

# **EKOPACK 50**

# **EKOSACK 50**

**Specification of product**  
**Instructions for use**  
**Maintenance**  
**Installation of machine**

## TABLE OF CONTENTS

<b>1.</b>	<b>SPECIFICATION OF PRODUCT .....</b>	<b>3</b>
<b>2.</b>	<b>SCOPE OF USE.....</b>	<b>4</b>
<b>3.</b>	<b>DESCRIPTION OF MACHINE .....</b>	<b>5</b>
<b>4.</b>	<b>TECHNICAL PARAMETERS .....</b>	<b>7</b>
<b>5.</b>	<b>INSTRUCTIONS FOR USE.....</b>	<b>8</b>
<b>6.</b>	<b>MAINTENANCE.....</b>	<b>13</b>
<b>7.</b>	<b>SAFETY INSTRUCTIONS .....</b>	<b>16</b>
<b>8.</b>	<b>SAFETY DEVICES.....</b>	<b>17</b>
<b>9.</b>	<b>FIRE-FIGHTING INSTRUCTIONS .....</b>	<b>17</b>
<b>10.</b>	<b>INSTALLATION.....</b>	<b>18</b>
<b>11.</b>	<b>TRANSPORT.....</b>	<b>20</b>

## ANNEXES

Report on revision of electric installation

Electric wiring diagram

Certificate on quality and completeness of product

Letter of guarantee

# 1. SPECIFICATION OF PRODUCT

EKOPACK 50 is a baling press of a simple and reliable design the style and safety of which meet requirements of users of these devices. Observing the principles of maintenance will guarantee a problemless operation of the machine for many years.

As compared with the efore mentioned type, a plastic bag can be inserted into the baling press EKOSACK 50 for depositing finer, wet and/or evil-smelling wastes.

For ensuring reliability of the machine, the company PRAGOMETAL recommends that EKOPACK 50 and EKOSACK 50 should be used only for purposes to which they have been designed for and in compliance with safety instructions. It is also necessary to read these instructions for use carefully so the machine is properly installed and maintained.

The guarantee is conditioned by observing the instructions for use and safety operation and by using only original spare parts.

## NAME PLATE OF MACHINE

This plate is attached on the rear side of the cover and contains the following information:

Type of machine, serial number, year of manufacturing, number of electric diagram and electric specification of machine

	<p><b>The user of the machine is responsible for safety inspections and carrying-out of a daily maintenance.</b></p> <p><b>The user is also responsible for ensuring repair of any defect and for keeping EKOPACK 50 in such conditions that any injury to the staff is excluded.</b></p> <p><b>The user of the machine is responsible for observing national and local legal regulations in using the machine EKOPACK 50.</b></p>
---	--

## 2. SCOPE OF USE

EKOPACK 50 is an electrically driven press applied for reducing volume of wastes of various type (paper, textiles, plastics, rubber, leather, etc.) for their easier storage and transport.

The press EKOSACK 50 enables to insert a plastic bag to provide for pressing fine, wet and/or evil-smelling wastes.

	<p><b>Materials of explosive character,</b></p> <p>such as cans with rests of ethereal liquids or any substance which could cause damage or explosion,</p> <p><b>must not be pressed</b></p>
---	--

The machine includes a mobile container. The user can have more such containers laid out about the workshop and thus enable classification of various types of wastes.

