

JASOPELS PAW CUTTER

ITEM NO.: 32100040



Our quality – Your choice



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2 . INTRODUCTION

- Congratulations on purchasing the Jasopels Paw Cutter.
- These Instructions for use and safety notes are necessary for safe and proper use of this device. Read it carefully before use and refer to it when needed.
- Instructions for use contain important information on safety and use of the machine. All users of the machine should be trained to be able to use it properly. A person supervising work is responsible for proper instruction of machine operators.
- The instructions for use should be kept with the device. Instructions for use and declaration of conformity must be provided to a new user, if the device is resold or lent.
- The machine owner must ensure that the machine operator, technical maintenance personnel and any other persons having access to the machine were properly instructed on how to use and handle the machine .
For more information, see the following part of the instructions.

3. DECLARATION OF CONFORMITY

Original Declaration of conformity ANNEX II of the Machinery Directive

PRODUCT:

Product no.: 32100040
Type designation: GET 0092
Description: Paw cutter
Date: 15-09-2017

MANUFACTURER:

Name: Jasopels
Address: Fabriksvej 19
Postcode: 7441 Bording
phone: 98420566
E- mail: info@jasopels.dk
Att.: Poul A. Bach

THE DEVICE MEETS THE FOLLOWING STANDARDS:

- Directive EU 73/23EØS (Low Voltage Directive), as amended by Directive UE 93/68 EEA on CE marking
- Directive 2006/42/EC– Machinery Directive

THE PRODUCT MEETS THE STANDARDS

IF THE FOLLOWING HARMONIZED STANDARDS APPLY:

- EN 60204-1:Safety of machinery – Electrical equipment of machines — Part 1: General requirements 60439-1
- EN 60439-1:Low-voltage switchgear – Part 4: Particular requirements for assemblies for construction sites (ACS)
- EN ISO12100 :Safety of machinery – General principles for design – risk assessment and reduction
- EN ISO13850:Safety of machinery – Emergency stop – Principles for design
- EN ISO12100:2010 Safety of machinery – General principles for design – risk assessment and reduction
- EN 60204-1:Safety of machinery – Electrical equipment of machines — Part 1: General requirements 60439-1

PERSON RESPONSIBLE FOR THIS DECLARATION:

Name:
Company name: Jasopels a/s
Address: Fabriksvej 19
Postcode: 7441 Bording
phone: 98420566
E-mail: info@jasopels.dk

Signature:



Date 28.09.2015

The Administrative Director, Poul A. Bach, Fabriksvej 19, 7441 is authorized to submit technical documentation.

4 . EXPLANATION OF SYMBOLS

4.1 SYMBOLS IN THESE INSTRUCTIONS

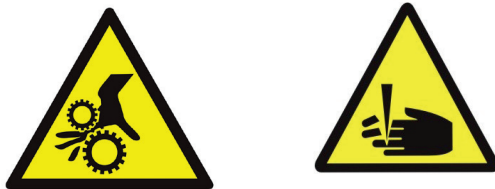
- Read these instructions for use and follow the instructions. Please read the instructions for use and follow the recommendations contained. To emphasize the importance of some information, the following phrases were used:

NOTE!



A triangle with an exclamation mark is a warning symbol that presents important instructions or provides information on this device.

WARNING!



A triangle containing a warning on the risk of crushing.

5 . MACHINE PRESENTATION

5.1 MACHINE DESCRIPTION

- Paw Cutter – 32100040 has been designed and manufactured to cut paws of minks.
 - Simple operation
 - Reliability Ensure stable production.
- Paw Cutter - 32100040 - is easy to mechanically and electrically operate.
- Simple maintenance

5.2 IMPORTANT INFORMATION ON USE

IMPORTANT INFORMATION FOR A PERSON SUPERVISING WORK.

NOTE!

