool	EAN	Piece		SK	HEARS
17180	TURBOMAX R6-PE	6mm	200m	4 014803 171801	1		T	
17180-400	TURBOMAX R6-PE	6mm	400m	4 014803 431998	1		1 1	N/
17180-800	TURBOMAX R6-PE	6mm	800m	4 014803 438003	1		ANTI	V
17181	TURBOMAX R7-PE	7mm	200m	4 014803 171818	1			
17181-400	TURBOMAX R7-PE	7mm	400m	4 014803 438287	1	PE 👌	<b>*</b> -	

URBOMAX R6-P

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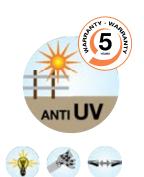
Part no.	Spool	Conduc–		Resistance	$\bigcirc$	Max rec. fence length		
		tors			A A A A A A A A A A A A A A A A A A A	main fencers	dry battery fencers*	
17180	200m	6	0.25mm	0.17Ω/m	~500kg	16000m	5300m	8
17180–400	400m	6	0.25mm	0.17Ω/m	~500kg	16000m	5 300m	3
17180–800	800m	6	0.25mm	0.17Ω/m	~500kg	16000m	5 300m	1
17181	200m	6	0.25mm	0.17Ω/m	~600kg	16000m	5 300m	8
17181–400	400m	6	0.25mm	0.17Ω/m	~600kg	16000m	5300m	3



#### **Braided Rope TURBOMAX**

- The high number of mixed conductors (copper and stainless steel) ensure a strong conductivity
- Excellent conductivity is achieved by a high number of conductors
- Polyethylene monofilaments for highest tensile strength
- 5 years warranty for UV-stability
- Colour: white with black identification strand

Part no.	Product	ø	Spool	EAN	Piece
14512	Braided Rope D3	3mm	200m	4014803 145123	1
14512-400	Braided Rope D3	3mm	400m	4014803 452948	1
14513	Braided Rope D5,5	5.5mm	200m	4014803 145130	1
14513-400	Braided Rope D5,5	5.5mm	400m	4014803 452955	1



Part no.	Spool	Conduc-	Nirosta	copper	Resistance	$\bigcirc$	Max rec. fe	fence length	
		tors					main fencers	dry battery fencers*	
14512	200m	9	6 x 0.15mm	3 x 0.25mm	0.13Ω/m	~200kg	18000m	5900m	
14512-400	400m	9	6 x 0.15mm	3 x 0.25mm	0.13Ω/m	~200kg	18000m	5900m	
14513	200m	9	6 x 0.2mm	3 x 0.3mm	0.09Ω/m	~600kg	23500m	8 000m	
14513-400	400m	9	6 x 0.2mm	3 x 0.3mm	0.09Ω/m	~600kg	23500m	8 000m	

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.

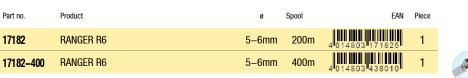
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- The high number of *TLPmax* conductors in all TURBOMAX ropes ensure a high conductivity and high tensile strength
- The high number of *TDmax* conductors ensure a high energy flow
- Monofilaments with highest UV-protection
- Polyethylene monofilaments for highest tensile strength
- 3 years warranty
- Colour: white with yellow identification strand







RANGER R6

max

TRATA

RANGER FLUO	
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- The rope RANGER FLUO is very visible because of its fluorescent colour
- Especially visible in front of dark backgrounds, like woods
- High number of *Illings* conductors for safety and highest conductivity
- Monofilaments with highest UV-protection
- Polyethylene monofilaments for highest tensile strength
- 3 years warranty



Part no.	Product	Con– ductors	Colour	ø	Spool	EAN	Piece				iτ.
17184	Ranger Fluo R6	6	fluores– cent	6mm	200m	4 014803 171849	1	PE	ARE:	- <b>*</b>	ANTI

Part no.	Spool	Conduc–	Diameter	Tinned	TDmax-	Resistance	$\bigcirc$	Max rec. fe	nce length	
		tors	stainless steel	copper	TECHNOLOGY			main fencers	dry battery fencers*:	
17182	200m	6	-	-	0.22mm	0.22Ω/m	~350kg	14000m	4600m	8
17182-400	400m	6	-	-	0.22mm	0.22Ω/m	~350kg	14000m	4600m	3
14184	200m	6	-	-	0.22mm	0.22Ω/m	~350kg	14000m	4600m	8

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.



#### **RANGER STRETCH W8**

- Elastic rope with conductors
- 3 conductors
- Resistance: 8.1/m
- 0.2mm stainless steel breaking strength 100kg
- Ideal for gate handle set with rope
- Length: 50m

Part no.	Product	Con– ductors	Colour	Ø	Spool	EAN	Piece
462560	RANGER STRETCH W8	1	white/black/white	8mm	50m	3485630 025604	1



GREEN <b>POWE'-</b>	Ne R6	TDmax technology
---------------------	-------	---------------------

- The twines of the Green power-line are especially practical for long fences, because of the *TDmax* conductors
- Because of the green colour, the twine fits perfectly to the landscape
- Very visible because of the white identification strand
- The high number of *IDmax* conductors ensure a high energy flow
- Monofilaments with highest UV-protection
- Plastic monofilaments for highest tensile strength
- 3 years warranty

Part no.	Product	Con– ductors	Colour	ø	Spool	EAN	Piece
17183	GREEN-POWER R6	6	white	5–6mm	200m	4 014803 171832	1
17183–400	GREEN-POWER R6	6	white	5–6mm	400m	4 014803 438027	1



#### FARMER

- For short fences onlyColour: white





Part no.	Product	Con– ductors	Colour	ø	Spool	EAN	Piece
153372	FARMER R6 200	6	white	6mm	200m	4 014803 438034	1
153372-400	FARMER R6 400	6	white	6mm	400m	4014803 438041	1

Part no.	Spool Con		Diameter	TDmax-	Resistance	$\bigcirc$	Max rec. fe	nce length	
		tors stainless steel	110/10/001			main fencers	dry battery fencers*:		
153372	200m	6	0.20mm	-	4.05Ω/m	~250kg	4000m	1300m	8
153372-400	400m	6	0.20mm	-	4.05Ω/m	~250kg	4000m	1 300m	3
17183	200m	6	_	0.22mm	0.22Ω/m	~350kg	14000m	4 600m	8
17183–400	400m	6	_	0.22mm	0.22Ω/m	~350kg	14000m	4600m	3

* Rec. fence length to be reduced to 50% with medium vegetation growth and to 20% with heavy vegetation growth. Icon description please see cover.



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**Horse rug Guardian Equestrian** 

HIGHLIGHT

### Guardian Høtline Electric Fencing

# **Guardian Equestrian**

#### - Combining comfort with safety

Guardian's FENCE BUSTER[™] turnout rug is designed to work with electric fencing to prevent escapes. The chest and neck areas of our patented Fence Buster rugs have the benefit of integrated panels designed to instantly transfer the pulse from an electric fence directly through to the inside of the rug; so your horse will feel the same effect from the electric fence as they would if not wearing a rug.

Normal rugs can make an electric fence ineffective as they insulate the horse from the fence. This patented product has been designed so that when the horse makes contact with an electrified fence, the shock bypasses the fabric and the shock from the electric fence is instantly transferred to the horse. (see step 3).



#### **Outdoor rug "Genius"**

- Turnout rugs that work with electric fencing
- Unpadded Og
- 1 200 Denier

100

• Waterproof 3 000mm, PU-coated

Part no.	Total length	Back length	EAN	Piece
47RUG00G-43	4FT3IN / 130cm	85cm	9021385 009421	1
47RUG00G-46	4FT6IN / 140cm	90cm	5021385 009438	1
47RUG00G-49	4FT9IN / 149cm	95cm	9021385009445	1
47RUG00G-5	5FT / 153cm	100cm	9021385 009452	1
47RUG00G-53	5FT3IN / 162cm	110cm	9021365 009469	1
47RUG00G-56	5FT6IN / 170cm	115cm	5021385 009476	1
47RUG00G-59	5FT9IN / 176cm	125cm	5021365 009483	1
47RUG00G-6	6FT / 185cm	130cm	5021365 009490	1
47RUG00G-63	6FT3IN / 191cm	140cm	5021385 009506	1
47RUG00G-66	6FT6IN / 198cm	145cm	9021385 009513	1
47RUG00G-69	6FT9IN / 206cm	155cm	9021385 009520	1
47RUG00G–7	7FT / 215cm	160cm	5021365 009537	1

#### How it works Turnout rug: Step by step guide



Step 1: The outer layer of the chest panel makes contact with an electrified fence.

# Step 2:

The shock is transferred to the inner surface of the inside strap

Step 3:

The inside strap is in contact with the horse at the shoulder, so the horse feels the shock from the fence

- · Cross surcingle, fillet string, quick snap & adjustable chest closure
- Liner rugs can be used as first layer, without restricting the function
- Washable at 30°C with special washing agent for outdoor rugs, do not tumble dry



#### horizont

### Fence Buster™ Turnout rug and

#### removable neck cover

- Electric fence panels in the rug & neck cover
- 1680D Ballistic polyester outer
- Teflon coated
- 250g throughout rug and neck cover
- Breathable anti rub 190T Nylon lining
- Rip-stop chest & neck cover
- Removable rear leg straps
- Quick snap & adjustable chest closure
- Extra large tail guard
- Taped seams
- Fleece wither relief pad
- Cross surcingle

#### Outdoordecke Fence Buster™ and removable neck cover

Part no.	Total length	Back length	EAN	Piece
47RUG250BN-5	5FT / 153cm	100cm	5021385 008905	1
47RUG250BN-53	5FT3IN / 162cm	110cm	5021385008912	1
47RUG250BN-56	5FT6IN / 170cm	115cm	5021385 008929	1
47RUG250BN-59	5FT9IN / 176cm	125cm	5021385 008936	1
47RUG250BN-6	6FT / 185cm	130cm	5021385008943	1
47RUG250BN-63	6FT3IN / 191cm	140cm	5021385 008950	1
47RUG250BN-66	6FT6IN / 198cm	145cm	5021385 008967	1
47RUG250BN-69	6FT9IN / 206cm	155cm	5021385008974	1
47RUG250BN-7	7FT / 215cm	160cm	5021385 008981	1

## Fence Buster™ Turnout rug, removable neck cover and liner

- Electric fence panels in the rug & neck cover
- 1680D Ballistic polyester outer
- Teflon coated
- 250g throughout rug and neck cover
- Breathable anti rub 190T Nylon lining
- Rip-stop chest & neck cover
- Removable rear leg straps
- Quick snap & adjustable chest closure
- Extra large tail guard
- Taped seams
- Fleece wither relief pad
- Cross surcingle

#### Outdoordecke Fence Buster™ and removable neck cover and liner

Part no.	Total length	Back length	EAN	Piece
47RUG250BNL-59	5FT9IN / 176cm	125cm	5021385008998	1
47RUG250BNL-6	6FT / 185cm	130cm	5021385009001	1
47RUG250BNL-63	6FT3IN / 191cm	140cm	50213850009018	1
47RUG250BNL-66	6FT6IN / 198cm	145cm	5021385009025	1
47RUG250BNL-69	6FT9IN / 206cm	155cm	5021385009032	1





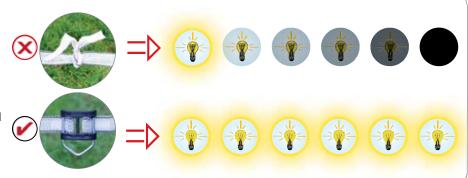
• Liner rug

• 420d polyester Outer

Stain resistant
150g filling

#### Never knot your tape!

- Connectors guarantee a non-disturbed energy flow
- Knots and other bad connections disturb the energy flow
- The conductive material at multistranded fences will be connected in regular distances