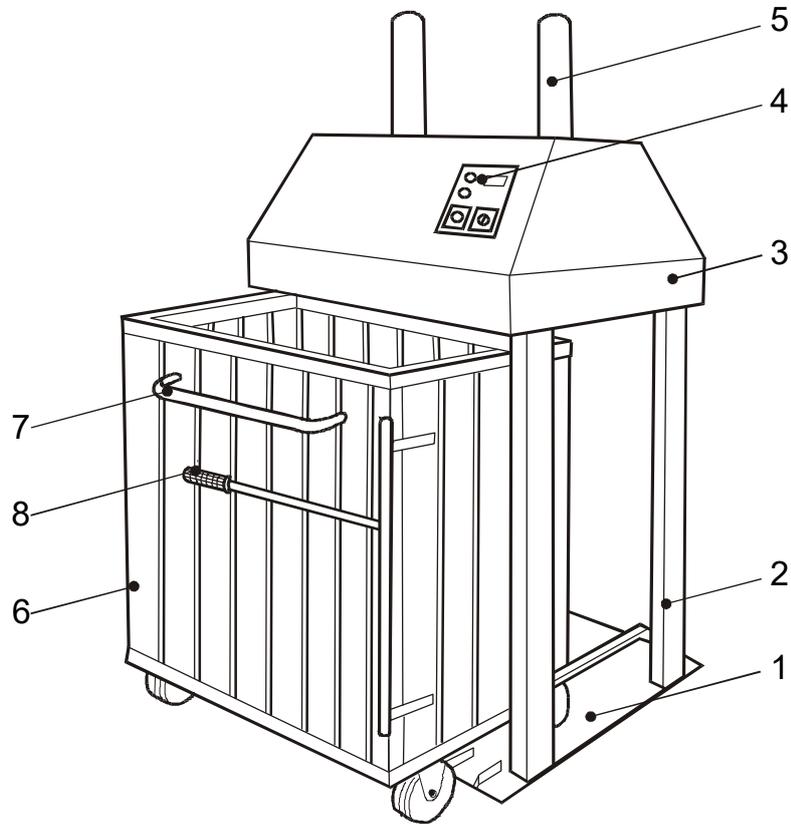
The machine is operated from the control panel on the machine front side.

Electric supply of the machine includes a cable connected to mains via an insulated socket (see instructions for installation).

The machine driving motor and electric switch-board are located under the machine cover. After dismantling the cover all these installations are easily accessible.

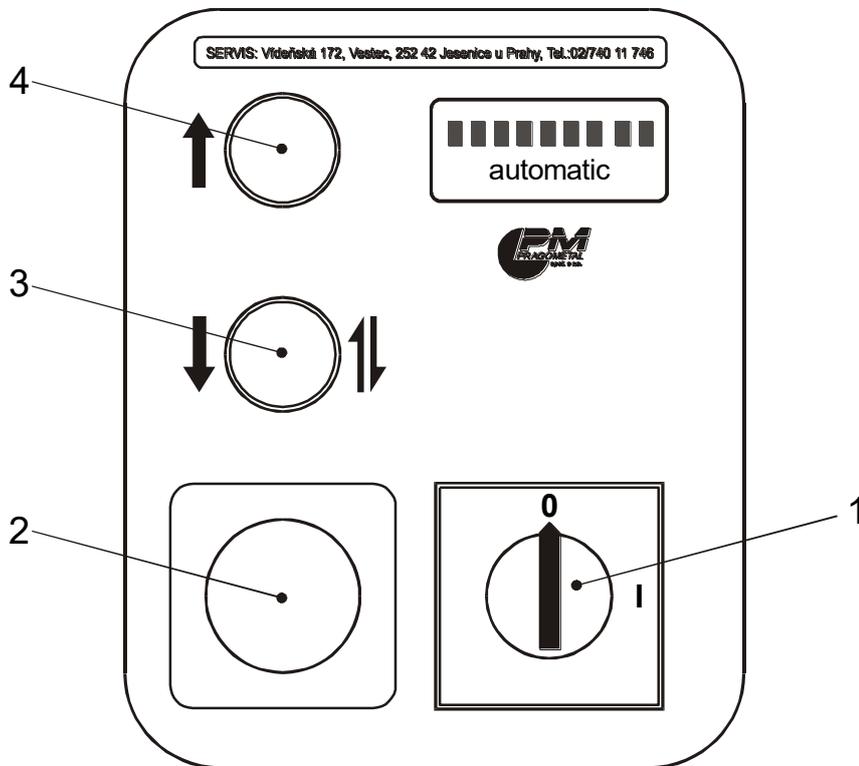
EKOPACK 50 and EKOSACK 50 are intended for using only in sheltered process premises with a horizontal consolidated floor.