- The person supervising work must ensure that the machine operator, technical maintenance personnel and any other persons having access to the machine were properly instructed on how to use and handle the machine .
For further information, read these instructions carefully.
- The device has been designed and manufactured specially for mink skinning and cannot be used for any other purposes.
- If there are any problems related to the machine or its operation, do not try to solve them before disconnecting the device from the power supply. By means of the machine's buttons, the operation can be changed and small corrections to the software can be made.
Any guidelines from the instructions for use must be followed.
- The instructions for use should always be kept in a place accessible to the operator.



6 . COMMENCEMENT OF OPERATION

6.1. BEFORE COMMENCEMENT OF OPERATION

- Before commencement of operation of Jasopels paw cutter, check whether the machine has been placed on a firm and stable surface.
(Use the adjustable feet to position the machine in the correct position).
- The device may only be used for cutting the front paws of dead minks.

6.2 WARNINGS - SYMBOLS

DANGER!

To avoid potentially hazardous situations when the machine is in operation, it is necessary for the operator to comply with all safety rules when operating the machine.

This especially applies to the clamps for mink paws and the blade for paw utting.

- A sudden movement of the holders that the operator may not expect when the machine is switched on can cause a danger.
- Protection against crushing of body parts will only work if the device is operated by one person (two globe buttons for two hands). Therefore, any persons other than an operator must stay away within a safe distance from the machine as long as the machine is running.



- Do not try to manually stop moving parts of the machine. **To avoid dangerous situations, always use an emergency stop switch.**
Do not use the stop button to avoid dangerous situations.
In case of danger, always use the emergency stop switch.
- The Jasopels paw cutter is factory equipped with 5-pin EU 400V plugs.
Use the device with the above plug only to ensure grounding.

NOTE!

The power cable of the machine must be grounded. In the event of non-compliance with this requirement, the warranty expires

(Absence of grounding may cause unintended program performance or errors)



IMPORTANT:

When the work on the machine not related to skinning is performed, such as cleaning, adjusting, etc., the machine must be disconnected from the mains.



NOTE!

To avoid possible damage to the microcontroller of the control system and other components of the electrical system of the machine due to storms, it is recommended to disconnect the machine from the power supply, when it is not in use.