#### Tape connectors Aluminium

Joins tapes up to 40mm simply and reliably
Simple restraining possible

15164C	for tapes up to 40mm, aluminium		
15163C	for tapes up to 20mm, aluminium		
Part no.	Product		
• Simple resulating possible			

~~~~	
EAN	Piece
4014803 405630	10
4014803 405647	5



Tape strainer Aluminium for tapes up to 20mm

for tapes up to 20mm

- Ideal for tensioning tapes
- With just a few turns the tape is firmly tensioned and can be loosened again the other way round

FAN

Piece

2





Product

Part no.

15455C

Tape connector 40mm

- Easy to apply to the tape
- Fits to all usual tapes
- Continuous metal support
- Sturdy tape connector with metal supports out of one piece supported by unbreakable plastic

Part no.	EAN	Piece
14987C	4014803 149879	5







Tape connector 20mm

- Easy to apply to the tape
- Fits to all standard tapes
- Continuous metal support
- Sturdy tape connector by metal supports out of one part
- Unbreakable plastic

Part no.	EAN	Piece
14988C	4 014803 149886	10



Tape connection for gate handles

- Tape is easy and safe to use
- Fits to all standard tapes
- Galvanized metal support
- Sturdy tape connector with metal supports out of one piece supported by unbreakable plastic







Tape connection cablewith 2 screw clips for tape up to 40mm

• This tape connection cable with clips will connect 2 tapes up to 40mm running parallel or bridge two tape ends

Piece

EAN Piece

10

4014802405288

stainless steel

Part no.

14045C

- Cable length 50cm
- Screw fixing allows for very firm connection

Part no.	EAN
10446C	4 014803 405562



Wire connector

galvanized

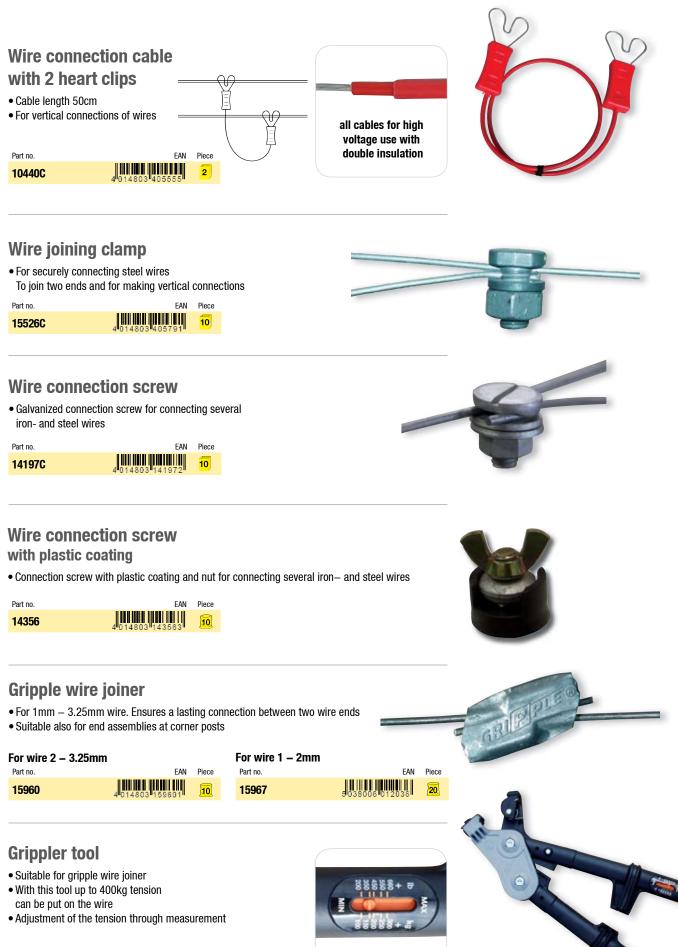
Part no.

15063C

- For a secure and durable connection of polywires
- For connections from twines to gate handles

I	EAN	Piece	stainless steel
	4014803 140456	10	





Part no. EAN Piece 15962 = 038006 012548 1

All prices are subject to VAT.

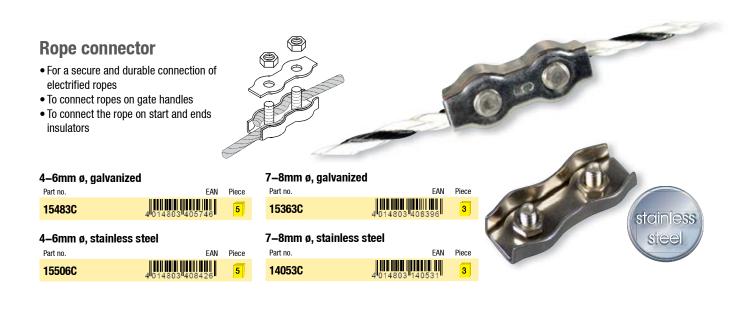


Wire and rope strainer

- Suitable for wires and ropes up to 6mm diameter and tapes up to 13mm diameter
- Easy to apply
- Easy straining is possible at any time
- The wire or the rope does not have to be cut

Part no. EAN Piece 14991 4014803 149916 2







5-6mm ø, galvanized

EAN

Piece

1

Part no.

10596C

EAN

horizont

Piece

7-8mm ø, stainless steel

Part no.

10597C

106

All prices are subject to VAT.

stainless

stee

Insulator with perfect

Unique

isolation! > **p.115**

Insulators

Insulators hold the conductive material in place around the enclosure. High isolation capacity is necessary to avoid an unintentional loss of energy. You can find the correct insulators for your fence on the following pages.





Fixing Suitable for tapes, twines and ropes. The conductor material is fixed. > see.p 112





Helpful device To screw in the insulators with a cordless drill. > see p. 117



Distance Keep conductor material at a distance. > see p. 120

Chapter	Page
Insulators I product guide overview	108 - 109
Insulators I for tapes	110 - 113
Insulators I for twines	114 - 117
Insulators I screw in aid	117
Insulators I for wires	118
Insulators I for ropes	119
Insulators I distance insulators I corner insulators	120 - 122
Insulators I supplementary insulators	123 - 126



			Suital	ble for		Suita	ble as	Fix	ing	Fence m	aterial is	Sup	port	UV	
Type of insulator	description	tape (mm)	rope (mm)	twine (mm)	wire (mm)	distance	end or corner insulator	support ø (mm)	screws (mm)	fixed	free moving	long	short	UV– stability	Page
	TURBOMAX I-40 PLUS	40	8	4		•	•		5	•				•	110
	COMBI IS-40 15682	40	8	4		•	•	6			•		•	•	112
es	EQUIBLOCK 14161	40		4		•			5	•				•	111
tap	RANGER I–40 FIX 15373	40				•			5	•				•	111
Insulator for tapes	RANGER IS-40 FIX 15388	40				•		6		•			•	•	111
tor	RANGER I–40 15460	40				•			5		•			•	112
sula	RANGER I–40FIX PLUS 14990	40	8			•			5	•				•	112
lns l	Corner I–40 15571	40	8	4		•			5		•			•	113
	CORNER I–40 PLUS 15572	40					•		5	•				•	113
	RANGER IS-20 15555	20		4		•		5			•			•	111
	RANGER IS-L 15370	13		4		•	•	6			•	•		•	114
	RANGER IS–S 15461	13		4		•	•	6			•		•	•	114
	GIGANT IS-S 140271	13		4		•	•	6			•		•	•	115
les	RANGER IS-W PC 15485			3		•	•	6		•	•	•		•	116
wir	FARMER IS-L 15364	13		4		•	•	5.3			•		•	•	115
Insulator for twines	FARMER PND 14984	13		4		•		8			•			•	115
t 1	FARMER IS-S 15275	13		4		•		5.3			•		•	•	116
ulat	FARMER IS-W 15275			3		•		5.3		•	•	•		•	116
lns	TRAPPER IS–S 14176	13		4		•		5.3			•		•	•	116
	Nailway insulator 153021			2		•			Nail		•			•	116
	Bobbin insulator 15495			2		•			Nail		•			•	117
	Staple insulator 15457			2		•			Staple		•			•	117
res	HOT STOP I–20 15929	20	8		2.5	•	•		5		•			•	118
L V	Pin–Lock 14933			4	2.5	•	•		5		•			•	118
Insulator for wires	Permanent fence insulator economy 14164		6		2.5	•	•		5		•			•	118
Insul	Wire insulator economy 14165		6	4	2.5	•	•		5		•			•	118
tor	TURBOMAX IS-8 15835	13	8	4		•	•	6			•		•	•	119
Insulator for ropes	Insulator for rope standard 14198	13	8	4		•		6			•		•	•	119
е \$	Insulator for rope	13	8	4		•			5		•		•	•	119

			Suital	ole for		Suital	ble as	Fix	ing	Fence m	aterial is	Sup	port	UV	
Type of insulator	description	tape (mm)	rope (mm)	twine (mm)	wire (mm)	distance	end or corner insulator	support ø (mm)	screws (mm)	fixed	free moving	long	short	UV– stability	Page
L L	COMBI ISD-40 14938	40	8	4		•		6			•		•	•	120
lato	TURBOMAX ISD-8 15838	13	8	4		•		6			•		•	•	120
Distance Insulator	TURBOMAX ISD-8 metric 15073	13	8	4		•		M6			•		•	•	120
nce	RANGER ISD-20 15186	12		4		•		6			•		•	•	120
ista	RANGER ISD 15595	20		4		•		6			•		•	•	121
D	FARMER ISD 14937	13		4		•		6			•		•	•	121
	Corner insulator 15830	40					•				•		•	•	122
Corner Insulator	CORNER IS-W 10012		8	4			•	7			•		•	•	121
	CORNER I–W 15183			4			•		5		•			•	122
a >	Porzellan 15925				2.5	•	•			•	•				122
Distance Insulator	ABS 14061				2.5	•	•			•	•			•	122
ista Isul	PP 15070				2.5	•	•			•	•			•	122
	Porcelain 15194				2.5	•	•			•	•			•	122
	Ring insulator 15293			4		•					•			•	124
	clip insulator for fiberglass posts 14046	13		4		•					•			•	124
	IP-15 15129		8	4		•					•			•	125
Irs	COMBI IP-15 15290	13	6	4		•					•			•	125
sulators	IP19 15474	20		4		•					•			•	125
	Plastic loop 15480	20	8	4		•					•			•	126
ry i	Spare insulator 15059			4		•					•			•	123
Inta	Spare insulator 15053			4		•					•			•	123
Supplementary ir	Metall clip 150511			4		•					•			•	123
pple	Spare insulator 15415	20		4		•					•			•	123
Sul	Splint insulator 15805			4		•					•			•	124
	Insulator for tape	40		4		•					•			•	125
	CLIP MASTER 14903			4	2.5										126
	Head insulator 14922			4	2.5	•				•				•	126

Legend:

40 • Ideally suited

40 Limited suitability





TURBOMAX I-40 and TURBOMAX I-40 PLUS

TURBOMAX I-40 PLUS (with connection plate)

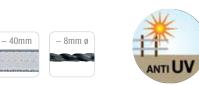
Part no.	EAN	Piece						
15843C	4014803 405470	7						
Connection plate (without picture)								
Part no.	EAN	Piece						

Part no 14874

No risk of losing the screw as it is held in the housing by a nut

The connection plate can be used to attach a sub-division tape, also to connect to a gate handle or lead out cable

Holds up to extreme tractive forces



TURBOMAX I-40 (without connection plate)

Part no. 15837C



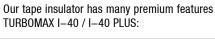
- Fixation of tapes up to 40 mm