### 3. DESCRIPTION OF MACHINE



1. Base of the press
2. Load-bearing part of the press
3. Cover of the press
4. Control panel
5. Driving screw guard
6. Container
7. Container handle
8. Lever for handling the container

## CONTROL PANEL



### 1. Main switch

### 2. Emergency switch

### 3. Push-button with two functions

#### 3.1 Pressing (short activation of the push-button)

The press ram moves downwards. After the waste is pressed it remains in the lower position. This makes it possible to ribbon-wrap the pressed waste into a compact bale.

#### 3.2 Automatic pre-pressing cycle

(activation of the push-button for about 2-3 s)

The ram accomplishes the pressing cycle, i.e. the ram moves downwards, waste is pressed and the ram returns back to the original position.

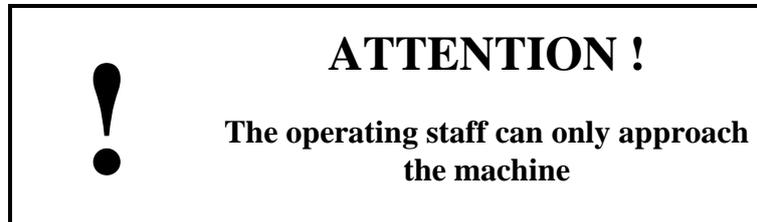
### 4. Upward movement of the ram

The ram moves from the down to the upper positions.

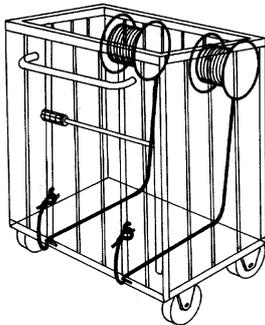
## 4. TECHNICAL PARAMETERS

		<b>EKOPACK 50</b>
		<b>EKOSACK 50</b>
		3×400 V
Machine dimensions	width	855 mm
	depth	680 mm
	height	1950 mm
Weight (incl. container)		310 kg
Max. dimensions of the pack		600 x 400 x (300-700) mm
Max. pressing force		50 000 N ±10%
Pressing time		25 s
Specific pressing pressure		208 kPa
Electric part	Working voltage	3×400V/50Hz
	Machine power input	1,5 kW
	Supply mains protection	16 A

## 5. INSTRUCTIONS FOR USE



### 5.1. Preparation of binding ribbon

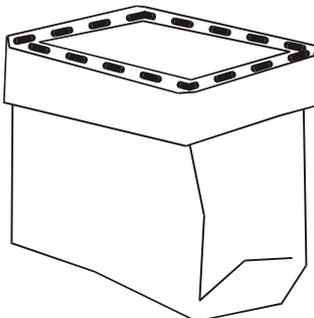


1. The spool with the binding ribbon is placed on a holder on the rear side of the container.
2. Make an eye at the end of the ribbon. Pull the ribbon through a gap in the container and insert it to a groove on the container bottom.
3. Pull the ribbon through a gap in the container front door and hang it on a hook on the container front side.

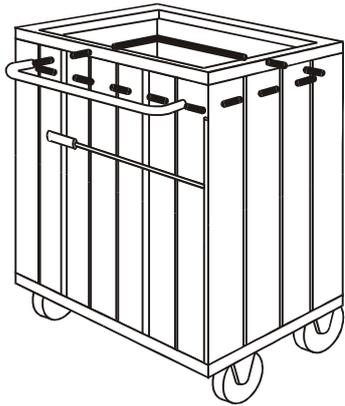
### 5.2. Insertion of waste bag

(this applies to the type EKOSACK 50 only)

If finer wastes (cuttings, shearings, etc.), in which case the pressed bale can disintegrate, or wet and/or evil-smelling material are to be pressed the plastic bag can be used.



