



iPress-1A

Auto Metallographic Mounting Press

Instruction Manual



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1.Application

iPress-1A metallographic sample automatic mounting machine is a multi-functional water-cooled inlaying machine for inlaying various samples. Mounting for small and difficult to handle or irregular workpieces. After inlaying, it is convenient to grind and polish the workpiece, and it is also beneficial for users to observe the structure of the material more conveniently under the metallographic microscope.

The machine can automatically heat and pressurize. After pressing and forming, it will automatically cool down and stop. Open the upper cover and press the up button to automatically raise the sample, and you can take the piece.

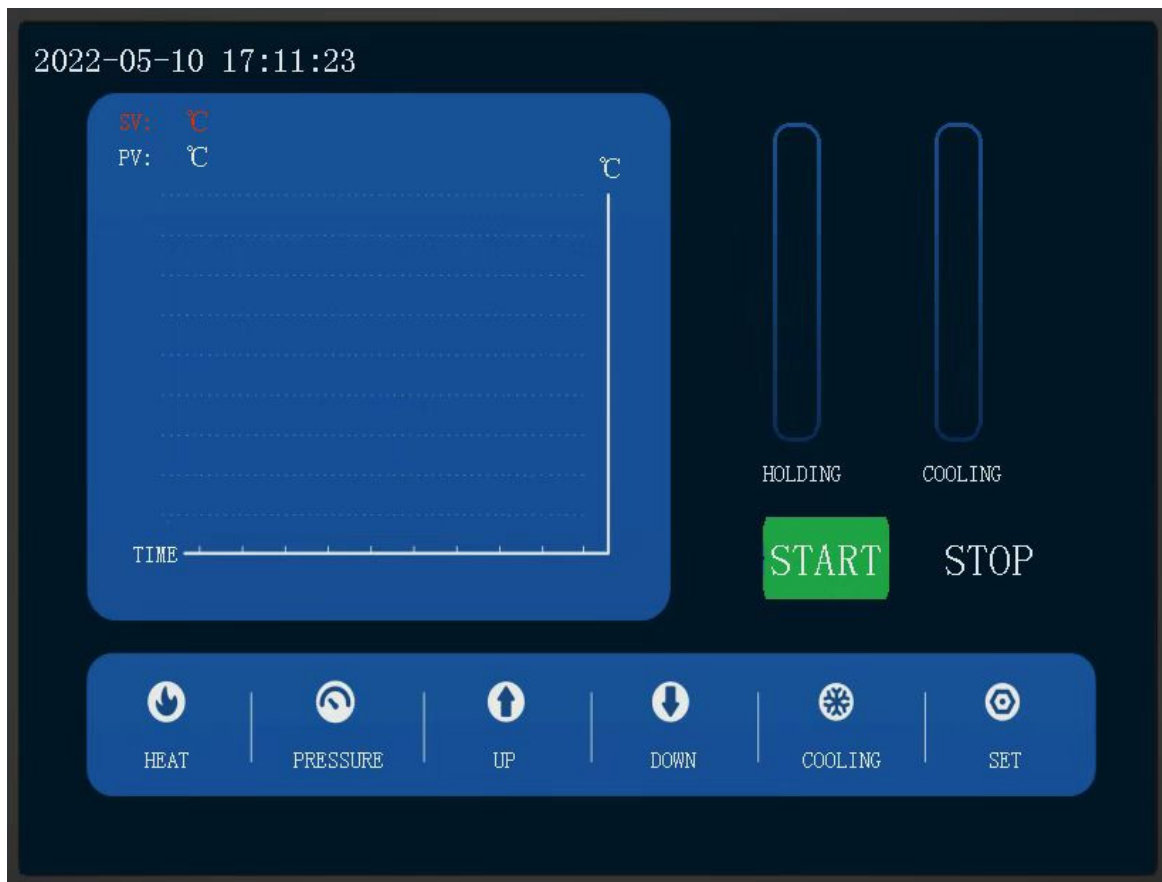
Note: Only for thermosetting materials (such as bakelite), the temperature has been adjusted/self-controlled.

2.The Main Technical Parameters

Specimen pressing specifications	φ22mm、 φ30mm、 φ45mm(choose one)
Heater Power	220V , 700W
Total power	970W
Dimensions	380×350×420mm
Net weight	50Kg

3. Structure Overview And Function

1.Board layout(As shown below)



4. Instructions

1.Setting button: Click the screen setting button, the screen will pop up the setting interface, you can set parameters such as language selection, and set ten groups of parameter settings for extraction. The setting screen is as follows:

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2.Rotate the emergency stop switch clockwise to make the emergency stop switch in the open state, turn the main power switch, wait for the machine to self-check and protect, the touch screen will turn on, and it will enter the power-on standby state.

3.The up and down buttons can be operated in the manual state, and the start and stop buttons will perform automatic operation and stop functions. The four buttons outside the screen rise and fall, start and stop, and have the same functions as the touch screen buttons.

Instructions for automatic operation:

1.Put in the test sample and inlay material, screw the top cover, press the start button, the system will enter the automatic working state, heating and pressurization will work at the same time.

2.When the mold cavity reaches the required pressure, the pressure indicator will light up, and the rising delay will stop after a few seconds. When the mold cavity reaches the set

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temperature, the heating will stop and the heating indicator will go out.

3.When the heating reaches the set value, it will enter the state of heat preservation and pressure preservation. After the set time is reached, the system will automatically enter the state of cooling and solidification, and the corresponding cooling indicator light will be on.

4.When the set cooling time is reached, the buzzer will sound and the cooling light will turn off at the same time. The system automatically enters the safe and energy-saving standby state. Sample preparation is complete.

5.The equipment opens the mold manually, press the down button to lower the lower mold, unscrew the upper mold cover assembly, press the equipment up button to eject the sample from the mold cavity. When the top dead center is reached, it will automatically stop, and the entire sample preparation work will end.

Note:

(1)In the automatic running mode, pressing the up or down key cannot run this action; when starting the automatic running program, when the stop key or emergency stop button is pressed, the system will interrupt the current sample preparation procedure and stop the sample preparation.

(2)The cooling time cannot be less than 5 minutes.

(3)Must be well grounded.

5.Maintenanc

- 1.After each use, the residue on the piston must be cleaned up in time, and the cleaning and maintenance work must be done well. It is strictly forbidden to use corrosive liquids for cleaning. After cleaning, the inner cavity of the steel mold sleeve and the upper and lower molds should be coated with anti-rust oil. , to prevent rust and stuck.
- 2.For the rotation of the screw, spline sleeve, bevel gear, etc., the moving parts must be lubricated regularly to avoid jamming and heavy load during operation, which may damage the parts.
- 3.After long-term use, the grease of the bearing should be replaced in time.
- 4.This equipment is a precision instrument, and it is forbidden to forcibly knock on hard objects to cause scars on the cylinder liner or piston.

6.Packing List

Name	Unit
Automatic Mounting Press	1 Set
Product Manual	1 Sheet
Product Certification	1 Sheet
Thermocouple	1 Pc
Packing List	1 Sheet
Water Inlet Pipe	1 Pc
Drain Pipe	1 Pc
Filter	1 Pc
Pipe Hoop	2 Pcs

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