



USER MANUAL

Screw press 100kg/h user manual



These operating instructions are in English, the original is in Estonian





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Name of product: screw press 100kg/h / 230V

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1 Safety instructions and warnings

Read the instruction manual carefully before using screw press.

It contains important information on the use, safety, installation, cleaning and maintenance of the screw press.

This protects the device and ensures your safety.

Keep the instruction manual for possible future use.

Electrical safety is only ensured if screw press is connected to a grounded mains supply in accordance with the instructions and fitted with a fault current circuit breaker.

The mains to which the screw press 100kg/h is connected must be installed by competent persons and comply with all legal requirements and regulations

The manufacturer and the distributor shall not be liable for any damage caused by incorrect connection and/or installation of the appliance or by the use of incorrect fuses.

Screw press meets the specified safety requirements.

Improper use may damage the screw press and endanger the user.

In the event of a fault or malfunction, stop operation, disconnect the appliance from the mains and only then determine the cause of the fault.

In the event of a serious product defect, please contact the manufacturer.

It is forbidden to use the device without reading the instruction manual first.

Only persons authorised by Asten Honey Production & Technology may carry out repairs and maintenance on the equipment. In other cases, the guarantee becomes invalid.





1.1 Technical safety

Before installation, make sure there is no visible damage to the screw press.

Do not install and put into service the damaged screw press.

Do not install in a room where there is a risk of freezing. Temperature fluctuations can have a negative impact on electronics.

The workplace where the screw press is installed must comply with the applicable safety rules and requirements.

Possible accessories and equipment may only be used with the machine if approved in writing by the manufacturer.

If non-authorized parts are fitted to and/or on the machine, the warranty will be invalidated.

Use only the spare parts provided or recommended by the manufacturer to avoid damage to the screw press and the associated risks.

Welding work on the screw press is only permitted after disconnection of the mains supply.

1.2 Notes

Asteni Mesindus OÜ has the right to modify the constructions and the firmware of screw press 100kg/h.

This manual is the translated version of the original manual for screw press 100kg/h.





2 Introduction

Thank you for purchasing screw press 100kg/h.

To make the best use of the screw press, please first read the user manual carefully.

Keep this manual for future reference.

Screw press is intended to squeeze honey from the cells.

Screw press is suitable for use under the unsealing machines produced by Asteni

Mesindus OÜ, for pressing the cells.

Speed control with frequency converter up to 8 rpm.

The working parts of the device that come into contact with honey are made of stainless steel.

The frame of the device is made of metal and painted with abrasion-resistant powder paint.

The temperature of the honey comb (honey and wax) must be between 21 and 28 C for effective results. In the case of over- or under-temperature, malfunctions or blockages may occur.

Technical specifications:

- Screw diameter 120mm, length 900mm.
- Power supply 230 V
- Motor 0,75kw.
- Total length from tap to shield (when the shield is mounted on the rear end carrier) 1400mm
- Height 770mm
- Width of device 400mm
- Total width of the device (with funnel) 615mm
- Size of hollow 600x616mm
- Depth of hollow 200mm

The instructions for use state:

- Brief description of the device and its components
- Instructions for starting work with the equipment
- Safety precautions





2.1 Concept and purpose of the manual

The screw press 100kg/h is made for the beekeeper to squeeze honey from the cells.

The product is not intended for any other use.

The purpose of this manual is to make it clear to the user of the product what functionalities and features this screw press has.

The product comes with: screw press 100kg/h, user manual.

2.2 Overview of the work process

Be sure to read the product's user manual before using the product.

Tidy up the work area, make sure it is safe to start work and make sure that the appliance is not used by someone who has not read the user manual.

The temperature of the honey comb (honey and wax) must be between 21 and 28 C for effective results. In the case of over- or under-temperature, malfunctions or blockages may occur.

3 Maintenance and cleaning of the device

The first time the screw press is used, it must be washed with warm water and/or with detergents approved for use in the food industry, as dust or other dirt may be present.