1. Slide a frame from up-down onto the bag and place vertically so that, after inserting the bag into the container, the bag down part would lie on the container bottom.
2. Bend the bag free end over the edge in outward manner.



3. Insert the bag with the frame into the closed container so that the frame would lie on an auxiliary frame of the container.

Using the bag is not a condition - the machine EKOSACK 50 can be used in a manner identical with the press EKOPACK 50.

### 5.3. Filling the container with wastes

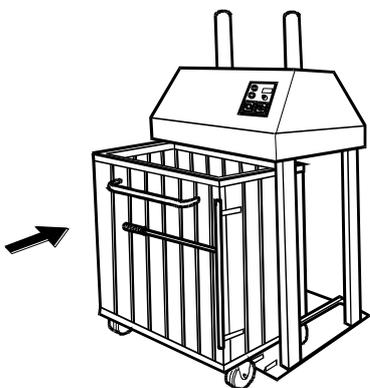
It is prohibited to place into container a waste during pressing of which there is a danger of explosion (cans with rests of volatile materials, etc.).

In case of pressing wastes of small size in the press EKOPACK 50, when there exists a danger of releasing the wastes from the pack after pressing, it is recommended to use e.g. a cardboard on the container bottom. In the press EKOSACK 50 a plastic bag is used in such case.

With the press EKOSACK 50, use a plastic bag also for pressing wet and/or evil-smelling wastes

Wastes should be placed evenly into the container.

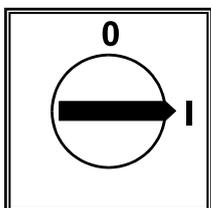
### 5.4. Installing the container into the press



1. After the container has been filled, push it into the press. Pushing is facilitated by guiding rails in the press base.
2. Correct position of the container is ensured by a limit switch so that the press works **ONLY** with properly installed container.

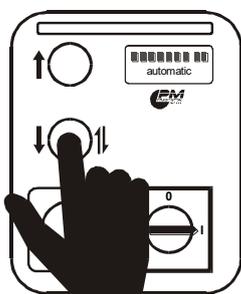
## 5.5. Operation

### 5.5.1. Turning-on the mains switch



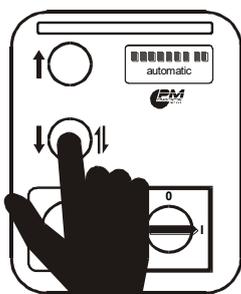
Turn the mains switch to the position "1"

### 5.5.2. Automatic pre-pressing cycle



1. After activating the push-button of cycle (hold the push-button pressed for about 2 s), the press accomplishes pre-pressing and returns back to the original position.
2. When the automatic cycle is used it is necessary to count with the pressing frequency of 2 cycles/min due to refilling the container before each cycle.

### 5.5.3. Pressing



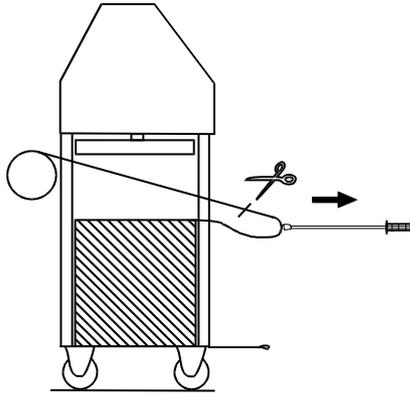
When the push-button is activated for the downward movement (short activation) the press accomplishes pressing and remains in the lower position

### 5.5.4. Upward movement of the ram



If the pressed waste is to be released, the push-button for upward movement of the ram should be activated.

## 5.6. Binding the pack

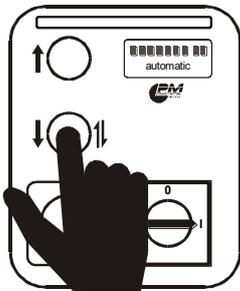


1. Before the final pressing (the ram of the press is in its upper position, waste is not pressed) with the type EKOSACK 50, take out the frame for holding the bag (in case the bag is used) and fold the bag free end on top of the pack.

