

# AUTOMATIC CATTLE BRUSH USER MANUAL





# 1. Description of the machine

This product cleans the cow from all dirt and dust, so it helps to get air into their skin. Eliminates the external parasites on the skin, massages the capillaries to accelerate blood circulation. Increases meat and milk yield and contributes to the development of the animal by providing psychological comfort.

## 2. Instructions for use

### 2.1. General instructions

Be sure to read and understand the following instructions before you start to use your device.

**WARNING: When used improperly can cause physical injury and property damage in humans and animals.**

### **ELECTRIC AUTOMATIC CATTLE BRUSH FOR COW**

- The product is not dangerous to users and animals, as long as it is used in accordance with safety precautions.
- Easy and fast installation
- Low energy consumption
- Safety precautions are taken and product maintenance is easy.

**WARNING: Users who will use and operate the product must know how to operate the product and should especially have read and understood the safety section of the operating instructions.**

The maintenance and repair of electric automatic cattle brush has to be done by trained and authorized staff.

The warnings contained in the operating instructions must be observed when installing and maintaining the product.

### 2.2. Safety work

The security warnings for operator / operation staff

- Any negative conditions that prevent the machine from running around the machine must be removed.
- All safety and danger instructions on the machine must be legible at all times and should be replaced whenever necessary.
- Maintenance and inspection work or repairs must be performed only by the machine is turned off and its plug to be done by authorized staff only.
- Before the maintenance of machine make sure that the electrical connection of the machine is plug off.
- People who do not wear regular or who has uncovered long hair must not approach the machine! Risk of injury!

- The length of the cattle's tail hairs must not exceed 5 cm! Risk of injury!
- Before operating the machine, these operating instructions must be read and noted carefully.
- Non-original spare parts should not be used. The warranty will be voided if used.

**WARNING: Failure to follow the instructions given in the user manual may result in physical injury and property damage. In these cases, the manufacturer does not assume responsibility.**

### **2.3. Correct usage**

This device is used to clean cattles. It ensures that the cattle get a clean appearance, a bright feather structure, free from dust and dirt.

The methods specified in this user manual must be followed. The use of another area of the device is considered to be misuse. The manufacturer is not responsible for any physical and / or material damage that has occurred.

The warranty covers the correct use of the product and up to 40/50 animals.

## **3. Assembly and operating**

### **3.1. Package content**

- The electric automatic cattle brush is delivered packaged.
- It is shipped with 220V plug.

### **3.2. Checks before operating**

The electric automatic cattle brush must be checked for visible defects and hazards before starting:

- Check the loose, worn and damaged parts when moving the machine from one place to another.
- Check the cable insulation.
- Ensure that all safety installation, warning labels are in place and work properly.
- Make sure that there are not any sources of danger near the machine (such as water hoses, exposed cables or adverse weather conditions) that will prevent the machine from functioning properly.

### **3.3. Assembly**

- The best positioning and fixing is important to ensure that the product works smoothly.
- Mount the product in an area where it can move and operate comfortably.
- Do not mount the machine near the back of or in front of the places where the milking process work is done to prevent the condensation.
- Protect the electric motor and the mainboard from rain and direct sunlight.
- Use the supplied mounting bracket when installing the machine on the tube or shaped tube. If

you are going to install concrete or wall, use steel dowels or bolts.

