



# ANIMAL STUNNING DEVICE VBE-BASIC

Index number: \_\_\_\_\_ **M0056/B**

Serial number: \_\_\_\_/\_\_\_\_/\_\_\_\_

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**This user manual is an integral part of the VBE-BASIC animal stunning device. It is absolutely necessary to read it carefully before installing, commissioning and using the device.**

Please contact us in case of any questions or concerns.

### **CAUTION!**

The **stunning system** comes equipped with:

1. stunning unit **VBE-BASIC** (called the **device**)
2. stunning tongs (called the **tongs**)

This user manual applies to the stunning system **VBE-BASIC**.

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## 1. WORK SAFETY AND OPERATING RULES



### CAUTION!

**Read the entire user manual carefully before using the device.**

**Failure to comply with the safety rules listed below threatens work safety.**

- persons who operate and maintain the device must read this manual or undergo training in operating the device as well as health and safety rules at the given workplace;
- the device cannot be used for purposes other than intended;
- all repairs should be carried out by the authorized service centre. Unauthorized modifications or repairs will void the warranty. The manufacturer is not responsible for damages resulting from malfunction of the device in which unauthorized changes have been made;
- maintenance work should be carried out after disconnecting the device from the mains;
- it is forbidden to use the device with visible defects;
- the device must be connected to the grounded mains;
- it is not recommended for minors or untrained persons to operate the device.

**The tongs are equipped with a button that triggers the stunning process  
Until the button is pressed, there is no stunning voltage on the electrodes  
It is forbidden to touch the electrodes of the tongs connected to the device**

**It is forbidden to connect tongs that are not part of the VBE-BASIC system to the device -  
the tongs that are not part of the system do not have a trigger button (the stunning voltage on  
the electrodes appears immediately after connecting the tongs to the device)**



### CAUTION!

**Wires and sockets of the device must not be exposed to water.**

After finishing work, it is absolutely necessary to:

- disconnect the device from the mains;
- disconnect all elements of the stunning system and secure them properly;
- put all covers on the device sockets to protect against moisture;

**Failure to follow the above recommendations may damage the device.**

## 2. DESCRIPTION AND ASSESSMENT OF RESIDUAL RISK

### 2.1. Description of residual risk

Although the manufacturer takes responsibility for the construction and proper marking of the device, in order to eliminate hazards during operation and maintenance, certain risk elements cannot be avoided. Residual risk results from incorrect or improper handling of the device by the operator. The greatest danger occurs when performing the following prohibited actions:

- operating the device without reading the user manual or without training in operating the device as well as health and safety rules at the given workplace;
- using the device for purposes other than intended;
- unauthorized modifications or repairs to the device;
- carrying out maintenance work without disconnecting the device from the mains;
- using the device with visible defects;
- connecting the device to the ungrounded mains;
- operating the device by minors or untrained persons.

## 2.2. Assessment of residual risk

Recommendations to minimize residual risk (for people and the environment) when operating the device:

- carefully reading the user manual and undergoing training in operating the device as well as health and safety rules at the given workplace;
- using the device only for its intended purpose;
- carrying out modifications and repairs only by the authorized service centre;
- carrying out maintenance work only after disconnecting the device from the mains;
- checking the technical condition of the device always before operation;
- connecting the device to the grounded mains;
- preventing minors or untrained persons from accessing the device.



### CAUTION!

Residual risk occurs in case of failure to comply with recommendations and guidelines listed above.

## 3. INFORMATION AND WARNING SIGNS

### 3.1 Warning and information pictograms









	Caution		Any repairs, maintenance or technical service must be carried out after disconnecting the device from the mains – pull out the plug from the socket
	Read the user manual		Do not touch! Dangerous voltage
	Must not be used by minors		This device is recyclable. It is subject to the selective collection of electrical and electronic equipment
	Do not connect the device to the mains if the connection or socket is damaged		Do not wash with pressure washers

Table 1 The meaning of pictograms placed on the device

### 3.2 Signal light and main switch



Fig. 2 Signal light on the door

- red light - ON

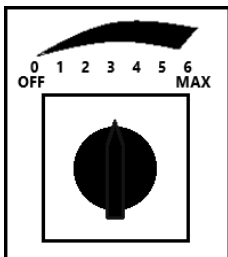


Fig. 3 Main switch on the housing

- main cam switch - OFF/MAX (output voltage value switch)

***The device housing door is sealed. Breaking the seals will void the warranty***

#### 4. DESIGN, TECHNICAL DATA AND PARTS LIST

The stunning unit is placed in a sealed housing equipped with mounting brackets.

On the right side of the housing there is a socket for connecting the tongs and a fuse socket.  
On the left side of the housing there is a main cam switch.

Detailed technical data and a list of components of the device can be found in:

- **Specification - Appendix 2;**
- **Parts list - Appendix 3.**

#### 5. INTENDED USE AND PRINCIPLE OF OPERATION

The device is designed to stun animals before slaughter, using electric current with a voltage lower than 270 V and a frequency of 50 Hz.

***The device must be used only for its intended purpose***

The stunning voltage is determined by the position of the OFF/MAX main switch (**Fig. 3**).

