EHA Hoffmann International GmbH

Operating Instructions *EHA* - Embossing Press 50-75 Professional

Machine number: Model year:

The side shelfs are optional and are not included in the Standard scope of delivery.

EHA **Hoffmann International GmbH**
Michelsbergstraße 24
D-57080 Siegen
Telephone: +49 271 39 32 – 0
Telefax: +49 271 39 03 37
E-mail: info@eha-group.com

EHA Hoffmann International GmbH

Operating instructions EHA Embossing Press 50-75 Professional

400 Volt (optional 230 Volt)

EHA Hoffmann International GmbH
Michelsbergstraße 24
D-57080 Siegen
Telephone: +49 271 39 32 – 0
Telefax: +49 271 39 03 37
E-mail: info@eha-group.com

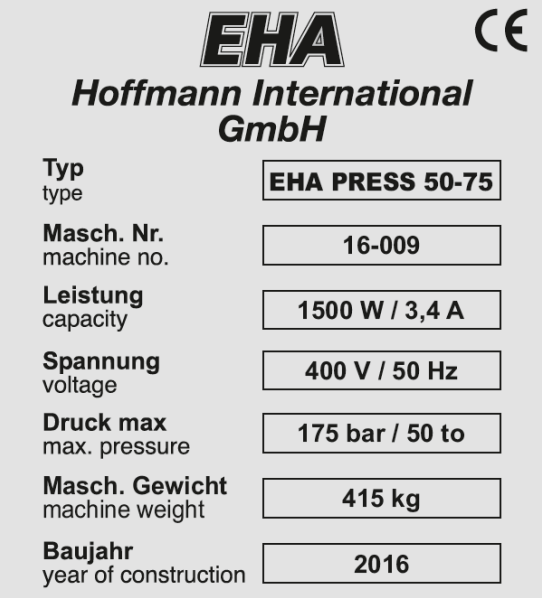
Table of contents

1 Description

The *EHA* Embossing Press 50-75 Professional uses hydraulic pressure to perform high-quality embossing.

It is used exclusively to emboss designated vehicle license plates.

Identification
The machine has a name plate. An example of the name plate is shown on this page. The name plate is attached to the side of the machine.



1.1 Introduction

Purpose

These instructions refer to the *EHA* Embossing Press 50-75 Professional. They contain information that is important and useful for the good working order of the machine. In addition, they contain important instructions to prevent accidents and serious damage before and during operation of the machine, and they enable the safest and smoothest operation of the machine. Read these instructions carefully before putting the machine into operation. Familiarise yourself thoroughly with how the machine works, and adhere to the instructions outlined in this document.

Please contact *EHA* Hoffmann International GmbH if you have questions or need detailed information on particular aspects of the machine.

Liability

The data provided in this manual are based on the most recent information at the time the manual was compiled. These data may change in future.

We reserve the right to make alterations to the engineering and/or design of our products without this constituting an obligation to make corresponding alterations to machines delivered earlier.

Warranty

We offer a warranty for this machine as stated in our terms of delivery.

Any of the following circumstances will void your warrant completely:

- Servicing and maintenance are not performed according to our instructions. Repairs are conducted by unauthorised persons or without our consent.
- The machinery is modified without our prior consent.
- Original spare parts are not used.
- The machinery is used improperly, negligently, under conditions for which it was not designed or for purposes for which it was not designed.

The warranty does not cover expendable parts.

Safety

Familiarise yourself with the pictograms (refer to Section 2: Safety).

The machinery is fitted with safety and protective devices. You must nevertheless exercise caution when operating the machine. Warning pictograms in the individual sections indicate potential hazards. You will find these pictograms adjacent to the text passages that refer to the hazardous work.

Work safely!

EHA Hoffmann International GmbH has made every conceivable effort to provide you with accurate and complete information regarding the hazards that may occur when operating the machine. You must ensure, and are responsible for, adherence to these behavioural instructions.

The buyer/operator is obliged to familiarise the operating/cleaning and maintenance staff with the content of these instructions. After induction by the seller/supplier, the buyer is responsible for instructing any new operating staff.

Check the delivery upon receipt for the following:

- Parts that were damaged and/or went missing during transport. Make sure that the freight carrier immediately prepares a transport damage report on your premises.
- Accuracy and completeness: were all parts delivered?

Always contact ***EHA*** Hoffmann International GmbH in case of damage

1.2 Technical data ***EHA*** Embossing Press 50-75 Professional

Dimensions/weight:

Machine	
Length	830 mm (32.7")
Height	1100 mm (43.3")
Width	740 mm (29.1")
Net weight	415 kg

Shelf attachment	
Length	160 mm (6.3")
Height	800 mm (31.5")
Width	735 mm (28.9")
Net weight	27 kg

Additional side shelfs left and/or right (optional)	
Length	160 mm (6.3")
Height	800 mm (31.5")
Width	510 mm (20.1")
Net weight	21 kg

Power supply

Operating voltage	400 volts
Control voltage	230 volts
Rated current	3.4 amperes

Impression cylinder:

Closing force	100Nm

Operating speed:

Lifting speed	≤ 10 mm/sec.

