

Mikrosize®

iPress-1M Manual Metallographic Mounting Press



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Product Features and Application

Product Features

- It can be used for metallographic and petrographic specimens, easy for grinding and polishing;
- Suitable for small, difficult to hold or irregular specimens;
- Unique working principle;
- Inlay materials are limited to thermosetting materials, and the heating temperature can be adjusted according to the material;
- Various specimen pressing specifications: There are three specifications of $\Phi 22$, $\Phi 30$, and $\Phi 45$ mm (one standard configuration, select when ordering);
- Temperature control range 0 - 300°C, timing range 0 - 30min;
- The operation panel is rich in functions, including temperature controller and timer.

Product Application

- Material science:

Material samples can be made into specimens of standard size for mechanical property testing, microstructure observation and other experiments.

- Metallurgy industry:

In the production and use of metal materials, metal samples can be made into specimens suitable for microscopic observation, and metallographic analysis, scanning electron microscope observation and other experiments can be carried out to analyze the material's organizational structure, component distribution, etc.

- Geology and mineral resources:

Mineral samples can be made into specimens suitable for microscopic observation, and used for mineralogical research, ore deposit research, etc., to identify and evaluate ores and minerals during the exploration and development of mineral resources.



Instrument Appearance



Machine on the Front

- | | | | |
|-------------------|---------------------|-----------------------|---------------------------|
| 1. Octagonal knob | 2. Upper mold cover | 3. Handwheel | 4. Temperature controller |
| 5. Timer | 6. Insurance | 7. Pressure indicator | 8. Power switch |



Knob

- | | | |
|----------------------------------|------------------------------|--------------------|
| 1. Display of present value (PV) | 2. Display of set value (SV) | 3. Indicator light |
|----------------------------------|------------------------------|--------------------|
4. Setting button: Press SET button, the digit of SV display will flash, and the remaining two buttons can be used to modify. Press SET button to confirm and return to normal display; if no button is pressed for more than 20 seconds, it will automatically return to normal display. Press SET button for more than 5 seconds to enter parameter setting, and automatically exit after the operation process is completed.
- | | |
|-----------------------|---------------------|
| 5. Subtraction button | 6. Addition button: |
|-----------------------|---------------------|
7. Shift button: In the parameter setting state, the fast shift of the set value makes parameter setting convenient and easy.

Product Details



The Top of Machine



Details on the Top

The upper mold cover can be opened by cooperating with the hand wheel and the octagonal knob on the top, and the sample to be mounted and the mounting powder can be placed in. Then, the octagonal knob and the hand wheel are used to press the sample, and the hand wheel is turned to lower the sample to the appropriate position. The equipment starts heating. After cooling, the hand wheel is shaken in the opposite direction to release the pressure, and the upper cover is opened. The hand wheel is shaken to take out the sample.



Handwheel


The lifting and lowering of the machine is controlled by the handwheel on the right. Turn the handwheel to the appropriate position and the equipment starts heating. The operation is simple and convenient. The handwheel is made of aluminum with a coating treatment on the surface, which is beautiful and durable.



Technical Specification

Product Name	Manual Metallographic Mounting Press
Model	iPress-1M
Mounting Diameter	Φ22、Φ30、Φ45mm (choose 1 in standard delivery)
Temperature Control Range	Room temperature 0-300℃
Timing Range	0-30min
Machine Power	≤600W
Machine Dimension	280*255*480mm
Input Voltage	220V 50Hz
Net Weight	32KG
Gross Weight	40KG

Standard Delivery

Name	Specification	Qty	Picture
Machine Mainframe	iPress-1M	1 set	
Mounting Power	100g	1 bottle	
Plastic Spoon	iPress-1M	1 pc	
Thermocouple	iPress-1M	1 pc	
Fuse	iPress-1M	1 pc	
Instruction Manual	iPress-1M	1 copy	
Product Certificate	iPress-1M	1 copy	
Warranty Card	iPress-1M	1 copy	