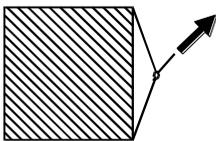
2. With both types: pull through the binding ribbon by means of a hook so that the protruding end is sufficiently long for binding the pack.

3. Cut the ribbon and pull back the free end from the spool.

4. Press the wastes. After activating the push-button for downward movement (short activation), the press accomplishes pressing and remains in the lower position.



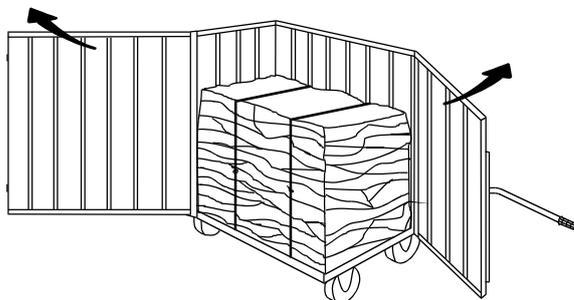
5. Both protruding ends of the ribbon should be connected by a clamp or knot and tightened.



6. The ram is moved upwards (activate the push-button for upward motion of the ram).



## 5.7. Taking out the pack from the container



1. Push the container out from the press.
2. Release the container lever, open both adjacent walls of the container and take the pack out.

In case of pressing wastes of small size when there exists a danger of releasing the wastes from the pack after pressing, it is recommended to use e.g. a cardboard on the container bottom. In the press EKOSACK 50 a plastic bag is used in such case.

## 6. MAINTENANCE

	<p><b>If the press cover or any of its part is dismantled for the purposes of maintenance it is necessary, before reusing, to put the press into the original state.</b></p>
---	--

The baling press requires regular maintenance. Sticking to this requirement will result in a dramatically extended service life of the machine.

Survey of maintenance actions

Action	Daily maintenance	Small maintenance (after 200 h)	Large maintenance (after 1000 h)
Cleaning the machine	■	■	■
Lubricating the driving chain		■	■
Lubricating the ram bolts		■	■
Lubricating the container hinges		■	■
Checking the chain tightness		■	■
Checking the limit switches			■
Tightening the bolts			■
Checking the bolts and nuts of the drive for wear			■

Small maintenance - after each 200 working hours or once in 2 months

Large maintenance - after each 1000 working hours or once a year

Usual types of vaseline can be used for lubricating.

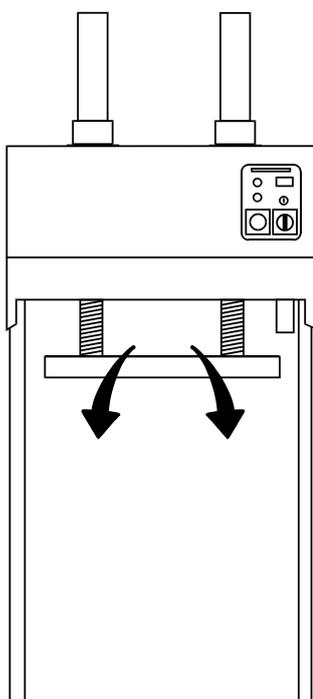
Checking the bolts and nuts of the drive for wear - maximum play of the bolt in the nut in the direction of the bolt axis can be 1 mm.

## 6.1. CLEANING THE MACHINE

Rests of wastes should be removed from the ram and the press working space in regular intervals.

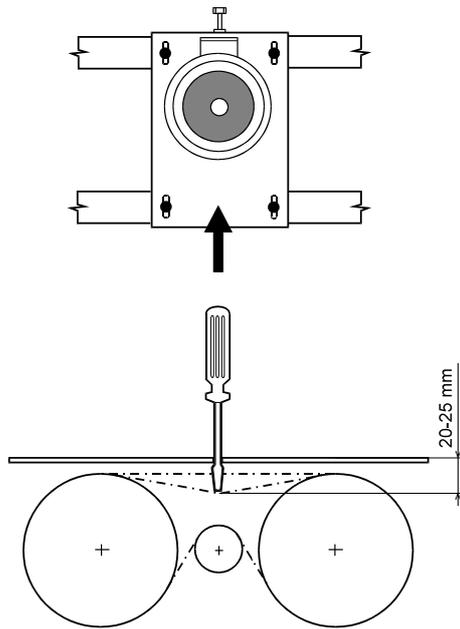
The machine surface and the container can be washed with water containing usual detergents.