7. SAFETY

7.1 USER SAFETY

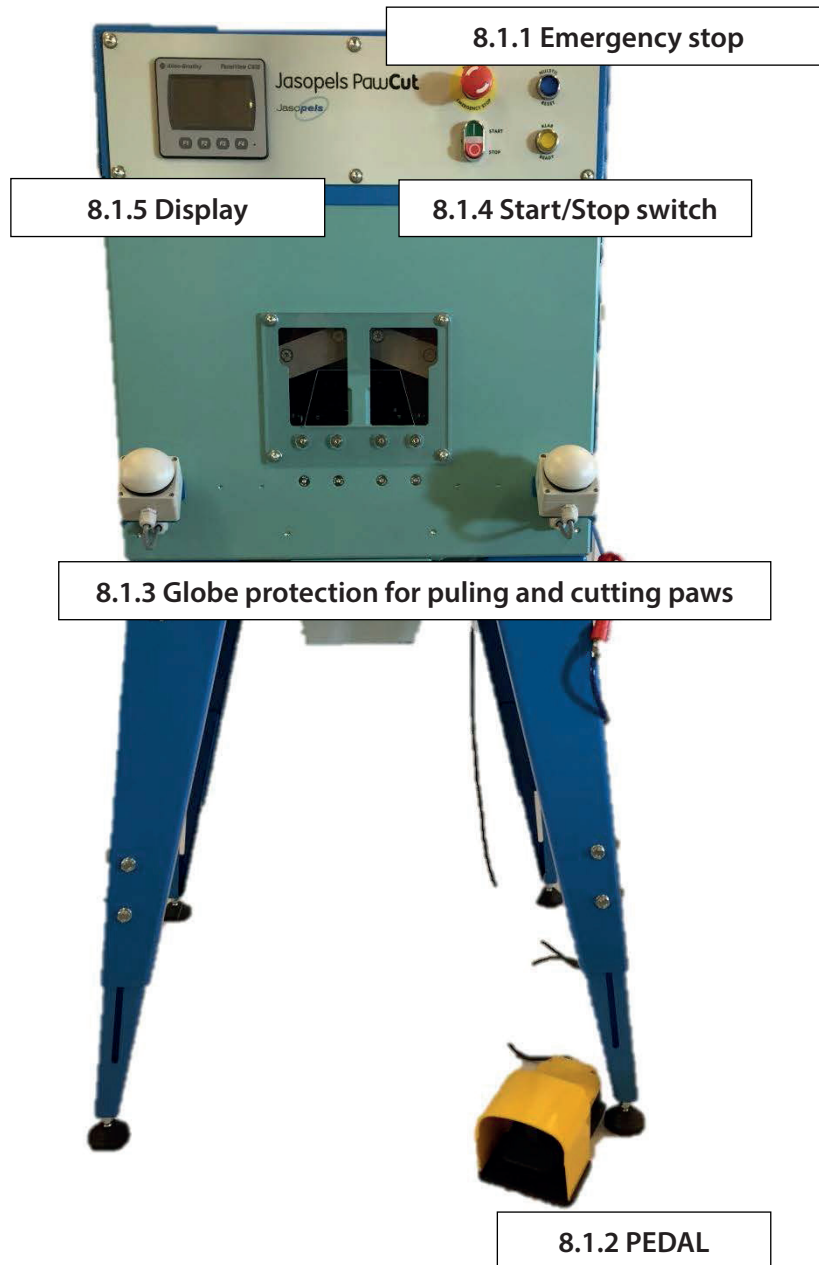
1. The machine operator must be thoroughly instructed in the use of the machine and familiarized with the instructions for use and safety regulations. A person supervising work is responsible for proper instruction of machine operators.
2. Due to the monotony and repeatability of work (EGA), Jasopels recommends that operators should not work on the machine more than 4 hours in total during a working day. A person supervising work is responsible for ensuring that machine operators do not work on it longer than recommended. Jasopels recommends rotation at the workplace.
3. It is forbidden to wear loosely hanging objects and loose clothing on the body and around the head when the device's movable parts are running, as this causes danger.
4. Long hair and beards should be protected with a net or something similar. It is forbidden to operate the machine's movable parts with unbound hair or a long beard, as this causes danger.
5. A person supervising work is responsible for employees' compliance with points 3 and 4, as well as every individual operator of the device.
6. The device operator must wear personal protective clothing such as:
 - Protective shoes
 - Gloves (recommended)
 - Protective goggles (recommended)

7.2 DEVICE PROTECTION

1. Observe the safety regulations when installing the device.
2. The device may only be used as intended. See point 4.2

8. DEVICE OPERATION

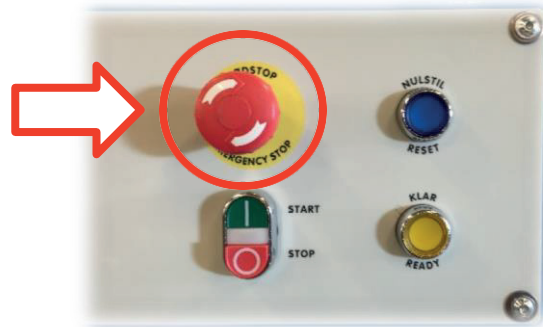
8.1 BUTTONS AND FUNCTIONS



8.1.1 EMERGENCY STOP SWITCH

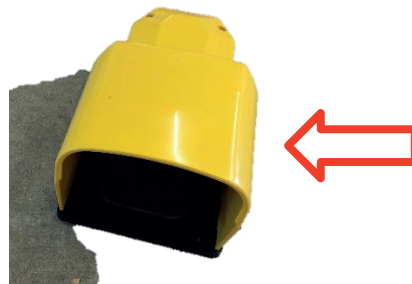
It stops the machine immediately, removes compressed air and the device does not make any movements. A blue reset button restarts the system after an emergency stop.