· Massive insulation body due to high material input

- Fixation of ropes up to 8 mm
- Connection plate (I-40 PLUS) for connection of tapes and twines

EAN Piece

• Ideal for the beginning of your fence or as an end insulator or 3-way insulator (I-40 PLUS)





As insulator for fence opening



As insulator with tape connection



As three-way insulator



As insulator with gate connection



As insulator for cross connection of tape with cable



Easy handling - one hand strains the tape, the other one fastens the screw





Insulators for tapes

The EQUIBLOCK insulator keeps the tape strained and secure. EQUIBLOCK insulators are available in two different versions, with and without rubber inlay. Specially with the version with rubber inlay 20mm and 40mm tape is fixed and strained in the insulator. The insulator is closed with two plastic screws.



COMBI IS—40 • Short support • Large drying surface • Thread for wood • For tapes up to 40mm • For twines and ropes up to 8mm ø	- 40mm - 8mm ø	For tapes up to 40mm For ropes up to 8mm Easy to
	Piece	screw in
15682 4 014803 156822		
15390C 4 014803 153906	25	
15390El 4014803413147	80	
15390EI–150 4 ^{10,1480,3142,6840}	Allows free	
	movement!	
COMBI IS-40 happy		
Part no. Colour	EAN Piece	
15390HG-30 lime	4014803 444646	
15390LI–30 purple	4014803 441966 30	
15390TU–30 turquoise	4014803 441942	
RANGER I-40	– 40mm – 8mm ø	







RANGER I-40 FIX PLUS

- For screwing in or nailing on
- Can also be fixed with cable ties
- For tapes up to 40mm
- \bullet For wires and ropes up to 8mm ø

Part no.	EAN	Piece	ind
14990	4014803 149909	25	UV
14990C	4014803 446527	20	
14990EI	4 014803 446534	120	





Tape will be fixed!



112 **Shorizont**





- With protection against twisting
- Smooth setup change in existing fence system
- Screw in and nail on possible



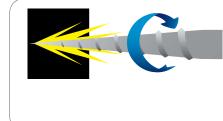


Tape will be fixed!



stainless

stee



horizont threaded insulator backing for wood

- Long and taper thread for easy installation
- Self-tapping thread for easy screwing in.
- Primary drilling and primary counterbore is not required
- Sharp thread edges for a secure fit
- Insulator backing is produced with specially coated steel

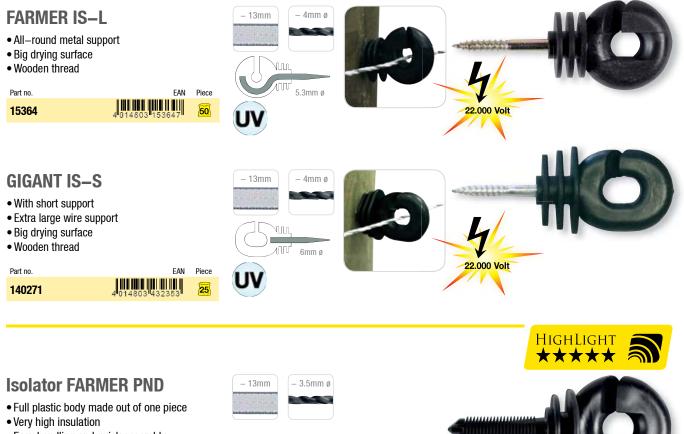
• With short support • Big drying surface • Wooden thread	t		- 13mm			
Part no.	EAN	Piece				- ANDRA
15370	4014803 153708	25	30.000 V	olt	27.00	0 Volt
15370C	4014803421616	25			-	
15370–50	4014803405340	50	ALC PROPERTY OF			The
15370EI	4 014803 002792	120			A	
15370EI-240	4014803 428554	240	Highest electric strength	All–round metal support	Big drying surface	Made of highest quality plastic
All-round metal si • All-round metal si • Big drying surface • Wooden thread Part no. 15341–25 15341C	upport	25	- 13mm - 4mm ø - 4mm ø - 4mm ø - 4mm ø			
RANGER IS–L hap Part no. 15370HG 15370LI 15370TU	py _{Color} lime purple turquoise	4"014803 4 014803	EAN Piece 3444639 25 441676 25 3441676 25		6	

RANGER IS-S

- With short support
- Big drying surface
- Backing and wooden thread

Part no.	EAN	Piece
15461	4 014803 154613	25
15461C	4 014803 421623	25
15461–50	4 014803 405357	50
15461El	4 014803 002785	120





- Easy handling and quick assembly
- · Safe support through functional principal of pegs
- Universal use fits all drills

Part no.	EAN	Piece	
14984	4014803 149848	50	
14984EI	4 014803 446374	150	*

*The bucket contains a universal 8mm HSS-drill attachment free of charge









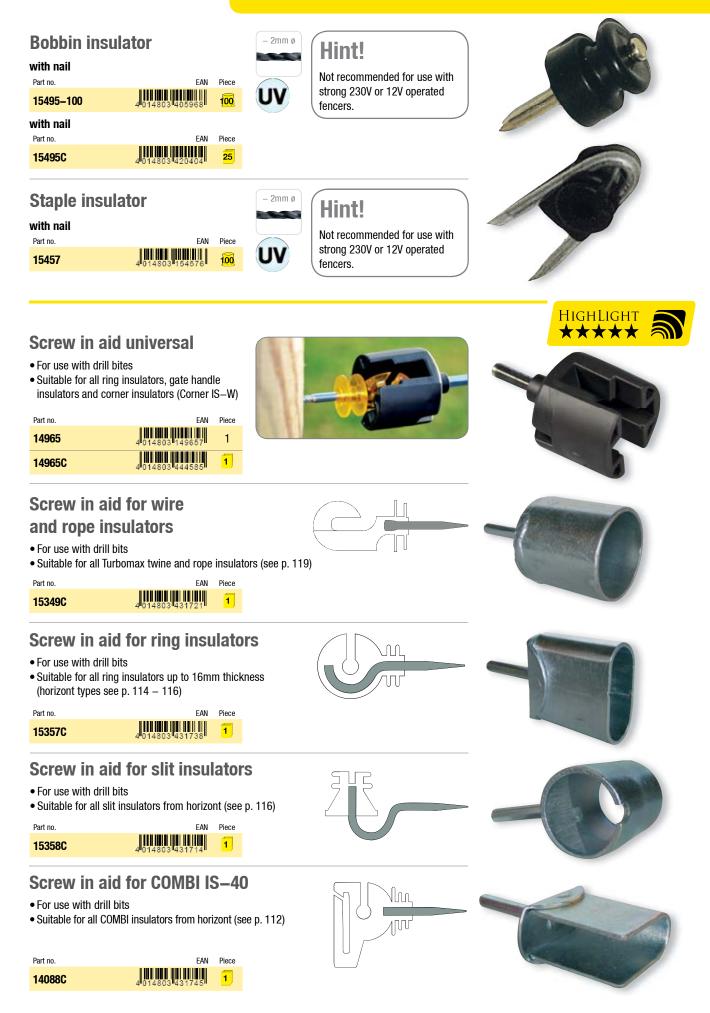






FARMER		– 12mm	- 4mm ø		
 With short su Big drying su Wooden thread 	rface				
Part no.	Product		EAN	Piece UV	
15275C	black		4014803 420695	25	
15275	black		4014803 152756		
15275–25	black		4 014803 420923	25	
15275EI	black		4014803419859	120 24.000	Volt
15275GE	yellow		4 014803 417602	50	
15275GE-25	yellow		4 014803 420916	25	and some and some last provide a low
15275RT	red		4 014803 421586	50	
Farmer-	Rox	Part no.	EAN	Piece	Farmer-Box
Contains:	DUX	14957EI	4014803 443441	100	OP 1 DE
 97 insulators 2 gate handle 1 screw-in to 	es 15817SW				horizont
TRAPPER	2_215	– 12mm	– 4mm ø		
	wooden thread			 autume 	
Part no.	EAN	Piece		-	
14493–50	4014803 144935	50	Police -		
 Made of high polycarbonate For wires up Wooden threat Part no. 15485 15485C 	to 2mm	Piece 25			
	4"014803"194899"				
Farmer IS	S–W	– 3mm ø			
 For wires up 1 Wooden threa 		ZC	5mm ø		
Part no.	Product		EAN		
15278	black		4 ¹ 014803 ¹ 152787 ¹		
15278-25	black		4014803 420947	<u></u>	
15276 15276–25	yellow		4 014803 152763	<u>50</u> 25	
13270-23	yellow		410148031420930		
Nailaway with nail	/ insulator	– 2mm ø	Hint! Not recommended for use v	vith	20
Part no.		Piece	strong 230V or 12V operate		
15302	4014803405838		fencers.		
116	horizont				All prices are subject to VAT.

Insulators Insulators and screw in aid



HOT STOP I-20

- Extremely solid and UV-resistant insulator
- Ideal for high tensile wire GALVADUR
- For tapes up to 20mm and ropes up to 8mm ø
- Insulator can be screwed-in or nailed on
- The most powerful of its class



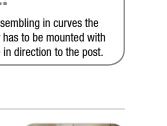


Part no.	EAN	Piece
15929-10	4014803 408389	10
15929C	4 014803 405494	20
15929EI	4014803002938	45

Hint! UV

– 8mm ø

When assembling in curves the insulator has to be mounted with pressure in direction to the post.





Permanent fence insulator **Economy**

- For wires and ropes up to 8mm
- For fence tape up to 12mm
- To be nailed or screwed onto posts







Wire insulator **Economy**

- For wires and ropes up to 6mm
- For fence tape up to 12mm
- To be nailed or screwed onto posts





– 2.5mm ø



Pin-Lock

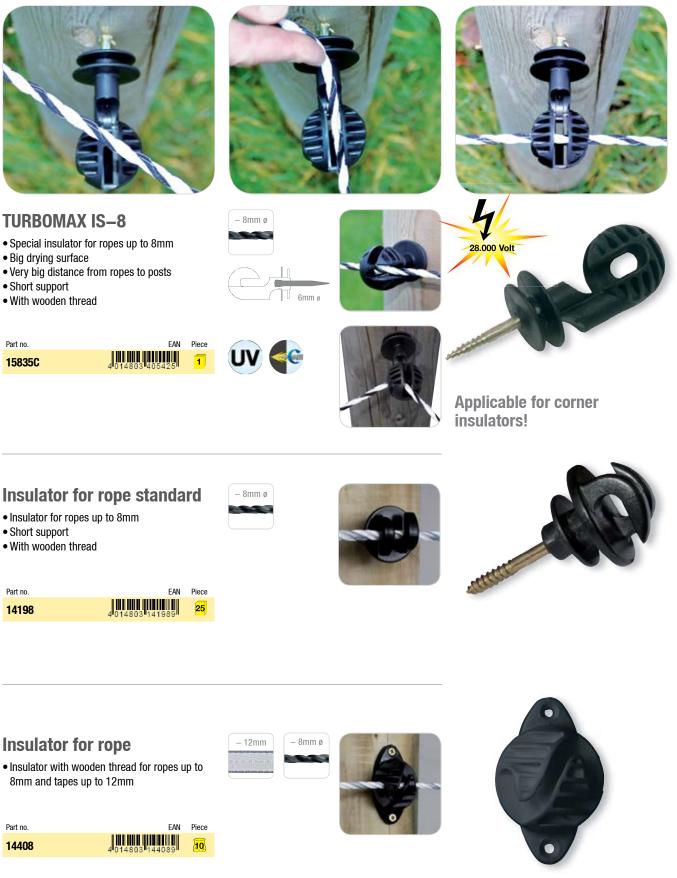
118

• Insulator with wooden thread for twines up to 4mm and permanent fencing twines 1.6 and 2.5mm

Part no.	EAN	Piece
14933–50	4014803 440655	50



These insulators are unique twine and rope insulators. They lie well in the hand and thus allows mounting without additional tools. The special feature is the construction of the insulator head. The fence material is inserted easily from above, so the fence material will not fall out. We offer this top product as a special insulator for electrical rope up to 8mm.









122 **Shorizont**

Spare insulator

• Spare insulator for oval posts and round posts (see p. 144)





with plastic ring for round post			
Part no.	EAN	Piece	
15059–50	4014803 405326	50	
with metal ring for round post			

with plastic ring for c	oval post	
Part no.	EAN	Piece
15053–50	4014803 405302	50
	_	

with metal ring for oval post

Part no.		
15054–50	4 014803 405319	50

D: .



Spare insulator with metal clip

• For all 8mm round- or metal posts (see p. 144)

Part no.

Part no.

15060-50



EAN Piece

50

4014803 405333



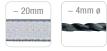
UV

– 4mm ø



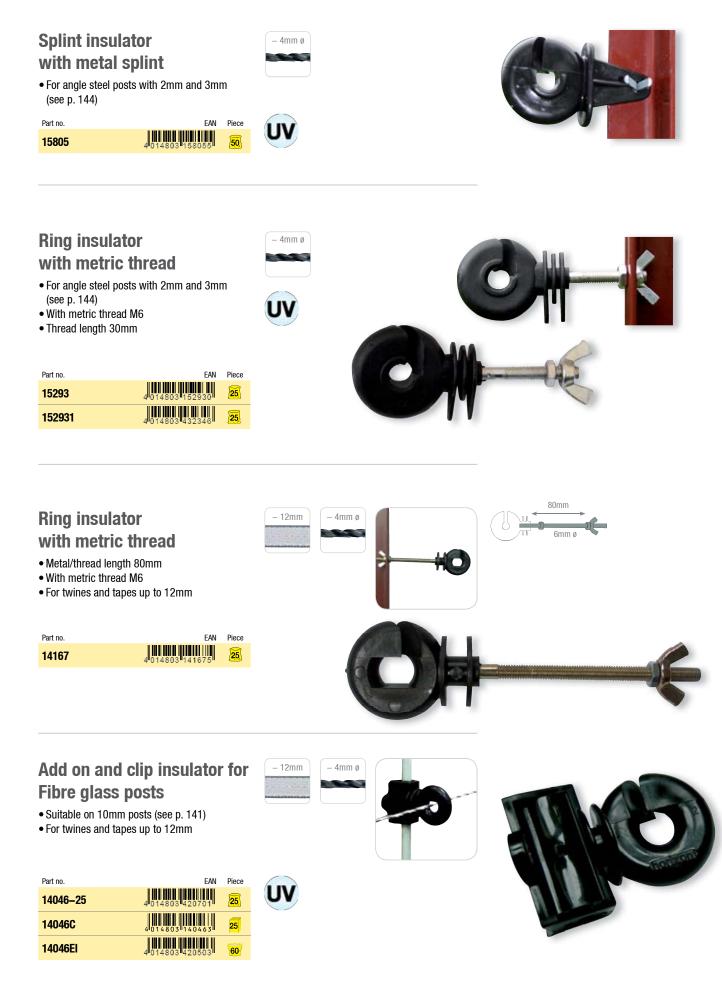
Spare insulator plastic

• For all 8mm round- or metal posts (see p. 144)











IP-15

- For posts up to 15mm ø
- For twines and ropes up to 8mm
- Open at rear for direct post installation

Part no.	EAN	Piece	-
15129	4 014803 151292	10	UV
15129C	4014803 420473	25	
15129El	4 014803 420541	60	



• For posts up to 15mm ø

Part no.

15290

15290C

15290EI

- For tapes up to 12mm
- \bullet For twines and ropes 6mm ø
- Open at rear for direct post installation



– 12mm

UV

– 40mm

– 4mm ø



