Mikrosize®

uPress-HA

Fully Automatic Metallographic Mounting Press

Contact us

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Feature and Application

Product Feature

- Upper mold requires no centering alignment, direct rotation with automatic centering.
- Supports mounting 2 samples (single station) or 4 samples (dual station) simultaneously.
- Equipped with 7-inch touch screen for operation and display.
- One-key start, automatically completes the subsequent sample preparation process.
- Built-in storage for 99 sets of mounting processes.
- Internal pre-pressing function to avoid sample deformation or crushing under pressure.
- Pre-pressing pressure, temperature and time are all adjustable.
- High-efficiency heating/cooling system with 2KW heater power.
- Mounting temperature adjustable range: 0~200°C.
- Water cooling design realizes rapid heat circulation; the shortest mounting time is 6min (φ 30mm sample).
- Pressure loading by electro-hydraulic system with stable and reliable pressure, pressure range: 0~30MPa.
- Simple and effective top sealing mechanism; no manual assistance required for sample ejection.
- Automatic stop when the equipment runs to the highest and lowest positions.
- Built-in USB interface; mounting process parameters can be imported and exported via U disk.
- Switchable Chinese/English display.
- Optional single-station and dual-station models.
- Compliance with standards: GB/T 13298, ASTM E3-11, ISO 20580.

Product Application

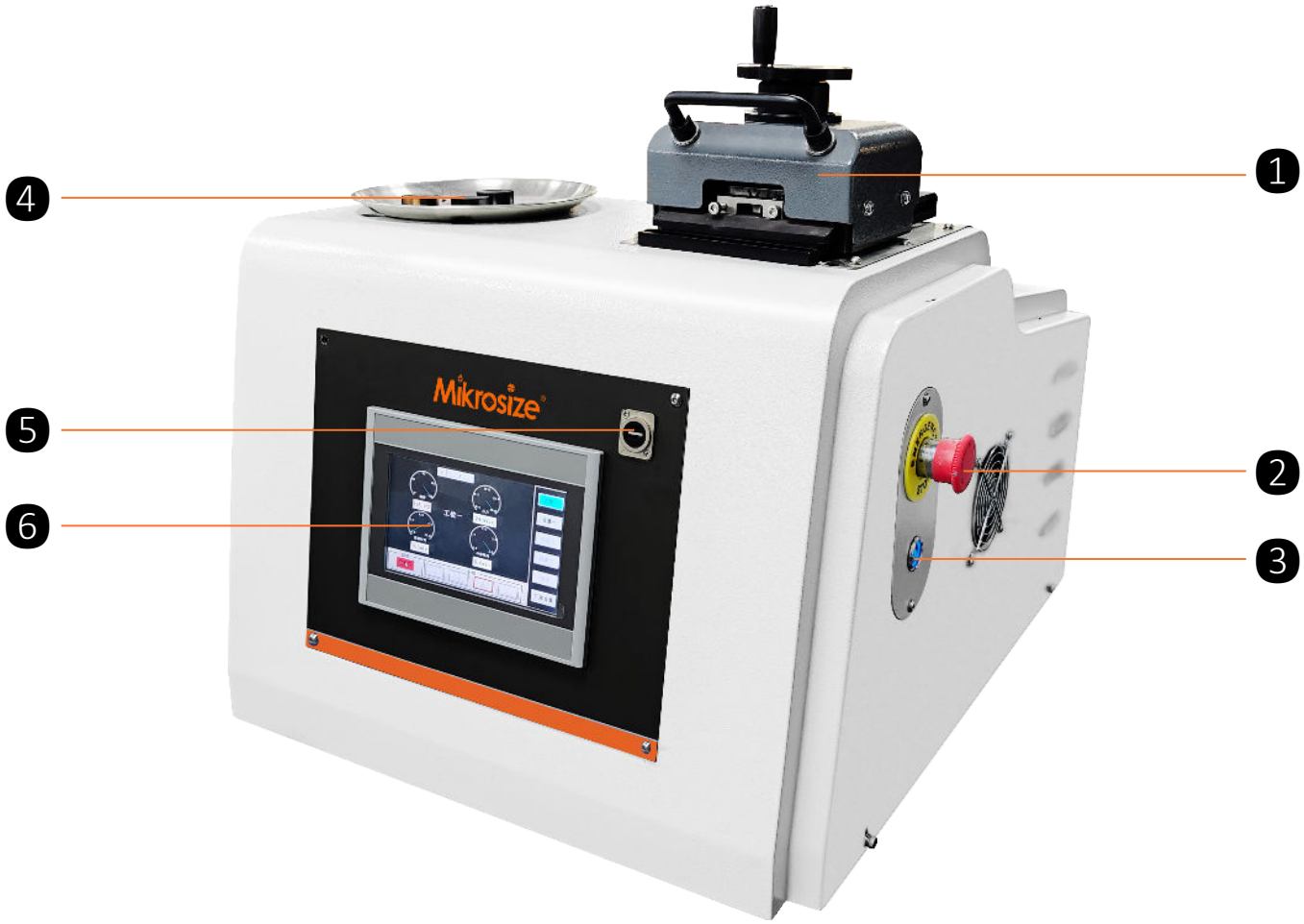
- Integrative mounting of micro samples to ensure flat sample preparation and complete edge retention.
- Hardness gradient, carbide distribution, heat treatment quality and failure analysis.
- Inspection of quenched layer, tempered microstructure, fatigue crack, coating layer and metallographic consistency of materials.
- Metallographic structure rating, grain size, inclusion, carburized layer/nitrided layer depth detection.