2 Safety

2.1 Duties of the operator

The operator undertakes to allow only such persons to operate the machine as are familiar with the fundamental requirements of occupational health and safety, are instructed in the operation of the machine, and have read, understood and confirmed with their signatures the section on safety and the warning instructions. Regular inspections will be conducted to ensure that the persons operating the machine uphold the principles of occupational health and safety.

2.2 Duties of the staff

Before the start of work, all persons entrusted with operation of the machine undertake to adhere to the fundamental requirements of occupational health and safety, to read the section on safety and the warning instructions, and to confirm with their signatures that they have understood its contents.

2.3 Safety instructions for the operator

Operators must refrain from any work that would compromise the safety of the machine:

- On no accounts may any safety devices be dismantled or deactivated.
- The starting and stopping procedures defined in these operating instructions must be observed in operations, maintenance and cleaning of the machine.
- Moving parts (behind the protective panelling) must not be touched. There is otherwise the risk of physical injury (crushing).
- The machine must be shut down if unusual noises or vibrations occur.
- Never leave tools or other objects lying inside the protective panelling. Foreign items can cause severe damage to the machine when it is in operation.
- Do not load the embossing table on one side only. An unbalanced load can cause jamming of the impression cylinder.

Functional test
Every day before using the machine, the operating staff must conduct a mechanical and visual check of the safety devices to ensure they are in good working order.
Any defects must be reported to the supervisor immediately.

2.4 Information on particular risks

Cleaning
Before cleaning the machine, the 'Immediate Stop Button' must be pressed to shut down the entire electrical system, and the pressure system must be depressurised. The system is depressurised once the return springs have drawn the moving pressure plate downward and the pump motor is switched off.

Electrical system
Before maintenance and servicing, the entire electrical must be shut down by pressing the 'Immediate Stop Button' and by disconnecting the mains plug.

2.5 Safety regulations for maintenance

Maintenance must only be performed by suitably instructed persons. Maintenance and servicing – especially inside the protective devices – must only be performed once the machine has been shut down and the mains plug disconnected.

The machine must be depressurised before the start of repairs.
Repair and cleaning work must on all accounts be performed only when the pump motor is switched off and the 'Immediate Stop Button' has been pressed.

Electrical system
Before maintenance and servicing, the entire electrical system must always be shut down by disconnecting the mains plug.
Warning signs must be put up to inform other persons that the machine must not be switched back on while work is ongoing.

2.6 Safety devices and their functions

The safety of the machine's mechanical and electrical systems has been checked. The safety of the machine satisfies the current safety regulations. The machine is equipped with protective panelling and an 'Immediate Stop Button' in order to guarantee a high level of safety.

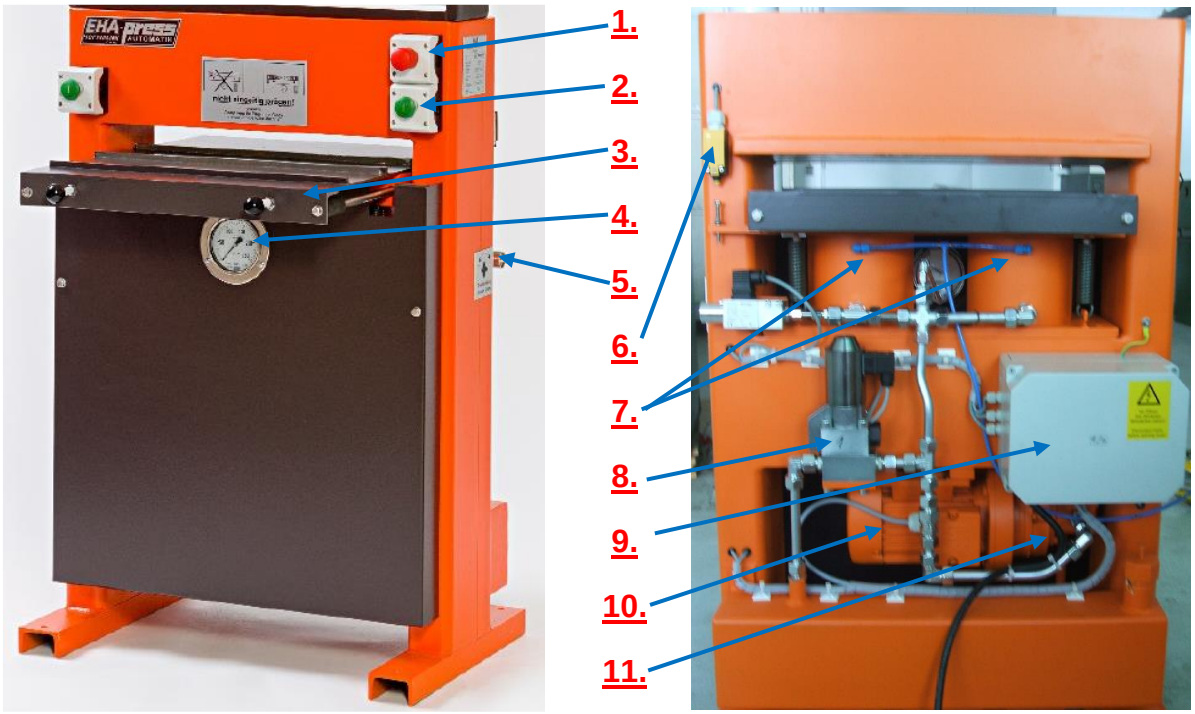
The 'Immediate Stop Button' function
Pressing this button interrupts the control current circuit and the electric circuit supplying the hydraulic pump. It therefore shuts down the functions controlled by electricity and automatically causes the embossing table to rise.