Tape insulator to screw

- For round posts up to 12mm ø
- For tapes up to 40mm (not for EQUISTOP tape)
- \bullet For wires and ropes up to 6mm ø
- \bullet Locking tab to secure tape in place

Part no.
14969-25

EAN Piece

EAN Piece

10

U٧

EAN Piece

25

25

60

1014802 152000

4014803417923

IP-19

- For posts up to 7-19mm ø (see p. 142)
- For tapes up to 12mm
- For ropes up to 6mm ø
- Open at rear for direct post installation







 For posts 14885, (see p. 141) For permanent fe For twines 	14887, 14888, 14886 ncing		– 3mm ø		
For round posts 1		Diago			
Part no. 14903C	EAN 4 ⁰ 014803 ⁰ 149039	Piece 25			
14903–100	4 014803 438119	100			0
For round posts 1			– 3mm ø		
Part no. 14904C	EAN	Piece			
14904–100	44014803438126	100			
Head insula • For fibreglass por • For wires up to 2	sts 12mm ø		– 2mm ø		
For fibreglass po					
Part no. 14922	EAN	Piece	UV		
(see p. 142) • For tapes up to 2 • For ropes up to 8 For posts 19mm (Part no. 15480	mm ø	Piece	UV		PO
Plastic loop)		– 40mm – 8mm ø		*
 Suitable for posts (see p. 142) For tapes up to 4 For ropes up to 8 	: 10090, 15376 und 153 Omm mm ø	77			30)
Part no. 15481	EAN 4 ¹ 014803 ¹¹ 54811	Piece 10	UV		
Plastic loop • Suitable for posts • For twines and ro • For tapes up to 1	s 14886 (see p.141) pes		20	- 23	Plastic loop • Suitable for posts 14886 (see p.141) • For twines and ropes • For tapes up to 12mm
For posts 12mm				-57	For posts 10mm ø
Part no.	EAN	Piece			Part no. EAN Pie

Gates, Reels & Posts

Gate solutions allow safe and easy access through the fence line. Solid and steady posts provide a perfect fitting for the conductive material. We have many practical products that enable you to erect a quick and effective electric fence.





The compression spring holds up
high forces permanently.
> page 129

Chapter	Page	
Gates, Reels & Posts I Gate handles and sets	128 – 134	
Gates, Reels & Posts I Reels	135 – 137	
Gates, Reels & Posts I Posts	138 – 144	

Gates, Reels & Posts

HIGHLIGHT ★★★★★

SMART post

new construction

Plastic post with robust

> p. 138–139







High energy Exchangeable plastic reel with high capacity. Maxi Roller 4000 > page 135



UV Made of high **TURBOMAX** quality material TURBOMAX G, with hook, black Part no. EAN Piece Made of high quality UV 15139E 1 polycarbonate for strengthened insulation TURBOMAX GL, with loop, black at high voltage energisers Part no. EAN Piece 4014202 402470 10013E 1 PC TURBOMAX G-PC, with hook, yellow CCCCCC Part no. EAN Piece 15445E 1 TURBOMAX GL-PC, with loop, yellow Extremely strong and durable spring Part no. EAN Piece 4044802402402 1 15436E

RANGER G

- Can be hooked into all gate handles and corner insulators
- With additional loop at the gate handle for fixing of fence material
- Colour: black
- Extra large flanges

RANGER G, with hook



FARMER G

- Standard gate handle with simple tension spring
- With additional loop at the gate handle for fixing of fence material

Part no.	EAN	Piece
15817GE	FARMER G, with hook, yellow	1
15817SW	FARMER G, with hook, black	1
15817SW-5	FARMER G, with hook, black	5
158170R	FARMER G, with hook, orange 40148031417879	1
158170R-5	FARMER G, with hook, orange $4 I_{014803} I_{417886} I_{417886} $	5
15817HG	FARMER G, with hook, lime $4001480314446601 $	1
15817LI	FARMER G, with hook, purple $400148038441638 $	1
15817TU	FARMER G, with hook, turquoise $4_{014803}^{\bullet} 4_{1614}^{\bullet} $	1



FARMER GL

• Standard gate handle with simple tension spring

• With additional loop at the gate handle for fixing of fence material



14080SW FARMER GL, with loop, black



UV





Gate handle made of stainless steel

- Hook and rotating compression spring made of stainless steel
- Reinforced insulation, therefore suitable for use with powerful fencers
- With spring movement limitation

Part no.	EAN	Piece	00
14350	4014803 143501	1	PC

TRAPPER G

- Standard gate handle with simple tension spring
- With additional loop at the gate handle for fixing of fence material
- With spring movement limitation

with hook

Part no.	EAN	Piece
14172SW	4 014803 141729	1

RANGER GT-40

- With the additonal mounted tape connector you can fasten a tape up to 40mm directly at the gate handle
- For ideal gate opening
- Same construction as type 15295 (see p. 128)

with loop

Part no.	
156031	4 0 1 4 8 0 3 4 4 6 5

EAN Piece









RANGER GT-40

- With the additonal mounted tape connector you can fasten a tape up to 40mm directly at the gate handle
- For ideal gate opening
- Same construction as type 15139E (see p. 128)

with hook, green





TRAPPER GT

- Complete with fixed tape connector for tapes up to 40mm
- The tape can be connected directly to the gate handle and ensures optimal gate opening / connection
- With spring movement limitation

with hook







Gate handle insulator

- Screw-in type for wooden or recycled posts
- Suitable for gate handles both with hook and with loop
- Colour: black

Part no.	EAN	Piece	
14092C	4014803 140920	2	
14175	4 014803 141750	10	
15126C	4014803 405616	5	



Gate handle insulator prevent proof

- No movement of the loops whilst in the gate handle
- Screw-in type for wooden or recycled posts
- Suitable for gate handles both with hook and with loop
- Colour: black





Gate handle insulator with metric thread

- With metric 6mm thread
- Length of support / thread: 30mm
- For all gate handles with loop and look

Part no.	EAN	Piece	
14169C	4014803 141699	5	UV



Gate handle insulator with thimble

- With screw-in support for wooden posts and recycled posts
- For all gate handles with loop and hook
- With thimble. The thimble provides secure connection of rope and protects the rope against damage

UV 🧲 C

Part no.	EAN	Piece
14170C	4014803 141705	2







Gate handle insulator

- Insulator with metal connection plate
- For use with all gate handles fitted with hook
- An additional wire joining clamp (part no. 15526C) (see p. 104) allows easy electrification of a multistrand fence
- \bullet To be screwed or nailed on





HIGHLIGHT

Gate handle insulator with tape connector

- Gate handle insulator with metal plate and tape connector
- The tape can be attached easily
- To be screwed-in or nailed on

Part no.



U



Gate handle insulator

- With metal plate and tape connection for tape 40mm
- The tape can be attached easily
- All gate handles with hooks can be hooked in easily







Gate handle set with tape, 40mm

- Special gate handle set which allows trouble free opening without ground contact
- 40mm wide tape automatically rolls back if gate is opened
- Extendable up to 6m
- Rope is conducting electrica up to the take up reel
- Set contains: wall- / postmounting, gate handle and tape

Part no.	EAN	Piece
143510	4 014803 143518	1

Gate handle set with 6mm PE rope

- Special gate handle set which allows trouble free openings without ground contact
- Rope automatically rolls back if gate is opened
- Extendable up to 6m
- Tape is conducting electrica up to the take up reel
- Set contains: wall- / postmounting, gate handle and rope



max.6m

max.6m

Pivoting gate handle set with tape, 40mm

- Special gate handle set which allows trouble free opening without ground contact
- Handle set is turnable by 180°
- 40mm wide tape automatically rolls back if gate is opened
