

## Hydraulic Embossing Press, Type "Basic"

Machine-No:

Year of Construction:



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**EHA**

Hoffmann International GmbH  
Michelsbergerstr. 24  
57080 Siegen

## 1.1 Technical Data

The technical data of the Hydraulic Embossing Press, Type “Basic” are:

### **Weight Embossing Press, Type “Basic” including table :**

Net weight 173 kg

### **Weight of Storage Shelf :**

Net weight 13 kg

### **Dimensions :**

#### **Embossing Press, Type “Basic” including table:**

Depth 685 mm

Width 685 mm

Height 1.134 mm

#### **Storage Shelf:**

Depth 685 mm

Width 685 mm

Height 670 mm

### **Power supply :**

Power supply 230V, 5,1A

Motor power: 0,7 kW

Pump capacity: 255 bar max

Embossing pressure: 35 T max

### **Other:**

Robust welded construction in combination with the latest embossing technology

Hydraulic 2-cylinder equalized pressure embossing technology

Low-noise hydraulic pump with 230 V electrical motor

Production speed: 3 seconds if using the original **EHA** embossing tools

## General notes

### On the content

These operating instructions contain the information required to operate and maintain the embossing press. They are supplied with every machine together with the delivery inspection protocols. The notes on safety, operation and servicing give the owner an insight into the handling of the machine and its dangers.

As the embossing press is installed at the place of operation and handed over to the owner in a ready-to-use state, notes on installation are not contained in these operating instructions.

### Warranty

All consequences of unauthorised conversions or changes are borne by the owner. This particularly applies to changes which impair the safety of the machine.

### General notes on safety

The embossing press has been tested for mechanical and electrical safety. It conforms to the applicable safety regulations.

The embossing speed is 10mm/sec.

The embossing press can nevertheless pose hazards if it is operated by untrained personnel or is deployed carelessly or for a purpose other than that intended. **The consequences of careless operation of the machine, in particular non-observance of safety instructions, include the following:**

- Risk of **physical injuries** or even **mortal danger**
- Hazards for the embossing press and the owner's assets,
- Operational breakdown of the embossing press and thus loss of production.

**Everyone concerned with commissioning, operating, cleaning and maintaining the embossing press must have read and understood the operating instructions – before starting work on the press – and particularly the chapter on safety.**



The owner's operating and maintenance personnel will be inducted after the installation work has been concluded by engineers from Hoffmann GmbH. The owner confirms the induction in writing on the enclosed commissioning protocol and is obliged to induct new operating and servicing personnel in the operation or maintenance of the embossing press to the same scope and with the same care.

## Safety-conscious work

Safety-conscious work on the embossing press is not ensured unless:

- The press is operated, serviced and maintained by trained and authorised personnel
- If operated by one than one person, the responsibilities must be clearly established and complied with to ensure that safety is not impaired by ambiguous responsibilities



**For reasons of safety, the owner is prohibited from making unauthorised changes or conversions to the embossing press.**

The user is obliged to only operate the embossing press in perfect condition. This requires that the press is serviced, cleaned and maintained according to instructions.

## Safety instructions for the operator

Notes on hazards in this manual are marked by a danger sign and printed in **bold**. These notes must be observed and complied with under all circumstances.

**Do not work in any way that could impair the safety of the machine:**

- **Safety equipment may not be dismantled or put out of action as a matter of principle.**
- **Observe the switch on/off procedures stipulated in these operating instructions for all work which concerns the operation, servicing, cleaning and maintenance of the embossing press.**

The operating personnel must inspect the proper functioning of the safety equipment on the press mechanically and optically each day before starting work on it.  
Any defects established must be reported to the supervisor without delay.

## Notes on specific dangers

### Cleaning

Before cleaning the embossing press, switch off the complete electrical system by actuating the "Immediate Stop Button" and pulling the plug from the power socket.

### Electrical system

Before starting servicing and maintenance work, switch off the complete electrical system by actuating the "Immediate Stop Button" and disconnect the plug from the power socket.

## Safety instructions for maintenance work

**Servicing and maintenance work may only be performed by persons who are authorised to do so. As a matter of principle, servicing and maintenance work, particularly that concerning protective fittings, may not be performed until the embossing press has been switched off and the power plug disconnected from the socket.**



## Electrical system

Before starting servicing and maintenance work, switch off the complete electrical system by actuating the "Immediate Stop Button" and disconnect the plug from the power socket.

Warning signs must be installed during work on the machine to alert other persons that the machine may not be switched on whilst the work is in progress.

## Safety equipment and its functions

The embossing press has been tested for mechanical and electrical safety. It conforms to the applicable safety regulations and is equipped with protective covers, a 1-hand safety control system and an **Immediate Stop Button** to ensure the highest level of safety.