Product Details

Detail Display

- Upper mold automatic centering mechanism
- Direct rotation after push-pull in place with automatic alignment
- One station can mount 2 samples at the same time

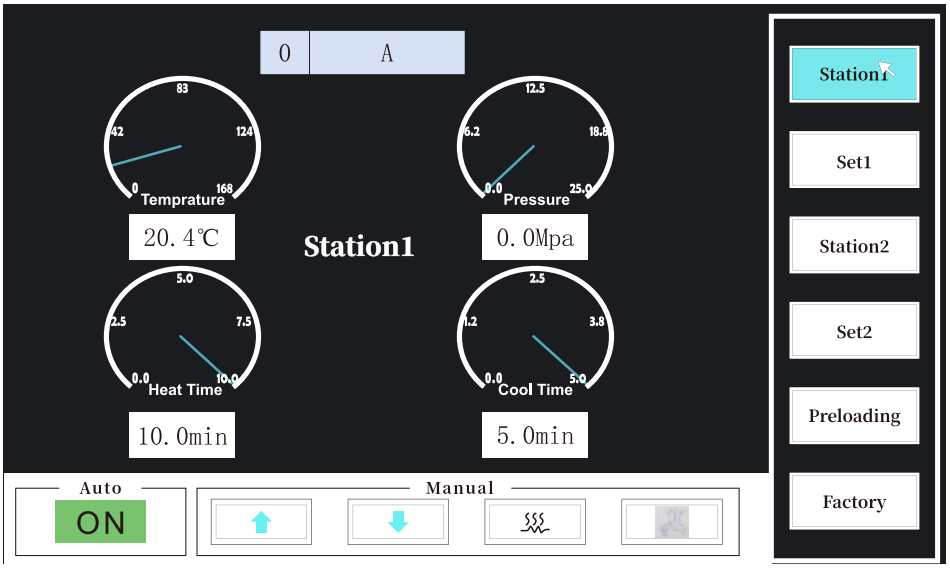
Product Details



1. Upper Mold Cover	**2.Emergency Stop Button**	**3.Power Switch**
4.Sample Tray	**5.USB Port USB**	**6.Display Screen**

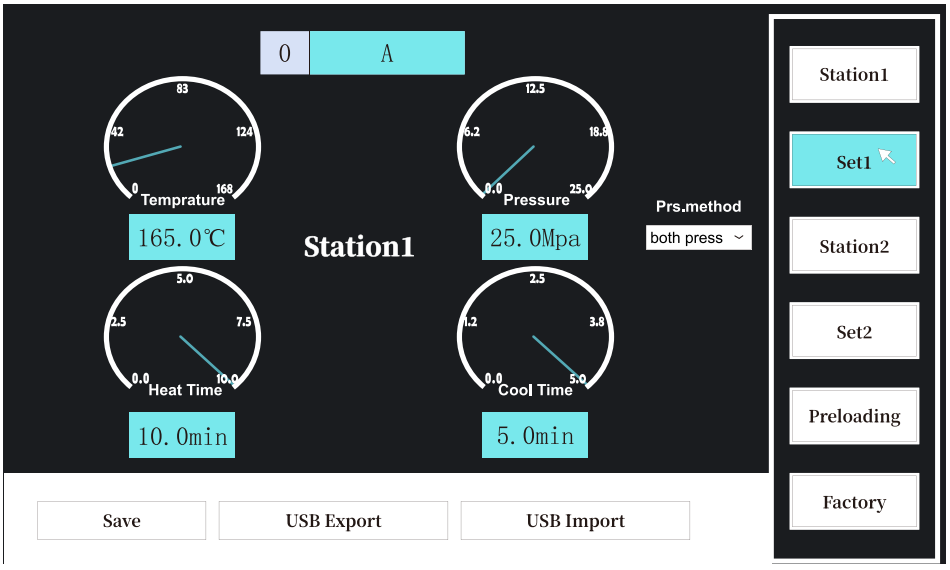
Screen Interface

Main Interface



- Displays real-time internal parameters of equipment: temperature, pressure, holding time and cooling time.
- Automatic mode area: click to start automatic operation of equipment.
- Manual mode area: control equipment lifting, heating switch and cooling water switch.

Setting Interface



- Set parameters including temperature, pressure, holding time and cooling time.
- Import and export program parameters.

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Technical Specification

Name	Fully Automatic Metallographic Mounting Press	
Model	uPress-1HA	uPress-2HA
Mold Diameter	Standard φ30mm (Optional φ25mm, φ40mm, φ50mm)	
Mold Sets (With Partition Plate Included)	1 Set	2 Sets
Mounting Program	Editable mounting process library, storing 99 sets of mounting processes	
Program Import/Export	U Disk	
Heater	2000w	4000w
Max Number of Mounted Samples	2 pcs	4 pcs
Mounting Temperature Range	0~200°C Adjustable	
Mounting Time Range	0~30min	

