

AutoPress-1-30/50/120/400 Single Mold Cylinder Automatic Mounting Press



Contact us

Mikrosize Precision Instrument Co.,Ltd

A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.

Web: www.mikrosize.com

Email: mikrosize@mikrosize.com



Feature and Application

Product Feature

- One-touch operation; the whole mounting force including heating, heat preservation, automatic pressure compensation, cooling and unloading is completed automatically.
- High specimen preparation efficiency. Adopting advanced heating technology and optimized cooling system; it takes approximately 7 minutes to mount specimens of $\Phi 30$ mm (1.18 inches), and about 25 minutes for Model 1-30.
- Pneumatic pressurization for Model 1-30 & 1-50, hydraulic pressurization for Model 1-120 & 1-400; maximum pressure reaches 400MPa (Model 1-400).
- Standard specimen size: $\Phi 30$ mm (1.18 inches); optional sizes: $\Phi 40$ mm (1.57 inches) and $\Phi 50$ mm (1.97 inches); custom sizes are available.
- Max. heating temperature: 180°C for pneumatic models, 200°C for hydraulic models.
- Equipped with pulse cooling technology for adjustable cooling intensity and water conservation.
- Three optional cooling modes: temperature control, time control and manual control.
- Multiple safety protections; power cuts off automatically in case of overheating.
- The housing is made of high-strength high-temperature resistant composite material, featuring rust resistance and corrosion resistance.
- 7-inch color touch screen for user-friendly operation.
- Real-time display of temperature curve.
- Supports up to 10 sets of mounting recipe settings.
- No need to remove the top cover for quick opening of the mold cavity.
- Comes with hot mounting release agent as standard for easy demoulding after mounting.
- External circulating water tank is available as an accessory.
- Compliant with standards: GB/T 13298, ASTM E3-11, ISO 20580.

Product Application

- Integrated mounting for tiny samples to ensure flat specimen surface and intact edges.
- Analysis of hardness gradient, carbide distribution, heat treatment quality and failure analysis.
- Detection of quenched layer, tempered microstructure, fatigue cracks, coatings and material metallographic consistency.
- Metallographic structure rating, grain size measurement, inclusion inspection, and depth detection of carburized layer / nitrided layer.



Product Details



1.Handle

2.Mounting Mold Base

3.Air Water Separator

4.Emergency Stop Button

5.Touch Screen

Product Details

Detailed Structure Display



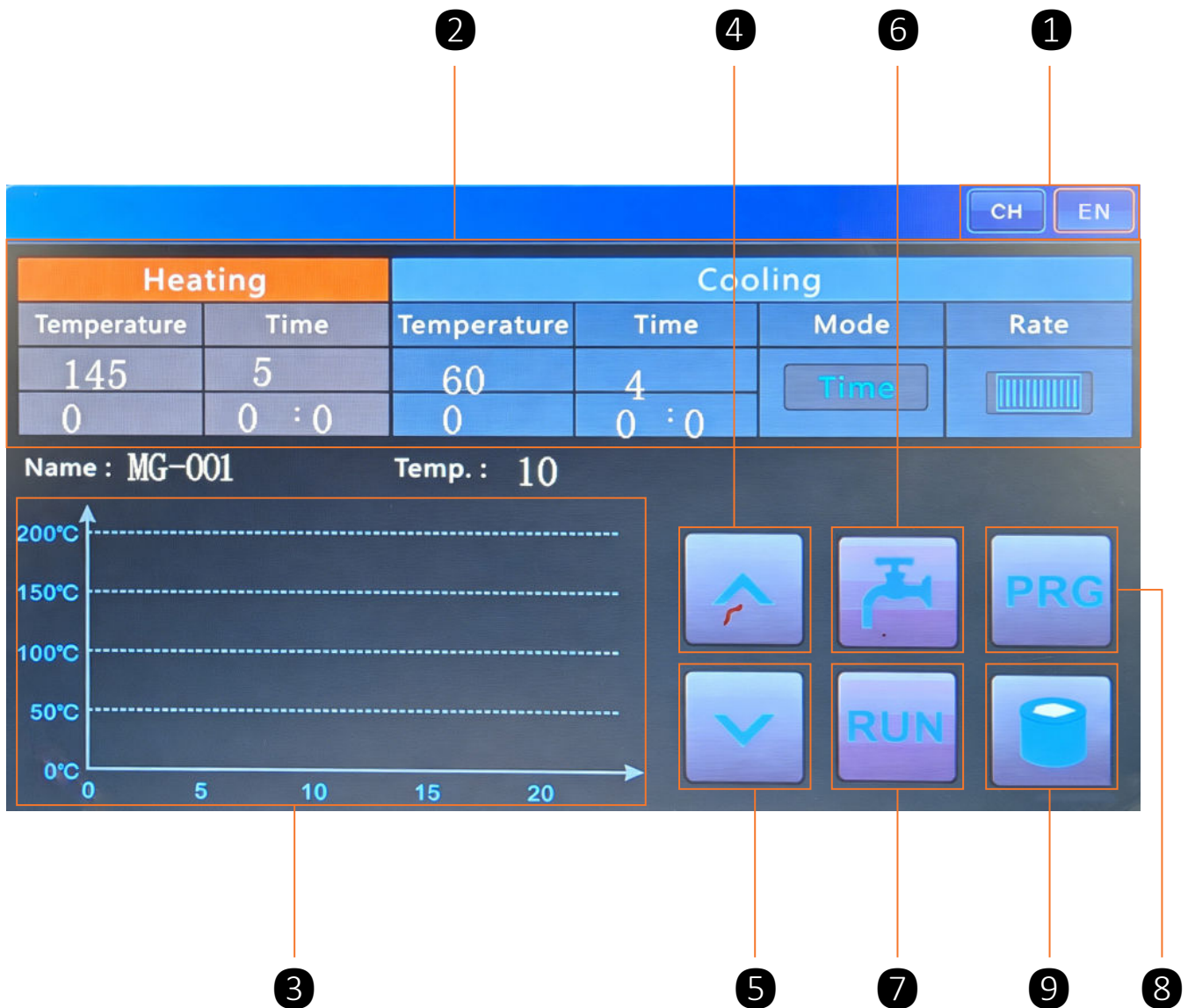
- Buckle-type limiting mounting mold base.
- Double U-shaped clamping grooves on side walls for positioning; made of red copper with excellent wear resistance and smooth operation.