Note! The emergency stop switch should only be used in emergency situations, not regularly.



8.1.2 FOOT PEDALS

The foot pedal activates clamping on the front paws of a mink. The device operator must keep fingers away from the clamps when pressing the pedal.



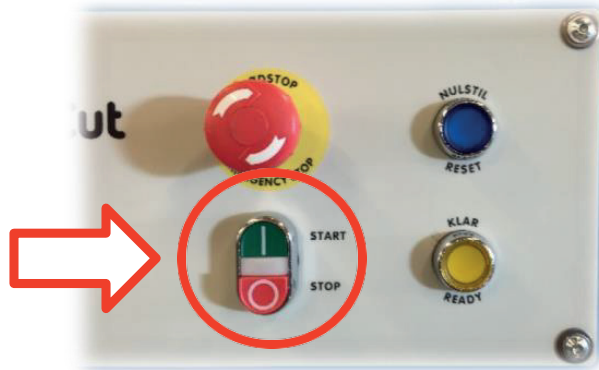
8.1.3 GLOBE PROTECTION FOR PULING AND CUTTING PAWS

The device has 2 globe buttons for pulling and cutting paws. The buttons should be activated simultaneously. They are located at a distance from each other, which ensures the safety of the hands and other parts of the operator's body during their activation in order to start pulling / cutting paws.



8.1.4 START/STOP SWITCH.

The device is equipped with the start/stop switch. After pressing the start button, the device is on and the operator should pay attention to whether the paw clamp pulls out from the side of the machine. After pressing Start and the device is ready for work, a "Ready" light will turn yellow. After pressing the stop button, the device is off and the operator should pay attention to whether the paw clamp pulls back to the side of the machine. After pressing Stop and the device is stopped, a "Ready" light will flash yellow.



8.1.5 DISPLAY

Machine is controlled on the display. Description of the display function, see *chapter 13 - Device control*.

9. CONNECTIONS

9.1 CEE CONNECTION

9.1.1 CONNECTION

The device is connected to the mains through a CEE 400V plug. The correct connection of the machine is essential for the operator's safety and uninterrupted operation.

NOTE!

Never disconnect power from the running motor.
If you want to disconnect the device plug, do it only when it is not connected to electricity or is not running.



9.2 CONNECTION TO OTHER DEVICES

9.2.1 CONNECTION OF A CONVEYOR BELT

The machine is equipped with a CEE 400V socket to connect a conveyor belt. The socket can only be used to connect the matching conveyor, which must be performed by an authorized installer.

10. DESCRIPTION OF FUNCTIONS

Device's functions:

10.1 START:

Make sure that compressed air flows into the device.

Make sure that the device is receiving power.

Make sure that the power switch on the back of the device is in the "ON" position.

Check that the emergency stop switch is not active.

The device control system is activated within 1-2 minutes.

When the screen lights up, press the blue "Reset" button if it is on.

Press the green "Start" button on the front side of the device.

The device will start up, and the compressed air system will also start that controls various moving parts of the machine. The clamps come out of the device and open - the device is ready for use.

10.2 FIX THE FRONT PAWS IN THE HOLDERS:

The mink front paws should be placed on the lower (still) edge of the paw clamp. The operator must pay attention whether all parts of his body are outside the clamping zone, and press the pedal, then the movable (upper) part of the clamp will clamp on the mink paws. Fig. 10.1.2