When using **for the first time**, it should be borne in mind that rubbing the dry screw and the casing may cause residues to build up, which may spoil the first 3-5 kg of honey.

General washing of the equipment can be carried out as required, but it is advisable to carry out a thorough wash after the end of the beekeeping season.

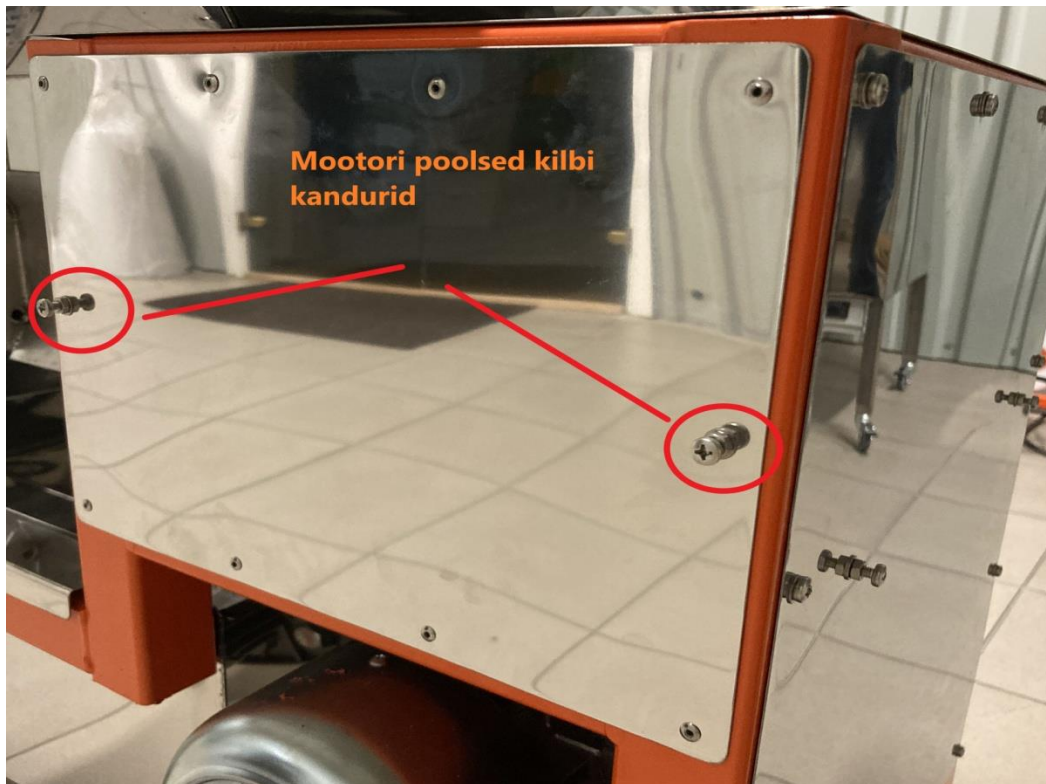


4 Working process

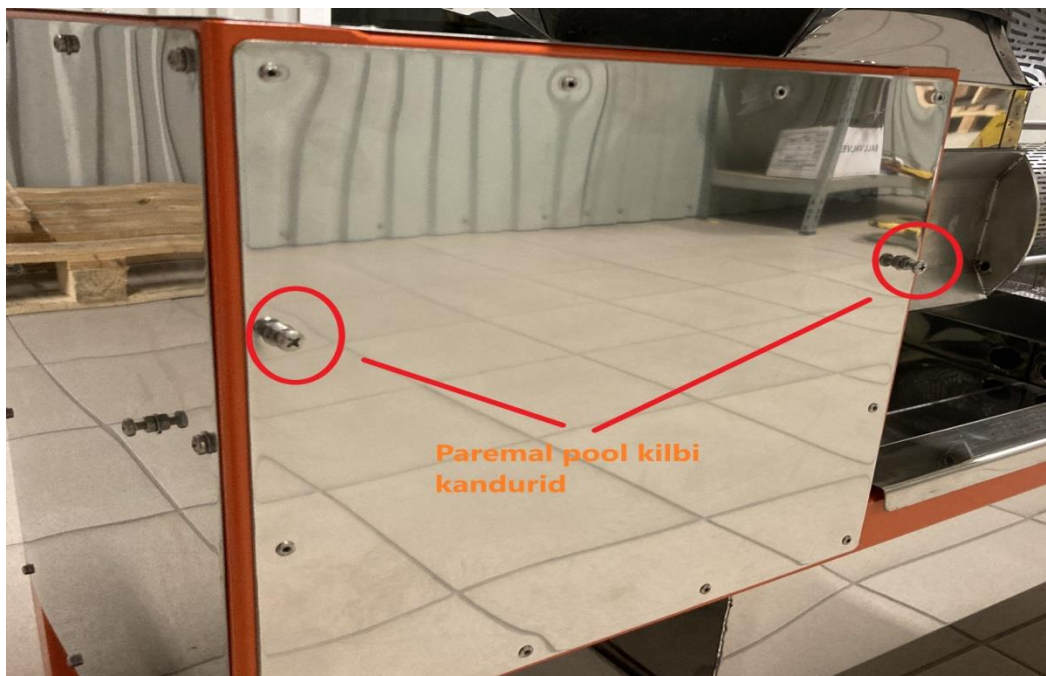
The guide plate can be mounted on three sides of the screw press, depending on the user's needs. The need for the placement of plates will be determined by the layout of the unsealing device in the workspace. Once the plate has been installed as required, continuous movement of the plate should be avoided, unforeseen damage may occur. Behind the plastic electrical panel is a metal plate with holes for the panel carriers on the three sides of the device. The plate hangs freely on the supports, it is not necessary to fix it rigidly.



Rear end carriers for electrical panel



Motor-side electrical panel carriers



Carriers on the right side of the device





To start work, insert the cord into the mains (**power supply 230V**)

Then turn the button "**TOIDE**" into the position "**I**" (The green signal light lights up)

Position "**O**" to switch off.

When "**TOIDE**" is switched on, select the direction of rotation of the screw with the "**REV**" switch on the control panel and turn it to the position "**EDASI**" - as a result, the screw starts to work.

By turning the "**REV**" knob to the "**TAGASI**" position it is possible to change the direction of rotation of the screw, but for a temporary process (the button must be held in the "**TAGASI**" position manually), e.g. if something is stuck between the screw.