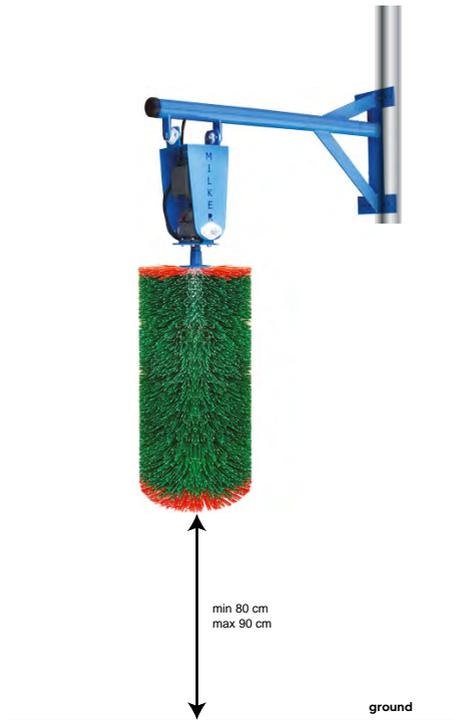
- Install a roof over the machine to protect the engine against rain, snow and adverse weather conditions when you install the machine outside.
- Mount the machine only by lifting it with suitable equipment to prevent accidents.
- Check the mounting bolts and pins regularly, and tighten the loosened bolts if necessary.
- The height of the brush from the floor should be minimum 80 cm and maximum 90 cm.

Work safety during installation

- The machine must always be picked up against falling and tilting during machine installation. There is a danger that can result in death.
- Fix the machine by lifting it with a lifting device.

**WARNING: The transport safety tire on the gear unit must be removed before starting up before carrying out the installation procedure.**

**WARNING: The operator must protect the cable that coming to the machine from chewing and biting.**





### 3.4. Electrical connection

The voltage and frequency should be 220V 50Hz.

A 16A alternating current fuse must be installed to connect the machine and this operation should only be done by a licensed electrician. This insurance must be installed at the place where the animals can not reach.

The manufacturer; does not guarantee and responsibility any damage caused by the fact that the electrical connection is not made by licenced electrician.

Local safety and grounding requirements must be considered. The machine must be used with a grounded plug.

**WARNING: The machine must also be protected by a 16A fuse. To ensure adequate voltage to the machine, a cable of the appropriate diameter must be used.**

## 4. Machine operating system

Switch on the machine: The machine is ready for operation after the machine is connected to the machine and enough voltage is available.

If the animal's tail is jammed, the brush has the ability to pause and reverse. The brush rotates backwards to open the tail.

The machine is fully automatic and operates electronically sensitive. If the brush comes back to jam when it rotates in the opposite direction, it goes into protection mode for 20 seconds.

The electronic card on the machine monitors the current used by the motor and checks that the brush is working properly.

When the brush is jammed, the card detects this and allows the brush to turn in the opposite direction. This can happen if the animal leans too far to one side, or if the tail is squeezed.

When the brush run, it reverses the direction it was last turned to ensure that the brush bristles get efficiency properly and evenly.

## **5. Periodic maintenance and cleaning**

The machine must only be operated undamaged and secure. The machine must be switched off immediately if any fault is detected.

**WARNING:** Use of defective or damaged machines may cause injury to users and animals and may cause physical / material damage.

- Cleaning and maintenance of the machine should only be done when the machine is switched off and the electrical connection is interrupted.
- Maintenance and cleaning work should only be done by authorized staff.
- The warning labels that unreadable or damaged must be change with new ones.

### **5.1. Mechanical visual inspection and electrical safety**

- Daily check of machine for visible damage and general functionality
- Control of electric cables and electric box

## 5.2. Brush

The brush should be checked monthly and cleaned if necessary. When the brush is worn and lost its function, it should be replaced with the new one.

### Replacement of the brush:

1. Remove 1 piece of M20 fiber nut from the brush spindle.
2. Remove the lower flange.
3. Remove the brush from its place and replace it.
4. After replacing the brush, install the flange and the nut.