## 6.2. REMOVING WASTES FROM THE RAM UPPER SIDE



1. Pull the container out of the press.
2. Block a strip of the limit switch which watches the container presence in the press.
3. Use e.g. a binding hook for blocking the switch.  
**Never block the switch by hand.**
4. Activate the push-button of pressing.
5. Let the ram go down by about 200 mm.
6. Turn off the machine with the mains switch (switch in the position "0")
7. Remove rests of wastes from the ram top side.
8. Turn on the machine with the mains switch and activate the push-button for moving the ram upwards. The ram returns back to its initial position.

### 6.3. TIGHTENING THE CHAIN



1. Dismantle the press cover.
2. Tightening of the chain is checked with a screwdriver through a hole under the tightening bolt of the motor plate (see the picture).

**In case that tightening does not correspond to the given tolerance proceed according to the following procedure:**

3. Loosen the bolt holding the motor in position in the press frame.
4. Slide the motor on the structure by means of the tightening bolt until the chain is tightened.
5. Check tightening by means of a screwdriver.
6. Tighten the motor bolts.
7. **In case the chain cannot be tightened (the motor is slid out to the limit position) it is necessary to replace the chain.**

## 7. SAFETY INSTRUCTIONS

	<p>This symbol means <b>WARNING, DANGER</b> or <b>SAFETY INSTRUCTIONS</b></p> <p>Read the text, get to know and understand it as it concerns safety. Follow carefully the instructions so as to prevent accidents.</p>
---	--

Read these instructions before starting working with the press.

	<p>In principle, the machine is operated by <b>ONE PERSON</b>. Except for the operator, no other person may approach the machine during the working cycle.</p> <p>The baling press may only be operated by an <b>APPOINTED</b> worker who has been <b>FAMILIARIZED</b> in a demonstrable manner with these instructions for use and these safety instructions.</p> <p>The operator <b>MUST NOT</b> in any way intervene with the structure and electric installation of the machine.</p> <p>Before starting the work, the operator is <b>OBLIGED</b> to check overall conditions of the machine and correct function of respective parts of the machine. In particular, this relates to non-damaged electric cables.</p> <p>For reducing physical effort during handling the pressed packs, the operator should use mechanical lifting devices which have been provided by the employer for this purpose.</p> <p>If, in manual handling, the character of the pressed waste can bring about an injury to hands or other parts of the operator's body, the <b>OPERATOR SHOULD USE</b> means of personal protection which the machine user should provide for this purpose.</p>
---	---

	<p>The press <b>MUST NOT BE USED</b> if safety functions have been impaired, i.g. by dismantling the press cover or blocking the limit switch.</p> <p>Materials of <b>EXPLOSIVE</b> character, such as cans with rests of ethereal liquids or other materials which could cause damage or explosion, <b>MUST NOT</b> be pressed in the press EKOPACK 50 – EKOSACK 50.</p>
---	---

## 8. SAFETY DEVICES

The operator is protected by the following devices:

**EMERGENCY SWITCH** for a quick stopping of the machine. The switch is mechanically locked in the pressed position and is installed within reach of the operator on the control panel. After returning the emergency switch back into the initial position, the machine does not go on working until a required cycle is started by the push-button.

**MAINS SWITCH** is secured with a lock to prevent unauthorized operation of the machine.

**ROTATING PARTS** of the gear parts are located inside the machine structure.

The press is equipped with a **COVERING BATTEN** which, after sliding the container into the press, matches into the gap between the press structure and the upper edge of the container so that it closes the dangerous space.