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Technical Specification

Pressure Range	0~30MPa Adjustable	
Shortest Total Mounting Time	φ30mm：6min；φ50mm：8min	
Pre-pressing Function	Pre-pressing pressure, temperature and time adjustable	
Pressurization Mode	Automatic (Electro-hydraulic System)	
Cooling Mode	Automatic water cooling, solenoid valve control	
Operation & Display Mode	7-inch Touch Screen	
Max Power	2200w	4200w
Ower Supply	AC220V ， 50Hz	
Mold Cavity Height	135mm, Effective Height: 60mm	
Overall Dimension	680*570*530mm	
Weight	90kg	100kg

Standard Delivery

Name	Qty	Photo
Main Unit	1 set	
Edge-retaining Mounting Powder	1 Bottle (500g)	
1.5cm Funnel	1 pc	
Sampling Spoon	1 pc	
Water Inlet Pipe	1 pc	
Drain Pipe	1 pc	
M2.5 Hex Wrench	1 pc	
M5M5 Hex Wrench	1 pc	

Standard Delivery

Name	Qty	Photo
M3M3 Hex Wrench	1 pc	
Special M4 Hex Wrench	1 pc	
M8 Hex Wrench	1 pc	
13-19mm Hose Clamp	2 pcs	
High-temperature PTFE Tape	1 Roll	
4-point Angle Valve	1 pc	
4-point Quick Connector	2 pcs	
Pre-filter	1 pc	

Standard Delivery

Name	Qty	Photo
4-point Filter Mesh	1 pc	
Cleaning Brush	1 pc	
Touch Screen Stylus	1 pc	
85*30mm Switch Arrow Label	1 pc	/
Mechanical Lubricating Oil	1 Bottle	/
Instruction Manual	1 Copy	
Qualification Certificate	1 Copy	
Warranty Card	1 Copy	

Optional Delivery

Optional	Chiller
	Mounting Material
	Stainless Steel Sample Clamp
	Release Agent

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