### Immediate Stop Button

The embossing press has an **Immediate Stop Button** located at the front of the press. This enables the press to be brought to standstill in an emergency.

### Function of the Immediate Stop Button

When pressed, the button breaks the control power circuit and interrupts the hydraulic pump. This switches off the electrical control functions and stops the press from opening automatically.

### Further safety functions:

The stroke speed of 10mm/sec.

One start button for 1-handed operation until the completion of embossing.

Immediate mechanical opening of the press in case of an incorrect start signal

The embossing press cannot be operated until the **Immediate Stop Button** has been released.

## Conduct in case of an emergency

If danger threatens, press the **Immediate Stop Button**.  
(The embossing pressure plate is moved downwards at once and the press opens).

## Intended purpose

The embossing press is designed for the following work:

1. Manual insertion of various parts into the system
2. Manual embossing, starting the embossing process and removal of the parts.

## **Only this application is permitted (intended use).**

Any use beyond this is contrary to the intended purpose. The owner bears sole responsibility for the resulting damage.

The intended use also includes compliance with the operating, servicing, cleaning and maintenance instructions issued by Hoffmann GmbH.

## Principle of functioning

The blank to be embossed is laid between the embossing tools and aligned. Special attention must be paid to the correct positioning of the blank. Once you are convinced - sensory and optically - of this, the embossing plate with the blank can be quickly moved forward to the stop. Once the stop is reached, the embossing process can be started by means of the 1-handed control system. For reasons of safety, the start button must be kept depressed until the embossing force has been reached. The embossing process is then completed. The embossing process can be repeated after a set lock time. A pressure gauge and an adjustable pressure switch are located on the front of the press which allows the embossing force to be infinitely adjusted by means of a hand wheel. (Pressure table can be compiled in line with the size of the blanks).

## Operation

All operating and monitoring elements are accessible from the front of the embossing press.

The two electric switch boxes are situated at the rear of the machine. These are marked by a symbol.

## Start-up

Release the Immediate Stop Button  
Insert the blanks into the machine  
The embossing process can now be started.

## Shutdown

After completion of work, disconnect the power supply by pulling the plug from the socket. Likewise actuate the "Immediate Stop Button".

## Restart after Immediate Stop

Find and rectify the causes for the emergency switch off.  
Release the Immediate Stop Button.  
Before restart, make a visual inspection for any damage and check proper functioning.

## Daily cleaning

Disconnect the power plug from the socket before cleaning. A dry cloth is the best means. A visual check for any damaged parts is always recommendable.

## Disassembly and recycling

A machine that can no longer be used may not be disposed of as a single unit. The individual parts should be recycled in dependence on the type of material and in accordance with the prevailing local regulations.

**EHA**  
**Hoffmann International**  
**GmbH**  
**Michelsbergstraße 24, 57080 Siegen**

## **EG – Conformity Declaration**

**Acc. EG-Richtlinie Maschinen 98/37/EWG, Anhang II**

We hereby declare that as a result of the manner in which the machine designated below was designed, the type of construction and the machine which, as a result have been brought on to the general market comply with the relevant fundamental regulations of the EU Rules for Safety and Health.

If any alteration is made on this machine without prior agreement with us this declaration loses its validity.

Description of the machine: Press

Type of machine: Embossing Press, Type "Basic" for license plates

Machine no: ..... Year of construction:

Relevant EG-Rule: EG-Rule (98/37/EG I.d.F. 91/368/EWG)

Applicable conforming  
Standards, in particular: EN12100-1, EN12100-2, EN294 & EN349

Applicable national  
Standards and technical  
Specifications,  
in particular: UVV und VDE0100

EN292-1 EN 292-2 EN60204

Date/Signature of Manufacturer:



## Electrical Acceptance Certificate

Hydraulic Embossing Press Type: "Basic"  
Machine No.:

### 9.0 Electrical Inspection according to VDE 0113

#### 9.1 Measurement of insulation resistance

Machine body – Main circuits	$\geq 1 \text{ M Ohm}$	<u>is</u> OK
Machine body – Auxiliary circuits	$\geq 1 \text{ M Ohm}$	is OK

#### 9.2 Voltage Test

Machine without control transformer	<u>is</u> YES
Machine body main and control circuit	is OK
Test voltage <u>1000</u> Volt	