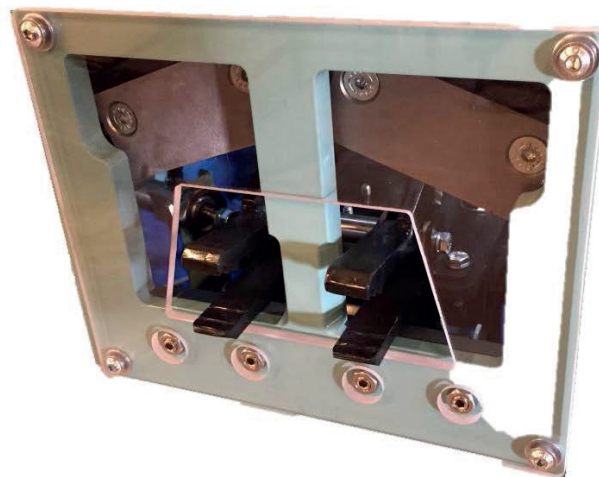


Fig. 10.1.2 Paw clamps

10.3 FRONT PAWS PULLING AND CUTTING:

1. When the front paws are properly clamped in holders, the operator simultaneously presses two globe buttons, and the device pulls a mink in, the blade cuts the paws and the mink falls to the ground. The holder automatically pulls out again and the device is ready for operation.

11. FAILURES

11.1 PROBLEM SOLVING SCHEME

Mode	Description
Emergency stop switch	Emergency stop switch is on Restart the device by first turning off the emergency button and then press the blue reset button.
Device does not work	Check the connection to the mains. Check the connection to the air supply.
The machine is ready, but does not work	Read the error messages on the display and eliminate errors, if possible. If this does not help: The machine must be inspected by a qualified technician – contact Jasopels A/S - Technical Department.
Paw holder does not clamp/close.	The machine must be inspected by a qualified technician – contact Jasopels A/S - Technical Department.
The holder does not hold the mink before cutting	The force should be adjusted by a qualified technician, you can contact Jasopels A / S - Technical Department.
Paw clamp does not get back on place after cutting.	The force should be adjusted by a qualified technician, you can contact Jasopels A / S - Technical Department.

12. SERVICING

12.1 SERVICING

The machine should be serviced by a technician.

12.2 TRANSPORT

The machine should be transported by a technician.

A trustworthy person should supervise the work area of the machine and the second person – safety during transport. These persons should communicate with each other.

The device can be transported on a pallet, as shown in Fig. 12.2.1.

At least two persons are needed to place the device on a transport pallet.

The device must be securely attached to a transport pallet by straps.