- The pressure cover rotates left and right around the support columns.
- Quick-open design, no disassembly of the upper cover required.

Operation Interface

Screen Interface



1.Language

2.Parameter Display

3.Real-time Temperature Curve

4.Up

5.Down

6.Cooling Water

7.Operation

8.Program Editing

9.Mounting Material Selection

Operation Interface

Screen Interface

No.	Name	Heat Temp	Pressure	Hold Time	Cool Temp	Cool Time	Cool Mode	Cool Rate	Load
1	MG-001	140	10.0	6	40	5	Time		<input checked="" type="checkbox"/>
2	MG-002	120	5.0	5	60	4	Time		<input type="checkbox"/>
3	MG-003	120	5.0	5	60	4	Time		<input type="checkbox"/>
4	MG-004	120	5.0	5	60	4	Time		<input type="checkbox"/>
5	MG-005	120	5.0	5	60	4	Time		<input type="checkbox"/>

Temp. unit: °C Pressure unit: MPa

No.	Name	Heat Temp	Pressure	Hold Time	Cool Temp	Cool Time	Cool Mode	Cool Rate	Load
6	MG-006	120	5.0	5	60	4	Time		<input type="checkbox"/>
7	MG-007	120	5.0	5	60	4	Time		<input type="checkbox"/>
8	MG-008	120	5.0	5	60	4	Time		<input type="checkbox"/>
9	MG-009	120	5.0	5	60	4	Time		<input type="checkbox"/>
10	MG-010	120	5.0	5	60	4	Temp.		<input type="checkbox"/>

Temp. unit: °C Pressure unit: MPa

- Pre-stored 10 sets of commonly used parameters, including heating temperature, pressure, holding time, cooling temperature, cooling mode and cooling level.
- Support quick parameter selection without repeated setting.

Ordering Information



AutoPress 1-30
Automatic Mounting Press



AutoPress 1-50
Automatic Mounting Press



AutoPress 1-120
Automatic Mounting Press



AutoPress 1-400
Automatic Mounting Press

Technical Specification

Name	Single Mold Cylinder Automatic Mounting Press			
Model	AutoPress 1-30	AutoPress 1-50	AutoPress 1-120	AutoPress 1-400
Maximum Pressure	30MPa	50MPa	120MPa	400MPa
Power	600w	1.2kw	1.2kw	1.5kw
Net Weight	25kg 55.11lb)	25kg (55.11lb)	30kg (66.13lb)	48kg (105.82lb)
Pressurization Mode	Pneumatic		Hydraulic	
Maximum Temperature	180°C		200°C	
Air Water Filter	Standard Accessory		Not Equipped	
Air Supply	Required		/	
Working Mode	Automatic			
Cooling Mode	Water Cooling			
Specification Size	Standard: 1.18inches(Φ30 mm); Optional: Φ1.57inches (40 mm), 1.97inches(Φ50 mm)			
Power Supply	220V 50Hz/110V 60Hz			
Overall Dimensions(mm)	400*400*420	400*400*420	350*400*420	410*480*430

Standard Delivery

Name	Qty	Photo
Main Unit	1pc	
Graduated Cylinder	1pc	
Funnel	1pc	
General Thermal Mounting Compound	1pc	
Thermal Mounting Release Agent	1pc	
Operation Manual	1copy	
Certificate of Conformity	1copy	
Warranty Card	1copy	

Optional Delivery

Optional

Edge-retaining Thermal Mounting Compound

Transparent Thermal Mounting Compound

Conductive Thermal Mounting Compound

Section Clamp

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