- Extendable up to 6m
- Tape from the gate handle hook up to the take up reel electrified
- When the tape is wound up, it is weather resistant
- Set contains: wall- / postmounting, gate handle and tape

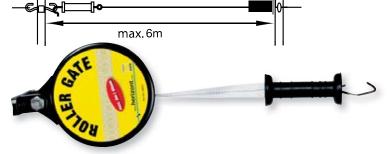
Part no.	EAN	Piece
14901C	4 014803 149015	1

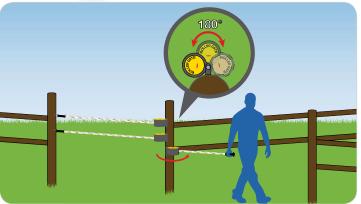
Pivoting gate handle set with 6mm PE rope

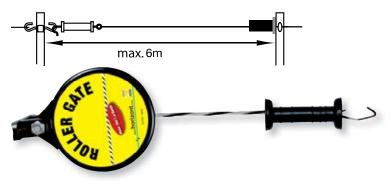
- Special gate handle set which allows trouble free opening without ground contact
- Handle set is turnable by 180°
- . 6mm wide rope automatically rolls back if gate is opened
- Extendable up to 6m
- Tape is from the gate handle hook up to the take up reel is electrified
- When the tape is wound up, it is weather resistant
- Set contains: wall- / postmounting, gate handle and tape



horizont







Gates, Reels & Posts Gate handle sets



Automatic gate handle set 1.80m and 3.60m

Set consists of two retractable electrificable barriers, each 180cm long or 360cm long with two hinges to install to all posts. This set enables the driver of agricultural vehicles to drive through the barrier easily and safely without leaving the vehicle to open the gate. After driving through, the barrier will retract back into the original position. Includes two insulated gate handles for pedestrians.

Gate set, 1 x 1.80m		
Part no.	EAN	Piece
14059	4014803 140593	1
Gates set, 2 x 1.80m		
Part no.	EAN	Piece
14060	4014803 140609	1





Barrier for gate set, 1.80m

/11	
EAN	e
014803 140814	
EAN	Piece
014803 148780	
	EAN

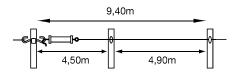
1



Gate handle set with elastic, electrificable rope

Includes 1 gate handle with hook, 1 rope 4.50m extendable up to 9.40m, 1 ring insulator and 1 gate handle insulator.

Part no.	EAN	Piece
15316C	4014803 405937	1

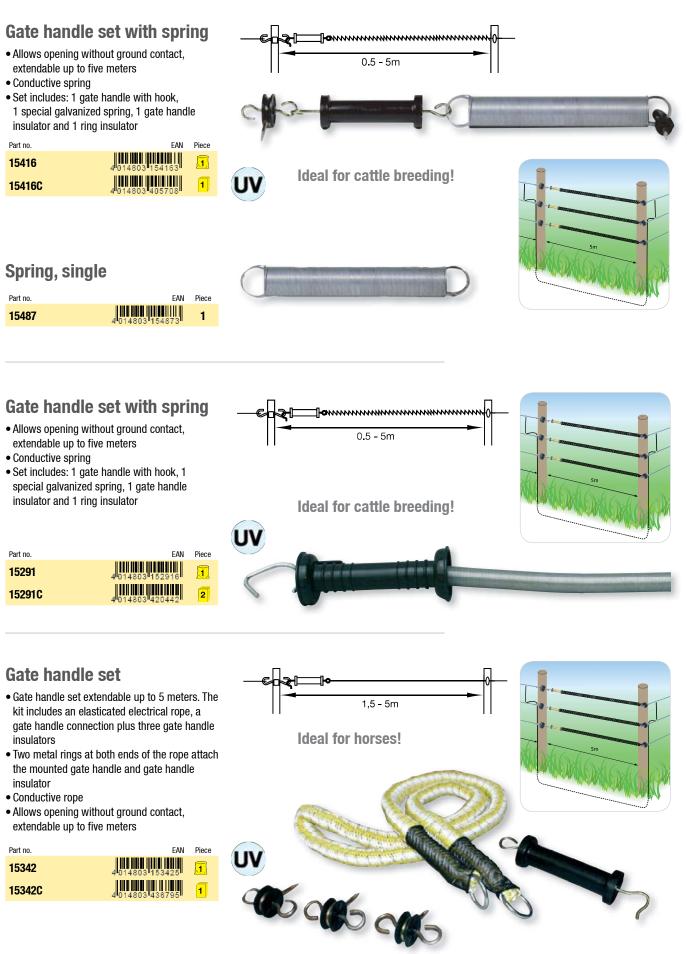


Hint!

At gates, the electricity should not be transmitted to the gate handle.

horizont





15342C	4 014803 436795

1



MAXI ROLLER 2000

The plastic reel is particularly suitable for winding and unwinding polywires and tapes. Can be separated into 2 pieces with lead through for the wire, conic centre, robust brake.

Plastic reel

Part no.	EAN	Piece	6
15013	4014803 150134	1	L
			~

Support part for 15013

Part no.	EAN	Piece
15031	4 014803 150318	1

Capacity tape: Wire lead through: Brake:

Capacity twine:

MAXI ROLLER 4000

This extra large reel is particularly suitable to wind and unwind polytapes. Can be separated into 2 pieces with lead through for the wire, conic centre, robust brake.

Plastic reel

15839
Part no.

;	Support part for 15839					
	Part no.	EAN	Piece			
	15840	4 014803 158406	1			

Capacity twine: Capacity tape: Wire lead through: Brake:

UV

to max. 4 000m to max. 1 500m yes yes

to max. 2 000m

to max. 750m yes

yes



HIGHLIGHT





TURBO ROLLER 1500

Designed to form the complete portable fence assembly with up to three reels, post and reel mounting brackets. Reels are available separately and can be used independently or mounted on the post. The system consists of:

- Reel, for polywire, tape or rope, complete with handle, lock and brake
- Reel mounting post
- Reel mounting bracket

1100	mounting bracker		
Part no	Product	EAN	Piece
1534	D plastic reel super	4014803 153401	1
1304	2 reel mounting, 117cm, single	4014803 130426	1
1304	3 reel mounting, single	4014803 130433	1
	city twine: According to type up to max 1 500m city tape: According to width up to max 600m		UV

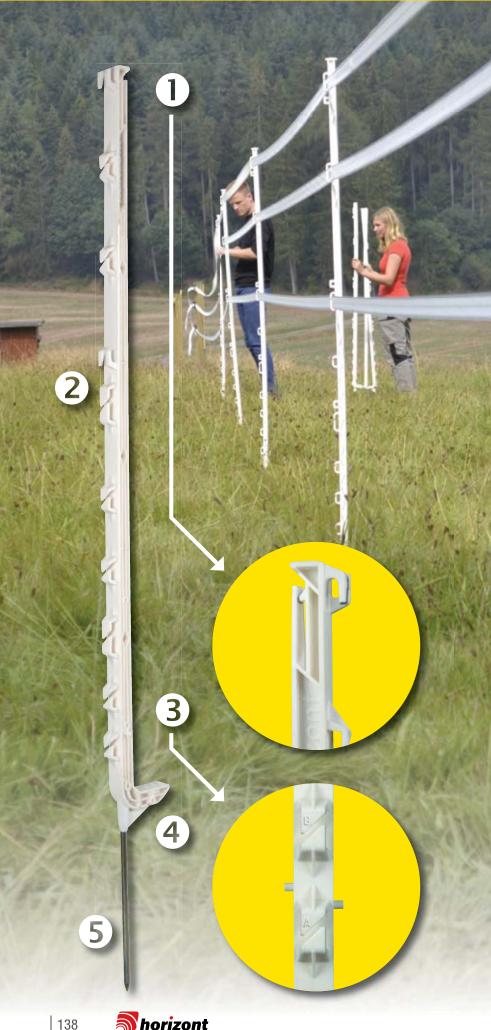
Capacity tape: Wire lead through: Brake: ing to vidth up to max 1 Soom ing to width up to max 600m yes yes











SMART bost

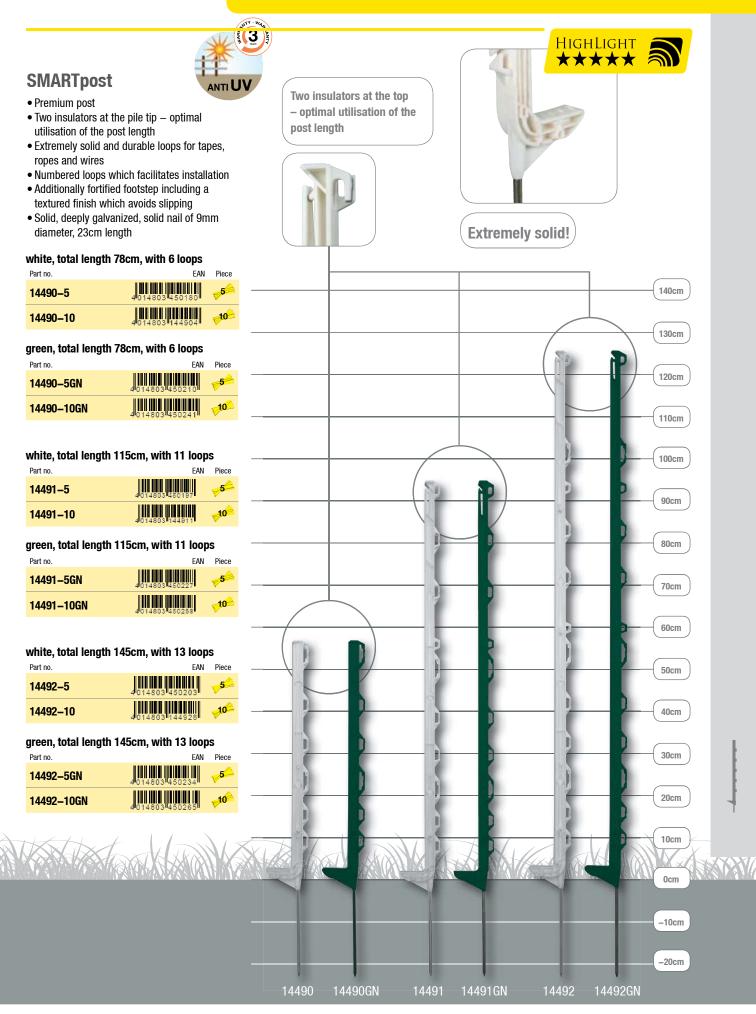
The new premium post "SMARTpost" is manufactured from high-grade polypropylene with improved stability and impact resistance - especially for customers who wish to have a minimal effort and a high degree of safety for their animals.

While developing the new post family, the engineers and sales professionals considered very positive experiences of our customers with our widely known "extra" post. Important elements, such as the unique patented stepper pad of the extra post were included in the new post family and improved even further.

The shape of the post incorperated design taken from high rise buildings and is tapered upwards. A strong and long nail is injected into the post for the ground anchor and provides the posts with a secure foundation.

- 1. Two insulators at the top optimal utilisation of the entire post length
- 2. Extremely solid and durable loops for tapes, ropes and wires
- 3. Numbered loops which facilitates the installation - especially the installaton in large fields.
- 4. Fortified footstep with textured finish to avoid slipping
- 5. Solid, deeply galvanized, solid nail of 9mm diameter, 23cm length. A longlife cycle and a stable foundation.

colours: white and green, each available in a bunch of 5 or 10





Gates, Reels & Posts Posts

Plastic fence post »standard«

- With loops for tapes up to 40mm, wires / · Additional insulator right above the foot p for an earth return wire
- 104cm and 138cm posts available in gre

white, total length 138cm, with 12 loops

Part no.	EAN	Piece
15695	4 014803 156952	10

green, total length 138cm, with 12 loop Part no. EAN

15695GN	4014803 428561	10

white, total length 104cm, with 10 loops

Part no.	EAN	Piece
15198	4014803 003041	10
15198P	4 014803 423788	600

green, total length 104cm, with 10 loop

Part no.	EAN	Piece
15198GN	4014803 420640	10

white, total length 75cm, with 7 loops

Part no.	EAN	Piece
14135	4 014803 141354	10

horizont polyposts »extra best possible application

for all kind of practise

- With loops for tapes up to 40mm, wires a • Extra long footplate
- Very solid construction due to additional
- · Reinforced foot plate which makes the fo unbreakable
- · Additional insulator right above the foot p an earth return wire
- 75cm, 108cm and 142cm posts also available green

lime, total length 142cm, with 12 loops

	Part no.	EAN	Piece			
	15545HG	4014803 444653	10			
	purple, total length 1	42cm, with 12 loo	ps			
	Part no.	EAN	Piece			
	15545LI	4014803 441768	10			
	turquoise, total lengt	th 142cm, with 12	loops			
	Part no.	EAN	Piece			
0	15545TU	4 014803 441690	10			
	Ніднііднт					
	****	a (
white, total length 169cm, with 13 loops						

EAN

15695GN

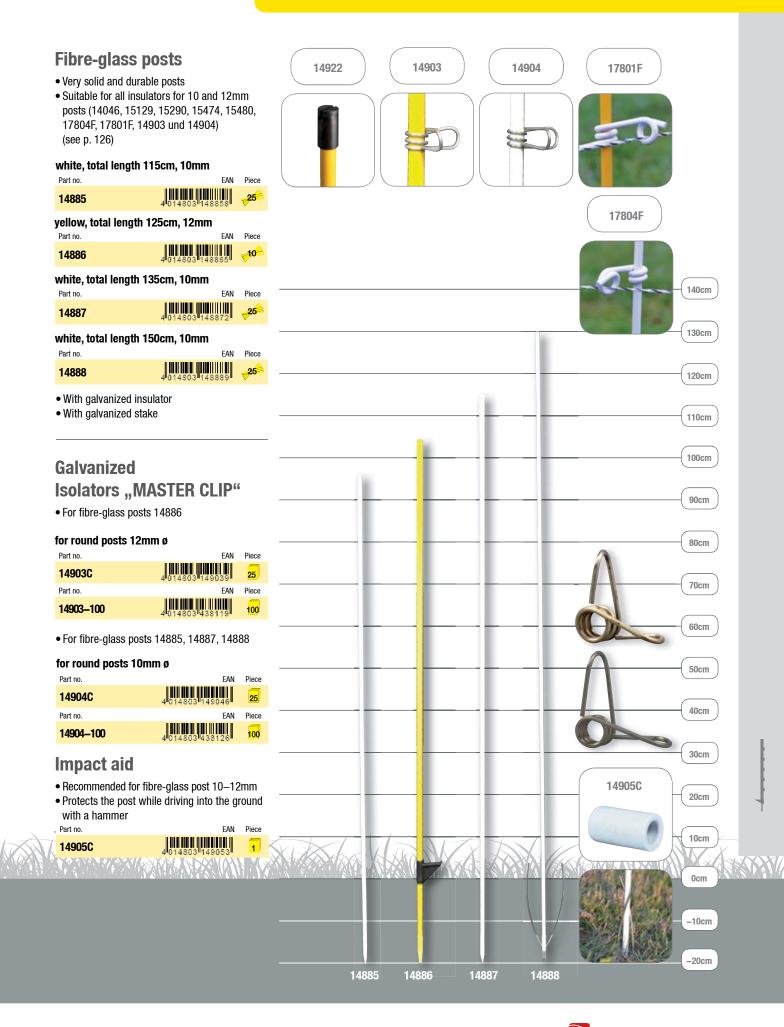
15198GN

/ ropes plate	All posts integrate for tapes	ed loops		All posts integrate for tapes 40mm at	ed loops s up to					
reen ps	up to 8n			up to 8m			UV			
Piece			\				PATY	·wapa		
10	1					A	WAR	3 WARRANTY		
ps Piece				7		H	A			
10)	L L		AN	TUV			
ps								2		
Piece –								<u>n</u>	140cm	
600 _						ay.	py		130cm	
							-			
Piece					- 1				120cm	
10-		=	_			0	0	1	(110cm)	
Piece						ы		2		
					_	П			(100cm)	
_	_			\searrow		Ц		K	90cm	
a«	0		d d		n	ſ	ſ	4		
_	E.	-=/			C				80cm	
and ropes _		_/				Ц				
l bracings foot plate _		7	c/ Q		C	C	C			
plate for	e	4	c	$\left(\right)$				5	60cm	
ailable in		-0		1_2				4	50cm	
			0		11					
B – – – – – – – – – – – – – – – – – – –	0	0	0	C	C	C	C	4	40cm	
-10-	-0-	-6								
Piece		đ						d	\square	
10			0			4	4		20cm	
loops Piece		<u> </u>					9		10cm	1-6
10	ROR IX	CLAR		1500						
									0cm	
									-10cm	