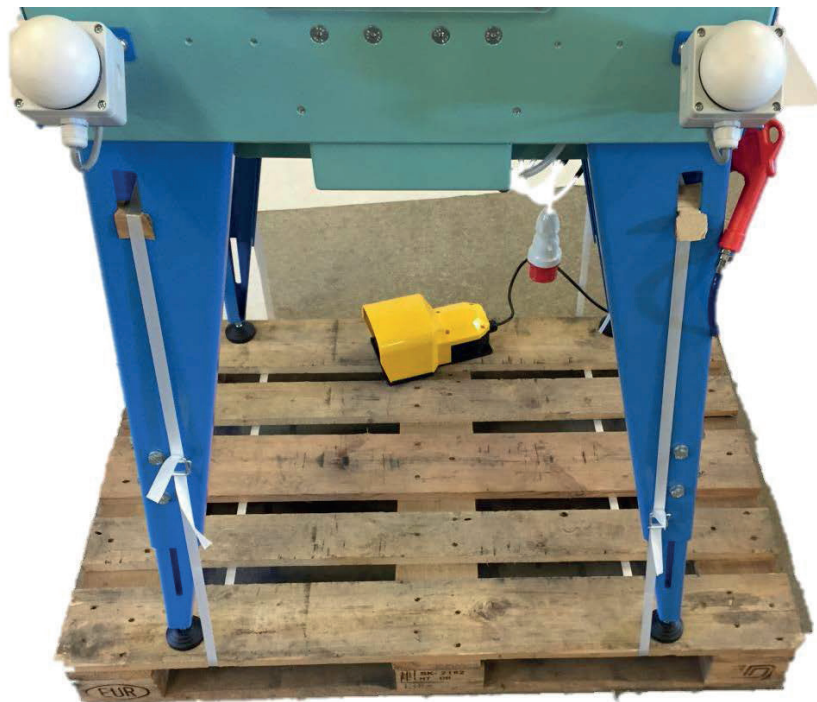


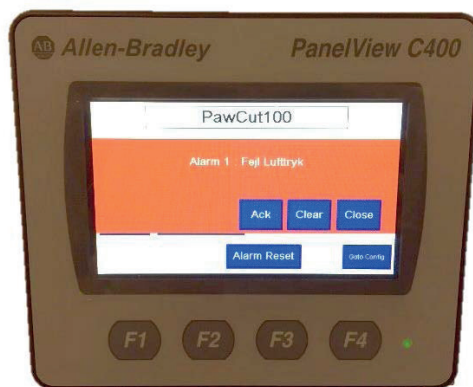
Fig. 12.2.1

13 CONTROL OF THE DEVICE

The Jasopels paw cutter is equipped with intelligent PLC control and a display that, in addition to control of the machine functions, provides useful information on the machine's condition and productivity. The machine can be used as a kind of input control on the farm, where, apart from cutting paws, the number of minks is important.

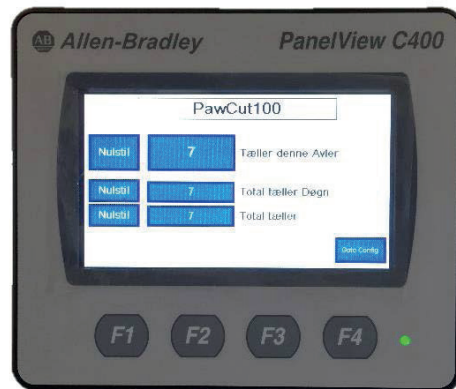
13.1 ERROR CODES

The device display can show error codes from electrical and pneumatic control systems. Error codes should be understood as a source of information to solve problems at the operator level or with Jasopels' technician telephone support. The error codes on the display disappear automatically when the problem is solved, which must be confirmed by pressing the blue "Reset" button. Example of error code:



13.2 START MODE

As long as the device is in "start" mode and is ready for use, the main screen is presented. The main screen displays information on the number of paws cut from the last reset divided into the number of paws per breeder, the number of paws / days and the total number of cut paws, respectively.



13.3 STOP MODE

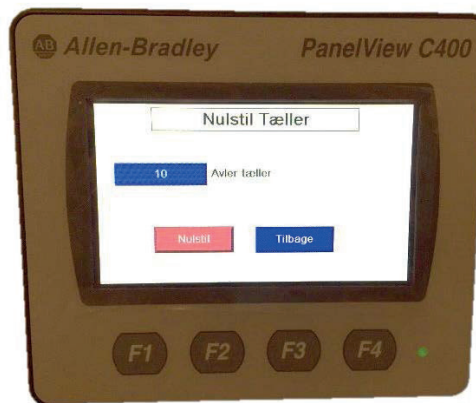
If the device is in the "Stop" mode, after pressing the "Stop" button, this information is displayed on the screen. Note that after pressing the "Stop" button, the paw holder returns back to the center of the device. After 3 minutes of the Stop mode, the machine vents the compressed air system.



13.4 COUNTER

The counting function may be used as a device run counter. A daily use efficiency can be tracked by means of the function of Total number / day, the number of minks coming through the machine can also be tracked. The machine can be reset for each new breeder using the function of *Total number / breeder*. The device is also equipped with a generic counter that counts the number of cuts during the machine life.

Total number / breeder - this function must be reset manually, for example every time after working with a mink from a new breeder. Note - the number must be noted before resetting the counter, as the data is not stored in the device. To reset this function, press "Reset", a message will appear and it must be confirmed as shown below:



Total number / day this function must be reset manually, for example every morning before commencing work. Note - the number must be noted before resetting the counter, as the data is not stored in the device. To reset this function, press "Reset", a message will appear and it must be confirmed as shown below:



Generic counter – this function cannot be reset. It counts number of cuts during the machine's life.