### Cleaning the brush:

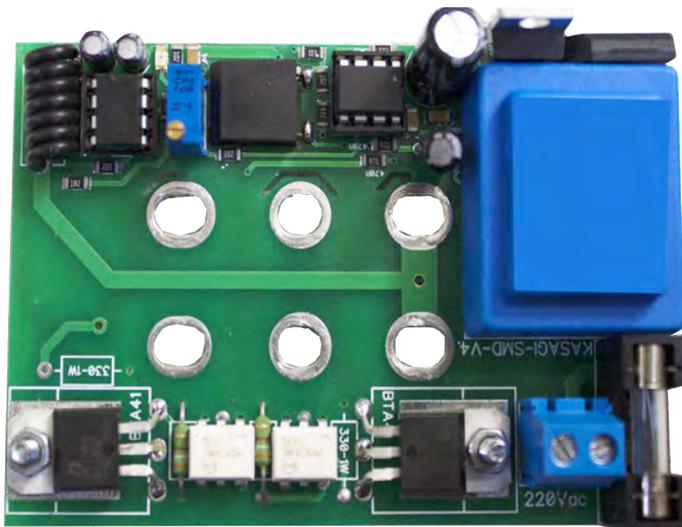
**WARNING: Do not clean the motor and electrical components with high pressure cleaners, the mainboard box should only be cleaned with a slightly damp cloth / sponge.**





## 5.4. Electronic mainboard

- The mainboard is designed to fit inside the motor terminal box and is mounted on the motor terminal block.
- The mainboard is microprocessor controlled.
- The machine starts to work when the sensor on the mainboard reaches 10 degree angle.
- The brush has the ability to turn in the opposite direction when tail trapping.
- All of the adjustments on the mainboard has done at the factory.
- All precautions have been taken on the mainboard so that the engine and animals are not damaged.
- The motor protection times are set to the optimum.
- The mainboard automatically stops the brush after 10 seconds of sensing the angle of the brush as "0".
- Each time the brush is turned, the previous turn is reversed. The bristles on this face wear out more evenly and uniformly.
- If there is a tail trap while the brush is running, the engine stops and rotates in the opposite direction. If there is difficulty in turning backwards, ie if there is a double jam, the mainboard goes into protection mode for 20 seconds and stops the motor. After 20 seconds of waiting time, it returns to "ready" position. This situation is repeated if the jam state becomes continuous.



## 6. Safety precautions

### 6.1. If the following conditions are met the security of the person can be compromised.

- If damage to the control system is not immediately restored
- Untrained personnel working on electronic parts
- If the machine is operated one time without proper fixing (even for testing and demonstration)

### 6.2. The following summarizes other measures aimed at protecting against personal and material risks:

- Make sure that the machine, the control devices and the breaker are not damaged during transportation and installation.
- Protect the machine from adverse weather conditions.
- Train on the use of responsible staff. Make sure you read the manual.

### 6.3. If the following conditions are met the security of the animals can be compromised.

- If the animal is NOT fully mature
- If the mane and tail hairs are too long
- If the operator does not protect the existing parts and electrical cables against chewing / biting

## 7. Identification of faults and troubleshooting

Some faults that may occur due to wear, machine defects, hard working conditions, incorrect operation or lack of maintenance are listed in this section.

Here are the methods for finding and removing problems.

**WARNING: The electrical connection must be disconnected during maintenance and repair.**

### 7.1. The brush does not work

- Check for mains electricity.
- Make sure that the electronic mainboard and motor connections made correctly and securely.
- Check the glass fuse on the card, replace it if it is defective.

### Contact an authorized service in the following cases:

- If mainboard malfunction
- If motor damaged

## **7.2. Brush does not turn in reverse during jam**

- The card has failed. Please contact the authorized service.

## **7.3 Engine running but brush not rotating**

- The wedge on the motor shaft lost its function.

# **8. Warranty**

## **8.1. Use of the product**

The warranty only applies when the product is used in accordance with the correct and intended use.

## **8.2. Warranty time**

The warranty period begins on the date of delivery and is 2 (two) years.

## **8.3. The content of warranty**

The warranty covers defects arising from the manufacturer and reported to the manufacturer, which are included in the warranty period.

## **8.4. Service coverage**

The warranty covers only the cost of spare parts used in the elimination of defects arising from manufacturing faults.