)S Piece _			/							
10	15695 15	695GN	15198 1519	141 98GN	35 155	45HG 15545	15545 il I	TU 158		

15545LI

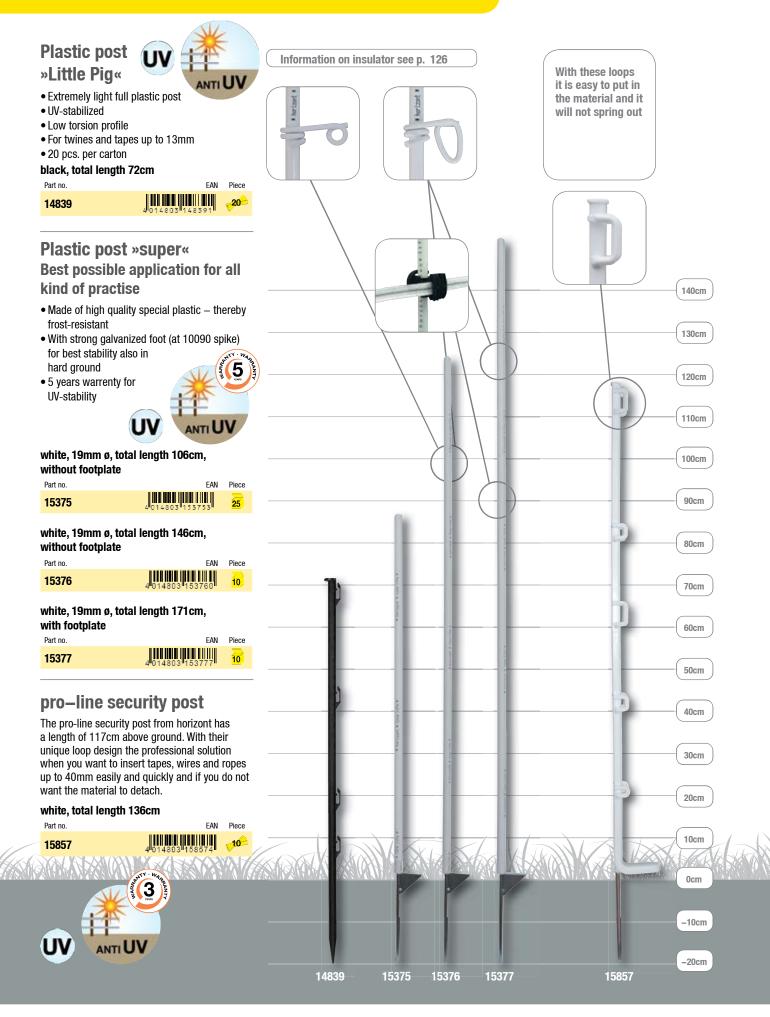
Part no.

Gates, Reels & Posts Posts





Gates, Reels & Posts Posts



Stirrup post

- The stirrup allows an easy and secure tread into the ground
- \bullet Fibre-glass strengthened PP
- UV-stabilized
- With strong 8mm nail



white, total length 115cm, with 10 loops

Part no.	EAN	Piece
15109	4014803 151094	20
15109P	4014803 111111	500

green, total length 115cm, with 10 loops

• • •		
Part no.	EAN	Piece
15109GN	4014803 432391	20

white, total length 155cm, with 16 loops

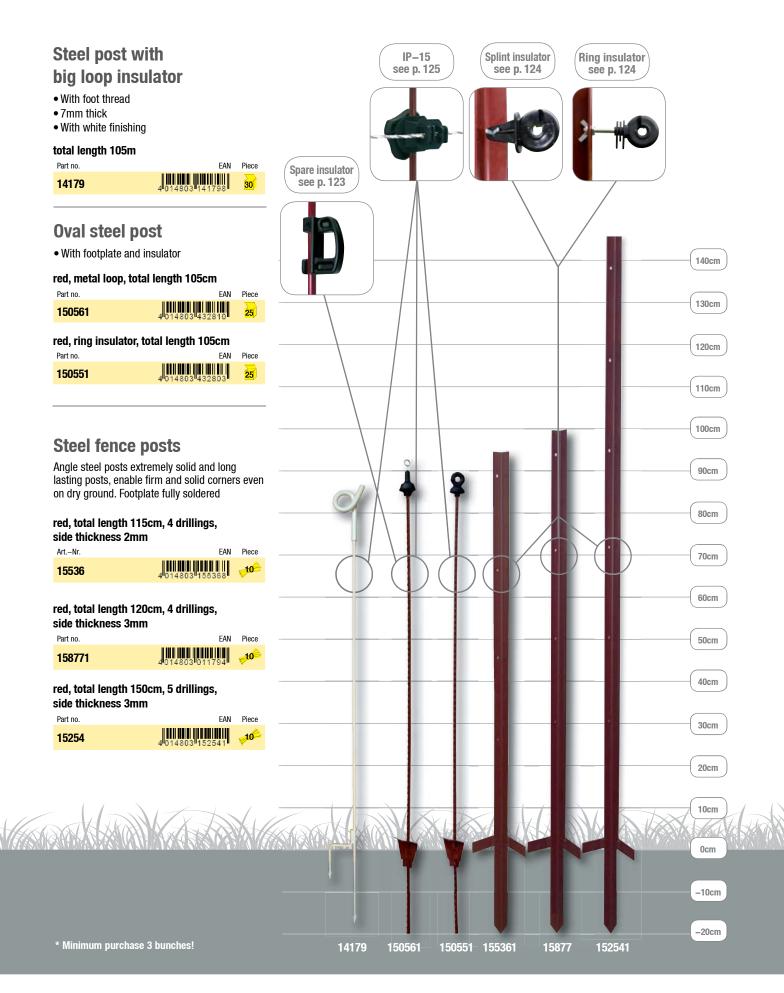
Part no.	EAN	Piece
15108	4014803 151087	20
15108P	4 014803 424112	360

green, total length 155cm, with 16 loops

Part no.	EAN	Piece
15108GN		20



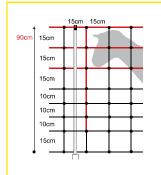
shorizont



horizont



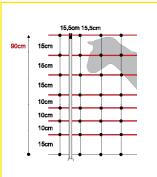
Nets can be used quickly and safe for many applications. Sheeps and goats can be protected from the wolf violation with our wolf netting.





High energy Vertical netting high energy. For sheeps – even under difficult conditions. > page 146

Chapter	Page
Nets & Permanent fencing I	146 –
Nets	154
Nets & Permanent fencing I	155 –
Permanent fencing	159





Proved classic horiNetz 90 cm > page 149



Unique

Unique permanent fencing system with an easy clip-protection at the permanent fence wire > page 155 / 159



=

Vertical netting

Two of the 7 horizontal twines are with copper connectors. These connectors secure as a ring loop a high electrical conductivity and therefore a high current flow in the netting. Coming from these ring loops are vertical twines crossing all the seven horizontal twines and assure the reconnection for a high current flow.

> Unique netting which follows the horizont patent

You get more safety due to more power on the netting

Vertical current flow ensures constant power



Vertical netting for sheeps, 90cm, 50m

- Complete with connection kit and 14 posts
- · Colour of posts: white
- Colour of wire: yellow and black

Part no.	Product	Ω/m	EAN	Piece
14364	Vertical netting with single prong	0.17	4014803 143648	1
14365	Vertical netting with double prong	0.17	4014803 143655	1
15022-1	Post with single prong		4014803 150226	1
15022-2	Post with double prong		4 014803 403278	1

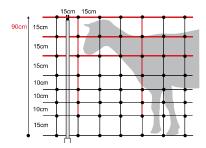
Even when wires break, due to the vertical current flow the netting is always powered! The complete netting is powered!

HIGHLIGHT $\star \star \star \star \star$

Vertical netting high energy for sheeps, 90cm, 50m*

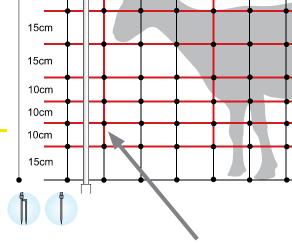
- Complete with connection kit and 14 posts
- Colour of posts: white
- Colour of wire: yellow (conducting) respectively black (not conducting)

Part no.	Product	Ω / m	EAN	Piece
14502	Vertical netting with double prong	0.35	4014803 145024	1
15022-1	Post with single prong		4 014803 150226	1
15022-2	Post with double prong		4 014803 403278	1



High energy even with high vegetation

Part no.	Single prong	Double prong	Height	Length	Number of posts	Horizontal polywires	of which are electrificable	Not conducting twines
Vertikal netting 14364	√		90cm	50m	14	8	7	1
Vertikal netting 14365		✓	90cm	50m	14	8	7	1
Vertikal netting high energie 14502		✓	90cm	50m	14	8	3	5



15cm 15cm

at an interest into

90cm

15cm

horizont-quality with copper conductors!

Nets & Permanent fencing Netting for sheep



Sheep

Contains 9 electroplastic twines, 8 of which are electrifiable. Livestok incorporates a semi-rigid plastic vertical strut every 30cm instead of plain polytwine. Keeps its shape well over more contoured ground. Yellow struts and black twine ground.

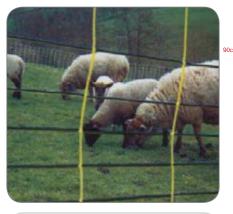
 Part no.
 Ω / m
 EAN
 Piece

 18011
 1.1
 40148031180117
 1

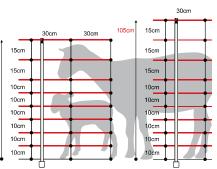
Goat / Super Sheep

Contains 10 electroplastic twines, 9 of which are electrifiable. Extra height and control for goats and sheep. Available in yellow/black and white.

Part no.	Ω/m	EAN	Piece
18013	0.84	4014803 180131	1



Attention: Never connect more than 1 fencer to your netting!





Part no.	Single prong	Double prong	Height	Length	Number of posts	Horizontal polywires:	of which are electrificable	not conducting twines
18011	\checkmark		90cm	50m	14	9	8	1
18013	\checkmark		105cm	50m	14	10	9	1

Sheep

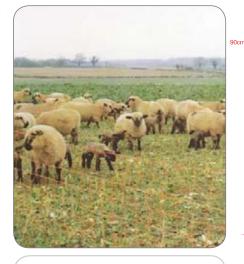
Contains 8 electroplastic twines, 7 of which are electrifiable. Properly electrified, nothing is more efficient in temporary and semi–permanent strip or paddock grazing of sheep and lambs. Flocks are also protected within electric netting – from foxes or dogs – more securely than any other form of lightweight electric fencing. Reinforced top twine. 14 posts.

18002	1.15	4 014803 180025	1
Part no.	Ω/m	EAN	Piece

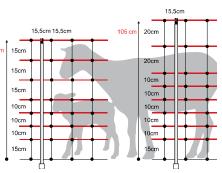
Goat / Super Sheep

Taller by 15cm than sheep netting and containing 9 electroplastic horizontal lines, 8 of which are electrifiable. For greater control of sheep and goats. 14 posts.

18003	1.01		1
Part no.	Ω/m	EAN	Piece



Attention: Never connect more than 1 fencer to your netting!





Part no.	Single prong	Double prong	Height	Length	Number of posts	Horizontal polywires:	of which are electrificable	not conducting twines
18002	\checkmark		90cm	50m	14	8	7	1
18003	\checkmark		105cm	50m	14	8	7	1

Nets & Permanent fencing

turbomax energy-netting for sheep

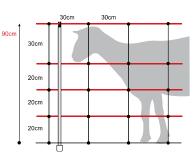
turbomax

- · special vertical connections made of polyethylene provide a very high stability
- complete with 14 posts and connection kit
- colour of posts: white
- colour of wire: white/black (chrome- / nickel-wire) respectively white/green (copper-wire)

turbomax high energy-netting, 90cm, 50m*

- Especially suitable for rough territories and mountains
- Lightweight netting
- High energy due to a reduced number of horizontal wires

90cm, 50m	*		
Part no.	Product	Ω/m	EAN
14503	High energy–netting with double prong	0.33	4014803 145031
15022-1	Post with single prong	0.33	4 014803 150226
15022-2	Post with double prong		4014803 403278



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Rich

a all

Piece

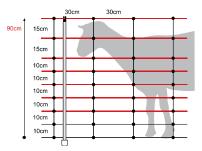
1

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turbomax energy-netting for sheep, 90cm, 50m*

- Both bottom wires are non-current-carrying. As a result, the other electrified wires have
- less contact to the vegetation and the energy loss over the vegetation is limited
- . The netting is constructed in the same way as the turbomax extra

Part no.	Product	Ω/m	EAN	Piece
14955	Energy—netting with single prong	0.36	4 014803 149558	1
15022-1	Post with single prong		4014803 150226	1
15022-2	Post with double prong		4014803 403278	1





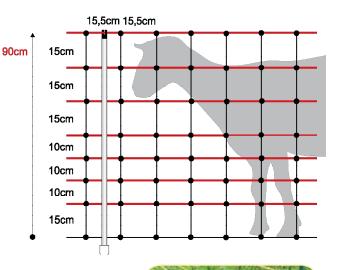
Part no.	Single prong	Double prong	Height	Length	Number of posts	Horizontal polywires	of which are electrificable	Not conducting twines
turbomax high energy 14503		✓	90cm	50m	14	5	4	1
turbomax energy 14955	✓		90cm	50m	14	8	6	2

Nets & Permanent fencing horinet energy—netting for sheep

<section-header> Application Pice </tr

horinet energy–netting for sheeps, 90cm, 50m*

- Both bottom wires are non-current-carrying. As a result, the other electrified wires have less contact to the vegetation and the energy loss over the vegetation is limited