The press is equipped with the **LIMIT SWITCH** which blocks the press until the container is inserted into it.

## 9. FIRE-FIGHTING INSTRUCTIONS

To provide for fire safety in using the baling press, the user should equip the press working site with particular fire-fighting means. Their designating and location should be discussed with and approved by experts for fire protection and supervision, in particular with respect to character of the pressed material.

Location of extinguishers and their choice will be specified by the fire technician of the user according to local conditions.

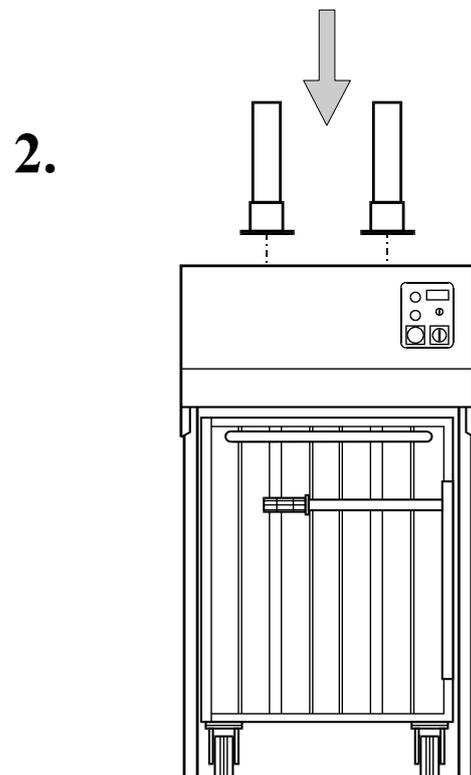
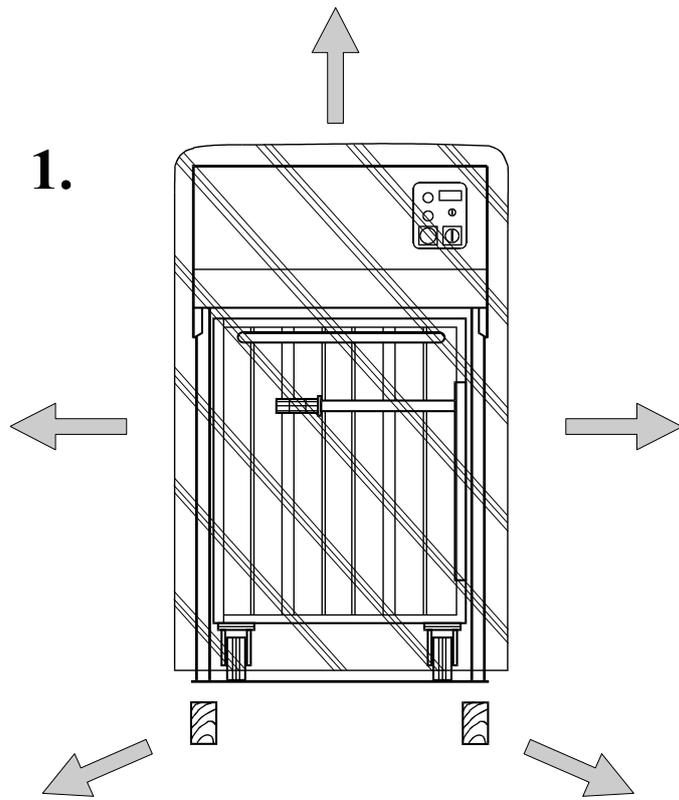
### **Interactions for the machine operator:**

In case of a fire accident of the press, the operator should first disconnect the electric mains supply by pulling out the plug from the socket, by turning-off the mains switch, etc.