The speed of rotation of the screw press can be adjusted by means of an adjustment knob on the control panel, marked as „**KIIRUS**“, by turning the switch in the "**MIN**" or "**MAX**" direction. Adjust turns as needed. The slower the rotations, the better the pressing result. A better pressing result is obtained by stopping the press when there is little honey in the funnel and the screw is exposed (visible). Once the screw is covered with honey again, we put the screw back to work.

In the event of an emergency, immediately press the "**HÄDASTOPP**" button in the centre of the control panel, which immediately stops the rotation of the screw.. After using the Emergency Stop button, the button must be turned in the direction indicated by the arrows, which will return the button to its initial position. After moving the button to the initial position, wait **20 seconds** before using the other buttons, as the frequency converter needs time to switch from emergency mode.

THE EMERGENCY STOP BUTTON MUST NOT BE USED TO SWITCH THE APPLIANCE ON AND OFF / THE SWITCH MUST ONLY BE USED IN AN EMERGENCY!!!





Screw press remote control buttons





The funnel of screw press

The mass of the cell accumulates in the funnel of the screw press. From the funnel, the pressing process of the cell begins.

It is not advisable to remove the safety net as this could cause serious injury to the user.

The mass of the cell on top of the funnel must be sufficient for effective pressing to take place. If there is not enough honey in the funnel, it is advisable to stop the screw press. Uneven running on the honey makes pressing work inefficient as there is not enough counter-pressure in the spiral.





Wax collection basket

There is an extra basket in the tub in front of the screw press to collect the wax pieces.