- The netting is constructed in the same way as the hori-Net



Part no.	Product		Ω/m		EAN Piece			and a star
14954	Netting with single pror	ng	1.35	4 014803	49541 1	X		
Part no.	Single prong	Double prong	Height	Length	Number of posts	Horizontal polywires	of which are electrificable	Not conducting twines
horinetz energy 149	954 ✓		90cm	50m	14	8	6	2



Have a look at our YouTube-channel!

Our netting professional is explaining the most effective way to build a perfect net for sheeps in a video step by step.

d https://www.horizont.com/sheep.netting



horizont

Nets & Permanent fencing



Super poultry netting, 105cm, 50m

• Complete with connection kit and 15 posts

- · Colour posts: white
- Colour wire: yellow or black



		7,5cm	7,5cm										
105cm	20cm												
	_	┝╢┝	┿┷			┝	-	-					-
	15cm												
	10cm		† -•						Η				-
	10cm		Ì		Π								-
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	10cm		Γ										
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	5cm												
	5cm 5cm	┝╢┝	+-•		H		-		H	4	\vdash		-
•		•¦¦	••	-	-		-	_	-	-	-	-	-

Attention: Never connect more than 1 fencer to your netting!

Part no.	Product	Ω/m	EAN	Piece
15587	Netting with single prong	0,74	4 014803 155870	1
15026–1	Post with single prong		4014803 150264	1
15693	Netting with double prong	0,74	4014803156938	1
15026-2	Post with double prong		4014803 403285	1

Part no.	Single prong	Double prong	Height	Length	Number of posts	Horizontal polywires:	of which are electrificable	not conducting twines
15587	\checkmark		105cm	50m	15	12	11	1
15693		✓	105cm	50m	15	12	11	1

Poultry netting

Hueskännen

105cm, 25m, with 9 posts, single prong

Part no. EAN Piece 4014803 180063 18006

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1

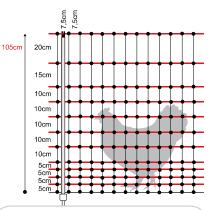
105cm, 50m, with 15 posts, single prong Part no. EAN Piece

18018

1

105cm, 25m, with 9 posts, green, single prom Part no. EAN Piec

ng	105cm, 50m, with 15 posts, single prong								
e	Part no.	EAN	Piece						
	18018GR	4 ¹ 014803 426390	1						



Attention: Never connect more than 1 fencer to your netting!

Part no.	Single prong	Height	Length	No. of posts	Colour of posts	Colour of post caps	Horizontal polywires	of which are electrificable	Knotting points	Electrificable polywire	Top polywires	Vertical polywires	Bottom polywire
18006	√	105cm	25m	9	green (1. post white)	black (1. post cap white)	12	11	black	green	green	green	black
18006GR	✓	105cm	25m	9	green (1. post white)	black (1. post cap white)	12	11	black	green	green	green	black
18018	~	105cm	50m	15	green (1. post white)	black (1. post cap white)	12	11	black	green	green	green	black
18018GR	✓	105cm	50m	15	green (1. post white)	green (1. post white)	12	11	black	green	green	green	black

150

18006GR

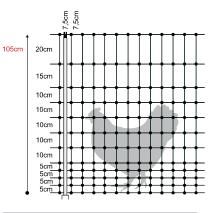
Security netting for poultry and other purposes, 105cm, green

• Ideal for poultry, small lakes or non permanent fences

• Contains 12 plastical twines, none of these is electrified, reinforced bottom strand

• Colur of posts and wire: green

Part no.	Product	EAN	Piece
34619	25m netting with 9 posts, with single prong	4 ¹ 014803 346193	1
34618	50m netting with 15 posts, with single prong	4 ¹ 014803 ¹ 346186	1
18414	Post with single prong	4 ¹ 014803 184146	1
34620	50m netting with 15 posts, with double prong	4 ¹ 014803 346209	1
34621	25m netting with 9 posts, double prong	4 ¹ 014803 346216	1



DO NOT ELECTRIFY

Single prong Double prong Length Horizontal Not Part no. Height Number of which of posts polywires are electrificable conducting twines 34619 ~ 25 105cm 9 12 12 _ ✓ 34618 105cm 50 15 12 12 _ 34620 ~ 105cm 50 15 12 12 _ 34621 ~ 105cm 25 9 12 12 _

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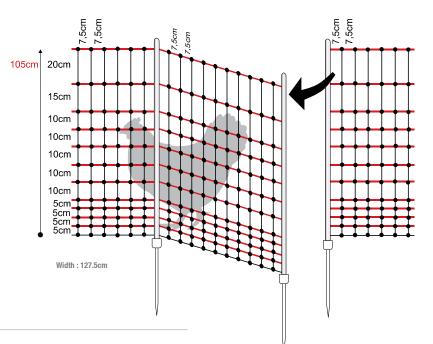
Gate for poultry net

• 105cm, with 2 standard posts (single prong)

for poultry net 15587 and 15693

Part no.	EAN	Piec
14148	4 014803 141484	1

for poultry net 1800	6GR and 18018GR	
Part no.	EAN	Piece
18140	4 014803 181404	1



Gate for poultry net

- Height 105 cm, length 125 cm
- Can be used with all poultry nets
- · Electrical gate is connected to the poultry net
- Gate can be opened and closed on to the insulated handles even if the netting is electrified

Part no.	EAN	Piece
14935	4 014803 149350	1





Rabbit and cat netting, 50cm, 25m, green*

- Contains 9 electroplastic twines, 8 of which are electrificable, reinforced non-conductive bottom strand
- · Colour of posts and wire: green

	5			
Part no.	Product	Ω / m	EAN	Piece
15195	Netting with single prong	1.01	4 014803 151957	1
15223	Post with single prong		4 014803 152237	1

Rabbit netting, 50cm, 25m and 50m*

- · Contains 9 electroplastic twines, 8 of which are electrificable, reinforced non-conductive bottom strand
- Colour of posts: white
- · Colour of wire: yellow or black

Hint! Erect the netting towards the fenced



		5cm	7,5cm								
m	10cm			-	•	-	-			-	-
	10cm	Н	+				-	-			
	5cm 5cm 5cm										
	5 cm	r	Y	T	T -			-		r —	-

7.5cm 7,5cm

50cm

50c

10cm

10cm

5cm 5cm 5cm 5cm

5cm

area. In this way it is more difficult for rabbits to jump over the netting.

Part no.	Product	Ω/m	EAN	Piece
15576-25	Netting with single prong, 25 m	1.01	4014803 448118	1
15576	Netting with single prong, 50 m	1.01	4014803 155764	1
15028	Post with single prong		4 ⁰¹⁴⁸⁰³ 150288	1

Rabbit and cat netting, 65cm, 50m, green*

• Contains 9 electroplastic twines, 8 of which are electrificable, reinforced non-conductive bottom strand

• Colour of posts and wire: green

Part no.	Product	Ω / m	EAN	Piece
14895	Netting with single prong	0,90	4 014803 148957	1

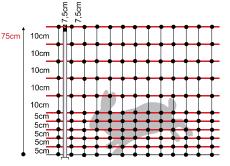
3cm 6cm 65cm 11,5cm 11,5cm 6cm 6cm 6cm 6cm 6cm 6cm 6cm

Rabbit and cat netting, 75cm, 25m, green*

. Contains 11 electroplastic twines, 10 of which are electrificable, reinforced non-conductive bottom strand

· Colour of posts and wire: green

Part no.	Product	Ω/m	EAN	Piece
15196	Netting with single prong	0,81	4014803 151964	1
15196–50	Netting with single prong	0,81	4014803 443014	1
15224	Post with single prong		4 014803 152244	1



Part no.	Single prong	Height	Length	Number	Horizontal	of which	Not
				of posts	polywires	are electrificable	conducting twines
Rabbit- and cat-netting 15195	\checkmark	50cm	25m	9	9	8	1
Rabbit- and cat-netting 15576-25	\checkmark	50cm	25m	9	9	8	1
Rabbit- and cat-netting 15576	✓	50cm	50m	15	9	8	1
Rabbi- and cat-netting 14895	✓	65cm	50m	15	10	9	1
Rabbit- and cat-netting 15196	✓	75cm	25m	9	11	10	1
Rabbit- and cat-netting 15196-50	✓	75cm	50m	15	11	10	1

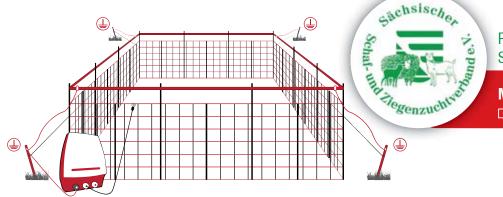
horizont

Nets & Permanent fencing Rabbit and cat netting



Nets & Permanent fencing Wolf netting





Recommended by the Saxonie Sheep And Goat Breeding

More information: I horizont.com/wolfdefence

The wolf is coming back and appears in more and more areas in Germany. The number of packs is exponentially increasing due to the high birth rate. Experience shows that the used standard sheep nettings are insufficient. Weak points are for example the low conduction current and the little optical deterrence for the wolf.