Other safety functions:

A 2-hand safety control.
Lifting speed of ≤ 10 mm/sec.
Depression of the two start buttons until embossing is complete
The machine can be opened without electricity if there is an error in the start signal

3 Machine description

3.1 Description of the main components



1. Immediate Stop Button
2. Simultaneous 2-hand control
3. Embossing table
4. Pressure indicator
5. Adjustable pressure switch
6. Safety end switch
7. Impression cylinder
8. Solenoid valve
9. Switch box
10. Motor
11. Pump

4 Transport

- Consider the weight of the machine when lifting.
- Only use lifting devices that can safely carry the weight of the machine.

5 Installation

5.1 Ambient conditions

Installation must only be performed by qualified personnel.

Clearance
There must be sufficient space around the machine for installation purposes and to introduce and discharge the vehicle license plates in an orderly fashion.

5.2 Installation

Place the machine on the supplied textured coated board and position it on a level floor. Two rubber strips are placed beneath the feet of the press to provide cushioning. The two rubber strips are included with the scope of supply.

5.3 Connecting the power supply

The ***EHA*** Embossing Press 50-75 Professional is delivered with a 2.5 m cable, including a mains plug as specified in the name plate.

Only allow authorised personnel to conduct maintenance

Check that the voltage is within the necessary tolerance

The power supply cable must be properly connected (CE plug 400V, 16A, 5-pole).

6 General operation

6.1 Operating principle

Place the embossing tools on the embossing table as required. The blank vehicle license plate is placed between the embossing tools and then aligned.

It is particularly important to position the blank license plate correctly. The tooled embossing table can then be pushed in as far as the end stop once the visual check has been completed. The embossing process is started by two-hand simultaneous control once the end stop is reached. For safety reasons, the two start buttons must be kept depressed until the plate has been embossed. The embossing process is now complete. The embossing process can be repeated after a predefined delay. A pressure indicator showing the pressure setting is fitted to the front of the press. An adjustable pressure switch is located on the right-hand side of the machine; it has a 5 mm, angled hexagon key that is used to adjust the embossing pressure.
(The pressure table can be prepared to accommodate different plate sizes)

6.2 Controls

The operating and monitoring elements for an embossing procedure are accessed on the front of the machine's body.
The electrical switch box, labelled with a symbol, is located on the rear of the machine.

6.3 Starting

Unlock the 'Immediate Stop Button'
Insert the parts for embossing (blanks)
Push in the tooled embossing table
Start the process by pressing the 2-hand simultaneous controls

6.4 Stopping

Press in the Immediate Stop Button

6.5 Starting after Immediate Stop

Recognise and rectify the reasons for the immediate stop.
Unlock the 'Immediate Stop Button'.
Check for any damage and conduct a function test before putting the machine back into operation.

7 Maintenance

7.1 Cleaning by the operators

General cleaning instructions
The machine must be cleaned at the end of production if necessary. It may also be necessary to clean the machine in shorter intervals if a visual check by the operating staff reveals substantial soiling.

A dry cloth should be used as the preferred method of cleaning the outer body and the embossing table. The Immediate Stop Button must be depressed. Clean the push bars on the embossing table using a cloth and apply silicon or oil spray once a month as required. On no accounts may the machine itself be sprayed using a high-pressure cleaner, as water will enter the bearing housings and rinse off the lubricants. In addition, the electrical components must not come into contact with water, as water is an electrical conductor. Rubber and plastic parts must on no accounts be treated with thinners or similar agents.

The manufacturer's safety instructions as stated in the respective sections of the operating instructions must be adhered to on all accounts.

7.2 Disposal

If no longer needed, the machine must not be disposed of as one unit. The system must be dismantled into individual parts. The individual parts must be recycled, depending on the type of machine. Unusable materials must be recycled according to the relevant regulations. Before dismantling, oil must be drained or pumped out of the system and taken to an authorised oil collection point for proper environmental disposal. Moreover, any hazardous substances must be treated in accordance with relevant waste management laws.
Your local government agencies can provide you with a list of disposal and collection facilities. The relevant national and regional laws and regulations must on all accounts be adhered to during disposal.

7.3 Annual inspection

The annual inspection must be conducted by a certified professional according to the Industrial Safety Regulation (BetrSichV), the applicable health and safety regulations and the valid regulations defined by the German Association for Electrical, Electronic + Information Technologies (VDE).