As the main pressing operation takes place at the top of the spiral of the screw, which can result in wax pieces separating with the honey, the basket collects the wax pieces from the rest of the honey mass and allows easy removal. The basket is easy to move and clean.



Tongue of the screw

The tongue helps guide the pressed wax strip into the collection vessel. The screw tongue is portable.





5 Safety precautions

Before using the product, carefully read the safety precautions below to ensure correct and safe use of the product and to prevent damage and injury to you or others.

It is the responsibility of the person in charge of the equipment to ensure that all users understand and comply with this manual.

To ensure that users of the product can consult the instructions quickly, keep the instructions close to the product.

1. Use the product only in the place where it is intended. Preferably indoors, at a stable temperature and level surface.
2. Use of the screw press only for honey and cell pressing purposes.
3. In the event of a fault or malfunction, stop operation, disconnect the appliance from the mains and only then determine the cause of the fault.
4. Unplug appliances when not in use and before servicing and washing.
5. In case of a serious product defect, please contact the manufacturer.
6. It is forbidden to use the device without first reading the instruction manual.
7. Keep children and unauthorised persons away from the equipment. Do not allow unauthorised persons and children to touch the appliance.
8. Do not press the cell into the opening of the screw press with your hands or other parts of your body!
9. Don't squeeze cells with foreign objects between the screw spiral.
10. Do not use physical force on the appliance.
11. Maintain the device carefully!

Producer responsibility

It is the responsibility of Asteni Mesindus OÜ to ensure that the screw press 100kg/h is completely safe when used correctly and that it is accompanied by instructions for use and safety.





5.1 Safety symbols

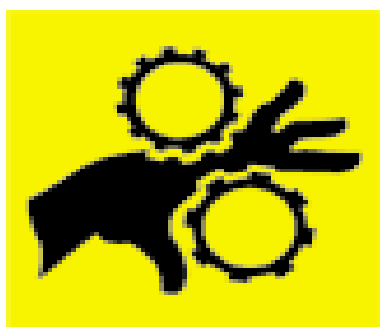
Careless use of the screw press can result in the risk of getting your hand or fingers caught in the screw which can cause serious damage to the hand/fingers.

It is strictly forbidden to put your hand on the screw shaft!

To prevent injuries, a safety grille is installed at the opening of the screw press (see figure).



Safety grille.



Dangerous! Moving parts, risk of getting trapped.



Electrical hazard/electrical components





ELECTRICAL HAZARD - The sticker is mounted on the control panel of a screw press which contains a considerable amount of electronics. Any dismantling/mounting of the guide plate while the appliance is connected to the mains is strictly prohibited!

The guide plate is not waterproof, so pay strict attention that the guide plate is not exposed to moisture or direct water!

MOVING PARTS / RISK OF GETTING TRAPPED – The sign indicates that the appliance has moving parts which present a high risk of serious bodily injury.





6. WARRANTY

Asteni Mesindus OÜ warrants the equipment it manufactures and sells against possible defects in construction, workmanship and mechanical defects. After the expiry of the warranty period, no reference to a defect during the warranty period shall be valid unless made in writing.

6.1 DURATION AND START OF THE WARRANTY

The guarantee is given for the following period;

- Electronics inside the control panel (frequency converters, contactors, temperature controllers) - 2 years (24 months)
- Motors and reducers on the device – 2 years (24 months)
- Device construction details and welds - 5 years (60 months)

The guarantee starts from the moment the goods are handed over to the customer and the instrument of delivery and receipt is signed.

Warranty applies to the first buyer/user of the equipment sold.

The customer ordering the warranty repair must prove the validity of the warranty period of the appliance (by means of an acceptance report or the serial number on the CE marking)

6.2 WARRANTY INCLUDES

The warranty covers the costs incurred during the warranty period for the repair of structural, manufacturing and mechanical defects in the equipment identified by Asteni Mesindus OÜ.

The aforementioned faults will be corrected by a person authorised by Asteni Mesindus OÜ or by an authorised maintenance company by putting the equipment back into working order.