Already early horizont realised that it is important to develop new nettings to deter the wolves. In cooperation with the "Sächsische Schaf– und Ziegenzuchtverband e.V." a wolf defence system was developed between 2012 and 2013 which is unique until this day and demonstrably detain wolves from attacking farm animals.

The "horinetz super" is an easy and fast to assemble wolf netting and with a height of 90cm compact and simultaneously stable. It is been



International Wolf forum 2015 in Korbach

hold with 90cm respectively 120cm 15mmposts which were woven into the netting. The net is already secure against jumping over of the wolves because of an additional 20mm electrifiable tape at a height of 120cm. This 20mm tape irritates the wolves and he is not able to calculate the perfect jump. This additional expenditure for the shepherd is low and the amount of work for this extra wolf defence measures will not carry weight.

Parallel horizont takes part at research and development projects together with professional institutions and research establishments. The aim is to develop other special nettings for shepherds in regions which are difficult because of the geographical nature like extensive hilly landscape or the proximity to water.



Gerald Becker as guestspeaker at "Herdenschutztag" in OWL

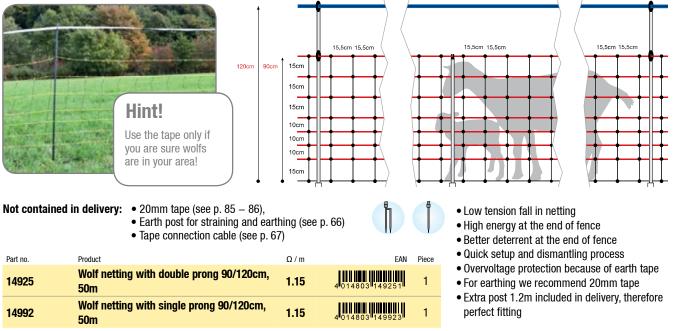


Wolf netting horinet super 90/120cm, 50m* and 145cm, 50m*

- Complete with 15 posts and connection kit
- Colour of posts: black
- Colour of wire: yellow (conducting) respectively black (not conducting)
- Knotting-points: yellow

- •Monofilaments: 3 x 5 monofilaments à 0.40 mm, upper and bottom wire strengthened
- . Colour of cap pieces: caps at the first post yellow, others black

Wolf netting horinet super, 90/120cm, 50m*



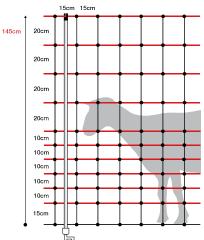
Wolf netting horinet super, 145cm, 50m*



								10
Part no.	Product			Ω/m		EAN	Einheit	10
14967	Wolf netting 145cm	, 50 m		0,81	4 0 1	4803 149671	1	15
14993	Post 145cm with 2	clips			4 ¹ 0 1	4803 149930	1	•
Part no.	Single prong	Double prona	Diameter	Ha	ight	Length	Number	Horizontal
rait 110.	Single prong	Double prolig	Didifietei	пе	iyin	Lengui	of posts	polywires
14925		✓	15mm	90/1	20cm	50m	15+1	8
14992	√		15mm	90/1	20cm	50m	15+1	8

19mm

√



50m

15

145cm

14967

Not

conducting twine

1

1

1

of which

are electrificable

7

7

10

Nets & Permanent fencing Spare parts



Repair kit for green netting

Part no.	EAN	Piece
15029–5	4014803008749	1



Spare parts for electric netting



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Nets & Permanent fencing Permanent fencing – easy post

HIGHLIGHT

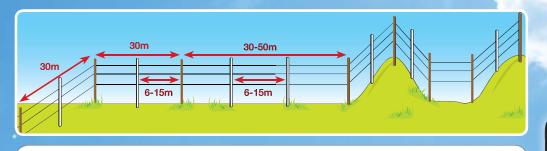


Find the video "easy post" on our webside

www.horizont.com

Hint!

- The posts can be nailed, screwed, drilled and sawed by common woodworking tools
 Suitable to screw in all horizont insulators with
- Suitable to screw in all horizont insulators with wooden thread without drilling at all possible positions at the posts
- ,horizont' insulators to be nailed or screwed on to post can be fixed individually



- All-purpose posts as
 I. not fixed spacer or
- II. as fixed spacer with easy fixMade out of premium recycled material with a
- high amount of new plastic
- Recycable after use
- UV-protected
- Easily possible to erect on stony or compacted soil
 Fast and simple installation for wire up to a diameter of 2.5mm
- Individual position of the holes possible by drilling new holes for the clips
- It's possible to work on the posts with common tools for wood. Useable are nails, screws, drills and saws for wood
- Suitable to screw in all horizont insulators with wooden thread without drilling at all possible positions at the posts
- Horizont insulators to be nailed or screwed on to post can be fixed individually on to the posts

Hint Use the post without the metal rod as a spacer.







Nets & Permanent fencing Permanent fencing

HOT STOP I-20

- Extremely solid and UV-resistant insulator
- Ideal for high tensile wire GALVADUR
- For tapes up to 20mm and ropes up to 8mm ø
- Insulator can be screwed in or nailed on
- \bullet The most powerful of its class



Hint!

When assembling in curves the

insulator has to be mounted with

pressure in direction to the post.





High tensile wire GALVADUR

- Special wire with a thick galvanized zinc / alu long time protection (95% zinc and 5% aluminium)
- High tensile wire has four times longer life compared to normal steel wires

GALVADUR 2.5, 625m (=25kg), 2.5mm ø			GALVADUR 1.			
Part no.	EAN	Piece	Part no.	EAN	Piece	
15945	4 014803 159458	1	15904	4 014 803 159045	1	



1 Tension indicator spring

Balances temparature changes thus keeping the wire taut.

Part no.	EAN	Piece
15905	4014803 159052	2

hot galvanized

Part no.	EAN	Piece
14150	4014803 141507	2

Piece

2

narrow version

Part no.	EAN
14934	4 014803 149343



2 Permanent wire strainer

Serves to renew tension if wire slackens, with automatic lock. Can be inserted anywhere on the fence line

Part no.	EAN	Piece
15906	4014803 159069	2

Connects permanent wire strainer and tension indicator spring.

Part no.	EAN	Piece
15907C	4014803 405487	5

Wire dispenser

• For unwinding galvanised wire from the coil

Part no.	EAN	Piece
15933	4014803 159335	1

Wire connection screw

• With plastic coating

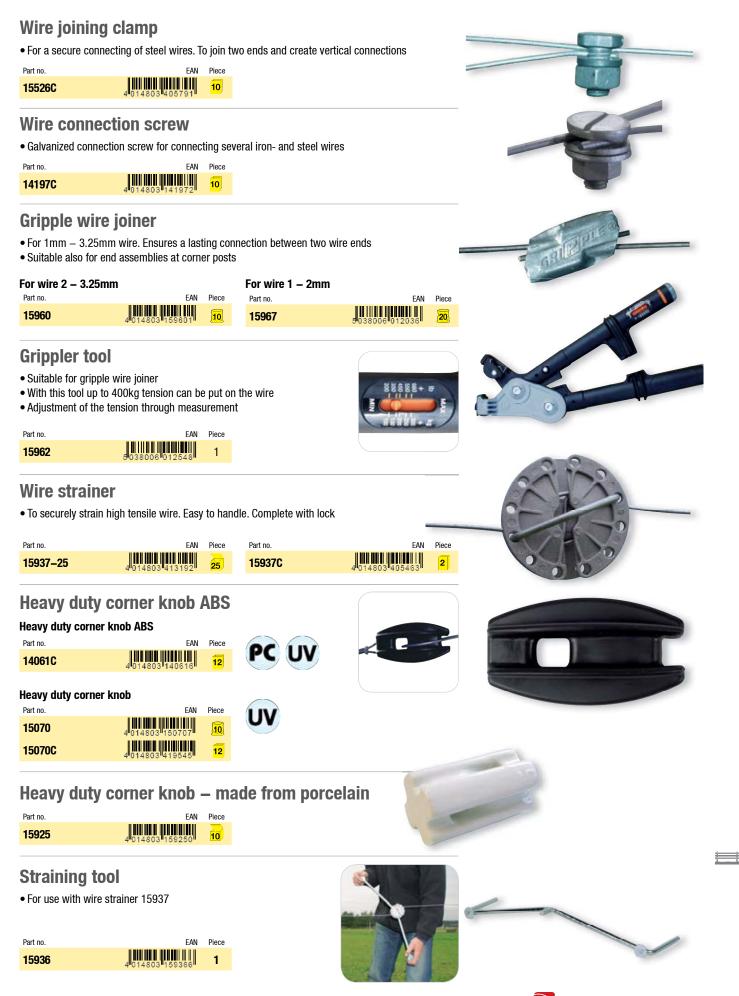
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horizont









Corner / gate post*

• High pressure treated coniferous wood Length 250cm, 14–16cm ø

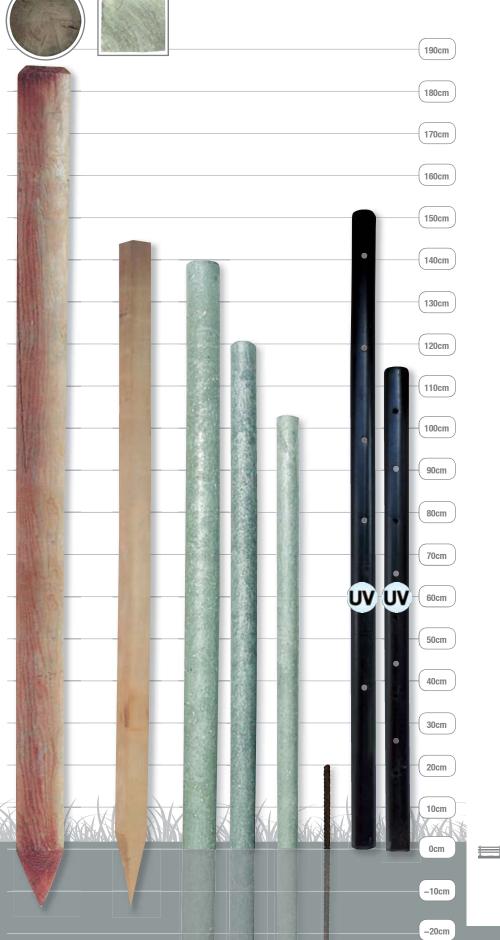
Part no.	EAN	Piece
14131*	4 014803 141316	1
Length 200cm, 10-12	cm ø	
Part no.	EAN	Piece
14130*	4014803 141309	1

Spacer*

• High pressure treated coniferous wood Length 150cm, 4x4cm

Part no.	EAN	Piece
14132*	4 014803 141323	1





15243

15593

Recycled plastic fence posts*

- Recycled plastic fence posts are made of old plastic with unlimited durability
- After use they can get recycled again
- Insulators can be nailed-on, screwed-in, drilled or sawed
- All posts are pointed
- grey, total length 200cm, 80mm ø

60cm in the ground, 140cm above ground

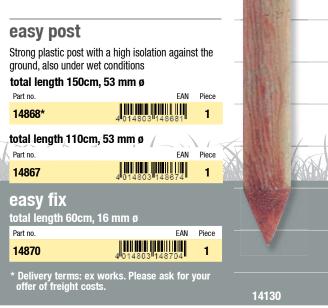
Part no.	EAN	Piece
15243*	4 014803 152435	1

grey, total length 175cm, 60mm ø 55cm in the ground, 120cm above ground

Part no.	EAN	Piece
15593*	4014803 155931	1

grey, total length 150cm, 45mm ø 50cm in the ground, 100cm above ground

Fait IIU.	EAN	FIELE
15151*	4014803 151513	1



15151 14870 14868 14867

12 Volt Super Vlies special battery 75 230 volt mains adapter 76 6 Volt alcaline dry battery (round housing)

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3.60m	

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easy clip
easy post
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MAXI ROLLER 4000
Metal transport box
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Mixal – Aluminium wire
Monobloc battery 6V/7Ah, 6V/50Ah

Ν

Night Watchman
0
On / Off switch
Original "Steuer" wire –bound to tradition!
Oval steel post

Ρ

Permanent wire strainer Pivoting gate handle set with 6mm PE rope
Pivoting gate handle set with tape, 40mm
Plastic cap white for the first post of netting »turbomax«
Plastic cap yellow for the first post of netting »horinetz«
Plastic fence post »standard«
Plastic loop
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