Minus -1

If an error occurs during cutting and the process must be repeated, such cut can be deleted from the counter (this applies to all counters). After the cut is made, a button with the marking “minus -1” will appear. This button remains active for 5 seconds after cutting and then it disappears, so that counter data cannot be falsified. Clicking this button subtracts one item from all counters.

Errors in the power consumption and in electrical installation of the device should be repaired by a qualified electrician. Works related to the electrical installation of the machine must be carried out by a qualified electrician.

14. MAINTENANCE

The machine should be properly maintained for efficient daily use.

The device is maintained on three levels. For all maintenance, both the air and power supply must be physically disconnected from the device.

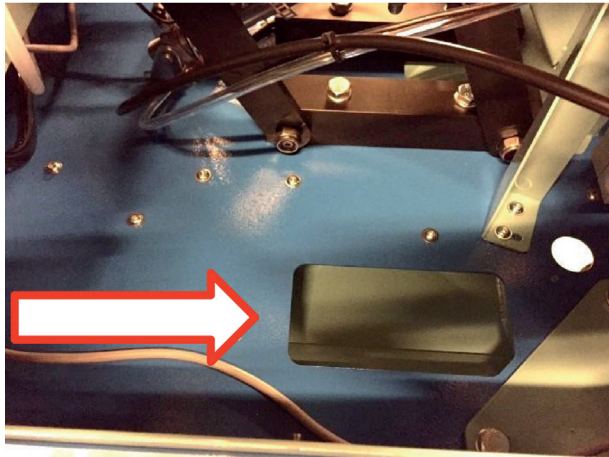
14.1 OPERATOR LEVEL

Maintenance performed by an operator.

- Before start-up, check all visible surfaces for damage. Any visible damage should be evaluated by a technician.
- Before start-up of the device, check all moving parts for functionality:
 - paw holder and clamp
 - paw holder pulling
 - blade margin when a paw holder is completely inside the deviceDefects of mechanical parts should be evaluated by a technician.
- Before starting the device, it must be checked for visible defects. Cables should be located away from communication routes in order not to damage them. Any damage to the cables must be inspected by a qualified electrician.
- The air supply must be inspected for damage to the hose. It must also be inspected whether there is a leak in the air system.
- Daily cleaning of the machine - removal of impurities from the device. Keep the work area clean.
- Paws must be removed from a container. The container has a bottom that can be moved away from the opening so that the paws fall directly into the box or onto the conveyor belt. If the bottom is completely slid over the container, the container must be regularly emptied. Paw container is presented below.



- The cut paws are removed from the external part of the machine. They can be pushed to a paw container, as presented below.



14.2 TECHNICIAN LEVEL

Maintenance performed by a technician.

- Any visible damage of the surface should be evaluated by a technician.
- Moving parts, such as blades, paw holder and clamping device, should be inspected at least once every 6 months. Replacement of mechanical parts.
- An emergency stop test must be carried out at least once every 6 months.
- It is also necessary to check the physical setting of the device, i.e. height adjustment (feet), and proper positioning in the work area.