Parts and components replaced under warranty are the property of Asteni Mesindus OÜ and are subject to return.





6.3 CARRYING OUT WARRANTY WORK

The fixed equipment is repaired at the customer's premises on working days at 8.00 - 16.30. If the customer requests the warranty repair to be carried out outside normal working hours, the customer shall reimburse the additional costs incurred.

In the case of equipment expertise, easily transportable and easily disconnectable equipment must be delivered by the Buyer at his own expense to the Asteni Mesindus OÜ factory (e.g. containers and wheeled equipment).

In the case of larger and more technically complex equipment, the transport and disconnection of the equipment must be agreed in writing in advance with Asteni Mesindus OÜ (e.g. line parts and sealing machines).

When the technician arrives on site, free access to the equipment must be prepared for the technician.

Repaired equipment is collected by the customer or returned to the customer at the customer's expense.

6.4 LIABILITY AND LIMITATIONS OF THE WARRANTY

This warranty is valid provided that the equipment has been used under normal conditions and that the instructions for use have been carefully followed. If the above conditions are fulfilled, Asteni Mesindus OÜ is responsible.

The warranty does not cover losses that may be caused by a defect in the equipment, including damage to property, personal injury, damage to other objects, loss of profit, damaged output and other consequential losses.

Warranty repair does not include routine maintenance of the equipment and does not reimburse the costs arising from non-compliance with the instructions for use and maintenance of the equipment.





6.5 WARRANTY DOES NOT COVER DEFECTS CAUSED BY:

Incorrect transportation, improper lifting or moving of the equipment and failure to comply with the installation instructions for the equipment (unless carried out by persons authorised by Asteni Mesindus OÜ).

Due to the user's negligence or non-compliance with the instructions or handling conditions.

Overloading of the equipment.

Use of the equipment for purposes other than those for which it is intended.

Insertion of unsuitable frames into the equipment.

Conditions independent of Asteni Mesindus OÜ:

- +-5% of voltage fluctuations, at 230V
- Lightning strikes
- Fire
- Flooding
- Vandalism
- Incorrect connections between the appliance and the power cable
- Defective fuses
- Excessively long and inadequate extension leads
- High water hardness
- Damage caused by repairs, maintenance or structural modifications to the equipment carried out by unauthorised maintenance companies.
- Improper installation or placement of the equipment at the place of use, not in accordance with the instructions for installation and use or otherwise incorrect.
- Improper storage conditions of equipment by the user (excessive humidity and negative temperature in the storage room)





6.6 MINOR FAULTS, ADJUSTMENTS, OPERATING INSTRUCTIONS AND EQUIPMENT ACCESSORIES

Warranty does not cover:

Repairing surface scratches that are insignificant to the operation of the device,

Adjustments mentioned in the normal instructions for use of the equipment, on-site instruction, cleaning and maintenance measures.

Work resulting from the non-observance of, or failure to explain, precautionary or installation rules at the place of installation.

Parts that are likely to break as a result of use or normal wear and tear are not covered by the normal warranty:

- warning lights
- switches
- moving plastic parts
- heating elements
- seals
- clamps
- springs
- hose fittings
- bearings
- bearing supports
- hoses
- plastic lids





6.7 ACTION TO BE TAKEN IN THE EVENT OF AN ERROR

In the event of a defect occurring during the warranty period, the customer must immediately notify Asteni Mesindus OÜ IN WRITING.

When reporting a fault, you must specify the type of equipment (make, model). Proof of the validity of the guarantee (acceptance of delivery, model code on the CE marking) must be provided.

Describe, as precisely as possible, the nature of the error and the conditions in which and/or under which it occurs.

For its part, Asteni Mesindus OÜ will clarify whether the device and the described defect are covered by the warranty and will provide the customer with feedback on the repair method and time within 2 (two) working days.

6.8 DATA PROTECTION

Personal data will be used only for the purposes of contractual procedures and possible warranty operations in accordance with the requirements of the Data Protection Act of the Republic of Estonia.

