



DIGITAL MUG PRESS

(2 HEATER BANDS)

PART 70-1500



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1 Introduction

This instruction manual was developed for the operator who will handle installation, operation, maintenance, and servicing of the mug press. An undisturbed operation can only be guaranteed when all the listed points were contemplated. Machine dangers may occur due to non-observance, especially in the chapter safety.

It is necessary that the instruction manual will be available at any time at the location of the machine. For operational failure, which can occur due to non-observance of this instruction manual, no liability will be assumed. Technical changes, which will serve for further development and improvement of the mug press, are reserved for ourselves.

2 Safety

The operator of the mug press has to make sure that every person, which is assigned to the installation, operation, maintenance, and the servicing of the machine, has to read and follow the instruction manual, especially the chapter safety.

2.1 Applied Security Symbols



This symbol you can find in particular on important safety advices in this instruction manual. It is necessary to consider these advices. Non-observance can lead to injuries of the user.

2.2 Intended Use



This machine can be a risk when improperly used, or when used for a non-intended use. The mug press may only be used for printing on heat-resistant material. Every exceeding use is seen as not intended. Damages resulting from these are excluded from manufacturer's liability. Unauthorized rebuilding or reconstructions, which influence the safety and the function of the machine, other than that described in these operating instructions is prohibited.

2.3 Sources of Danger



During all operations with the mug press in which any protective devices, like for example the covering plate has to be removed, the electrical power supply has to be disconnected earlier to use. The electrical power supply has to be secured to prevent unintentional restarts. Remove covering plates only when cooled down to room temperature.

2.4 Advice of other Residual Risks

To ensure safe operations of the mug press, the operator has to make sure that non-authorized people neither work on the machine, nor set the machine into operation or perform any other operations on the machine.

2.5 Safety Advice for the Operator

All operations on the mug press can only be accomplished by specialised staff who gained an appropriate instruction or training. General legal and other binding regulations for accident prevention and environmental protection are to be considered in addition to this instructional manual.

3 Configuration and Operation

3.1 Machine Configuration



Picture 1: set up mug press

Pos.	Description
1	Handle to open or close mug press
2	Time/Temperature Control
3	On/Off switch and the electrical connection (230V)
4	Screw to calibrate the printing pressure of the heat element
5	Heat element (Attention: Hot when in use!)
6	Connection of the heat element to the control unit

3.2 Description of the Operation

The mug press is intended to imprint round print substrates like mugs. The print substrates to be printed, needs to be pressure and heat resistant. Print substrates and artwork are to be placed into the heat element by following the closing of the press.

3.3 Operating Conditions

The mug press can only be used in dry rooms and can not be exposed to any splashing water under any circumstances.

Surrounding temperature: between 10 °C (50 °F) and 50 °C (122 °F)

3.4 Technical Data

Dimensions (L x W x H)	29 x 35 x 14 cm
Printing Surface	Variable - depends on heating element
Weight	7 kg (15.5 lb)
Operational Voltage	230 V
Maximum Power Input	2.0 A
Maximum Heating Power	350 W

4 Commissioning

4.1 Control Check of Delivery

The mug press will be delivered completely installed and ready for operations. Yet – before commissioning - these following points have to be checked:

- completeness
- transport damage
- correct electrical voltage value
- classification

4.2 Scope of Supply

1 mug press MPR-1
1 power cord
2 heat elements (1 x Ø 72mm, 1x Ø 80mm)

4.3 Transport and Installation



Please make sure there are no flammable or heat sensitive items or materials are located in immediate proximity of the mug press.

4.4 Power Connection

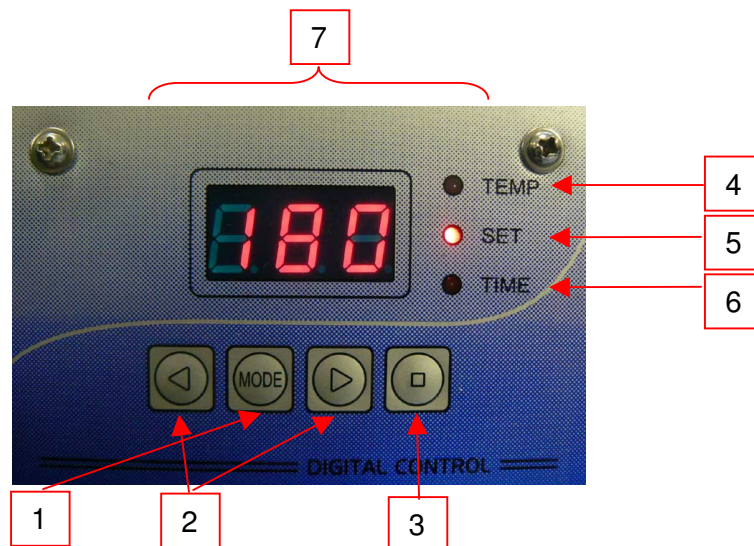
Connect the mug press with the provided power cord to a 230 V power outlet.

5. Calibrations and Print Operations



During the printing and especially in the beginning of the print, the operator of the mug press has to ensure that no additional people are in vicinity of the mug press.

5.1 Calibrations on the Time/Temperature Control



Picture 4: Time/Temperature Control

Pos.	Description
1	Button "Mode"
2	Arrow buttons
3	Start / Stop button
4	Light-emitting diode "Temp"
5	Light-emitting diode "Set"
6	Light-emitting diode "Time"
7	Display "Temperature and Time"

5.1.1 Temperature Calibration

- Start Press
- Push button “MODE” (Diode “Set” will light up)
With the arrow buttons the temperature can be calibrated
- Push button “MODE” again
With the arrow buttons the moulding temperature can be adjusted
- Push button “MODE” again
Moulding time can be adjusted (the moulding time starts after the mug has achieved the adjusted moulding temperature)
- With a further push on “MODE” the adjustment can be saved

5.2 Moulding Print Settings of the Heat Element



Use the hexagon screw to adjust the printing pressure. Turn the hexagon screw in clockwise direction to reduce the heat element pressure onto the mug, or turn in anticlockwise direction to increase it.

The surface pressure of the heat element should not be too strong to prevent the impairment of serviceability durableness.

5.3 Heat Element Replacement



To replace the heat element, unplug the sleeve from the receiver sidewise.

Look out for placing the correct insertion, and screw the connection to the control unit.

5.4 Print

Process:

- start press
- set on standby – let temperature heat up
- insert mug and close lever
- push right wing button (square) > Start
- after the moulding time is over, a signal tone will occur
- push right wing button (square) > Stop
- open lever and remove mug

- insert the next mug and repeat procedure

- setting changes chapter 5.1.1



Empirical values:	Standby-Temperature:	180°C
	Press Temperature:	185°C
	Printing Time:	90 – 150 seconds

Place the substrate together with the artwork into the heat element. Make sure that the artwork is completely covered by the heat element. Close the mug press until the lever is noticeable closed. The fixed standby temperature runs down first, and then heats up again onto the fixed moulding temperature. After the processed print time, a signal tone will sound. Open the mug press and remove the substrate carefully.



Look out not to touch the heat element while the press is open, otherwise burnings and injuries may occur. Also the covering of the heat element can be hot after long operation duration. Never close the heat element without a mug in the sleeve, otherwise foldings in the sleeve may form.



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