#### 9.3 Resistance value in the protective conductor current path

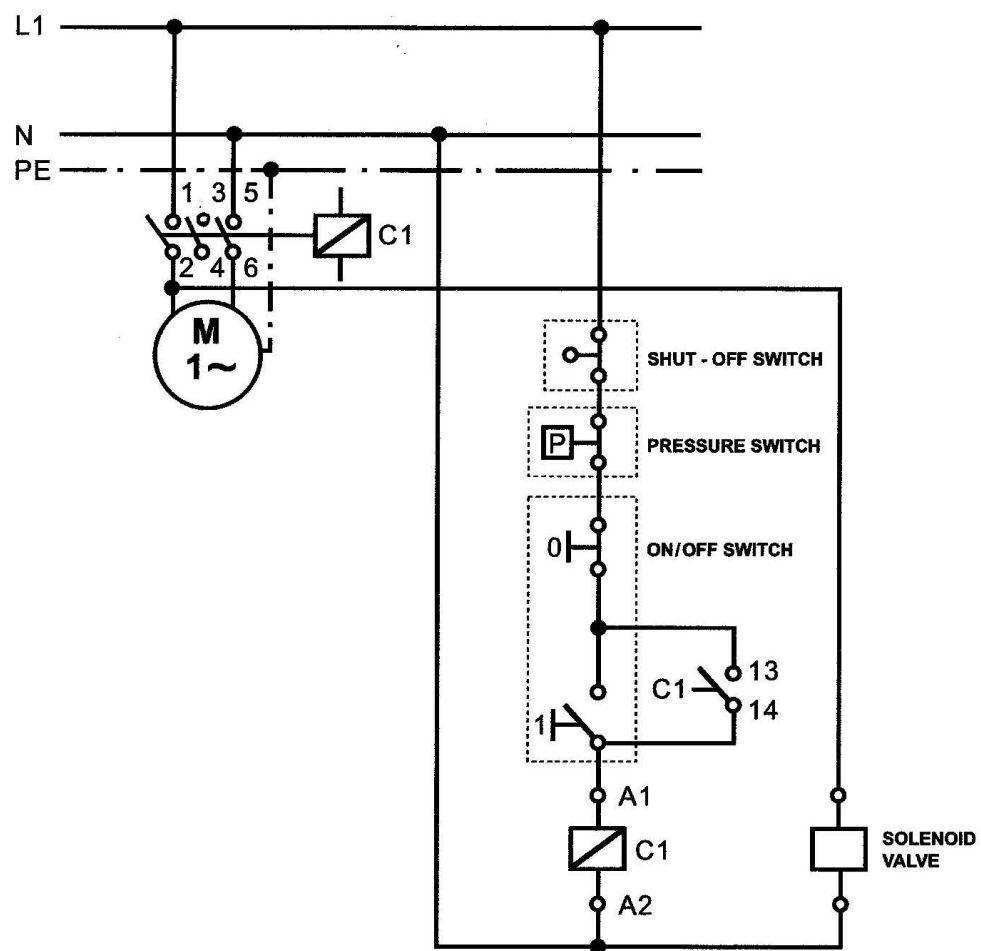
Protective conductor connection	$\leq 0.1 \text{ Ohm}$	<u>is</u> OK
Machine body	$\leq 0.1 \text{ Ohm}$	is OK

Design: 2007                      Control Voltage: 230 V

Date:                                  Assembly technician:

Date:                                  Inspector:

## WIRING DIAGRAM for EHA EMBOSSING MACHINES 50/70 to 1 ~ 220V / N / PE



## **EHA Risk Analysis („What-if-Method“)**

Machine: EHA – Embossing Press, Type “Basic”

Type of Machine: “Basic” Machine Nr.: \_\_\_\_\_  
 Customer: \_\_\_\_\_ Place of location: \_\_\_\_\_  
 Delivery date: \_\_\_\_\_ Year of construction: \_\_\_\_\_  
 Kom./Best.-Nr.: \_\_\_\_\_ Coating: \_\_\_\_\_  
 Control: \_\_\_\_\_ Cabinet Nr.: \_\_\_\_\_  
 Wiring diagram No.: \_\_\_\_\_  
 Operation Voltage: 230 Volt Current rating: \_\_\_\_\_  
 Control Voltage: 230 Volt Fuse protection: \_\_\_\_\_

<b>Machine gr.</b>	<b>Activity/Situation</b>	<b>Danger</b>	<b>Safety measure</b>
Embossing table	to put in tool + plate	no	not applicable
Embossing table	to insert	no	not applicable
Embossing table	to emboss	Risk of crushing	1-Hand-Operation (max. 1 Person)
Embossing table	to sink	Risk of crushing	tamporally not possible
Embossing table	to pull back	no	not applicable
Embossing table	to take off the plate	no	not applicable
Electrical Installation	230 V Voltage supply	electrical flow	Measurement according to EN60204 Usage of shock-proof components
Impression cylinder	Pressure built-up Pressure reduction	Risk of crushing	Cylinder goes after ending down into „0-Position“ Beendigung nach unten, in „0-Stellung“ closing force 100 Nm
Hydraulik pump	Pressure falls down	no	Embossing table is sinking