The stunning current is closely related to the resistance of the animal. The resistance depends on the type, weight of the animal and how the electrodes are applied. **Table 2** shows the average current, depending on the position of the main switch OFF/MAX (**Fig. 3**):

The position of the main cam switch	Voltage [V]	Average current [A] (for different kinds of animals)	
		Fattening pigs up to 130 kg Average resistance is about 165 Ω	Sows over 130 kg Average resistance is about 100 Ω
0	The device is off - no voltage or no current on the electrodes		
1	~ 110	~ 0.7	~ 1.1
2	~ 140	~ 0.9	~ 1.4
3	~ 170	~ 1.0	~ 1.7
4	~ 200	~ 1.2	~ 2.0
5	~ 230	~ 1.4	~ 2.3
6	~ 260	~ 1.6	~ 2.6

**Table 2** Average current values at each setting of the main switch OFF/MAX

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## 6. INSTALLING AND TURNING THE DEVICE ON

### 6.1 Installing the device



#### CAUTION!

The device should be installed in a room with the lowest possible humidity.  
The OFF/MAX main switch should always be visible and accessible to the operator.

The device is equipped with an inseparable power cord with a plug that should be connected to a 230V mains. The mains socket must be protected by a 10A fuse against short circuit and overload. The cord must not be within reach of animals or be exposed to damage.  
The device should be installed in a room with a drainage well.  
The installation should be adapted to the equipotential bonding system.

### 6.2 Turning the device on

To turn on the device, set the main OFF/MAX switch to the desired position from 1 to 6 (**Fig. 3**).

The device will automatically enter the boot mode.

### 6.3 The course of the stunning process

The operator determines the length of the stunning process.

Before starting the stunning process there is no measuring voltage on the electrodes - it will appear after pressing the button placed on the tongs.

After pressing the electrodes to the animal's head press the button placed on the tongs - the device will enter stunning mode. The stunning process will continue until the electrodes are removed from the animal's head or the button on the tongs is released.

**Whenever the device is not in use, turn it off by setting the main switch to the OFF (Fig. 3) and disconnect it from the mains**

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## 7. CLEANING, MAINTENANCE, REPAIRS AND DISPOSAL

### 7.1 Cleaning

The device does not require any special maintenance, however, it is necessary to maintain it in proper technical condition and cleanliness:

- clean it manually taking into account the safety rules of using electrical devices;
- clean the housing after each use by wiping with a cloth;
- do not use any detergents.



#### CAUTION!

Do not wash the device with pressure washers.  
The device should be protected against moisture and excessive dust.  
Always disconnect the device from the mains during cleaning and maintenance.

## 7.2 Maintenance

The purpose of the maintenance is to keep the device in a state of full technical efficiency. The scope of maintenance activities should comply with guidelines stated below:

- **Daily maintenance** – before and after operation:
  - consists in constant monitoring of the technical condition of individual assemblies and parts that impact work safety.
- **Periodic maintenance:**
  - determining the technical condition of the device;
  - determining the degree of wear of individual assemblies and parts of the device;
  - removal of possible faults and damages.



### CAUTION!

Stunning devices and tools should be checked before each stunning cycle.

## 7.3 Repairs

- If the device malfunctions, report the defect to the authorized service centre;
- In case of repairs and inspections in unauthorized service centres, the manufacturer is not responsible for the technical condition of the device and its proper functioning;
- In case of any maintenance or repairs the device must be disconnected from the mains.

## 7.4 Disposal



### CAUTION!

The device must be disposed of in an electrical and electronic device recycling plant.

### Disposal of the device:



- the crossed-out wheeled bin symbol (placed on the device) indicates that it is strictly forbidden to place the device in a mixed waste container;
- the device was made of materials suitable for secondary raw materials;
- the device is marked as compliant with Directive 2012/19 / EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE);
- correct disposal of the device may contribute to reducing the negative impact on the natural environment and human health;
- the device must be disposed of in accordance with local regulations regarding the disposal of electrical and electronic waste, at an appropriate collection point;
- it is forbidden to leave the device unattended, because it can be a threat to the natural environment and human health.

### Disposal of the packaging:

The device packaging was made of recyclable materials. Individual packaging elements must be disposed of responsibly and in accordance with waste management regulations.



Packaging marked with this symbol should be placed in the blue container (PAPER)



Packaging marked with this symbol should be placed in the yellow container (METAL, PLASTIC MATERIALS)

## 8. TROUBLESHOOTING

Examples of troubleshooting procedure:

<b>Problem</b>	<b>Cause</b>	<b>Recommendations</b>
Bursting of blood vessels and bone displacement; animal not properly stunned	Incorrect stunning parameters Incorrect stunning method Restless animal	Select correct stunning parameters: duration, voltage Analyze the stunning process
Device not working	Blown fuse	Replace the fuse
	The device is turned off	Turn on the device by setting the main OFF/MAX switch to position 1-6 ( <i>Fig. 3</i> )
No stunning process	Blown fuse	Replace the fuse
	The device is turned off	Turn on the device by setting the main OFF/MAX switch to position 1-6 ( <i>Fig. 3</i> )
	No stunning voltage on the electrodes	Clean the electrodes Check the tongs cable Contact authorized service centre
The red light (ON) is off.	Red lamp burned out ( <i>Fig. 2</i> )	Contact authorized service centre

**Table 5** Potential faults and how to remove them

### **FOR THE USER**

**Please read carefully the content of the warranty card and strictly adhere to the terms contained in it, and follow the general rules given in the user manual of the device.**

**The manufacturer is not responsible for the technical condition of the device and tongs, as well as for their safe functioning when carrying out unauthorized repairs, technical inspections or calibrations.**





**This device is recyclable. It is subject to the selective collection of electrical and electronic equipment.**



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