14.3 AUTHORIZED TECHNICIAN LEVEL

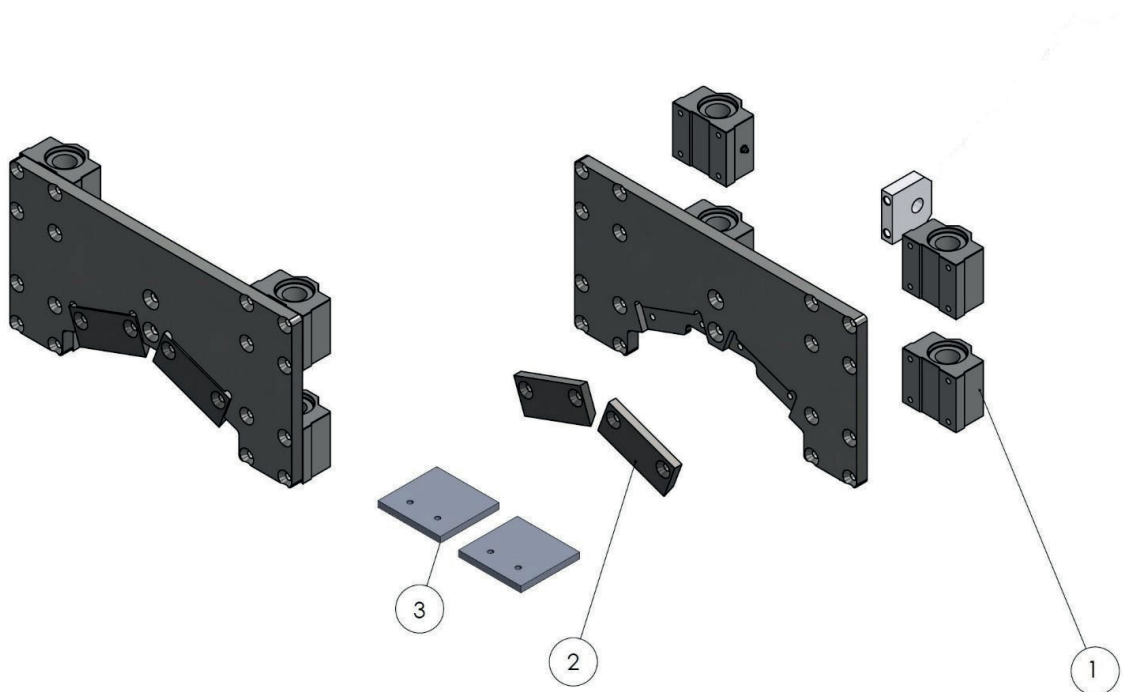
Maintenance performed by an authorized technician.

- Errors in the power consumption and in electrical installation of the device should be repaired by a qualified electrician. Works related to the electrical installation of the machine must be carried out by a qualified electrician.
- Errors in the compressed air supply system must be evaluated by a technician authorized by Jasopels. All works related to the above should be performed by experienced technicians.

15. PARTS LIST AND SPARE PARTS

15.1 SPARE PARTS AND WEARING PARTS

The upper blade and the cross blade to cut paws are the most important wearing parts of the machine.



Item	Product No.	Description	Number per a device (pcs.)
1	–	Cutting unit slide	4
2	–	Upper blade	2
3	–	Bottom blade	2

Rockwell Automation		Numerical plates	
Four-pole contactor, 12A Control voltage 24 (17-30) VDC diode	100 K12DJ400	1	pcs.
Manual motorvæm 6.3 to 1 OA	140M-C10-C2E	1	pcs.
MIDDLE COUPLING. FJE. 5MM, 10P. YELLOW	1492-CJK5-10	1	pcs.
BACK PLATE. BLUE EBL3-1492-B	1492-B-EBL3	1	pcs.
BACK PLATE. GRAY 1492-EBLD3 (2 grades)	1492-EBLD3	6	pcs.
SWITCH, FJE.F / DIN 35MM gray	1492-ERL35	3	pcs.
GG.KL. SPRING 2.5 MM. BLUE	1492-L3-B	1	pcs.
GG.KL. Spring 2 layers 2.5 MM. Gray (2 layers)	1492-LD3	11	pcs.
JORDKL. SPRING 2.5MM green / yellow	1492-LG3	2	pcs.
Power 100-230vAC / 24VDC -1.3A	1606-XLP30E	1	pcs.
Microbio CPU 8 input 24V / dc 4 relay outputs	2080-LC10-12GWB	1	pcs.
1.5 Micro800 Display with buttons	2080 LCD	1	pcs.
Frequency converter PF4M - 1.5kW (in.3x460v / 6.0a)	22F-D4P2N113	1	pcs.

16 ELECTRICAL CIRCUITS



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