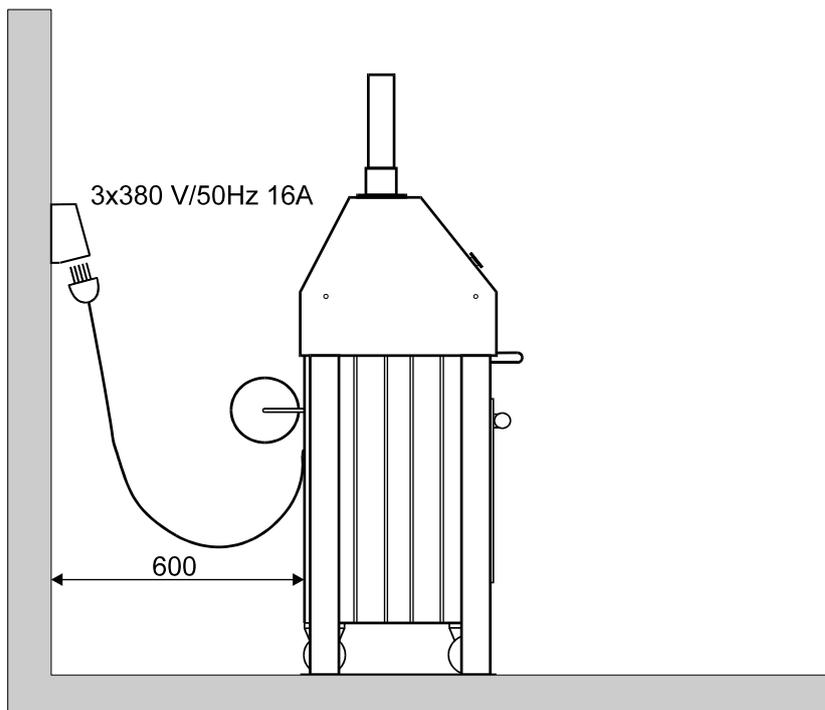
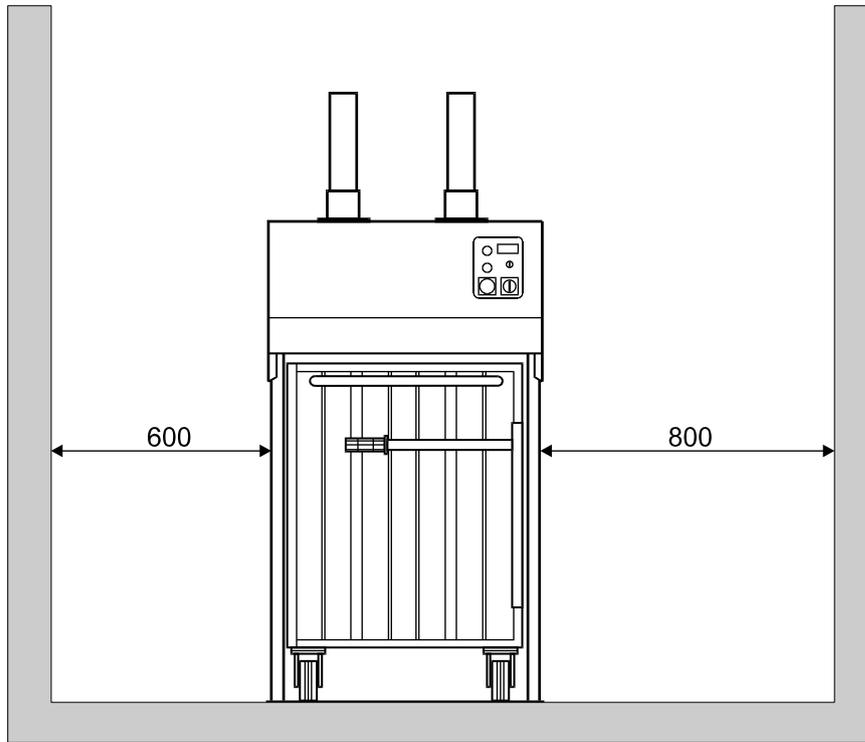
The fire can only be extinguished by extinguishers intended for this purpose.

No water extinguishers may be used in fire fighting.

# 10. INSTALLATION



3.



# 11. TRANSPORT