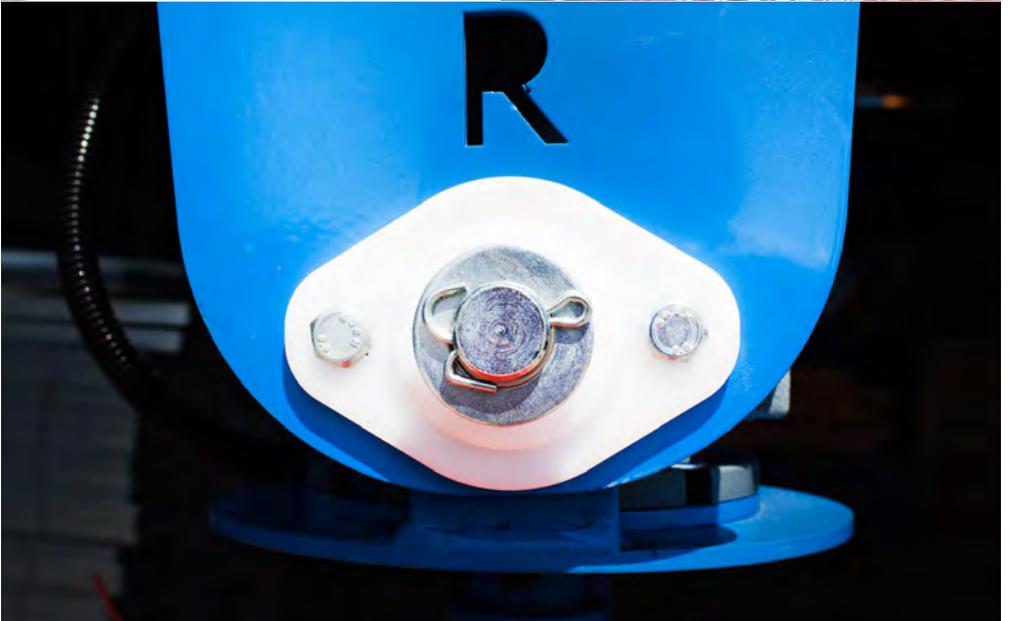
Labor, material costs and transportation costs that require replacement or repair of imperfections related to periodic maintenance are not warranted. The warranty is voided, especially if repairs are carried out without the manufacturer's knowledge.

## **8.5. Override of guarantee**

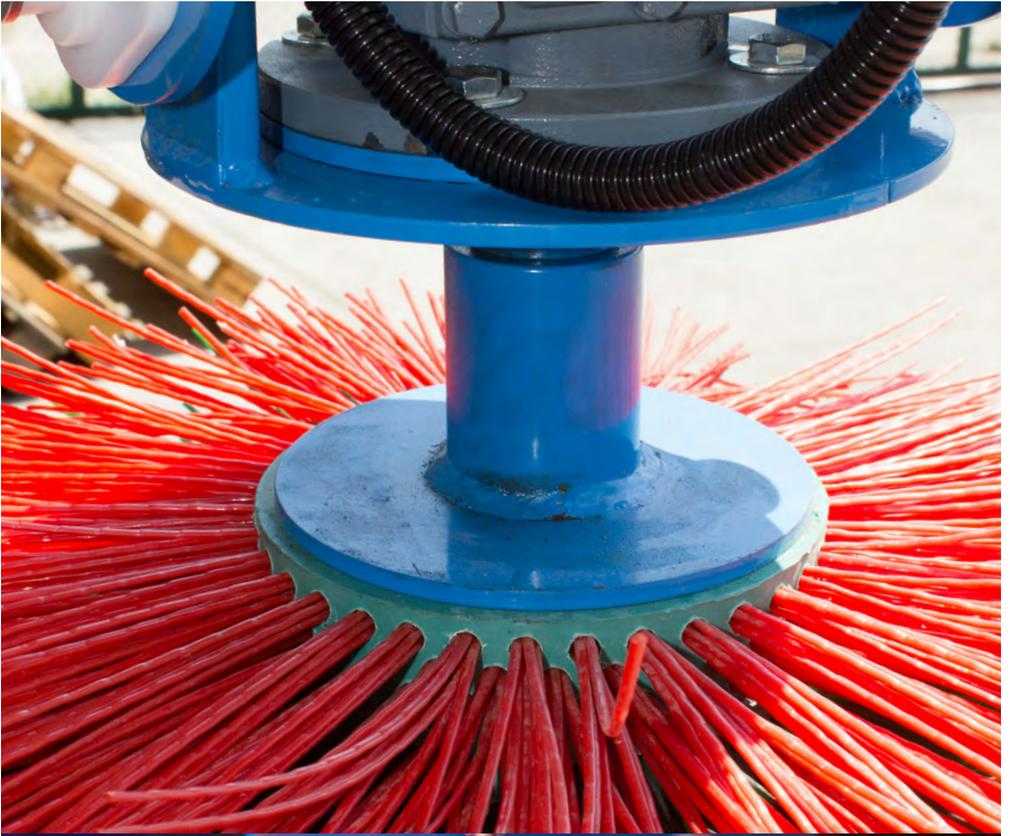
Damage caused by deliberate damage to the product due to neglect of the maintenance and cleaning of the product, damage due to improper use, damage due to improper electrical and electrical equipment (such as low or high voltage), and product overload are not covered by the warranty.

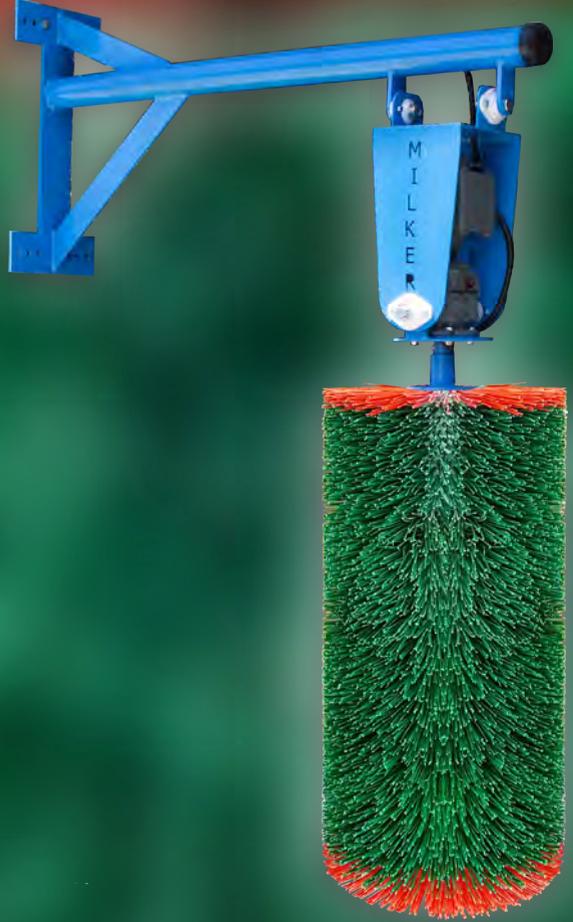
### **DO NOT FORGET:**

- **The wearable parts of the product (brush, felt, bush) are not covered by the guarantee.**
- **The use of non-original spare parts is guaranteed to be invalid.**
- **Devices without warranty certificate are not covered by warranty.**









**ENKA Tarım Hayvancılık ve İnşaat Sanayi Ticaret Limited Şirketi**

**İTOB OSB. Organize Sanayi Bölgesi 10017. sokak No: 3  
35470 Tekeli / Menderes - İzmir**

**+90 232 799 00 50 / [www.enkatarim.com](http://www.enkatarim.com)**